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**User Manuals**

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Release 8.xx

# **HyperpanelPRO 30 / 60**

## **UltrapanelPRO 30 / 60**

Full Color / Dual Color

## **SuperpanelPRO 30 / 60**

Full Color / Dual Color

## **ActionpanelPRO**

Full Color / Dual Color

## **DayledPRO**

DayledPRO 650 / Dual Color 650 / Full Color 650

DayledPRO 1000 / Dual Color 1000 / Full Color 1000

DayledPRO 2000 / Dual Color 2000 / Full Color 2000

DayledPRO 3000 / Dual Color 3000 / Full Color 3000

## **MovielightPRO**

Monocolor / Dual Color / Full Color

## **SAFETY PRECAUTIONS:**

Do not operate the equipment before studying the instruction manual and the accompanying safety precautions. Make sure that Lupo Safety Instruction is always included with the equipment! Lupo products are intended for professional use. Do not place or use the equipment where it can be exposed to moisture, extreme electromagnetic fields or in areas with flammable gases or dust! Do not expose the equipment to dripping or splashing. Do not place any objects filled with liquids on or near the equipment. Do not expose the equipment to hasty temperature changes in humid conditions as this could lead to condensation water in the unit. Equipment must only be serviced, modified or repaired by authorized and competent service personnel!

## **CAUTION - BURN HAZARD - HOT PARTS**

Do not touch hot parts with bare fingers! LED bulbs and certain metal parts emit strong heat when used! Do not point lamps too close to persons. Always use the fixtures with the front part closed.

## **NOTICE - EQUIPMENT OVERHEATING RISK**

Do not obstruct ventilation by placing filters, diffusing materials, etc. over inlets and outlets of the equipment ventilation or directly over glass cover or LED bulbs.

## **FINAL DISPOSAL**

When no longer in use, this product may not be deposited in the normal household waste but should be brought to a collection point for the recycling of electrical and electronic appliances. The materials are recyclable as marked. By re-use, recycling or another form of using old appliances you are making an important contribution towards the protection of the environment. Please ask your local authorities for the appropriate disposal point. Equipment contains electrical and electronic components that could be harmful to the environment.

Equipment may be returned to Lupo distributors free of charge for recycling according to WEEE. Follow local legal requirements for separate

disposal of waste, for instance WEEE directive for electrical and electronic equipment on the European market, when product life has ended!

## **MAINTENANCE AND CARE**

Please do not forget that the safe operation of lampheads also includes their maintenance and care. A visual inspection should be conducted before every use and an inspection of electrical safety should be conducted at least once every 12 months.

## **WARRANTY**

Each Lupo product will be repaired free of charge by Lupo if during a period of **12 months** for mechanical components and **12 months** for electrical/electronic components from date of purchase its working order is impaired through a manufacturing or material defect. The faulty product should be immediately sent to authorized dealer or Lupo. This warranty is not valid for equipment which has been used improperly, dismantled, modified or repaired by persons not belonging to the Lupo distribution network. It does not cover lamps, lenses or the material entirely or partially made of glass. No responsibilities can be accepted for damage resulting from unsatisfactory operation of the equipment. Please contact the dealer who sold the fixture/s before any units are returned for repair. Lupo will make the final determination as to whether or not the unit is covered by warranty. Lupo will replace or repair to proper working condition any products that are returned under warranty. Products repaired or replaced under warranty are under warranty only for the remaining unexpired period of time of the original warranty. Any product unit or part returned to Lupo must be packaged in a suitable manner to ensure the protection of such product unit or parts. The package must be clearly and prominently marked to indicate that the package contains returned product units or parts. All returned product units or parts must be accompanied by a written explanation of the alleged problem or malfunction.

## **⚠ WARNING:**

When hanging the fixture from higher position, please make sure you use a safety cable to attach the barndoors to the yoke of the fresnel.

Barndoors should always be secured to the yoke when used in this way.

Another safety cable should be used to secure the fixture to the mounting pipe or truss.

Both safety cables must be properly dimensioned for the fixture and the application when the fixture is operated in hanging position please ensure that the accessories are installed correctly with top latch locked.

*Thanks for having purchased **Lupo** products. All the products are made in Italy and all the efforts have been put to keep the quality standards high. We hope this product can help you in your job and make your life easier as a professional. We also hope you will enjoy its use and we would be happy to receive your feedback about it.*

## HyperpanelPRO 30

|              |                                  |       |
|--------------|----------------------------------|-------|
| Cod. 500 PRO | HyperpanelPRO Dual Color Soft 30 | pg. 6 |
| Cod. 501 PRO | HyperpanelPRO Dual Color Hard 30 | pg. 6 |

## HyperpanelPRO 60

|              |                                  |        |
|--------------|----------------------------------|--------|
| Cod. 502 PRO | HyperpanelPRO Dual Color Soft 60 | pg. 25 |
| Cod. 503 PRO | HyperpanelPRO Dual Color Hard 60 | pg. 25 |

## UltranelPRO 30

|              |                                |        |
|--------------|--------------------------------|--------|
| Cod. 800 PRO | UltranelPRO Dual Color Hard 30 | pg. 6  |
| Cod. 810 PRO | UltranelPRO Dual Color Soft 30 | pg. 6  |
| Cod. 817 PRO | UltranelPRO Full Color Hard 30 | pg. 15 |
| Cod. 815 PRO | UltranelPRO Full Color Soft 30 | pg. 15 |

## UltranelPRO 60

|              |                                |        |
|--------------|--------------------------------|--------|
| Cod. 804 PRO | UltranelPRO Dual Color Hard 60 | pg. 15 |
| Cod. 814 PRO | UltranelPRO Dual Color Soft 60 | pg. 15 |
| Cod. 818 PRO | UltranelPRO Full Color Hard 60 | pg. 34 |
| Cod. 816 PRO | UltranelPRO Full Color Soft 60 | pg. 34 |

## SuperpanelPRO 30

|              |                                  |        |
|--------------|----------------------------------|--------|
| Cod. 400 PRO | SuperpanelPRO Dual Color Hard 30 | pg. 6  |
| Cod. 410 PRO | SuperpanelPRO Dual Color Soft 30 | pg. 6  |
| Cod. 418 PRO | SuperpanelPRO Full Color Hard 30 | pg. 15 |
| Cod. 415 PRO | SuperpanelPRO Full Color Soft 30 | pg. 15 |

## SuperpanelPRO 60

|              |                                  |        |
|--------------|----------------------------------|--------|
| Cod. 404 PRO | SuperpanelPRO Dual Color Hard 60 | pg. 15 |
| Cod. 414 PRO | SuperpanelPRO Dual Color Soft 60 | pg. 15 |
| Cod. 419 PRO | SuperpanelPRO Full Color Hard 60 | pg. 34 |
| Cod. 416 PRO | SuperpanelPRO Full Color Soft 60 | pg. 34 |

## ActionpanelPRO

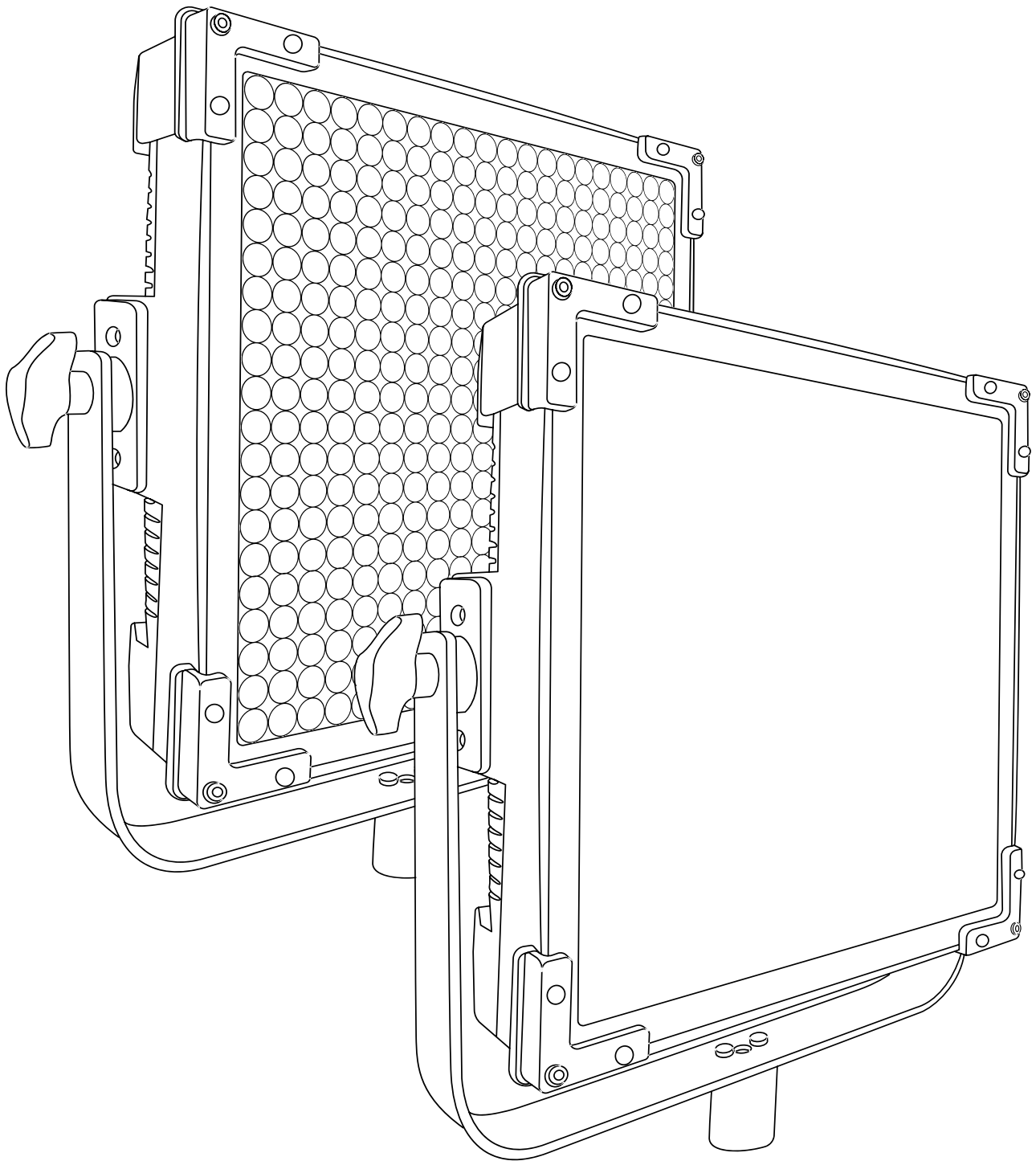
|              |                                |        |
|--------------|--------------------------------|--------|
| Cod. 600 PRO | ActionpanelPRO Dual Color Hard | pg. 45 |
| Cod. 603 PRO | ActionpanelPRO Dual Color Soft | pg. 45 |
| Cod. 602 PRO | ActionpanelPRO Full Color Hard | pg. 54 |
| Cod. 604 PRO | ActionpanelPRO Full Color Soft | pg. 54 |

## DayledPRO

|                                           |                                 |         |
|-------------------------------------------|---------------------------------|---------|
| <b>Cod. 300D PRO / 300T PRO / 303 PRO</b> | DayledPRO 650 .....             | pg. 64  |
| <b>Cod. 301D PRO / 301T PRO / 304 PRO</b> | DayledPRO 1000 .....            | pg. 64  |
| <b>Cod. 302D PRO / 302T PRO / 305 PRO</b> | DayledPRO 2000 .....            | pg. 64  |
| <b>Cod. 309D PRO / 309T PRO / 310 PRO</b> | DayledPRO 3000 .....            | pg. 73  |
| <b>Cod. 312D PRO / 312T PRO / 316 PRO</b> | DayledPRO 5000 .....            | pg. 82  |
| <b>Cod. 306 PRO</b>                       | DayledPRO Full Color 650 .....  | pg. 90  |
| <b>Cod. 307 PRO</b>                       | DayledPRO Full Color 1000 ..... | pg. 90  |
| <b>Cod. 308 PRO</b>                       | DayledPRO Full Color 2000 ..... | pg. 90  |
| <b>Cod. 311 PRO</b>                       | DayledPRO Full Color 3000 ..... | pg. 101 |
| <b>Cod. 317 PRO</b>                       | DayledPRO Full Color 5000 ..... | pg. 111 |

## MovielightPRO

|                 |                                    |         |
|-----------------|------------------------------------|---------|
| <b>Cod. 900</b> | MovielightPRO 300 .....            | pg. 121 |
| <b>Cod. 901</b> | MovielightPRO Dual Color 300 ..... | pg. 121 |
| <b>Cod. 904</b> | MovielightPRO Full Color 300 ..... | pg. 130 |
| <b>Cod. 906</b> | MovielightPRO Dual Color 600 ..... | pg. 139 |
| <b>Cod. 909</b> | MovielightPRO Full Color 600 ..... | pg. 148 |



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## User Manuals

**500 PRO HyperpanelPRO Dual Color Soft 30**

**501 PRO HyperpanelPRO Dual Color Hard 30**

**800 PRO UltrapanelPRO Dual Color Hard 30**

**810 PRO UltrapanelPRO Dual Color Soft 30**

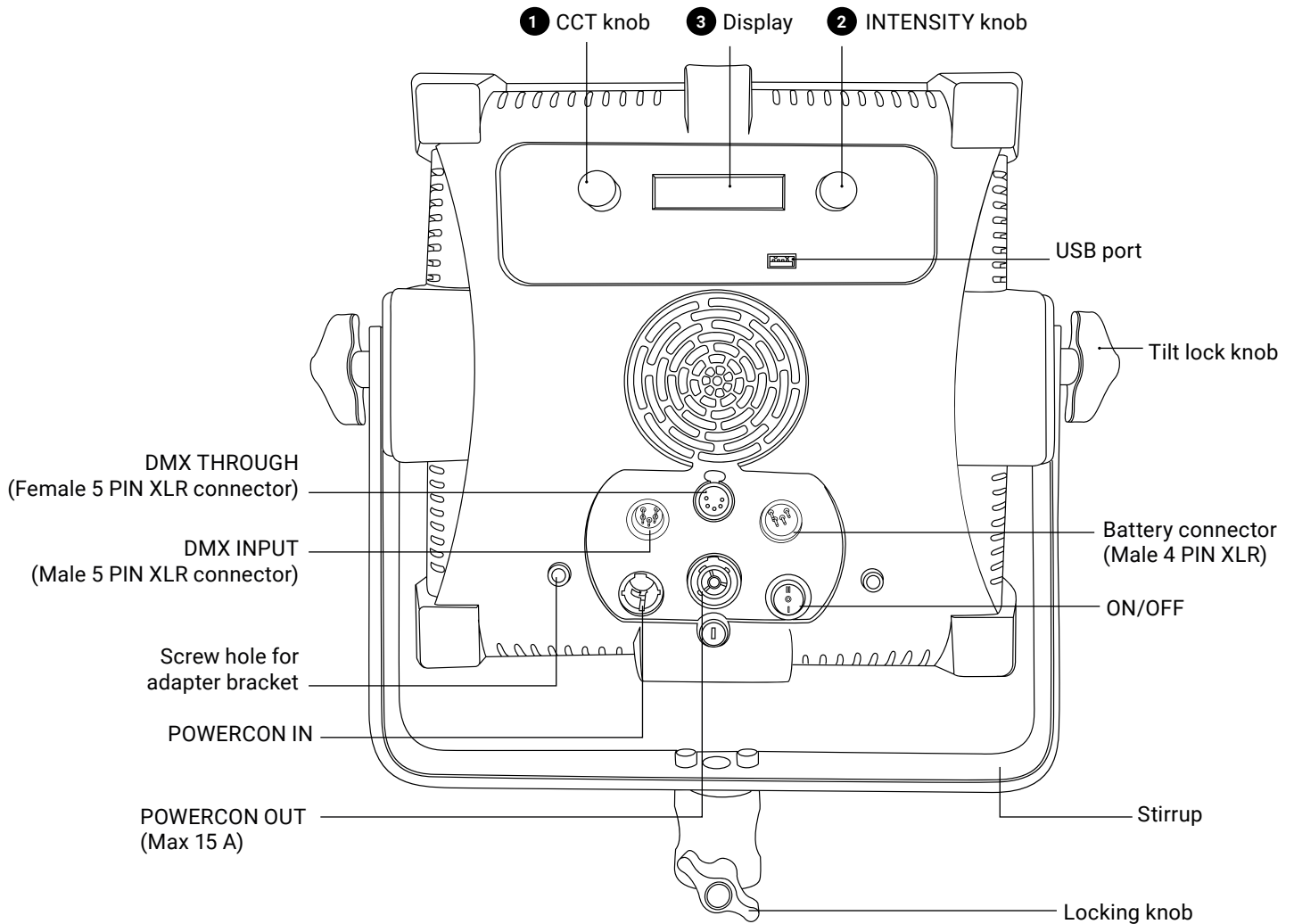
**400 PRO SuperpanelPRO Dual Color Hard 30**

**410 PRO SuperpanelPRO Dual Color Soft 30**

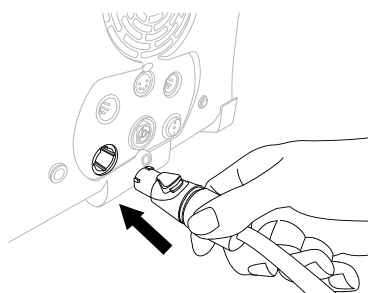
## Instructions

- Device for indoor use only.
- Maximum ambient temperature: 40 °C.
- Make sure power supply plug is suitable to power required.
- As prescribed by international regulations, a safety cable must be used when the fixture is suspended from ceiling.
- To switch on the light push the on/off button.
- SuperpanelPRO, UltrapanelPRO and HyperpanelPRO models are equipped with new generation high quality powerleds.

## Getting Started with the 30 panels



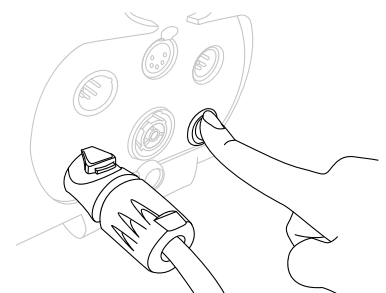
## Turning on the 30 panels



**1** Insert the POWERCON



**2** Rotate it by 15° until makes a click



**3** Turn ON the power switch:  
0 : OFF  
I : AC power  
II : Battery power

## CONTROL PANEL

- In current mode press the ➊ push button to enter the main MENU.
- In the sub-menus press the ➊ push button to confirm a selection.
- Rotate the ➋ knob to navigate in the main MENU and sub-menus.
- Use the « **INTENSITY** » ➋ knob to adjust the **light intensity from 0 to 100%**.
- Use the knob ➊ to adjust the light mode parameters.
- Display ➌.

## MODE

1. Press the ➊ push button to enter the main MENU.
2. Select **MODE** by pressing the ➊ push button.
3. Select the light mode among **CCT** with the ➋ knob and press the ➊ push button to confirm selection.
4. Select among **CCT / PRESET / SAVE PRESET** with the ➋ knob and press the ➊ push button to confirm selection
5. See **LIGHT MODES**.

## LIGHT MODES

| MODE | INTENSITY ➌     | CCT/HUE ➍            | GN/SAT/COLOR ➎ | GN/SAT/COLOR ➎ |
|------|-----------------|----------------------|----------------|----------------|
| CCT  | Light Intensity | CT 2800 K to 10000 K | -              | -              |

**CCT MODE:** Warm and cold white control mode. It allows you to adjust colour temperature (CCT), and light intensity.  
*This is the default setting.*

**⚠ ATTENTION:** Rotating the ➊ knob changes the CT value- Pressing ➊ button select GN value that can be changed by rotating the same ➊ knob.

## DMX OPERATIONS

1. Press the ➊ push button to enter the main MENU.
2. Select **CONTROL** with the ➋ knob and press the ➊ push button to confirm selection.
3. Select **DMX** with the ➋ knob and press the ➊ push button to confirm selection.
4. Select the DMX channel, rotating the ➊ knob to change DMX ADDRESS in ascending or descending order among 1 and 512. The number shown on the display ➌ is the selected channel to communicate with the control desk.
5. See **DMX PROTOCOL MANUAL** for DMX channel specification.

**NOTE:** The symbol - ! - on the display indicates that there is **no DMX signal**.

## BLUETOOTH

1. Press the ➊ push button to enter the main MENU.
1. Select **CONTROL** with the ➋ knob and press the ➊ push button to confirm selection.
2. Select **BLE** with the ➋ knob and press the ➊ push button to confirm selection.

## DMX OPERATIONS - Advanced Settings

1. Press the ➊ push button to enter the main MENU.
2. Navigate through the main MENU with the ➋ knob until **DEVICE SETTINGS** and press the ➊ push button to confirm selection.
3. Rotate the ➋ knob to select **DMX ADVANCED**, press the ➊ push button to confirm selection.
4. Select one of the options among the **DMX BIT, DMX SIGNAL LOSS, RDM ENABLE, STROBE ENABLE** and **INV CCT**

press **2** push button to confirm the selection.

#### DMX BIT:

Resolution of the DMX control. 8bit 1 channel per function and 16 bit 2 channels per function.

1. Select the **DMX BIT** item by pressing the **2** push button.
2. Rotate the **2** knob to choose between **8bit / 16bit**, press the **2** push button to confirm the selected setting. See **DMX PROTOCOL MANUAL**.

#### DMX SIGNAL LOSS:

This feature allows to choose the device's behaviour in case of a DMX signal loss.

1. Select the **LOSS DMX SIGNAL** item with the **2** push button
2. Rotate the **2** knob to select the device's behaviour among **BLACK OUT / SETTINGS LAST / SETTINGS 1min**, press the **2** push button to confirm the setting.

**Black out:** The device switches off.

**Settings Last:** The values of the last selected setting are maintained over time until the device is switched off.

**Settings 1min:** The values of the last selected settings is maintained for one minute and then the device switch off.

**RDM Enable:** ON/OFF, enable/disable RDM Protocol

**INV CCT:** ON/FF: enable/disable reversal CCT console control

# DMX Protocol

## Introduction

The SuperpanelPRO and UltrapanelPRO can be used with 8 bit or 16 bit DMX control. (See **DMX OPERATION - advanced settings** in the user's manual). When used in **8 bit mode** the panels uses **one channel for each function**. DMX values for each channel are in the range of 0 to 255. When used in **16 bit mode** the panels uses **two channels for each function**. The increased resolution offers a smooth dimming and a more accurate color adjustment. DMX values for the first channel (byte 1) are in the range of 256 to 65535 while for the second channel (byte 2) they are in the range of 0 to 255.

**⚠ ATTENTION:** The symbol - ! - on the display indicates that there is **no DMX signal**.

**⚠ ATTENTION:** \* If the **STROBE** in the DMX ADVANCED SETTINGS is **enabled**, there are 1 more channel in 8 bit and 2 more channels in 16 bit:

## DMX Channel Protocol - 8 bit

| MODE | CHANNELS | DMX CHANNEL POSITION | DMX VALUE | VALUE       |
|------|----------|----------------------|-----------|-------------|
| CCT  | 2/3*     | 1. DIMMER            | 0 - 255   | 0 - 100 %   |
|      |          | 2. COLOR TEMPERATURE | 0 - 255   | 6500 - 2700 |
|      |          | 3. *STROBE CONTROL   | 0 ÷ 5     | Ø           |
|      |          |                      | 6 ÷ 255   | 1 ÷ 25 Hz   |

## DMX Channel Protocol - 16 bit

| MODE | CHANNELS | DMX CHANNEL POSITION          | DMX VALUE    | VALUE       |
|------|----------|-------------------------------|--------------|-------------|
| CCT  | 4/6*     | 1. DIMMER - byte 1            | 0 - 65535    | 0 ÷ 100 %   |
|      |          | 2. DIMMER - byte 2            |              |             |
|      |          | 3. COLOR TEMPERATURE - byte 1 | 0 - 65535    | 6500 - 2700 |
|      |          | 4. COLOR TEMPERATURE - byte 2 |              |             |
|      |          | 5. *STROBE CONTROL - byte 1   | 0 ÷ 1300     | Ø           |
|      |          | 6. *STROBE CONTROL - byte 2   | 1301 ÷ 65535 | 1 ÷ 25 Hz   |



# RDM

## Protocol Specification

| COMMAND                      | PID    | DESCRIPTION                                         |
|------------------------------|--------|-----------------------------------------------------|
| Manufacturer ID              | 0x0622 | Manufacturer identification number (LUPO Lighting). |
| <b>Device Identification</b> |        |                                                     |
| <b>Model ID</b>              |        | <b>Model identification number</b>                  |
|                              | 1      | DayledPRO 650 mono color                            |
|                              | 2      | DayledPRO 650 dual color                            |
|                              | 3      | DayledPRO 1000 mono color                           |
|                              | 4      | DayledPRO 1000 dual color                           |
|                              | 5      | DayledPRO 2000 mono color                           |
|                              | 6      | DayledPRO 2000 dual color                           |
|                              | 7      | SuperpanelPRO 30 dual color soft                    |
|                              | 8      | SuperpanelPRO 30 dual color hard                    |
|                              | 9      | SuperpanelPRO 30 full color soft                    |
|                              | 10     | SuperpanelPRO 30 full color hard                    |
|                              | 11     | SuperpanelPRO 60 dual color soft                    |
|                              | 12     | SuperpanelPRO 60 dual color hard                    |
|                              | 13     | SuperpanelPRO 60 full color soft                    |
|                              | 14     | SuperpanelPRO 60 full color hard                    |
|                              | 15     | ActionpanelPRO dual color soft                      |
|                              | 16     | ActionpanelPRO dual color hard                      |
|                              | 17     | ActionpanelPRO full color soft                      |
|                              | 18     | ActionpanelPRO full color hard                      |
|                              | 19     | Kickasspanel dual color                             |
|                              | 20     | Kickasspanel full color                             |
|                              | 21     | Lupoled monocolour                                  |
|                              | 22     | Lupoled dualcolor                                   |
|                              | 23     | MovielightPRO 300 monocolour                        |
|                              | 24     | MovielightPRO 300 dual color                        |
|                              | 25     | UltrapanelPRO 30 dual color soft                    |
|                              | 26     | UltrapanelPRO 30 dual color hard                    |
|                              | 27     | UltrapanelPRO 60 full color soft                    |
|                              | 28     | UltrapanelPRO 60 full color hard                    |
|                              | 29     | UltrapanelPRO 30 full color soft                    |
|                              | 30     | UltrapanelPRO 30 full color hard                    |
|                              | 31     | UltrapanelPRO 60 dual color soft                    |
|                              | 32     | UltrapanelPRO 60 dual color hard                    |
|                              | 33     | DayledPRO 650 PRO Full Color                        |
|                              | 34     | DayledPRO 1000 PRO Full Color                       |
|                              | 35     | DayledPRO 2000 PRO Full Color                       |

|                               |        |                                                                                                                       |
|-------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------|
|                               | 36     | DayledPRO 3000 full color                                                                                             |
|                               | 37     | Movielight 300 full color                                                                                             |
|                               | 38     | DayledPRO 3000 mono color                                                                                             |
|                               | 39     | DayledPRO 3000 dual color                                                                                             |
|                               | 40     | MovielightPRO 600 dual color                                                                                          |
|                               | 41     | DayledPRO 5000 monocolor                                                                                              |
|                               | 42     | DayledPRO 5000 dual color                                                                                             |
|                               | 43     | DayledPRO 5000 full color                                                                                             |
|                               | 44     | HyperpanelPRO 30 dual color soft                                                                                      |
|                               | 45     | HyperpanelPRO 30 dual color hard                                                                                      |
|                               | 46     | HyperpanelPRO 60 dual color soft                                                                                      |
|                               | 47     | HyperpanelPRO 60 dual color hard                                                                                      |
|                               | 48     | MovielightPRO 600 full color                                                                                          |
| <b>Personality MONOCOLOR</b>  |        | <b>DMX Personality</b>                                                                                                |
|                               | 0x01   | CCT                                                                                                                   |
| <b>Personality DUAL COLOR</b> |        | <b>DMX Personality</b>                                                                                                |
|                               | 0x01   | CCT                                                                                                                   |
|                               | 0x02   | PRESET                                                                                                                |
| <b>Personality FULL COLOR</b> |        | <b>DMX Personality</b>                                                                                                |
|                               | 0x01   | CCT                                                                                                                   |
|                               | 0x02   | HSI                                                                                                                   |
|                               | 0x03   | RGBW                                                                                                                  |
|                               | 0x04   | FRGBW                                                                                                                 |
|                               | 0x05   | PRESET                                                                                                                |
| <b>Network management</b>     |        |                                                                                                                       |
| DISC UNIQUE BRANCH            | 0x0001 | Search RDM devices                                                                                                    |
| DISC MUTE                     | 0x0002 | Mute RDM device, no response message                                                                                  |
| DISC UN MUTE                  | 0x0003 | Activate RDM device fo response message                                                                               |
| <b>Status collection</b>      |        |                                                                                                                       |
| QUEUED MESSAGES               | 0x0020 | Retrieves queued messages or status message if no message is in queue                                                 |
| STATUS MESSAGES               | 0x0030 | Retrieves current Warning/Error messages                                                                              |
| <b>RDM Information</b>        |        |                                                                                                                       |
| SUPPORTED PARAMETERS          | 0x0050 | Retrieves a list of all supported RDM commands                                                                        |
| PARAMETER DESCRIPTION         | 0x0051 | Retrieves a list of all RDM commands                                                                                  |
| <b>Product Information</b>    |        |                                                                                                                       |
| DEVICE INFO                   | 0x0060 | Retrieves a variety of information about the device that is normally required by a controller.                        |
| DEVICE MODEL DESCRIPTION      | 0x0080 | Text description of up to 32 characters for the device model type.                                                    |
| MANUFACTURER LABEL            | 0x0081 | This parameter provides an ASCII text response with the Manufacturer name for the device. "LUPO" is the default name. |
| FACTORY DEFAULTS              | 0x0090 | Set the device to its factory defaults. Get: Check if settings still in default state -> 1 if default                 |
| SOFTWARE VERSION LABEL        | 0x00C0 | Retrieves software version string of main software                                                                    |

| DMX512 Setup                |        |                                                          |
|-----------------------------|--------|----------------------------------------------------------|
| DMX PERSONALITY             | 0x00E0 | DMX mode                                                 |
| DMX PERSONALITY DESCRIPTION | 0x00E1 | Shows a description of a DMX-Mode, max 32 characters     |
| DMX START ADDRESS           | 0x00F0 | DMX address                                              |
| Control                     |        |                                                          |
| IDENTIFY DEVICE             | 0x1000 | The identify flag (flashes the light)                    |
| Manufacturer Commands       |        |                                                          |
| DISPLAY TIMEOUT             | 0x8002 | 0: 30 sec 1: 1 min 2: always on                          |
| DMX SIGNAL LOST MODE        | 0x8003 | 0: black out 1: last settings on 2: last settings 1 min  |
| DMX BITS                    | 0x8004 | 0: 8 bit 1: 16 bit                                       |
| CCT LIMIT                   | 0x8005 | 0: 2800-10000 1: 3200-5600                               |
| LINEARIZATION               | 0x8006 | 0: linear 1: exponential 2: logarithmic                  |
| FILTER                      | 0x8007 | 0: full speed 1: normal speed 2: high speed 3: low speed |
| FREQUENCY                   | 0x8008 | 0: 18 KHz 1: 25 KHz                                      |
| INV - CCT                   | 0x8009 | 0: not inverted 1: inverted                              |
| PRESET                      | 0x800A | select preset number                                     |

## DEVICE SETTINGS

1. Press the **2** push button to enter the main MENU.
2. Navigate through the MENU rotating the **2** button, select **DEVICE SETTINGS**, press the **2** push button to confirm the selection.
3. Navigate through the MENU rotating the **2** button, select **GENERAL**, press the **2** push button to confirm the selection.
4. Navigate through the **FAN POWER / DISPLAY / FREQUENCY / FILTER / LINEARIZATION / CCT LIMIT** functions, rotating the **2** button to select the desired function and press the **2** push button to confirm the selection.
5. Within each function select the option to be activated and rotate the **2** button.

**Display:** Time during which the display backlight stays on. **30sec / 1min / ALWAYS ON.**

**Frequency:** Dimmer frequency 18 KHz - 25 KHz

**Filter:** It is the speed response of the system (smooth factor).

**FULL SPEED / NORMAL SPEED / HIGH SPEED / LOW SPEED.**

**Linearization:** Linearization is the compensation curve for the human eye's perception of the luminous intensity emitted as a function of the required power. Required power = dimmer value on the display. **LINEAR / EXPONENTIAL / LOGARITHMIC.**

**Linear:** No compensation, the intensity of the light is directly proportional to requested power.

**Exponential:** The light intensity increases from 0 to 100 exponentially.

**Logarithmic:** The light intensity increases from 0 to 100 logarithmically.

**CCT Limit:** CCT range 2800 - 6500 or 3200 - 5600

## RESET DEVICE

1. Press the « **OK** » **2** button to enter the main MENU.
2. Select **RESET DEVICE** rotating the **2** button, press the **2** push button to confirm the selection.
3. Select **YES** rotating the **2** button, press the **2** push button to confirm the selection.
4. The device ask for further confirmation, select **YES** by pressing the press the **2** push button. **THE DEVICE RETURNS TO FACTORY DEFAULT SETTINGS.**

## FACTORY DEFAULT SETTING

### MODE

CCT

### DMX OPERATION

BIT: 8 BIT

DMX SIGNAL LOSS: Settings 1 MIN

RDM ENABLE: OFF

INV - CCT: OFF

### DEVICE SETTINGS

DISPLAY: 1 min

FILTER : Normal speed

LINEARIZATION: Linear

FREQUENCY: 18 KHz

### CONTROL

Manual

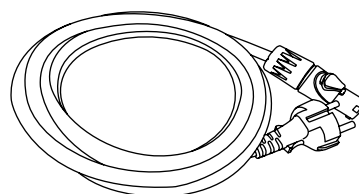
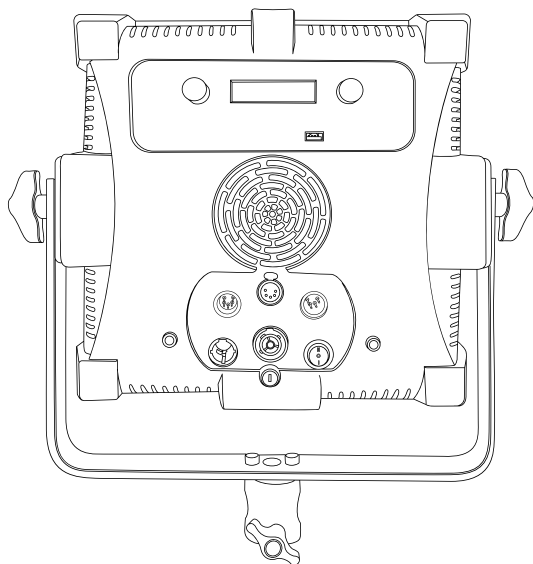
## USB PORT

Use USB port for firmware updates.

## Update the Firmware

1. Copy the file on an USB Pendrive (FAT32 formatted) in the main root;
2. Switch off the equipment and insert the USB Pendrive;
3. Switch on the equipment;
4. Wait until display backlight stop flashing (it takes several minutes and display backlight must toggle for all time long);
5. Switch off the equipment;
6. Extract the Pendrive and switch on the equipment: the firmware is updated.

## Package Contents for SuperpanelPRO 30, UltrapanelPRO 30 and HyperpanelPRO 30

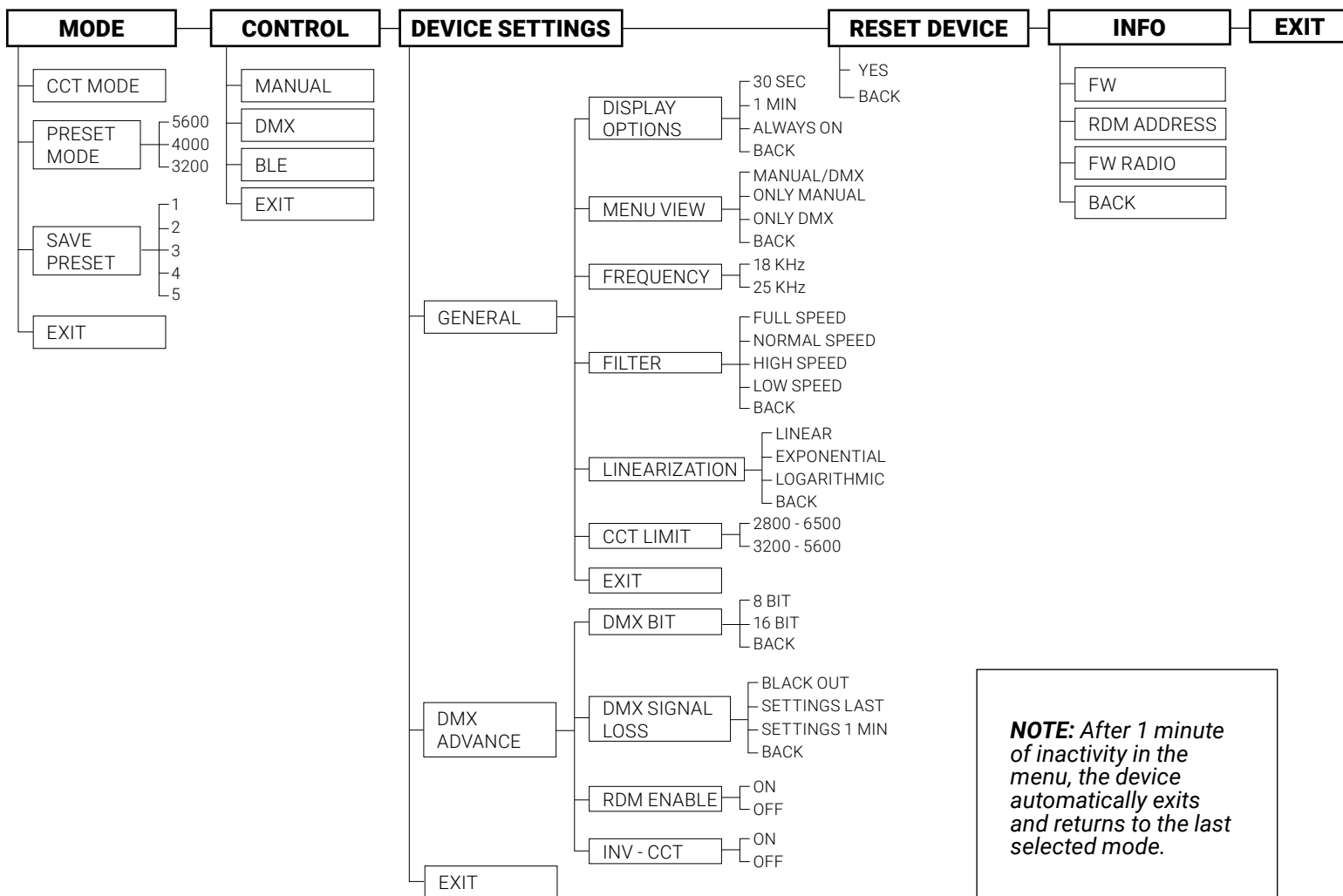


**AC Power  
Cord Cable**

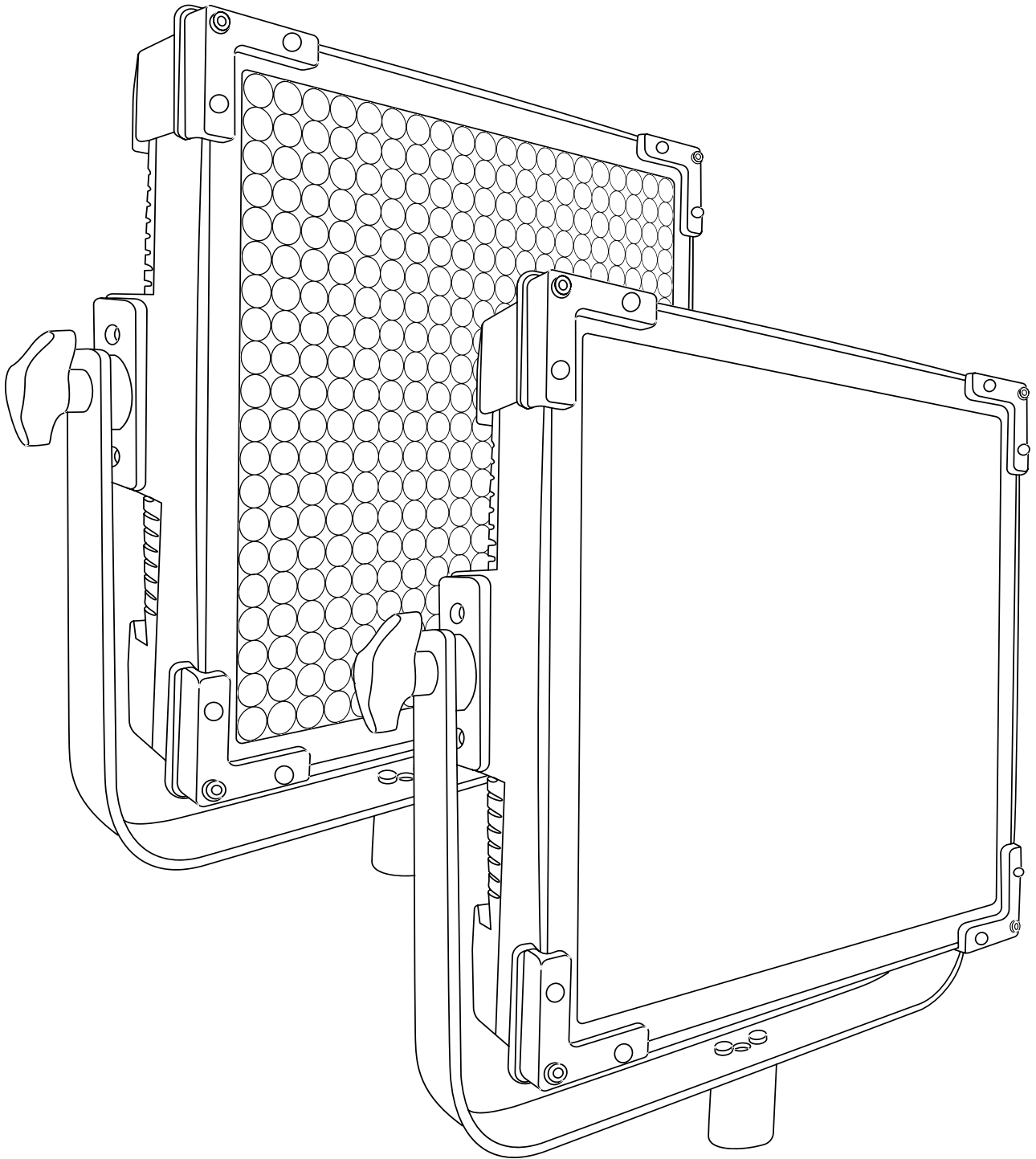
**⚠ ATTENTION:** Please keep the original package of the product in a safe place for warranty reasons.

## MENU e submenus

- Select **"EXIT"** to return to the current mode.
- Select **"BACK"** to return to the previous menu.



**NOTE:** After 1 minute of inactivity in the menu, the device automatically exits and returns to the last selected mode.



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## User Manuals

**817 PRO UltrapanelPRO Full Color Hard 30**

**815 PRO UltrapanelPRO Full Color Soft 30**

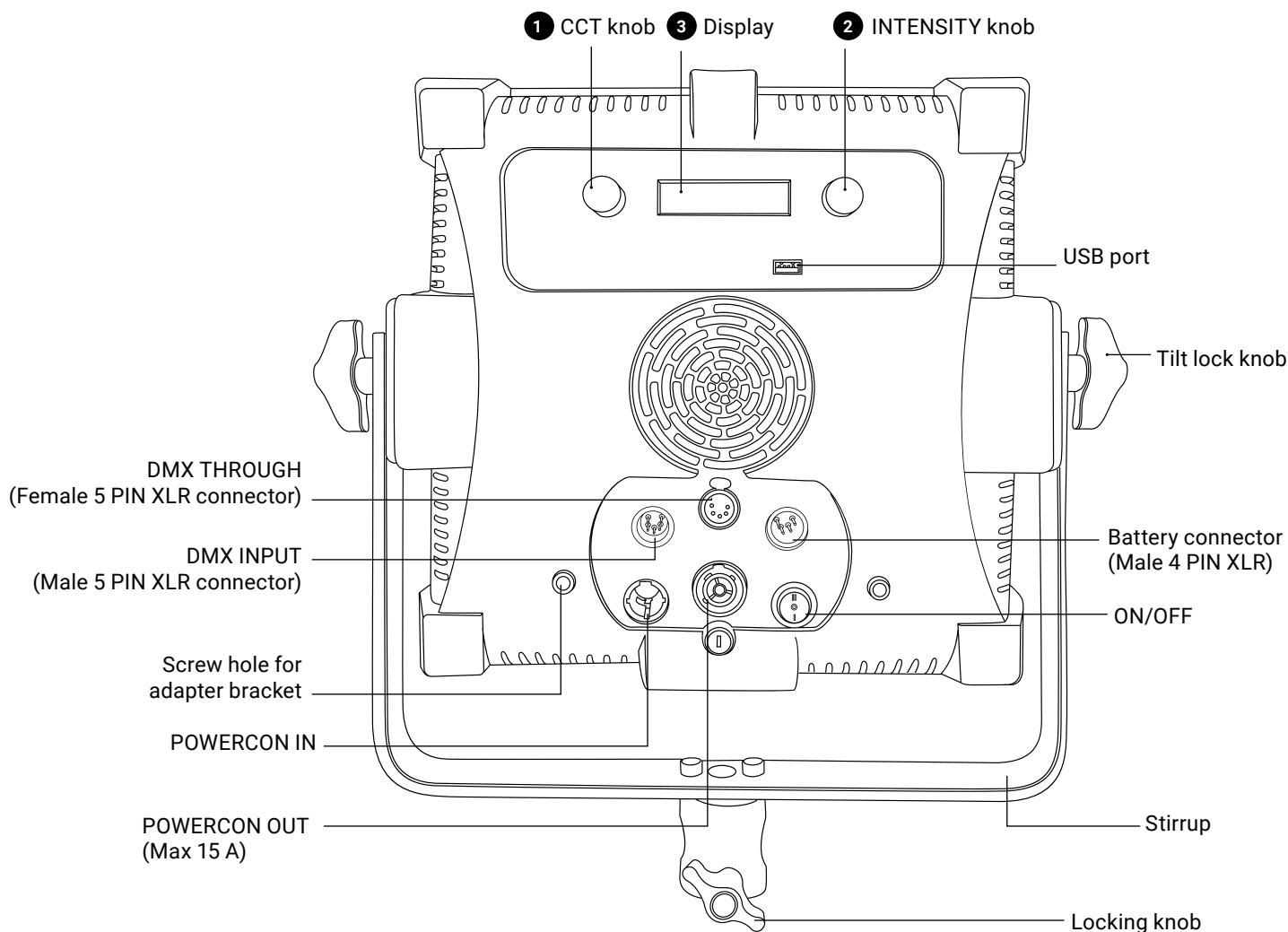
**418 PRO SuperpanelPRO Full Color Hard 30**

**415 PRO SuperpanelPRO Full Color Soft 30**

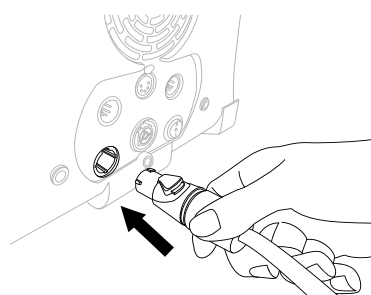
## Instructions

- Device for indoor use only.
- Maximum ambient temperature: 40 °C.
- Make sure power supply plug is suitable to power required.
- As prescribed by international regulations, a safety cable must be used when the fixture is suspended from ceiling.
- To switch on the light push the on/off button.
- SuperpanelPRO and UltrapanelPRO models are equipped with new generation high quality powerleds.

## Getting Started with the SuperpanelPRO 30 and the UltrapanelPRO 30



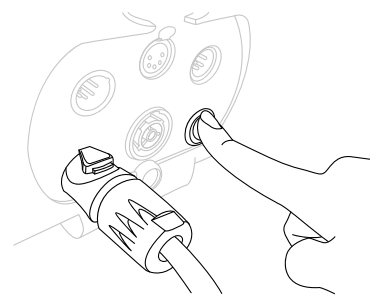
## Turning on the SuperpanelPRO 30 and the UltrapanelPRO 30



**1** Insert the POWERCON



**2** Rotate it by 15° until makes a click



**3** Turn ON the power switch:  
0 : OFF  
I : AC power  
II : Battery power

## CONTROL PANEL

- In current mode press the ② push button to enter the main MENU.
- In the sub-menus press the ② push button to confirm a selection.
- Rotate the ② knob to navigate in the main MENU and sub-menus.
- Use the « **INTENSITY** » ② knob to adjust the *light intensity from 0 to 100%*.
- Use the knob ① to adjust the light mode parameters.
- Display ③.

## MODE

1. Press the ② push button to enter the main MENU.
2. Select **MODE** by pressing the ② push button.
3. Select the light mode among **CCT** with the ② knob and press the ② push button to confirm selection.
4. Select among **CCT / HSI / RGBW / PRESET / EFFECT / SAVE PRESET** with the ② knob and press the ② push button to confirm selection
5. See **LIGHT MODES**.

## LIGHT MODES

| MODE   | INTENSITY ④                       | CCT/HUE ⑤            | GN/SAT/COLOR ⑥                | GN/SAT/COLOR ⑥                |
|--------|-----------------------------------|----------------------|-------------------------------|-------------------------------|
| CCT    | Light Intensity<br>from 0 to 100% | CT 2800 K to 10000 K | GN - 1.00 to + 1.00           | -                             |
| HSI    |                                   | HUE 0° to 100°       | SAT 0 to 100%                 | -                             |
| RGBW   |                                   | -                    | Select function R/G/B/W/CT/GN | Change values of the function |
| PRESET |                                   | -                    | -                             | Change Preset                 |

**CCT MODE:** Warm and cold white control mode. It allows you to adjust colour temperature (CCT), green/magenta compensation (GN) and light intensity. *This is the default setting.*

1. In MODE menu select **EFFECT MODE**.
2. Select the EFFECT to be activated with rotate the ② button, confirm the selection by pressing the ② push button.
3. Use the knob ② to change the DIMMER and the knob ① to adjust the effect setting values.

**⚠ ATTENTION:** Rotating the ① knob changes the CT value- Pressing ① button select GN value that can be changed by rotating the same ① knob.

## DMX OPERATIONS

1. Press the ② push button to enter the main MENU.
2. Select **CONTROL** with the ② knob and press the ② push button to confirm selection.
3. Select **DMX** with the ② knob and press the ② push button to confirm selection.
4. Select the DMX channel, rotating the ① knob to change DMX ADDRESS in ascending or descending order among 1 and 512. The number shown on the display ③ is the selected channel to communicate with the control desk.
5. See **DMX PROTOCOL MANUAL** for DMX channel specification.

**NOTE:** The symbol - ! - on the display indicates that there is **no DMX signal**.

## BLUETOOTH

1. Press the ② push button to enter the main MENU.
1. Select **CONTROL** with the ② knob and press the ② push button to confirm selection.
2. Select **BLE** with the ② knob and press the ② push button to confirm selection.



## DMX OPERATIONS - Advanced Settings

1. Press the **2** push button to enter the main MENU.
2. Navigate through the main MENU with the **2** knob until **DEVICE SETTINGS** and press the **2** push button to confirm selection.
3. Rotate the **2** knob to select **DMX ADVANCED**, press the **2** push button to confirm selection.
4. Select one of the options among the **DMX BIT**, **DMX SIGNAL LOSS**, **RDM ENABLE**, **STROBE ENABLE** and **INV CCT** press **2** push button to confirm the selection.

### DMX BIT:

Resolution of the DMX control. 8bit 1 channel per function and 16 bit 2 channels per function.

1. Select the **DMX BIT** item by pressing the **2** push button.
2. Rotate the **2** knob to choose between **8bit / 16bit**, press the **2** push button to confirm the selected setting. See **DMX PROTOCOL MANUAL**.

### DMX SIGNAL LOSS:

This feature allows to choose the device's behaviour in case of a DMX signal loss.

1. Select the **LOSS DMX SIGNAL** item with the **2** push button
2. Rotate the **2** knob to select the device's behaviour among **BLACK OUT /SETTINGS LAST / SETTINGS 1min**, press the **2** push button to confirm the setting.

**Black out:** The device switches off.

**Settings Last:** The values of the last selected setting are maintained over time until the device is switched off.

**Settings 1min:** The values of the last selected settings is maintained for one minute and then the device switch off.

**RDM Enable:** ON/OFF, enable/disable RDM Protocol

**INV CCT:** ON/FF: enable/disable reversal CCT console control

# DMX Protocol

## Introduction

The SuperpanelPRO and UltrapanelPRO can be used with 8 bit or 16 bit DMX control. (See **DMX OPERATION - advanced settings** in the user's manual). When used in **8 bit mode** the panels uses **one channel for each function**. DMX values for each channel are in the range of 0 to 255. When used in **16 bit mode** the panels uses **two channels for each function**. The increased resolution offers a smooth dimming and a more accurate color adjustment. DMX values for the first channel (byte 1) are in the range of 256 to 65535 while for the second channel (byte 2) they are in the range of 0 to 255.

**⚠ ATTENTION:** The symbol - ! - on the display indicates that there is **no DMX signal**.

**⚠ ATTENTION:** \* If the **STROBE** in the DMX ADVANCED SETTINGS is enabled, there are 1 more channel in 8 bit and 2 more channels in 16 bit:

## DMX Channel Protocol - 8 bit

| MODE | CHANNELS | DMX CHANNEL POSITION | DMX VALUE | VALUE           |
|------|----------|----------------------|-----------|-----------------|
| CCT  | 3/4*     | 1. DIMMER            | 0 - 255   | 0 - 100 %       |
|      |          | 2. COLOR TEMPERATURE | 0 - 255   | 6500 - 2700     |
|      |          | 3. GN COMPENSATION   | 0 ÷ 5     | Ø               |
|      |          |                      | 6 ÷ 255   | - 1,00 ÷ + 1,00 |
|      |          | 4. *STROBE CONTROL   | 0 ÷ 5     | Ø               |
|      |          |                      | 6 ÷ 255   | 1 ÷ 25 Hz       |

|        |      |                      |           |                |
|--------|------|----------------------|-----------|----------------|
| HSI    | 3/4* | 1. DIMMER            | 0 - 255   | 0 ÷ 100 %      |
|        |      | 2. HUE               | 0 ÷ 253   | 0 ÷ 360        |
|        |      | 3. SATURATION        | 0 ÷ 255   | 0 ÷ 100 %      |
|        |      | 4. *STROBE CONTROL   | 0 ÷ 255   | 0 - 25 Hz      |
| RGBW   | 7/8* | 1. DIMMER            | 0 - 255   | 0 ÷ 100 %      |
|        |      | 2. RED               | 0 ÷ 255   | 0 ÷ 100 %      |
|        |      | 3. GREEN             | 0 ÷ 255   | 0 ÷ 100 %      |
|        |      | 4. BLUE              | 0 ÷ 255   | 0 ÷ 100 %      |
|        |      | 5. WHITE             | 0 ÷ 255   | 0 ÷ 100 %      |
|        |      | 6. COLOR TEMPERATURE | 0 - 255   | 6500 - 2700    |
|        |      | 7. GN COMPENSATION   | 0 ÷ 5     | Ø              |
|        |      | 8. * STROBE CONTROL  | 6 ÷ 255   | - 1.00 ÷ +1.00 |
| FRGBW  | 7/8* | 1. DIMMER            | 0 - 255   | 0 ÷ 100 %      |
|        |      | 2. RED               | 0 ÷ 255   | 0 ÷ 100 %      |
|        |      | 3. GREEN             | 0 ÷ 255   | 0 ÷ 100 %      |
|        |      | 4. BLUE              | 0 ÷ 255   | 0 ÷ 100 %      |
|        |      | 5. WHITE             | 0 ÷ 255   | 0 ÷ 100 %      |
|        |      | 6. COLOR TEMPERATURE | 0 - 255   | 6500 - 2700    |
|        |      | 7. GN COMPENSATION   | 0 ÷ 5     | Ø              |
|        |      | 8. * STROBE CONTROL  | 6 ÷ 255   | - 1.00 ÷ +1.00 |
| PRESET | 3/4* | 1. DIMMER            | 0 - 255   | 0 ÷ 100 %      |
|        |      | 2. PRESET            | 0 ÷ 255   | 0 ÷ N PRESET   |
|        |      | 3. PRESET FREEZE     | 0 - 50    | NO FREEZE      |
|        |      |                      | 200 ÷ 255 | FREEZE         |
|        |      | 4. * STROBE CONTROL  | 0 ÷ 255   | 0 - 25 Hz      |

### DMX Channel Protocol - 16 bit

| MODE | CHANNELS | DMX CHANNEL POSITION          | DMX VALUE    | VALUE           |
|------|----------|-------------------------------|--------------|-----------------|
| CCT  | 6/8*     | 1. DIMMER - byte 1            | 0 - 65535    | 0 ÷ 100 %       |
|      |          | 2. DIMMER - byte 2            |              |                 |
|      |          | 3. COLOR TEMPERATURE - byte 1 | 0 - 65535    | 6500 - 2700     |
|      |          | 4. COLOR TEMPERATURE - byte 2 |              |                 |
|      |          | 5. GN COMPENSATION - byte 1   | 0 ÷ 500      | Ø               |
|      |          | 6. GN COMPENSATION - byte 2   | 501 ÷ 65535  | - 1.00 ÷ + 1.00 |
|      |          | 7. *STROBE CONTROL - byte 1   | 0 ÷ 1300     | Ø               |
|      |          | 8. *STROBE CONTROL - byte 2   | 1301 ÷ 65535 | 1 ÷ 25 Hz       |
| HSI  | 6/8*     | 1. DIMMER - byte 1            | 0 - 65535    | 0 ÷ 100 %       |
|      |          | 2. DIMMER - byte 2            |              |                 |
|      |          | 3. HUE - byte 1               | 0 ÷ 65535    | 0 ÷ 360         |
|      |          | 4. HUE - byte 2               |              |                 |
|      |          | 5. SATURATION - byte 1        | 0 ÷ 65535    | 0 ÷ 100%        |
|      |          | 6. SATURATION - byte 2        |              |                 |
|      |          | 7. *STROBE CONTROL - byte 1   | 0 ÷ 1300     | Ø               |
|      |          | 8. *STROBE CONTROL - byte 2   | 1301 ÷ 65535 | 1 ÷ 25 Hz       |
| RGBW | 14/16*   | 1. DIMMER - byte 1            | 0 - 65535    | 0 ÷ 100 %       |
|      |          | 2. DIMMER - byte 2            |              |                 |
|      |          | 3. RED - byte 1               | 0 - 65535    | 0 ÷ 100 %       |
|      |          | 4. RED - byte 2               |              |                 |
|      |          | 5. GREEN - byte 1             | 0 + 65535    | 0 ÷ 100 %       |
|      |          | 6. GREEN - byte 2             |              |                 |
|      |          | 7. BLUE - byte 1              | 0 + 65535    | 0 ÷ 100 %       |
|      |          | 8. BLUE - byte 2              |              |                 |
|      |          | 9. WHITE - byte 1             | 0 + 65535    | 0 ÷ 100 %       |
|      |          | 10. WHITE - byte 2            |              |                 |
|      |          | 11. COLOR TEMPERAT. - byte 1  | 0 - 65535    | 6500 - 2700     |
|      |          | 12. COLOR TEMPERAT. - byte 2  |              |                 |

|        |        |                              |                       |                         |
|--------|--------|------------------------------|-----------------------|-------------------------|
| RGBW   | 14/16* | 13. GN COMPENSATION - byte 1 | 0 ÷ 500               | Ø                       |
|        |        | 14. GN COMPENSATION - byte 2 | 501 ÷ 65535           | -1,00 ÷ + 1,00          |
|        |        | 15. *STROBE CONTROL - byte 1 | 0 ÷ 1300              | Ø                       |
|        |        | 16. *STROBE CONTROL - byte 2 | 1301 ÷ 65535          | 1 ÷ 25 Hz               |
| FRGBW  | 14/16* | 1. DIMMER - byte 1           | 0 - 65535             | 0 ÷ 100 %               |
|        |        | 2. DIMMER - byte 2           |                       |                         |
|        |        | 3. RED - byte 1              | 0 ÷ 65535             | 0 ÷ 100 %               |
|        |        | 4. RED - byte 2              |                       |                         |
|        |        | 5. GREEN - byte 1            | 0 ÷ 65535             | 0 ÷ 100 %               |
|        |        | 6. GREEN - byte 2            |                       |                         |
|        |        | 7. BLUE - byte 1             | 0 ÷ 65535             | 0 ÷ 100 %               |
|        |        | 8. BLUE - byte 2             |                       |                         |
|        |        | 9. WHITE - byte 1            | 0 ÷ 65535             | 0 ÷ 100 %               |
|        |        | 10. WHITE - byte 2           |                       |                         |
|        |        | 11. COLOR TEMPERAT. - byte 1 | 0 - 65535             | 6500 - 2700             |
|        |        | 12. COLOR TEMPERAT. - byte 2 |                       |                         |
|        |        | 13. GN COMPENSATION - byte 1 | 0 ÷ 500               | Ø                       |
|        |        | 14. GN COMPENSATION - byte 2 | 501 ÷ 65535           | -1,00 ÷ + 1,00          |
|        |        | 15. *STROBE CONTROL - byte 1 | 0 ÷ 1300              | Ø                       |
|        |        | 16. *STROBE CONTROL - byte 2 | 1301 ÷ 65535          | 1 ÷ 25 Hz               |
| PRESET | 6/8*   | 1. DIMMER - byte 1           | 0 - 65535             | 0 ÷ 100 %               |
|        |        | 2. DIMMER - byte 2           |                       |                         |
|        |        | 3. PRESET - byte 1           | 0 ÷ 65535             | 0 ÷ N PRESET            |
|        |        | 4. PRESET - byte 2           |                       |                         |
|        |        | 5. PRESET FREEZE - byte 1    | 0 - 12800 > no freeze | 51200 ÷ 65535<br>freeze |
|        |        | 6. PRESET FREEZE - byte 2    |                       |                         |
|        |        | 7. *STROBE CONTROL - byte 1  | 0 ÷ 1300              | Ø                       |
|        |        | 8. *STROBE CONTROL - byte 2  | 1301 ÷ 65535          | 1 ÷ 25 Hz               |

# RDM

## Protocol Specification

| COMMAND                      | PID    | DESCRIPTION                                         |
|------------------------------|--------|-----------------------------------------------------|
| Manufacturer ID              | 0x0622 | Manufacturer identification number (LUPO Lighting). |
| <b>Device Identification</b> |        |                                                     |
| <b>Model ID</b>              |        | <b>Model identification number</b>                  |
|                              | 1      | DayledPRO 650 mono color                            |
|                              | 2      | DayledPRO 650 dual color                            |
|                              | 3      | DayledPRO 1000 mono color                           |
|                              | 4      | DayledPRO 1000 dual color                           |
|                              | 5      | DayledPRO 2000 mono color                           |
|                              | 6      | DayledPRO 2000 dual color                           |
|                              | 7      | SuperpanelPRO 30 dual color soft                    |
|                              | 8      | SuperpanelPRO 30 dual color hard                    |
|                              | 9      | SuperpanelPRO 30 full color soft                    |
|                              | 10     | SuperpanelPRO 30 full color hard                    |
|                              | 11     | SuperpanelPRO 60 dual color soft                    |
|                              | 12     | SuperpanelPRO 60 dual color hard                    |
|                              | 13     | SuperpanelPRO 60 full color soft                    |

|                               |      |                                  |
|-------------------------------|------|----------------------------------|
|                               | 14   | SuperpanelPRO 60 full color hard |
|                               | 15   | ActionpanelPRO dual color soft   |
|                               | 16   | ActionpanelPRO dual color hard   |
|                               | 17   | ActionpanelPRO full color soft   |
|                               | 18   | ActionpanelPRO full color hard   |
|                               | 19   | Kickasspanel dual color          |
|                               | 20   | Kickasspanel full color          |
|                               | 21   | Lupoled monocolor                |
|                               | 22   | Lupoled dualcolor                |
|                               | 23   | MovielightPRO 300 monocolor      |
|                               | 24   | MovielightPRO 300 dual color     |
|                               | 25   | UltrapanelPRO 30 dual color soft |
|                               | 26   | UltrapanelPRO 30 dual color hard |
|                               | 27   | UltrapanelPRO 60 full color soft |
|                               | 28   | UltrapanelPRO 60 full color hard |
|                               | 29   | UltrapanelPRO 30 full color soft |
|                               | 30   | UltrapanelPRO 30 full color hard |
|                               | 31   | UltrapanelPRO 60 dual color soft |
|                               | 32   | UltrapanelPRO 60 dual color hard |
|                               | 33   | DayledPRO 650 PRO Full Color     |
|                               | 34   | DayledPRO 1000 PRO Full Color    |
|                               | 35   | DayledPRO 2000 PRO Full Color    |
|                               | 36   | DayledPRO 3000 full color        |
|                               | 37   | Movielight 300 full color        |
|                               | 38   | DayledPRO 3000 mono color        |
|                               | 39   | DayledPRO 3000 dual color        |
|                               | 40   | MovielightPRO 600 dual color     |
|                               | 41   | DayledPRO 5000 monocolor         |
|                               | 42   | DayledPRO 5000 dual color        |
|                               | 43   | DayledPRO 5000 full color        |
|                               | 44   | HyperpanelPRO 30 dual color soft |
|                               | 45   | HyperpanelPRO 30 dual color hard |
|                               | 46   | HyperpanelPRO 60 dual color soft |
|                               | 47   | HyperpanelPRO 60 dual color hard |
|                               | 48   | MovielightPRO 600 full color     |
| <b>Personality MONOCOLOR</b>  |      | <b>DMX Personality</b>           |
|                               | 0x01 | CCT                              |
| <b>Personality DUAL COLOR</b> |      | <b>DMX Personality</b>           |
|                               | 0x01 | CCT                              |
|                               | 0x02 | PRESET                           |
| <b>Personality FULL COLOR</b> |      | <b>DMX Personality</b>           |
|                               | 0x01 | CCT                              |
|                               | 0x02 | HSI                              |
|                               | 0x03 | RGBW                             |
|                               | 0x04 | FRGBW                            |
|                               | 0x05 | PRESET                           |

|                              |        |                                                                                                                       |
|------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Network management</b>    |        |                                                                                                                       |
| DISC UNIQUE BRANCH           | 0x0001 | Search RDM devices                                                                                                    |
| DISC MUTE                    | 0x0002 | Mute RDM device, no response message                                                                                  |
| DISC UN MUTE                 | 0x0003 | Activate RDM device fo response message                                                                               |
| <b>Status collection</b>     |        |                                                                                                                       |
| QUEUED MESAGES               | 0x0020 | Retrieves queued messages or status message if no message is in queue                                                 |
| STATUS MESSAGES              | 0x0030 | Retrieves current Warning/Error messages                                                                              |
| <b>RDM Information</b>       |        |                                                                                                                       |
| SUPPORTED PARAMETERS         | 0x0050 | Retrieves a list of all supported RDM commands                                                                        |
| PARAMETER DESCRIPTION        | 0x0051 | Retrieves a list of all RDM commands                                                                                  |
| <b>Product Information</b>   |        |                                                                                                                       |
| DEVICE INFO                  | 0x0060 | Retrieves a variety of information about the device that is normally required by a controller.                        |
| DEVICE MODEL DESCRIPTION     | 0x0080 | Text description of up to 32 characters for the device model type.                                                    |
| MANUFACTURER LABEL           | 0x0081 | This parameter provides an ASCII text response with the Manufacturer name for the device. "LUPO" is the default name. |
| FACTORY DEFAULTS             | 0x0090 | Set the device to its factory defaults. Get: Check if settings still in default state -> 1 if default                 |
| SOFTWARE VERSION LABEL       | 0x00C0 | Retrieves software version string of main software                                                                    |
| <b>DMX512 Setup</b>          |        |                                                                                                                       |
| DMX PERSONALITY              | 0x00E0 | DMX mode                                                                                                              |
| DMX PERSONALITY DESCRIPTION  | 0x00E1 | Shows a description of a DMX-Mode, max 32 characters                                                                  |
| DMX START ADDRESS            | 0x00F0 | DMX address                                                                                                           |
| <b>Control</b>               |        |                                                                                                                       |
| IDENTIFY DEVICE              | 0x1000 | The identify flag (flashes the light)                                                                                 |
| <b>Manufacturer Commands</b> |        |                                                                                                                       |
| DISPLAY TIMEOUT              | 0x8002 | 0: 30 sec 1: 1 min 2: always on                                                                                       |
| DMX SIGNAL LOST MODE         | 0x8003 | 0: black out 1: last settings on 2: last settings 1 min                                                               |
| DMX BITS                     | 0x8004 | 0: 8 bit 1: 16 bit                                                                                                    |
| CCT LIMIT                    | 0x8005 | 0: 2800-10000 1: 3200-5600                                                                                            |
| LINEARIZATION                | 0x8006 | 0: linear 1: exponential 2: logarithmic                                                                               |
| FILTER                       | 0x8007 | 0: full speed 1: normal speed 2: high speed 3: low speed                                                              |
| FREQUENCY                    | 0x8008 | 0: 18 KHz 1: 25 KHz                                                                                                   |
| INV - CCT                    | 0x8009 | 0: not inverted 1: inverted                                                                                           |
| PRESET                       | 0x800A | select preset number                                                                                                  |

## DEVICE SETTINGS

1. Press the **2** push button to enter the main MENU.
2. Navigate through the MENU rotating the **2** button, select **DEVICE SETTINGS**, press the **2** push button to confirm the selection.
3. Navigate through the MENU rotating the **2** button, select **GENERAL**, press the **2** push button to confirm the selection.
4. Navigate through the **FAN POWER / DISPLAY / FREQUENCY / FILTER / LINEARIZATION / CCT LIMIT** functions, rotating the **2** button to select the desired function and press the **2** push button to confirm the selection.
5. Within each function select the option to be activated and rotate the **2** button.

**Display:** Time during which the display backlight stays on. **30sec / 1min / ALWAYS ON.**

**Frequency:** Dimmer frequency 18 KHz - 25 KHz

**Filter:** It is the speed response of the system (smooth factor).

**FULL SPEED / NORMAL SPEED / HIGH SPEED / LOW SPEED.**

**Linearization:** Linearization is the compensation curve for the human eye's perception of the luminous intensity emitted as a function of the required power. Required power = dimmer value on the display. **LINEAR / EXPONENTIAL / LOGARITHMIC.**

**Linear:** No compensation, the intensity of the light is directly proportional to requested power.

**Exponential:** The light intensity increases from 0 to 100 exponentially.

**Logarithmic:** The light intensity increases from 0 to 100 logarithmically.

**CCT Limit:** CCT range 2800 - 6500 or 3200 - 5600

## RESET DEVICE

1. Press the « **OK** » **2** button to enter the main MENU.
2. Select **RESET DEVICE** rotating the **2** button, press the **2** push button to confirm the selection.
3. Select **YES** rotating the **2** button, press the **2** push button to confirm the selection.
4. The device ask for further confirmation, select **YES** by pressing the press the **2** push button. **THE DEVICE RETURNS TO FACTORY DEFAULT SETTINGS.**

### FACTORY DEFAULT SETTING

#### MODE

CCT

#### DMX OPERATION

BIT: 8 BIT

DMX SIGNAL LOSS: Settings 1 MIN

RDM ENABLE: OFF

INV - CCT: OFF

#### DEVICE SETTINGS

DISPLAY: 1 min

FILTER : Normal speed

LINEARIZATION: Linear

FREQUENCY: 18 KHz

#### CONTROL

Manual

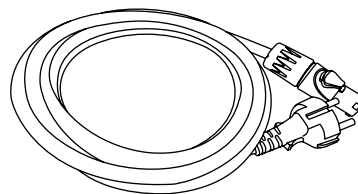
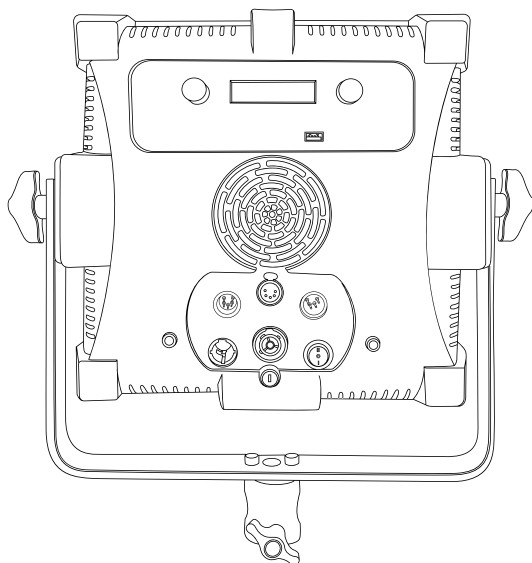
## USB PORT

Use USB port for firmware updates.

### Update the Firmware

1. Copy the file on an USB Pendrive (FAT32 formatted) in the main root;
2. Switch off the equipment and insert the USB Pendrive;
3. Switch on the equipment;
4. Wait until display backlight flashes (it takes several minutes and red led must toggle for all time long);
5. Switch off the equipment;
6. Extract the Pendrive and switch on the equipment: the firmware is updated.

## Package Contents for SuperpanelPRO 30 and UltrapanelPRO 30

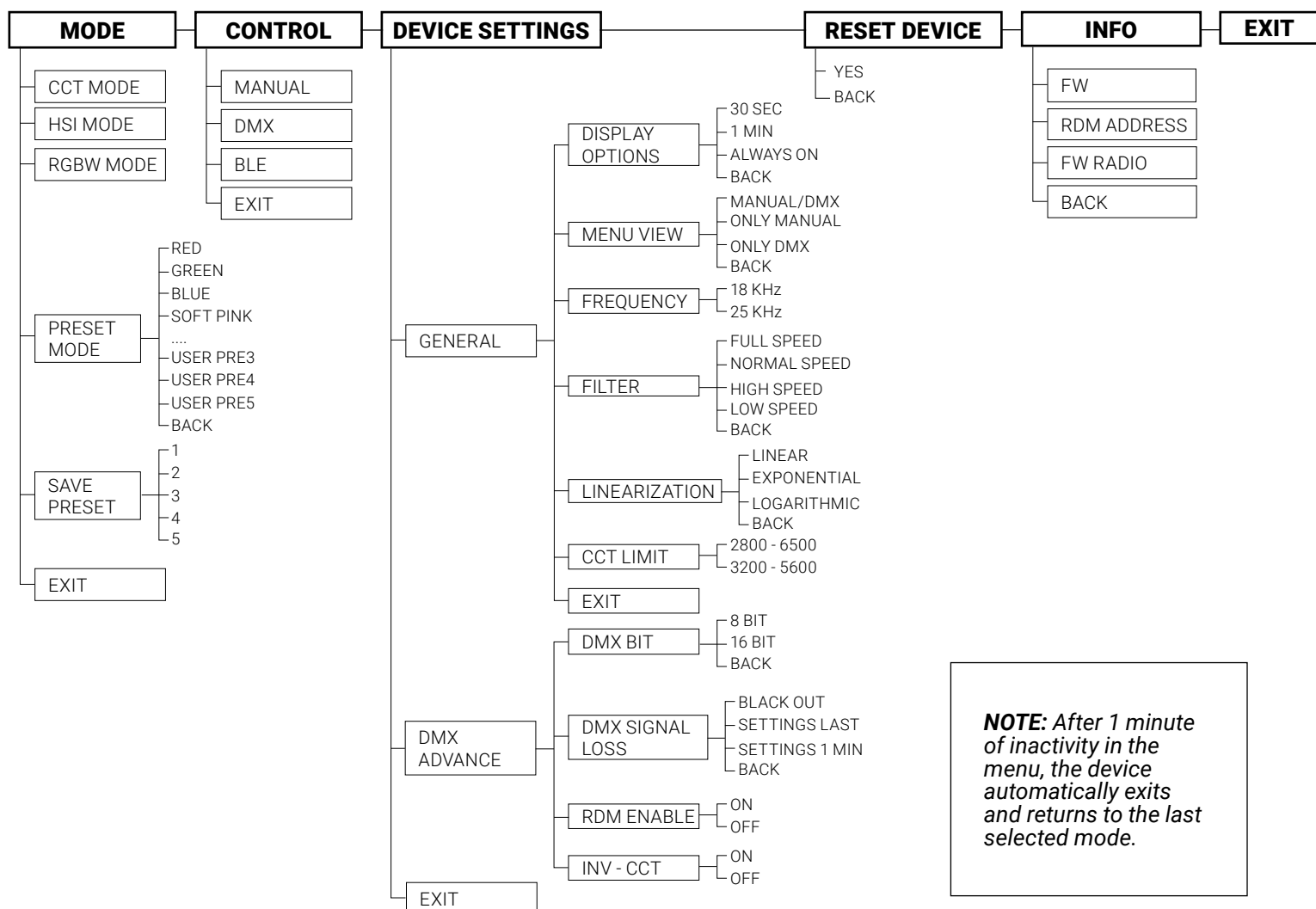


**AC Power  
Cord Cable**

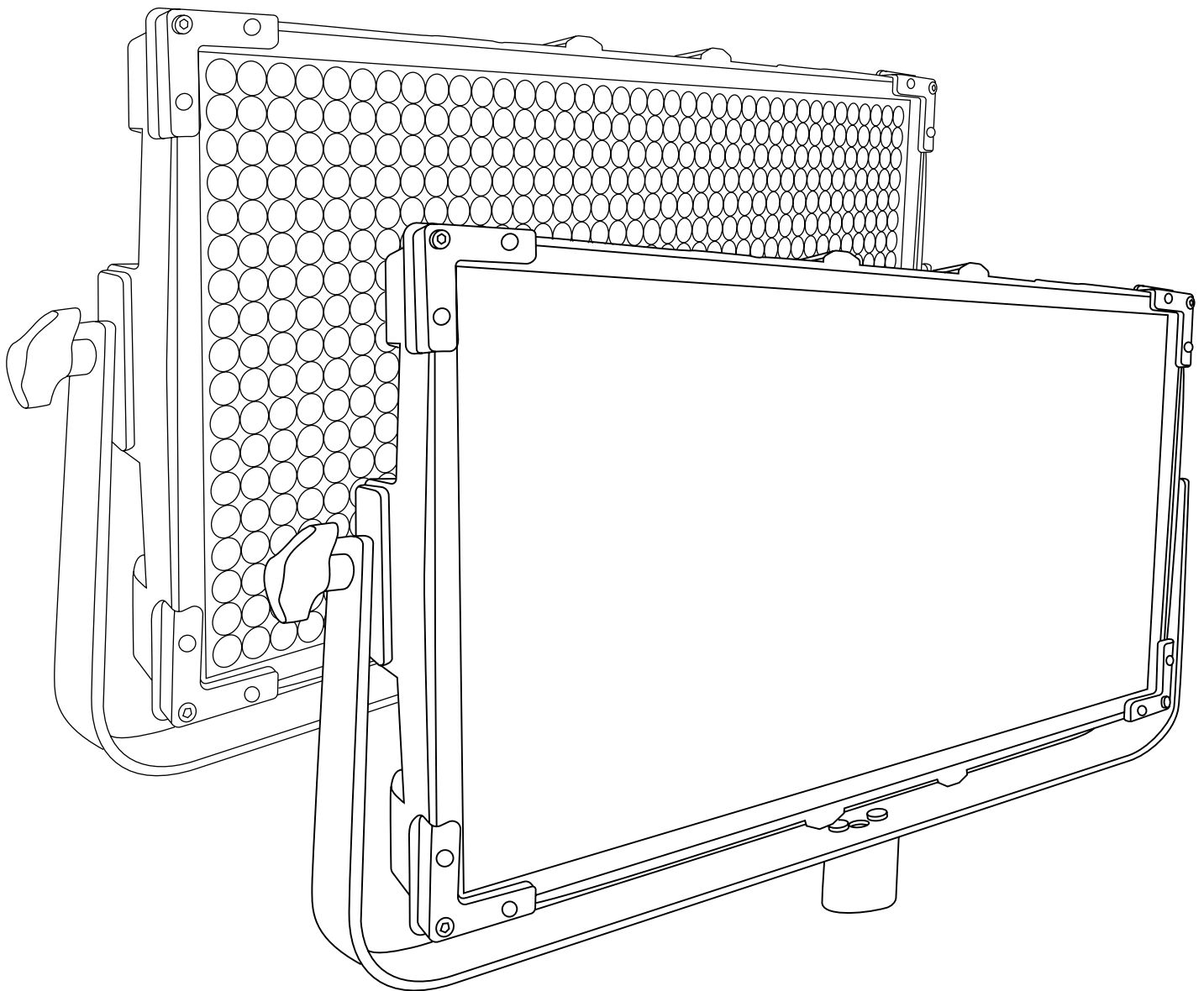
**⚠ ATTENTION:** Please keep the original package of the product in a safe place for warranty reasons.

## MENU e submenus

- Select **"EXIT"** to return to the current mode.
- Select **"BACK"** to return to the previous menu.



**NOTE:** After 1 minute of inactivity in the menu, the device automatically exits and returns to the last selected mode.



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## User Manuals

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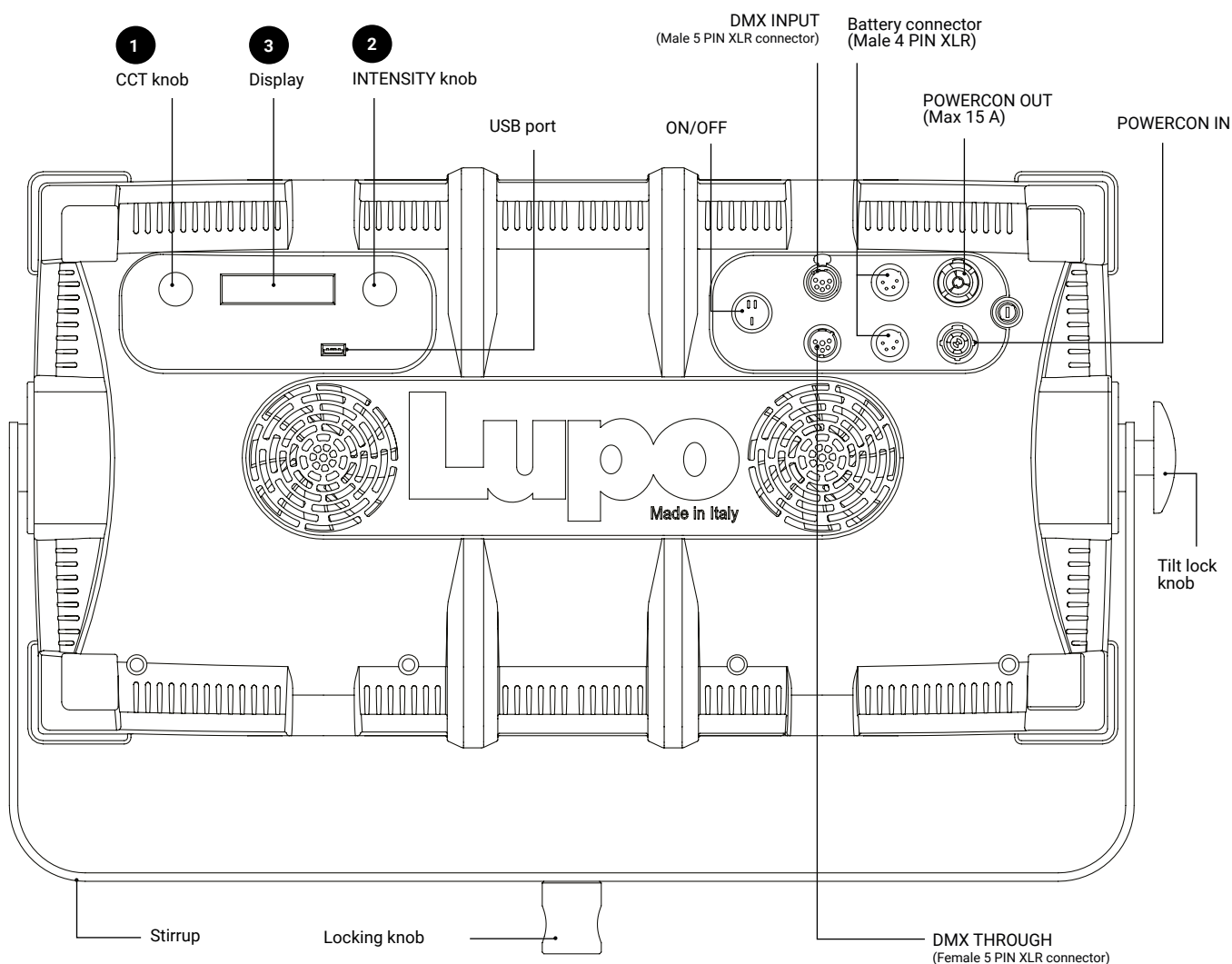
- 502 PRO HyperpanelPRO Dual Color Soft 60**
- 503 PRO HyperpanelPRO Dual Color Hard 60**
- 804 PRO UltrapanelPRO Dual Color Hard 60**
- 814 PRO UltrapanelPRO Dual Color Soft 60**
- 404 PRO SuperpanelPRO Dual Color Hard 60**
- 414 PRO SuperpanelPRO Dual Color Soft 60**



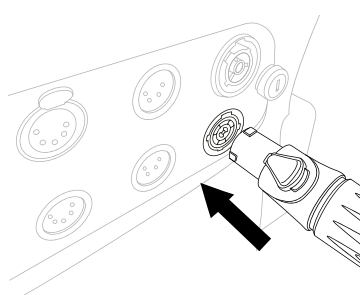
## Instructions

- Device for indoor use only.
- Maximum ambient temperature: 40 °C.
- Make sure power supply plug is suitable to power required.
- As prescribed by international regulations, a safety cable must be used when the fixture is suspended from ceiling.
- To switch on the light push the on/off button.
- SuperpanelPRO, UltrapanelPRO and HyperpanelPRO models are equipped with new generation high quality powerleds.

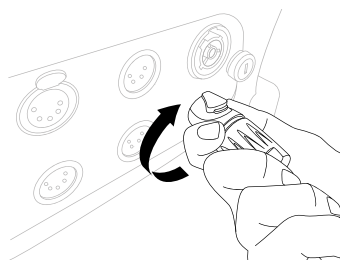
## Getting Started with the 60 panels



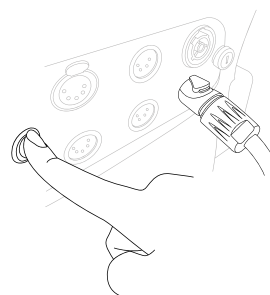
## Turning on the 60 panels



**1** Insert the POWERCON



**2** Rotate it by 15° until makes a click



**3** Turn ON the power switch:  
0 : OFF  
I : AC power  
II : Battery power

## CONTROL PANEL

- In current mode press the ❷ push button to enter the main MENU.
- In the sub-menus press the ❷ push button to confirm a selection.
- Rotate the ❷ knob to navigate in the main MENU and sub-menus.
- Use the « INTENSITY » ❷ knob to adjust the *light intensity from 0 to 100%*.
- Use the knob ❶ to adjust the light mode parameters.
- Display ❸.

## MODE

1. Press the ❷ push button to enter the main MENU.
2. Select **MODE** by pressing the ❷ push button.
3. Select the light mode among **CCT** with the ❷ knob and press the ❷ push button to confirm selection.
4. Select among **CCT** with the ❷ knob and press the ❷ push button to confirm selection
5. See *LIGHT MODES*.

## LIGHT MODES

| MODE | INTENSITY ❷                       | CCT/HUE ❸          | GN/SAT/COLOR ❹    | « ▼ » ❶ « ▲ » ❺ |
|------|-----------------------------------|--------------------|-------------------|-----------------|
| CCT  | Light Intensity<br>from 0 to 100% | CT 2800K to 10000K | GN -1.00 to +1.00 | -               |

**CCT MODE:** Warm and cold white control mode. It allows you to adjust colour temperature (CCT), green/magenta compensation (GN) and light intensity. *This is the default setting.*

⚠ **ATTENTION:** Rotating the ❶ knob changes the CT value.

## DMX OPERATION

1. Press the ❷ push button to enter the main MENU.
2. Select **CONTROL** with the ❷ knob and press the ❷ push button to confirm selection.
3. Select **DMX** with the ❷ knob and press the ❷ push button to confirm selection.
4. Select the DMX channel, rotating the ❶ knob to change DMX ADDRESS in ascending or descending order among 1 and 512. The number shown on the display ❸ is the selected channel to communicate with the control desk.
5. See **DMX PROTOCOL MANUAL** for DMX channel specification.

**NOTE:** The symbol - ! - on the display indicates that there is **no DMX signal**.

## BLUETOOTH

1. Press the ❷ push button to enter the main MENU.
1. Select **CONTROL** with the ❷ knob and press the ❷ push button to confirm selection.
2. Select **BLE** with the ❷ knob and press the ❷ push button to confirm selection.

## DMX OPERATION

1. Press the **2** push button to enter the main MENU.
2. Select **CONTROL** with the **2** knob and press the **2** push button to confirm selection.
3. Select **DMX** with the **2** knob and press the **2** push button to confirm selection.
4. Select the DMX channel, rotating the **1** knob to change DMX ADDRESS in ascending or descending order among 1 and 512. The number shown on the display **3** is the selected channel to communicate with the control desk.
5. See **DMX PROTOCOL MANUAL** for DMX channel specification.

**NOTE:** The symbol - ! - on the display indicates that there is **no DMX signal**.

## BLUETOOTH

1. Press the **2** push button to enter the main MENU.
1. Select **CONTROL** with the **2** knob and press the **2** push button to confirm selection.
2. Select **BLE** with the **2** knob and press the **2** push button to confirm selection.

## DMX OPERATION - Advanced Settings

1. Press the **2** push button to enter the main MENU.
2. Navigate through the main MENU with the **2** knob until **DEVICE SETTINGS** and press the **2** push button to confirm selection.
3. Rotate the **2** knob to select **DMX ADVANCED**, press the **2** push button to confirm selection.
4. Select one of the options among the **DMX BIT**, **DMX SIGNAL LOSS**, **RDM ENABLE**, **STROBE ENABLE** and **INV CCT** press **2** push button to confirm the selection.

### DMX BIT:

Resolution of the DMX control. 8bit 1 channel per function and 16 bit 2 channels per function.

1. Select the **DMX BIT** item by pressing the **2** push button.
2. Rotate the **2** knob to choose between **8bit / 16bit**, press the **2** push button to confirm the selected setting. See **DMX PROTOCOL MANUAL**.

### DMX SIGNAL LOSS:

This feature allows to choose the device's behaviour in case of a DMX signal loss.

1. Select the **LOSS DMX SIGNAL** item with the **2** push button
2. Rotate the **2** knob to select the device's behaviour among **BLACK OUT /SETTINGS**

1. **LAST / SETTINGS 1min**, press the **2** push button to confirm the setting.

**Black out:** The device switches off.

**Settings Last:** The values of the last selected setting are maintained over time until the device is switched off.

**Settings 1min:** The values of the last selected settings is maintained for one minute and then the device switch off.

**RDM Enable:** ON/OFF, enable/disable RDM Protocol

**INV CCT:** ON/FF: enable/disable reversal CCT console control

# DMX Protocol

## Introduction

The SuperpanelPRO and UltrapanelPRO can be used with 8 bit or 16 bit DMX control.  
(See **DMX OPERATION - advanced settings** in the user's manual).

When used in **8 bit mode** the panels uses **one channel for each function**. DMX values for each channel are in the range of 0 to 255.

When used in **16 bit mode** the panels uses **two channels for each function**. The increased resolution offers a smooth dimming and a more accurate color adjustment. DMX values for the first channel (byte 1) are in the range of 256 to 65535 while for the second channel (byte 2) they are in the range of 0 to 255.

▲ **ATTENTION:** The symbol - ! - on the display indicates that there is **no DMX signal**.

▲ **ATTENTION:** \* If the **STROBE** in the DMX ADVANCED SETTINGS is **enabled**, there are 1 more channel in 8 bit and 2 more channels in 16 bit:

### DMX Channel Protocol - 8 bit

| MODE | CHANNELS | DMX CHANNEL POSITION | DMX VALUE | VALUE           |
|------|----------|----------------------|-----------|-----------------|
| CCT  | 3/4*     | 1. DIMMER            | 0 - 255   | 0 - 100 %       |
|      |          | 2. COLOR TEMPERATURE | 0 - 255   | 6500 - 2700     |
|      |          | 3. *STROBE CONTROL   | 0 ÷ 5     | Ø               |
|      |          |                      | 6 ÷ 255   | - 1,00 ÷ + 1,00 |

### DMX Channel Protocol - 16 bit

| MODE | CHANNELS | DMX CHANNEL POSITION          | DMX VALUE    | VALUE       |
|------|----------|-------------------------------|--------------|-------------|
| CCT  | 4/6*     | 1. DIMMER - byte 1            | 0 - 65535    | 0 ÷ 100 %   |
|      |          | 2. DIMMER - byte 2            |              |             |
|      |          | 3. COLOR TEMPERATURE - byte 1 | 0 - 65535    | 6500 - 2700 |
|      |          | 4. COLOR TEMPERATURE - byte 2 |              |             |
|      |          | 5. *STROBE CONTROL - byte 1   | 0 ÷ 1300     | Ø           |
|      |          | 6. *STROBE CONTROL - byte 2   | 1301 ÷ 65535 | 1 ÷ 25 Hz   |

# RDM Protocol Specification

| COMMAND                      | PID    | DESCRIPTION                                         |
|------------------------------|--------|-----------------------------------------------------|
| Manufacturer ID              | 0x0622 | Manufacturer identification number (LUPO Lighting). |
| <b>Device Identification</b> |        |                                                     |
| <b>Model ID</b>              |        | <b>Model identification number</b>                  |
|                              | 1      | DayledPRO 650 mono color                            |
|                              | 2      | DayledPRO 650 dual color                            |
|                              | 3      | DayledPRO 1000 mono color                           |
|                              | 4      | DayledPRO 1000 dual color                           |
|                              | 5      | DayledPRO 2000 mono color                           |
|                              | 6      | DayledPRO 2000 dual color                           |
|                              | 7      | SuperpanelPRO 30 dual color soft                    |
|                              | 8      | SuperpanelPRO 30 dual color hard                    |
|                              | 9      | SuperpanelPRO 30 full color soft                    |
|                              | 10     | SuperpanelPRO 30 full color hard                    |
|                              | 11     | SuperpanelPRO 60 dual color soft                    |
|                              | 12     | SuperpanelPRO 60 dual color hard                    |
|                              | 13     | SuperpanelPRO 60 full color soft                    |

|                               |      |                                  |
|-------------------------------|------|----------------------------------|
|                               | 14   | SuperpanelPRO 60 full color hard |
|                               | 15   | ActionpanelPRO dual color soft   |
|                               | 16   | ActionpanelPRO dual color hard   |
|                               | 17   | ActionpanelPRO full color soft   |
|                               | 18   | ActionpanelPRO full color hard   |
|                               | 19   | Kickasspanel dual color          |
|                               | 20   | Kickasspanel full color          |
|                               | 21   | Lupoled monocolor                |
|                               | 22   | Lupoled dualcolor                |
|                               | 23   | MovielightPRO 300 monocolor      |
|                               | 24   | MovielightPRO 300 dual color     |
|                               | 25   | UltrapanelPRO 30 dual color soft |
|                               | 26   | UltrapanelPRO 30 dual color hard |
|                               | 27   | UltrapanelPRO 60 full color soft |
|                               | 28   | UltrapanelPRO 60 full color hard |
|                               | 29   | UltrapanelPRO 30 full color soft |
|                               | 30   | UltrapanelPRO 30 full color hard |
|                               | 31   | UltrapanelPRO 60 dual color soft |
|                               | 32   | UltrapanelPRO 60 dual color hard |
|                               | 33   | DayledPRO 650 PRO Full Color     |
|                               | 34   | DayledPRO 1000 PRO Full Color    |
|                               | 35   | DayledPRO 2000 PRO Full Color    |
|                               | 36   | DayledPRO 3000 full color        |
|                               | 37   | Movielight 300 full color        |
|                               | 38   | DayledPRO 3000 mono color        |
|                               | 39   | DayledPRO 3000 dual color        |
|                               | 40   | MovielightPRO 600 dual color     |
|                               | 41   | DayledPRO 5000 monocolor         |
|                               | 42   | DayledPRO 5000 dual color        |
|                               | 43   | DayledPRO 5000 full color        |
|                               | 44   | HyperpanelPRO 30 dual color soft |
|                               | 45   | HyperpanelPRO 30 dual color hard |
|                               | 46   | HyperpanelPRO 60 dual color soft |
|                               | 47   | HyperpanelPRO 60 dual color hard |
|                               | 48   | MovielightPRO 600 full color     |
| <b>Personality MONOCOLOR</b>  |      | <b>DMX Personality</b>           |
|                               | 0x01 | CCT                              |
| <b>Personality DUAL COLOR</b> |      | <b>DMX Personality</b>           |
|                               | 0x01 | CCT                              |
|                               | 0x02 | PRESET                           |
| <b>Personality FULL COLOR</b> |      | <b>DMX Personality</b>           |
|                               | 0x01 | CCT                              |
|                               | 0x02 | HSI                              |
|                               | 0x03 | RGBW                             |
|                               | 0x04 | FRGBW                            |
|                               | 0x05 | PRESET                           |

|                              |        |                                                                                                                       |
|------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Network management</b>    |        |                                                                                                                       |
| DISC UNIQUE BRANCH           | 0x0001 | Search RDM devices                                                                                                    |
| DISC MUTE                    | 0x0002 | Mute RDM device, no response message                                                                                  |
| DISC UN MUTE                 | 0x0003 | Activate RDM device fo response message                                                                               |
| <b>Status collection</b>     |        |                                                                                                                       |
| QUEUED MESAGES               | 0x0020 | Retrieves queued messages or status message if no message is in queue                                                 |
| STATUS MESSAGES              | 0x0030 | Retrieves current Warning/Error messages                                                                              |
| <b>RDM Information</b>       |        |                                                                                                                       |
| SUPPORTED PARAMETERS         | 0x0050 | Retrieves a list of all supported RDM commands                                                                        |
| PARAMETER DESCRIPTION        | 0x0051 | Retrieves a list of all RDM commands                                                                                  |
| <b>Product Information</b>   |        |                                                                                                                       |
| DEVICE INFO                  | 0x0060 | Retrieves a variety of information about the device that is normally required by a controller.                        |
| DEVICE MODEL DESCRIPTION     | 0x0080 | Text description of up to 32 characters for the device model type.                                                    |
| MANUFACTURER LABEL           | 0x0081 | This parameter provides an ASCII text response with the Manufacturer name for the device. "LUPO" is the default name. |
| FACTORY DEFAULTS             | 0x0090 | Set the device to its factory defaults. Get: Check if settings still in default state -> 1 if default                 |
| SOFTWARE VERSION LABEL       | 0x00C0 | Retrieves software version string of main software                                                                    |
| <b>DMX512 Setup</b>          |        |                                                                                                                       |
| DMX PERSONALITY              | 0x00E0 | DMX mode                                                                                                              |
| DMX PERSONALITY DESCRIPTION  | 0x00E1 | Shows a description of a DMX-Mode, max 32 characters                                                                  |
| DMX START ADDRESS            | 0x00F0 | DMX address                                                                                                           |
| <b>Control</b>               |        |                                                                                                                       |
| IDENTIFY DEVICE              | 0x1000 | The identify flag (flashes the light)                                                                                 |
| <b>Manufacturer Commands</b> |        |                                                                                                                       |
| DISPLAY TIMEOUT              | 0x8002 | 0: 30 sec 1: 1 min 2: always on                                                                                       |
| DMX SIGNAL LOST MODE         | 0x8003 | 0: black out 1: last settings on 2: last settings 1 min                                                               |
| DMX BITS                     | 0x8004 | 0: 8 bit 1: 16 bit                                                                                                    |
| CCT LIMIT                    | 0x8005 | 0: 2800-10000 1: 3200-5600                                                                                            |
| LINEARIZATION                | 0x8006 | 0: linear 1: exponential 2: logarithmic                                                                               |
| FILTER                       | 0x8007 | 0: full speed 1: normal speed 2: high speed 3: low speed                                                              |
| FREQUENCY                    | 0x8008 | 0: 18 KHz 1: 25 KHz                                                                                                   |
| INV - CCT                    | 0x8009 | 0: not inverted 1: inverted                                                                                           |
| PRESET                       | 0x800A | select preset number                                                                                                  |

## DEVICE SETTINGS

1. Press the **2** push button to enter the main MENU.
2. Navigate through the MENU rotating the **2** button, select **DEVICE SETTINGS**, press the **2** push button to confirm the selection.
3. Navigate through the MENU rotating the **2** button, select **GENERAL**, press the **2** push button to confirm the selection.
4. Navigate through the **FAN POWER / DISPLAY / FREQUENCY / FILTER / LINEARIZATION / CCT LIMIT** functions, rotating the **2** button to select the desired function and press the **2** push button to confirm the selection.
5. Within each function select the option to be activated and rotate the **2** button.

**Display:** Time during which the display backlight stays on. **30sec / 1min / ALWAYS ON.**

**Frequency:** Dimmer frequency 18 KHz - 25 KHz

**Filter:** It is the speed response of the system (smooth factor).

**FULL SPEED / NORMAL SPEED / HIGH SPEED / LOW SPEED.**

**Linearization:** Linearization is the compensation curve for the human eye's perception of the luminous intensity emitted as a function of the required power. Required power = dimmer value on the display. **LINEAR / EXPONENTIAL / LOGARITHMIC.**

**Linear:** No compensation, the intensity of the light is directly proportional to requested power.

**Exponential:** The light intensity increases from 0 to 100 exponentially.

**Logarithmic:** The light intensity increases from 0 to 100 logarithmically.

**CCT Limit:** CCT range 2800 - 6500 or 3200 - 5600

## RESET DEVICE

1. Press the « **OK** » **2** button to enter the main MENU.
2. Select **RESET DEVICE** rotating the **2** button, press the **2** push button to confirm the selection.
3. Select **YES** rotating the **2** button, press the **2** push button to confirm the selection.
4. The device ask for further confirmation, select **YES** by pressing the press the **2** push button. **THE DEVICE RETURNS TO FACTORY DEFAULT SETTINGS.**

### FACTORY DEFAULT SETTING

#### MODE

CCT

#### DMX OPERATION

BIT: 8 BIT

DMX SIGNAL LOSS: Settings 1 MIN

RDM ENABLE: OFF

INV - CCT: OFF

#### DEVICE SETTINGS

DISPLAY: 1 min

FILTER : Normal speed

LINEARIZATION: Linear

FREQUENCY: 18 KHz

#### CONTROL

Manual

## DMX OPERATION - DMX protocol

The SuperpanelPRO and the UltrapanelPRO can be used with **8 bit** (1 channel per function) and **16 bit** (2 channels per function). The SuperpanelPRO and the UltrapanelPRO uses consecutive channels starting from the DMX address set on the panel used as reference for the connection to the control desk. Please take the above into consideration when using many units of SuperpanelPRO and the UltrapanelPRO to avoid overlaps.

**▲ ATTENTION:** \* If the **STROBE** in the DMX ADVANCED SETTINGS is enabled, there are 1 more channel in 8 bit and 2 more channels in 16 bit:

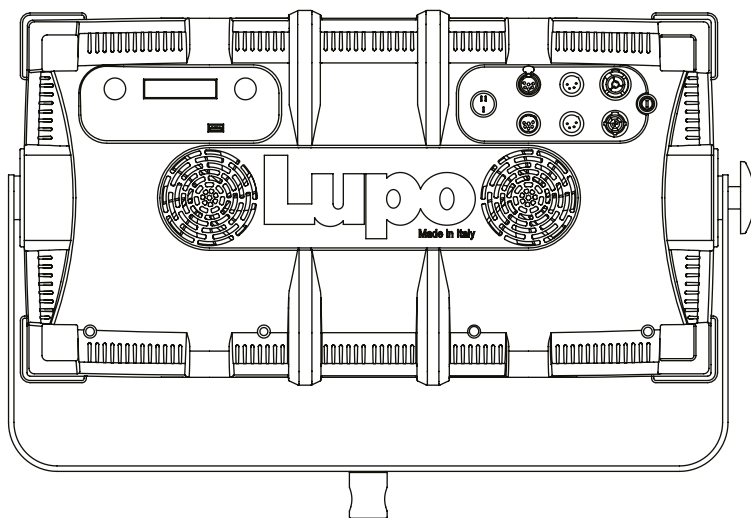
## USB port

Use USB port for firmware updates.

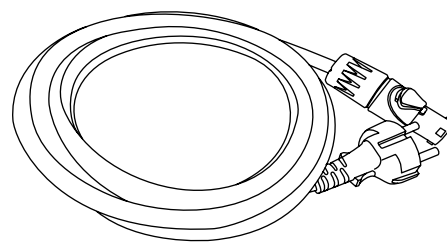
## Update the Firmware

1. Copy the file on an USB Pendrive (FAT32 formatted) in the main root;
2. Switch off the equipment and insert the USB Pendrive;
3. Switch on the equipment;
4. Wait until display backlight flashes (it takes several minutes and red led must toggle for all time long);
5. Switch off the equipment;
6. Extract the Pendrive and switch on the equipment: the firmware is updated.

## Package Contents for SuperpanelPRO 60, UltrapanelPRO 60 and HyperpanelPRO 60



SuperpanelPRO 60 / UltrapanelPRO 60

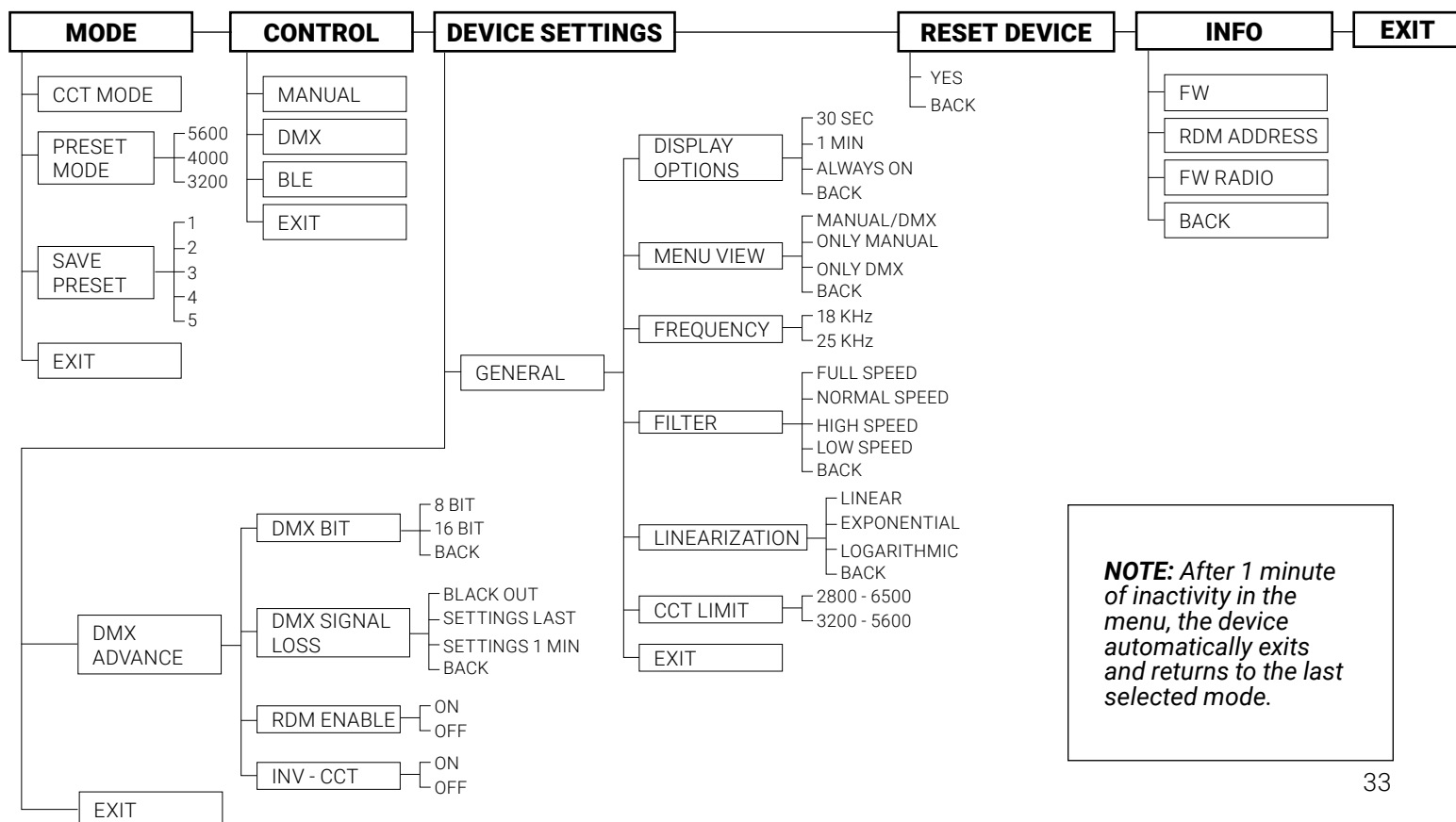


AC Power  
Cord Cable

▲ **ATTENTION:** Please keep the original package of the product in a safe place for warranty reasons.

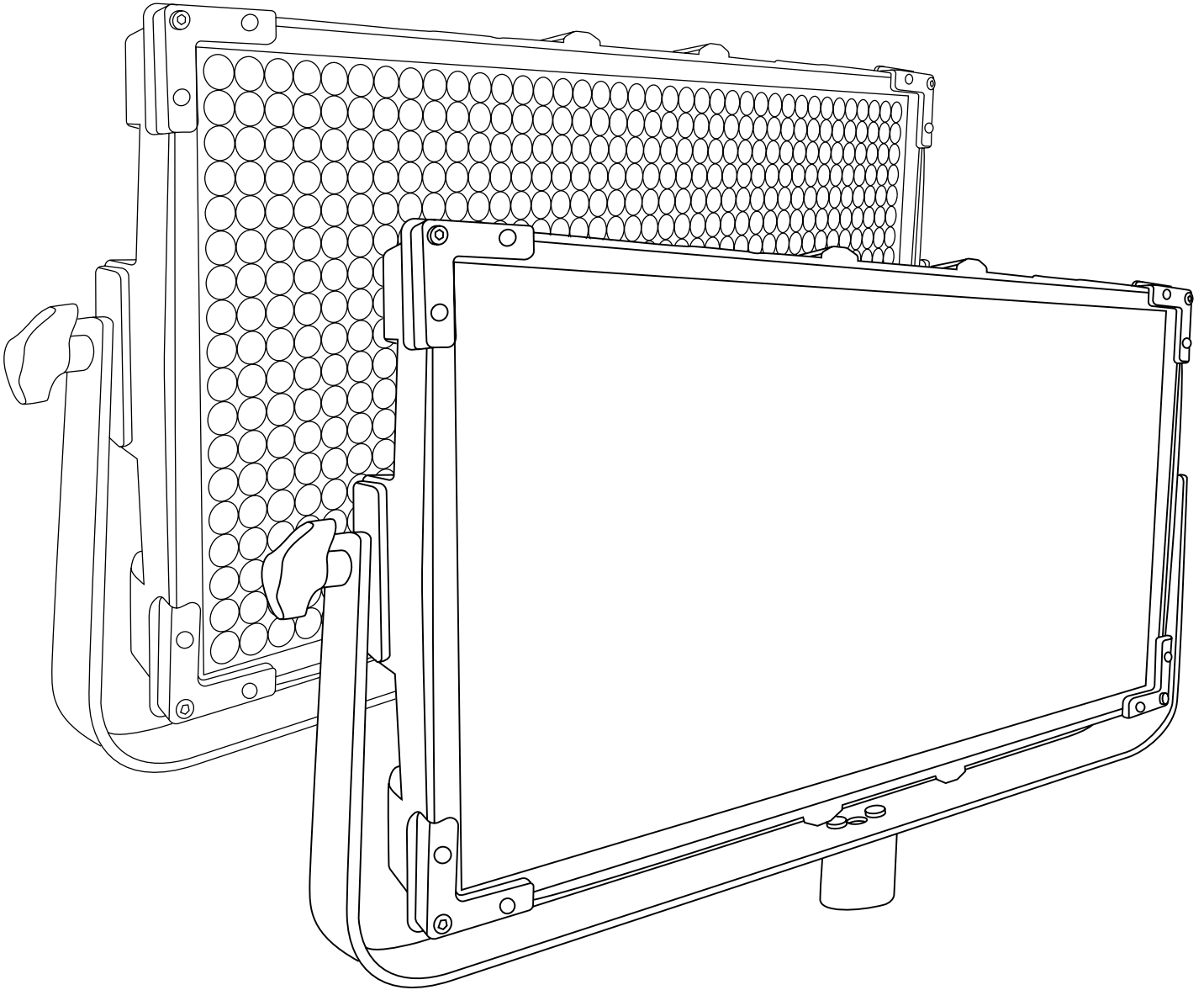
## MENU e submenus

- Select **"EXIT"** to return to the current mode.
- Select **"BACK"** to return to the previous menu.



**NOTE:** After 1 minute of inactivity in the menu, the device automatically exits and returns to the last selected mode.





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## User Manuals

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**818 PRO UltrapanelPRO Full Color Hard 60**

**816 PRO UltrapanelPRO Full Color Soft 60**

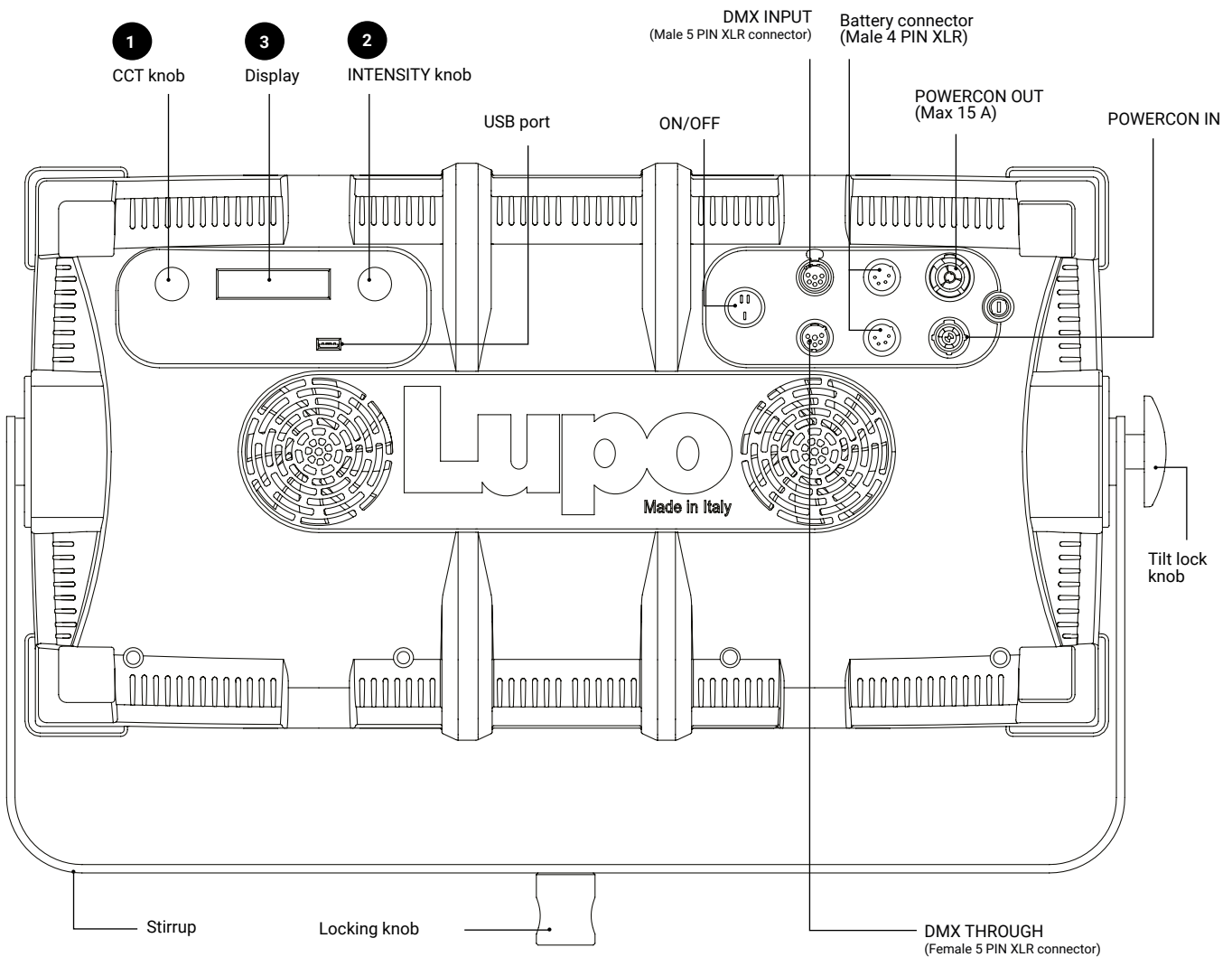
**419 PRO SuperpanelPRO Full Color Hard 60**

**416 PRO SuperpanelPRO Full Color Soft 60**

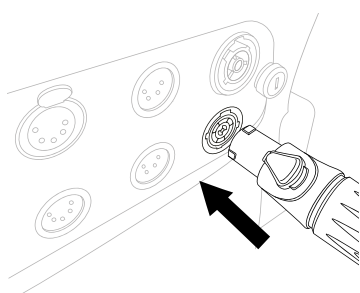
## Instructions

- Device for indoor use only.
- Maximum ambient temperature: 40 °C.
- Make sure power supply plug is suitable to power required.
- As prescribed by international regulations, a safety cable must be used when the fixture is suspended from ceiling.
- To switch on the light push the on/off button.
- SuperpanelPRO and UltrapanelPRO models are equipped with new generation high quality powerleds.

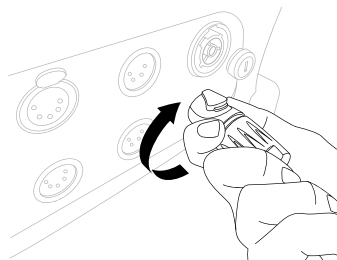
## Getting Started with the SuperpanelPRO 60 and the UltrapanelPRO 60



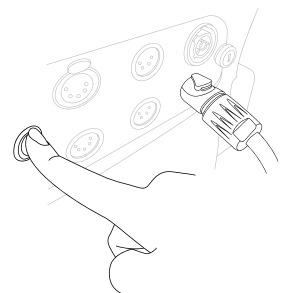
## Turning on the SuperpanelPRO 60 and the UltrapanelPRO 60



**1** Insert the POWERCON



**2** Rotate it by 15° until makes a click



**3** Turn ON the power switch:  
0 : OFF  
I : AC power  
II : Battery power

## CONTROL PANEL

- In current mode press the ❷ push button to enter the main MENU.
- In the sub-menus press the ❷ push button to confirm a selection.
- Rotate the ❷ knob to navigate in the main MENU and sub-menus.
- Use the « INTENSITY » ❷ knob to adjust the *light intensity from 0 to 100%*.
- Use the knob ❶ to adjust the light mode parameters.
- Display ❸.

## MODE

1. Press the ❷ push button to enter the main MENU.
2. Select **MODE** by pressing the ❷ push button.
3. Select the light mode among **CCT** with the ❷ knob and press the ❷ push button to confirm selection.
4. Select among **CCT / HSI / RGBW / PRESET / EFFECT / SAVE PRESET** with the ❷ knob and press the ❷ push button to confirm selection
5. See *LIGHT MODES*.

## LIGHT MODES

| MODE   | INTENSITY ❷                       | CCT/HUE ❸          | GN/SAT/COLOR ❹                | « ▽ » ❶ « ▴ » ❺               |
|--------|-----------------------------------|--------------------|-------------------------------|-------------------------------|
| CCT    | Light Intensity<br>from 0 to 100% | CT 2800K to 10000K | GN -1.00 to +1.00             | -                             |
| HSI    |                                   | HUE 0° to 100°     | SAT 0 to 100%                 | -                             |
| RGBW   |                                   | -                  | Select function R/G/B/W/CT/GN | Change values of the function |
| PRESET |                                   | -                  | -                             | Change Preset                 |

**CCT MODE:** Warm and cold white control mode. It allows you to adjust colour temperature (CCT), green/magenta compensation (GN) and light intensity. *This is the default setting.*

▲ **ATTENTION:** Rotating the ❶ knob changes the CT value- Pressing ❶ button select GN value that can be changed by rotating the same ❶ knob.

## DMX OPERATION

1. Press the ❷ push button to enter the main MENU.
2. Select **CONTROL** with the ❷ knob and press the ❷ push button to confirm selection.
3. Select **DMX** with the ❷ knob and press the ❷ push button to confirm selection.
4. Select the DMX channel, rotating the ❶ knob to change DMX ADDRESS in ascending or descending order among 1 and 512. The number shown on the display ❸ is the selected channel to communicate with the control desk.
5. See **DMX PROTOCOL MANUAL** for DMX channel specification.

**NOTE:** The symbol - ! - on the display indicates that there is **no DMX signal**.

## BLUETOOTH

1. Press the **2** push button to enter the main MENU.
1. Select **CONTROL** with the **2** knob and press the **2** push button to confirm selection.
2. Select **BLE** with the **2** knob and press the **2** push button to confirm selection.

## DMX OPERATION - Advanced Settings

1. Press the **2** push button to enter the main MENU.
2. Navigate through the main MENU with the **2** knob until **DEVICE SETTINGS** and press the **2** push button to confirm selection.
3. Rotate the **2** knob to select **DMX ADVANCED**, press the **2** push button to confirm selection.
4. Select one of the options among the **DMX BIT**, **DMX SIGNAL LOSS**, **RDM ENABLE**, **STROBE ENABLE** and **INV CCT** press **2** push button to confirm the selection.

### DMX BIT:

Resolution of the DMX control. 8bit 1 channel per function and 16 bit 2 channels per function.

1. Select the **DMX BIT** item by pressing the **2** push button.
2. Rotate the **2** knob to choose between **8bit / 16bit**, press the **2** push button to confirm the selected setting. See **DMX PROTOCOL MANUAL**.

### DMX SIGNAL LOSS:

This feature allows to choose the device's behaviour in case of a DMX signal loss.

1. Select the **LOSS DMX SIGNAL** item with the **2** push button
2. Rotate the **2** knob to select the device's behaviour among **BLACK OUT / SETTINGS LAST / SETTINGS 1min**, press the **2** push button to confirm the setting.

**Black out:** The device switches off.

**Settings Last:** The values of the last selected setting are maintained over time until the device is switched off.

**Settings 1min:** The values of the last selected settings is maintained for one minute and then the device switch off.

**RDM Enable:** ON/OFF, enable/disable RDM Protocol

**INV CCT:** ON/FF: enable/disable reversal CCT console control

# DMX Protocol

## Introduction

The SuperpanelPRO and UltrapanelPRO can be used with 8 bit or 16 bit DMX control. (See **DMX OPERATION - advanced settings** in the user's manual).

When used in **8 bit mode** the panels uses **one channel for each function**. DMX values for each channel are in the range of 0 to 255.

When used in **16 bit mode** the panels uses **two channels for each function**. The increased resolution offers a smooth dimming and a more accurate color adjustment. DMX values for the first channel (byte 1) are in the range of 256 to 65535 while for the second channel (byte 2) they are in the range of 0 to 255.

**▲ ATTENTION:** The symbol - ! - on the display indicates that there is **no DMX signal**.

**▲ ATTENTION:** \* If the **STROBE** in the DMX ADVANCED SETTINGS is enabled, there are 1 more channel in 8 bit and 2 more channels in 16 bit:

## DMX Channel Protocol - 8 bit

| MODE   | CHANNELS | DMX CHANNEL POSITION | DMX VALUE | VALUE           |
|--------|----------|----------------------|-----------|-----------------|
| CCT    | 3/4*     | 1. DIMMER            | 0 - 255   | 0 - 100 %       |
|        |          | 2. COLOR TEMPERATURE | 0 - 255   | 6500 - 2700     |
|        |          | 3. GN COMPENSATION   | 0 ÷ 5     | Ø               |
|        |          |                      | 6 ÷ 255   | - 1,00 ÷ + 1,00 |
|        |          | 4. *STROBE CONTROL   | 0 ÷ 5     | Ø               |
|        |          |                      | 6 ÷ 255   | 1 ÷ 25 Hz       |
| HSI    | 3/4*     | 1. DIMMER            | 0 - 255   | 0 ÷ 100 %       |
|        |          | 2. HUE               | 0 ÷ 253   | 0 ÷ 360         |
|        |          | 3. SATURATION        | 0 ÷ 255   | 0 ÷ 100 %       |
|        |          | 4. *STROBE CONTROL   | 0 ÷ 255   | 0 - 25 Hz       |
| RGBW   | 7/8*     | 1. DIMMER            | 0 - 255   | 0 ÷ 100 %       |
|        |          | 2. RED               | 0 ÷ 255   | 0 ÷ 100 %       |
|        |          | 3. GREEN             | 0 ÷ 255   | 0 ÷ 100 %       |
|        |          | 4. BLUE              | 0 ÷ 255   | 0 ÷ 100 %       |
|        |          | 5. WHITE             | 0 ÷ 255   | 0 ÷ 100 %       |
|        |          | 6. COLOR TEMPERATURE | 0 - 255   | 6500 - 2700     |
|        |          |                      | 0 ÷ 5     | Ø               |
|        |          | 7. GN COMPENSATION   | 6 ÷ 255   | - 1.00 ÷ +1.00  |
|        |          |                      | 0 ÷ 255   | 0 - 25 Hz       |
| FRGBW  | 7/8*     | 1. DIMMER            | 0 - 255   | 0 ÷ 100 %       |
|        |          | 2. RED               | 0 ÷ 255   | 0 ÷ 100 %       |
|        |          | 3. GREEN             | 0 ÷ 255   | 0 ÷ 100 %       |
|        |          | 4. BLUE              | 0 ÷ 255   | 0 ÷ 100 %       |
|        |          | 5. WHITE             | 0 ÷ 255   | 0 ÷ 100 %       |
|        |          | 6. COLOR TEMPERATURE | 0 - 255   | 6500 - 2700     |
|        |          |                      | 0 ÷ 5     | Ø               |
|        |          | 7. GN COMPENSATION   | 6 ÷ 255   | - 1.00 ÷ +1.00  |
|        |          |                      | 0 ÷ 255   | 0 - 25 Hz       |
| PRESET | 3/4*     | 1. DIMMER            | 0 - 255   | 0 ÷ 100 %       |
|        |          | 2. PRESET            | 0 ÷ 255   | 0 ÷ N PRESET    |
|        |          | 3. PRESET FREEZE     | 0 - 50    | NO FREEZE       |
|        |          |                      | 200 ÷ 255 | FREEZE          |
|        |          | 4. * STROBE CONTROL  | 0 ÷ 255   | 0 - 25 Hz       |

## DMX Channel Protocol - 16 bit

| MODE | CHANNELS | DMX CHANNEL POSITION          | DMX VALUE    | VALUE           |
|------|----------|-------------------------------|--------------|-----------------|
| CCT  | 6/8*     | 1. DIMMER - byte 1            | 0 - 65535    | 0 ÷ 100 %       |
|      |          | 2. DIMMER - byte 2            |              |                 |
|      |          | 3. COLOR TEMPERATURE - byte 1 | 0 - 65535    | 6500 - 2700     |
|      |          | 4. COLOR TEMPERATURE - byte 2 |              |                 |
|      |          | 5. GN COMPENSATION - byte 1   | 0 ÷ 500      | Ø               |
|      |          | 6. GN COMPENSATION - byte 2   | 501 ÷ 65535  | - 1.00 ÷ + 1.00 |
|      |          | 7. *STROBE CONTROL - byte 1   | 0 ÷ 1300     | Ø               |
|      |          | 8. *STROBE CONTROL - byte 2   | 1301 ÷ 65535 | 1 ÷ 25 Hz       |
| HSI  | 6/8*     | 1. DIMMER - byte 1            | 0 - 65535    | 0 ÷ 100 %       |
|      |          | 2. DIMMER - byte 2            |              |                 |
|      |          | 3. HUE - byte 1               | 0 ÷ 65535    | 0 ÷ 360         |
|      |          | 4. HUE - byte 2               |              |                 |
|      |          | 5. SATURATION - byte 1        | 0 ÷ 65535    | 0 ÷ 100%        |
|      |          | 6. SATURATION - byte 2        |              |                 |
|      |          | 7. *STROBE CONTROL - byte 1   | 0 ÷ 1300     | Ø               |
|      |          | 8. *STROBE CONTROL - byte 2   | 1301 ÷ 65535 | 1 ÷ 25 Hz       |

|        |        |                              |                       |                         |
|--------|--------|------------------------------|-----------------------|-------------------------|
| RGBW   | 14/16* | 1. DIMMER - byte 1           | 0 - 65535             | 0 ÷ 100 %               |
|        |        | 2. DIMMER - byte 2           |                       |                         |
|        |        | 3. RED - byte 1              | 0 - 65535             | 0 ÷ 100 %               |
|        |        | 4. RED - byte 2              |                       |                         |
|        |        | 5. GREEN - byte 1            | 0 + 65535             | 0 ÷ 100 %               |
|        |        | 6. GREEN - byte 2            |                       |                         |
|        |        | 7. BLUE - byte 1             | 0 + 65535             | 0 ÷ 100 %               |
|        |        | 8. BLUE - byte 2             |                       |                         |
|        |        | 9. WHITE - byte 1            | 0 + 65535             | 0 ÷ 100 %               |
|        |        | 10. WHITE - byte 2           |                       |                         |
|        |        | 11. COLOR TEMPERAT. - byte 1 | 0 - 65535             | 6500 - 2700             |
|        |        | 12. COLOR TEMPERAT. - byte 2 |                       |                         |
|        |        | 13. GN COMPENSATION - byte 1 | 0 ÷ 500               | Ø<br>-1,00 ÷ + 1,00     |
|        |        | 14. GN COMPENSATION - byte 2 | 501 ÷ 65535           |                         |
|        |        | 15. *STROBE CONTROL - byte 1 | 0 ÷ 1300              | Ø                       |
|        |        | 16. *STROBE CONTROL - byte 2 | 1301 ÷ 65535          | 1 ÷ 25 Hz               |
| FRGBW  | 14/16* | 1. DIMMER - byte 1           | 0 - 65535             | 0 ÷ 100 %               |
|        |        | 2. DIMMER - byte 2           |                       |                         |
|        |        | 3. RED - byte 1              | 0 ÷ 65535             | 0 ÷ 100 %               |
|        |        | 4. RED - byte 2              |                       |                         |
|        |        | 5. GREEN - byte 1            | 0 ÷ 65535             | 0 ÷ 100 %               |
|        |        | 6. GREEN - byte 2            |                       |                         |
|        |        | 7. BLUE - byte 1             | 0 ÷ 65535             | 0 ÷ 100 %               |
|        |        | 8. BLUE - byte 2             |                       |                         |
|        |        | 9. WHITE - byte 1            | 0 ÷ 65535             | 0 ÷ 100 %               |
|        |        | 10. WHITE - byte 2           |                       |                         |
|        |        | 11. COLOR TEMPERAT. - byte 1 | 0 - 65535             | 6500 - 2700             |
|        |        | 12. COLOR TEMPERAT. - byte 2 |                       |                         |
|        |        | 13. GN COMPENSATION - byte 1 | 0 ÷ 500               | Ø<br>-1,00 ÷ + 1,00     |
|        |        | 14. GN COMPENSATION - byte 2 | 501 ÷ 65535           |                         |
|        |        | 15. *STROBE CONTROL - byte 1 | 0 ÷ 1300              | Ø                       |
|        |        | 16. *STROBE CONTROL - byte 2 | 1301 ÷ 65535          | 1 ÷ 25 Hz               |
| PRESET | 6/8*   | 1. DIMMER - byte 1           | 0 - 65535             | 0 ÷ 100 %               |
|        |        | 2. DIMMER - byte 2           |                       |                         |
|        |        | 3. PRESET - byte 1           | 0 ÷ 65535             | 0 ÷ N PRESET            |
|        |        | 4. PRESET - byte 2           |                       |                         |
|        |        | 5. PRESET FREEZE - byte 1    | 0 - 12800 > no freeze | 51200 ÷ 65535<br>freeze |
|        |        | 6. PRESET FREEZE - byte 2    |                       |                         |
|        |        | 7. *STROBE CONTROL - byte 1  | 0 ÷ 1300              | Ø                       |
|        |        | 8. *STROBE CONTROL - byte 2  | 1301 ÷ 65535          | 1 ÷ 25 Hz               |

# RDM

## Protocol Specification

| COMMAND                      | PID    | DESCRIPTION                                         |
|------------------------------|--------|-----------------------------------------------------|
| Manufacturer ID              | 0x0622 | Manufacturer identification number (LUPO Lighting). |
| <b>Device Identification</b> |        |                                                     |
| <b>Model ID</b>              |        | <b>Model identification number</b>                  |
|                              | 1      | DayledPRO 650 mono color                            |
|                              | 2      | DayledPRO 650 dual color                            |
|                              | 3      | DayledPRO 1000 mono color                           |
|                              | 4      | DayledPRO 1000 dual color                           |
|                              | 5      | DayledPRO 2000 mono color                           |

|                              |      |                                  |
|------------------------------|------|----------------------------------|
|                              | 6    | DayledPRO 2000 dual color        |
|                              | 7    | SuperpanelPRO 30 dual color soft |
|                              | 8    | SuperpanelPRO 30 dual color hard |
|                              | 9    | SuperpanelPRO 30 full color soft |
|                              | 10   | SuperpanelPRO 30 full color hard |
|                              | 11   | SuperpanelPRO 60 dual color soft |
|                              | 12   | SuperpanelPRO 60 dual color hard |
|                              | 13   | SuperpanelPRO 60 full color soft |
|                              | 14   | SuperpanelPRO 60 full color hard |
|                              | 15   | ActionpanelPRO dual color soft   |
|                              | 16   | ActionpanelPRO dual color hard   |
|                              | 17   | ActionpanelPRO full color soft   |
|                              | 18   | ActionpanelPRO full color hard   |
|                              | 19   | Kickasspanel dual color          |
|                              | 20   | Kickasspanel full color          |
|                              | 21   | Lupoled monocolor                |
|                              | 22   | Lupoled dualcolor                |
|                              | 23   | MovielightPRO 300 monocolor      |
|                              | 24   | MovielightPRO 300 dual color     |
|                              | 25   | UltrapanelPRO 30 dual color soft |
|                              | 26   | UltrapanelPRO 30 dual color hard |
|                              | 27   | UltrapanelPRO 60 full color soft |
|                              | 28   | UltrapanelPRO 60 full color hard |
|                              | 29   | UltrapanelPRO 30 full color soft |
|                              | 30   | UltrapanelPRO 30 full color hard |
|                              | 31   | UltrapanelPRO 60 dual color soft |
|                              | 32   | UltrapanelPRO 60 dual color hard |
|                              | 33   | DayledPRO 650 PRO Full Color     |
|                              | 34   | DayledPRO 1000 PRO Full Color    |
|                              | 35   | DayledPRO 2000 PRO Full Color    |
|                              | 36   | DayledPRO 3000 full color        |
|                              | 37   | Movielight 300 full color        |
|                              | 38   | DayledPRO 3000 mono color        |
|                              | 39   | DayledPRO 3000 dual color        |
|                              | 40   | MovielightPRO 600 dual color     |
|                              | 41   | DayledPRO 5000 monocolor         |
|                              | 42   | DayledPRO 5000 dual color        |
|                              | 43   | DayledPRO 5000 full color        |
|                              | 44   | HyperpanelPRO 30 dual color soft |
|                              | 45   | HyperpanelPRO 30 dual color hard |
|                              | 46   | HyperpanelPRO 60 dual color soft |
|                              | 47   | HyperpanelPRO 60 dual color hard |
|                              | 48   | MovielightPRO 600 full color     |
| <b>Personality MONOCOLOR</b> |      | <b>DMX Personality</b>           |
|                              | 0x01 | CCT                              |

|                               |        |                                                                                                                       |
|-------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Personality DUAL COLOR</b> |        | <b>DMX Personality</b>                                                                                                |
|                               | 0x01   | CCT                                                                                                                   |
|                               | 0x02   | PRESET                                                                                                                |
| <b>Personality FULL COLOR</b> |        | <b>DMX Personality</b>                                                                                                |
|                               | 0x01   | CCT                                                                                                                   |
|                               | 0x02   | HSI                                                                                                                   |
|                               | 0x03   | RGBW                                                                                                                  |
|                               | 0x04   | FRGBW                                                                                                                 |
|                               | 0x05   | PRESET                                                                                                                |
| <b>Network management</b>     |        |                                                                                                                       |
| DISC UNIQUE BRANCH            | 0x0001 | Search RDM devices                                                                                                    |
| DISC MUTE                     | 0x0002 | Mute RDM device, no response message                                                                                  |
| DISC UN MUTE                  | 0x0003 | Activate RDM device fo response message                                                                               |
| <b>Status collection</b>      |        |                                                                                                                       |
| QUEUED MESAGES                | 0x0020 | Retrieves queued messages or status message if no message is in queue                                                 |
| STATUS MESSAGES               | 0x0030 | Retrieves current Warning/Error messages                                                                              |
| <b>RDM Information</b>        |        |                                                                                                                       |
| SUPPORTED PARAMETERS          | 0x0050 | Retrieves a list of all supported RDM commands                                                                        |
| PARAMETER DESCRIPTION         | 0x0051 | Retrieves a list of all RDM commands                                                                                  |
| <b>Product Information</b>    |        |                                                                                                                       |
| DEVICE INFO                   | 0x0060 | Retrieves a variety of information about the device that is normally required by a controller.                        |
| DEVICE MODEL DESCRIPTION      | 0x0080 | Text description of up to 32 characters for the device model type.                                                    |
| MANUFACTURER LABEL            | 0x0081 | This parameter provides an ASCII text response with the Manufacturer name for the device. "LUPO" is the default name. |
| FACTORY DEFAULTS              | 0x0090 | Set the device to its factory defaults. Get: Check if settings still in default state -> 1 if default                 |
| SOFTWARE VERSION LABEL        | 0x00C0 | Retrieves software version string of main software                                                                    |
| <b>DMX512 Setup</b>           |        |                                                                                                                       |
| DMX PERSONALITY               | 0x00E0 | DMX mode                                                                                                              |
| DMX PERSONALITY DESCRIPTION   | 0x00E1 | Shows a description of a DMX-Mode, max 32 characters                                                                  |
| DMX START ADDRESS             | 0x00F0 | DMX address                                                                                                           |
| <b>Control</b>                |        |                                                                                                                       |
| IDENTIFY DEVICE               | 0x1000 | The identify flag (flashes the light)                                                                                 |
| <b>Manufacturer Commands</b>  |        |                                                                                                                       |
| DISPLAY TIMEOUT               | 0x8002 | 0: 30 sec 1: 1 min 2: always on                                                                                       |
| DMX SIGNAL LOST MODE          | 0x8003 | 0: black out 1: last settings on 2: last settings 1 min                                                               |
| DMX BITS                      | 0x8004 | 0: 8 bit 1: 16 bit                                                                                                    |
| CCT LIMIT                     | 0x8005 | 0: 2800-10000 1: 3200-5600                                                                                            |
| LINEARIZATION                 | 0x8006 | 0: linear 1: exponential 2: logarithmic                                                                               |



|           |        |                                                          |
|-----------|--------|----------------------------------------------------------|
| FILTER    | 0x8007 | 0: full speed 1: normal speed 2: high speed 3: low speed |
| FREQUENCY | 0x8008 | 0: 18 KHz 1: 25 KHz                                      |
| INV - CCT | 0x8009 | 0: not inverted 1: inverted                              |
| PRESET    | 0x800A | select preset number                                     |

## DEVICE SETTINGS

1. Press the **2** push button to enter the main MENU.
2. Navigate through the MENU rotating the **2** button, select **DEVICE SETTINGS**, press the **2** push button to confirm the selection.
3. Navigate through the MENU rotating the **2** button, select **GENERAL**, press the **2** push button to confirm the selection.
4. Navigate through the **FAN POWER / DISPLAY / FREQUENCY / FILTER / LINEARIZATION / CCT LIMIT** functions, rotating the **2** button to select the desired function and press the **2** push button to confirm the selection.
5. Within each function select the option to be activated and rotate the **2** button.

**Display:** Time during which the display backlight stays on. **30sec / 1min / ALWAYS ON.**

**Frequency:** Dimmer frequency 18 KHz - 25 KHz

**Filter:** It is the speed response of the system (smooth factor).

**FULL SPEED / NORMAL SPEED / HIGH SPEED / LOW SPEED.**

**Linearization:** Linearization is the compensation curve for the human eye's perception of the luminous intensity emitted as a function of the required power. Required power = dimmer value on the display. **LINEAR / EXPONENTIAL / LOGARITHMIC.**

**Linear:** No compensation, the intensity of the light is directly proportional to requested power.

**Exponential:** The light intensity increases from 0 to 100 exponentially.

**Logarithmic:** The light intensity increases from 0 to 100 logarithmically.

**CCT Limit:** CCT range 2800 - 6500 or 3200 - 5600

## RESET DEVICE

1. Press the « OK » **2** button to enter the main MENU.
2. Select **RESET DEVICE** rotating the **2** button, press the **2** push button to confirm the selection.
3. Select **YES** rotating the **2** button, press the **2** push button to confirm the selection.
4. The device ask for further confirmation, select **YES** by pressing the press the **2** push button. **THE DEVICE RETURNS TO FACTORY DEFAULT SETTINGS.**

| FACTORY DEFAULT SETTING         |                        |
|---------------------------------|------------------------|
| <b>MODE</b>                     | <b>DEVICE SETTINGS</b> |
| CCT                             | DISPLAY: 1 min         |
| <b>DMX OPERATION</b>            | FILTER : Normal speed  |
| BIT: 8 BIT                      | LINEARIZATION: Linear  |
| DMX SIGNAL LOSS: Settings 1 MIN | FREQUENCY: 18 KHz      |
| RDM ENABLE: OFF                 |                        |
| INV - CCT: OFF                  | <b>CONTROL</b>         |
|                                 | Manual                 |

## DMX OPERATION - DMX protocol

The SuperpanelPRO and the UltrapanelPRO can be used with **8 bit** (1 channel per function) and **16 bit** (2 channels per function). The SuperpanelPRO and the UltrapanelPRO uses consecutive channels starting from the DMX address set on the panel used as reference for the connection to the control desk. Please take the above into consideration when using many units of SuperpanelPRO and the UltrapanelPRO to avoid overlaps.

▲ **ATTENTION:** \* If the **STROBE** in the DMX ADVANCED SETTINGS is enabled, there are 1 more channel in 8 bit and 2 more channels in 16 bit:

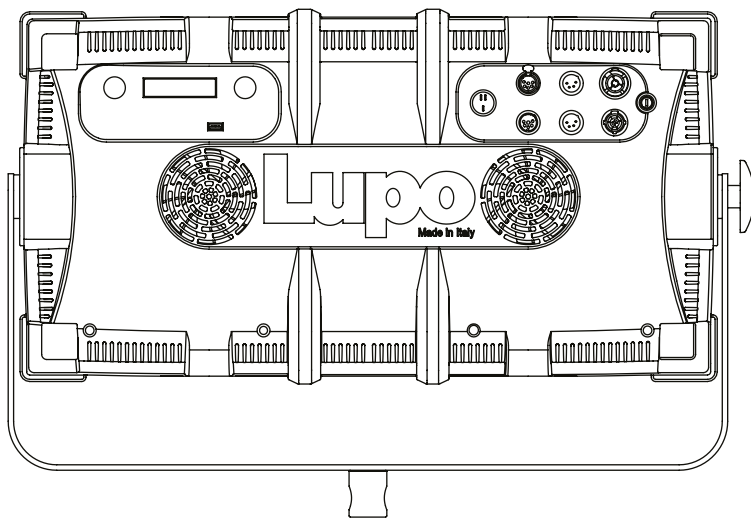
## USB port

Use USB port for firmware updates.

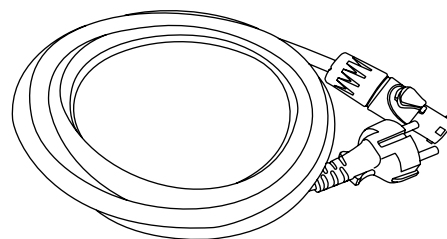
## Update the Firmware

1. Copy the file on an USB Pendrive (FAT32 formatted) in the main root;
2. Switch off the equipment and insert the USB Pendrive;
3. Switch on the equipment;
4. Wait until display backlight flashes (it takes several minutes and red led must toggle for all time long);
5. Switch off the equipment;
6. Extract the Pendrive and switch on the equipment: the firmware is updated.

## Package Contents for SuperpanelPRO 60 and UltrapanelPRO 60



SuperpanelPRO 60 / UltrapanelPRO 60

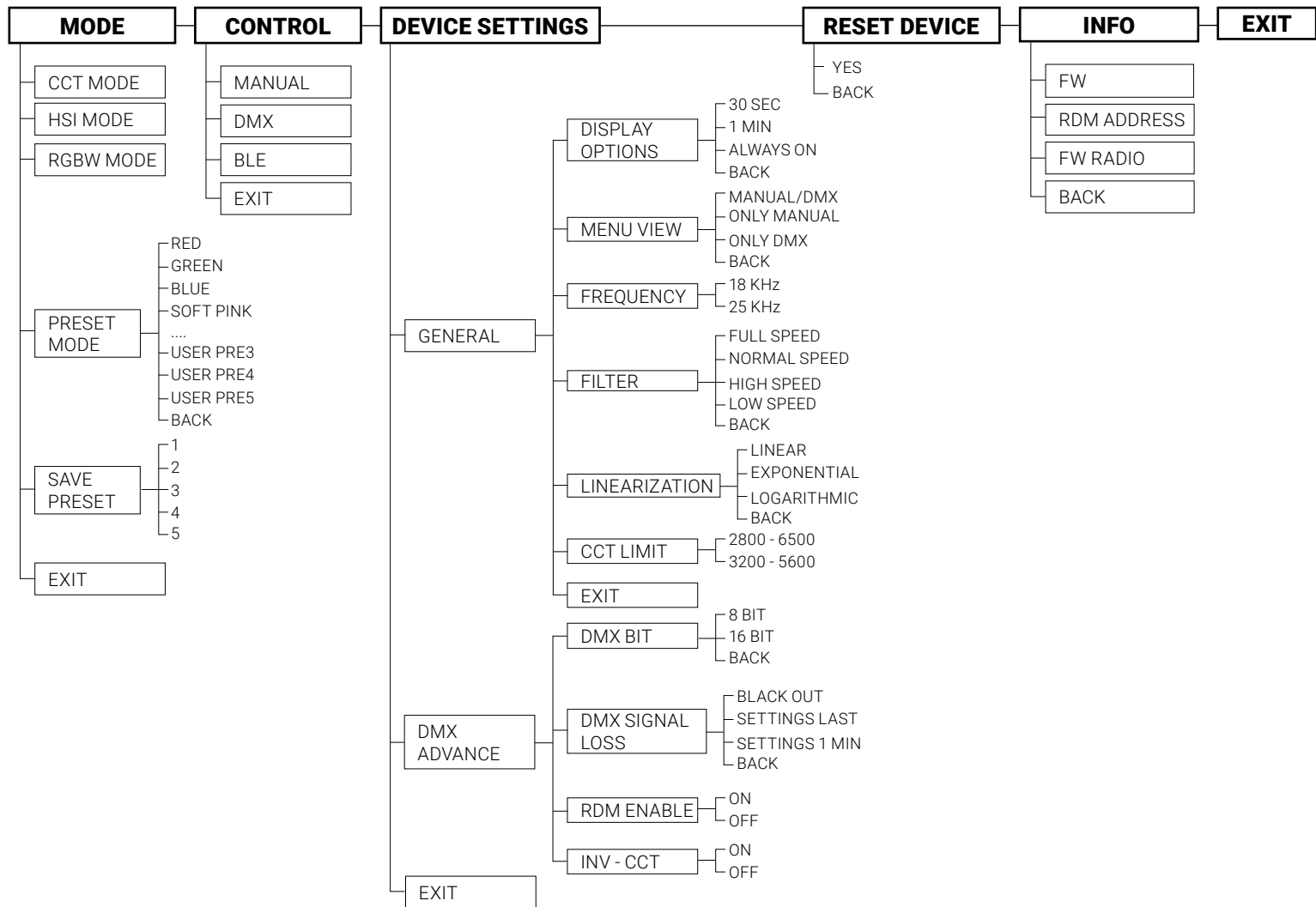


AC Power  
Cord Cable

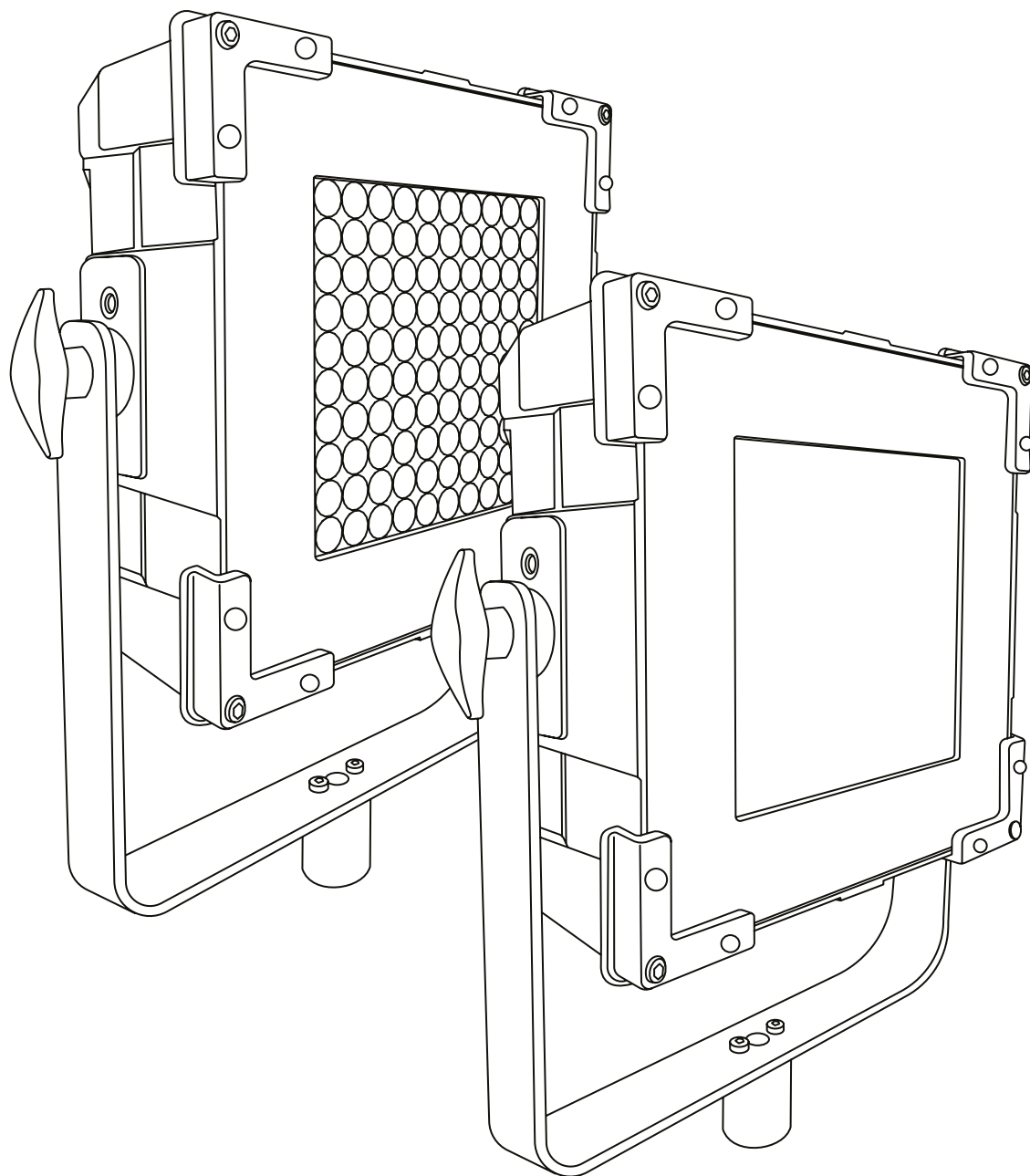
▲ **ATTENTION:** Please keep the original package of the product in a safe place for warranty reasons.

## MENU e submenus

- Select **"EXIT"** to return to the current mode.
- Select **"BACK"** to return to the previous menu.



**NOTE:** After 1 minute of inactivity in the menu, the device automatically exits and returns to the last selected mode.



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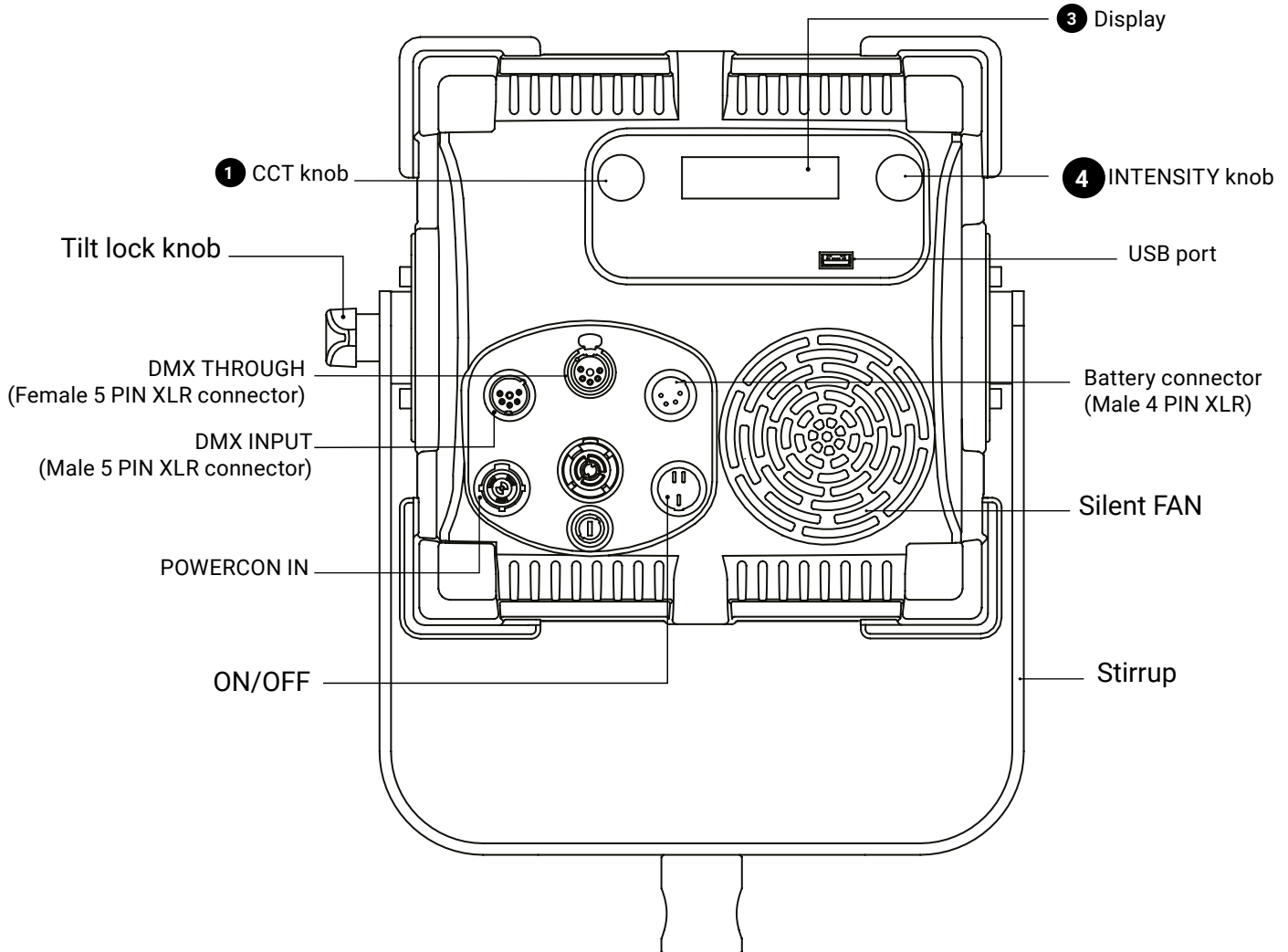
## User Manuals

**600 PRO ActionpanelPRO Dual Color Hard**  
**603 PRO ActionpanelPRO Dual Color Soft**

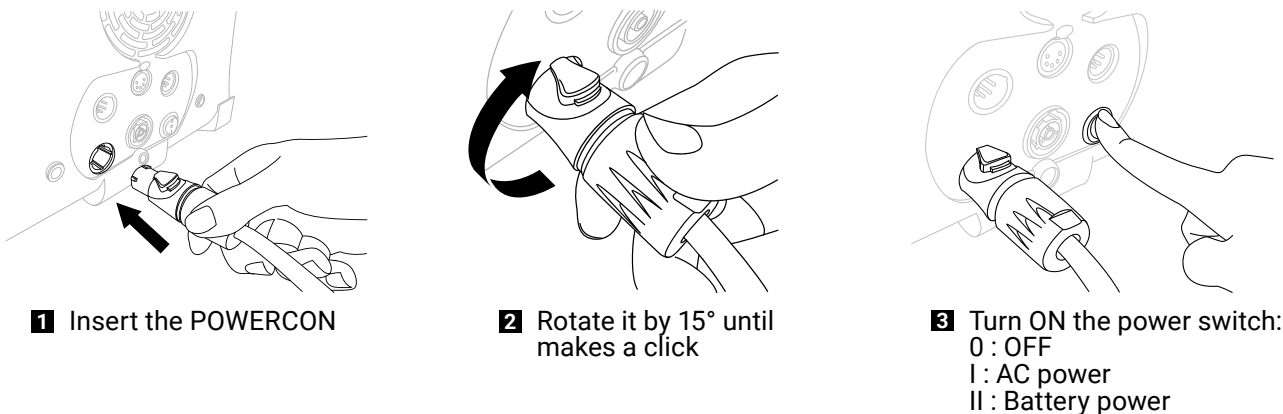
## Instructions

- Device for indoor use only.
- Maximum ambient temperature: 40 °C.
- Make sure power supply plug is suitable to power required.
- As prescribed by international regulations, a safety cable must be used when the fixture is suspended from ceiling.
- To switch on the light push the on/off button.
- ActionpanelPRO models are equipped with new generation high quality poweredleds.

## Getting Started with the ActionpanelPRO



## Turning on the ActionpanelPRO



## CONTROL PANEL

- In current mode press the ② push button to enter the main MENU.
- In the sub-menus press the ② push button to confirm a selection.
- Rotate the ② knob to navigate in the main MENU and sub-menus.
- Use the « **INTENSITY** » ② knob to adjust the **light intensity from 0 to 100%**.
- Use the knob ① to adjust the light mode parameters.
- Display ③.

## MODE

1. Press the ② push button to enter the main MENU.
2. Select **MODE** by pressing the ② push button.
3. Select the light mode among **CCT** with the ② knob and press the ② push button to confirm selection.
4. Select among **CCT / PRESET / SAVE PRESET** with the ② knob and press the ② push button to confirm selection
5. See **LIGHT MODES**.

## LIGHT MODES

| MODE | INTENSITY ④     | CCT/HUE ⑤            | GN/SAT/COLOR ⑥ | GN/SAT/COLOR ⑥ |
|------|-----------------|----------------------|----------------|----------------|
| CCT  | Light Intensity | CT 2800 K to 10000 K | -              | -              |

**CCT MODE:** Warm and cold white control mode. It allows you to adjust colour temperature (CCT), and light intensity.  
*This is the default setting.*

**⚠ ATTENTION:** Rotating the ① knob changes the CT value- Pressing ① button select GN value that can be changed by rotating the same ① knob.

## DMX OPERATIONS

1. Press the ② push button to enter the main MENU.
2. Select **CONTROL** with the ② knob and press the ② push button to confirm selection.
3. Select **DMX** with the ② knob and press the ② push button to confirm selection.
4. Select the DMX channel, rotating the ① knob to change DMX ADDRESS in ascending or descending order among 1 and 512. The number shown on the display ③ is the selected channel to communicate with the control desk.
5. See **DMX PROTOCOL MANUAL** for DMX channel specification.

**NOTE:** The symbol - ! - on the display indicates that there is **no DMX signal**.

## BLUETOOTH

1. Press the ② push button to enter the main MENU.
1. Select **CONTROL** with the ② knob and press the ② push button to confirm selection.
2. Select **BLE** with the ② knob and press the ② push button to confirm selection.

## DMX OPERATIONS - Advanced Settings

1. Press the ② push button to enter the main MENU.
2. Navigate through the main MENU with the ② knob until **DEVICE SETTINGS** and press the ② push button to confirm selection.
3. Rotate the ② knob to select **DMX ADVANCED**, press the ② push button to confirm selection.
4. Select one of the options among the **DMX BIT, DMX SIGNAL LOSS, RDM ENABLE, STROBE ENABLE** and **INV CCT**

1. press **2** push button to confirm the selection.

#### DMX BIT:

Resolution of the DMX control. 8bit 1 channel per function and 16 bit 2 channels per function.

1. Select the **DMX BIT** item by pressing the **2** push button.
2. Rotate the **2** knob to choose between **8bit / 16bit**, press the **2** push button to confirm the selected setting. See **DMX PROTOCOL MANUAL**.

#### DMX SIGNAL LOSS:

This feature allows to choose the device's behaviour in case of a DMX signal loss.

1. Select the **LOSS DMX SIGNAL** item with the **2** push button
2. Rotate the **2** knob to select the device's behaviour among **BLACK OUT / SETTINGS LAST / SETTINGS 1min**, press the **2** push button to confirm the setting.

**Black out:** The device switches off.

**Settings Last:** The values of the last selected setting are maintained over time until the device is switched off.

**Settings 1min:** The values of the last selected settings is maintained for one minute and then the device switch off.

**RDM Enable:** ON/OFF, enable/disable RDM Protocol

**INV CCT:** ON/FF: enable/disable reversal CCT console control

# DMX Protocol

## Introduction

The ActionpanelPRO models can be used with 8 bit or 16 bit DMX control. (See *DMX OPERATION - advanced settings* in the user's manual). When used in **8 bit mode** the panels uses **one channel for each function**. DMX values for each channel are in the range of 0 to 255. When used in **16 bit mode** the panels uses **two channels for each function**. The increased resolution offers a smooth dimming and a more accurate color adjustment. DMX values for the first channel (byte 1) are in the range of 256 to 65535 while for the second channel (byte 2) they are in the range of 0 to 255.

**⚠ ATTENTION:** The symbol - ! - on the display indicates that there is **no DMX signal**.

**⚠ ATTENTION:** \* If the **STROBE** in the DMX ADVANCED SETTINGS is **enabled**, there are 1 more channel in 8 bit and 2 more channels in 16 bit:

## DMX Channel Protocol - 8 bit

| MODE | CHANNELS | DMX CHANNEL POSITION | DMX VALUE | VALUE       |
|------|----------|----------------------|-----------|-------------|
| CCT  | 2/3*     | 1. DIMMER            | 0 - 255   | 0 - 100 %   |
|      |          | 2. COLOR TEMPERATURE | 0 - 255   | 6500 - 2700 |
|      |          | 3. *STROBE CONTROL   | 0 ÷ 5     | Ø           |
|      |          |                      | 6 ÷ 255   | 1 ÷ 25 Hz   |

## DMX Channel Protocol - 16 bit

| MODE | CHANNELS | DMX CHANNEL POSITION          | DMX VALUE    | VALUE       |
|------|----------|-------------------------------|--------------|-------------|
| CCT  | 4/6*     | 1. DIMMER - byte 1            | 0 - 65535    | 0 ÷ 100 %   |
|      |          | 2. DIMMER - byte 2            |              |             |
|      |          | 3. COLOR TEMPERATURE - byte 1 | 0 - 65535    | 6500 - 2700 |
|      |          | 4. COLOR TEMPERATURE - byte 2 |              |             |
|      |          | 5. *STROBE CONTROL - byte 1   | 0 ÷ 1300     | Ø           |
|      |          | 6. *STROBE CONTROL - byte 2   | 1301 ÷ 65535 | 1 ÷ 25 Hz   |

# RDM

## Protocol Specification

| COMMAND                      | PID    | DESCRIPTION                                         |
|------------------------------|--------|-----------------------------------------------------|
| Manufacturer ID              | 0x0622 | Manufacturer identification number (LUPO Lighting). |
| <b>Device Identification</b> |        |                                                     |
| <b>Model ID</b>              |        | <b>Model identification number</b>                  |
|                              | 1      | DayledPRO 650 mono color                            |
|                              | 2      | DayledPRO 650 dual color                            |
|                              | 3      | DayledPRO 1000 mono color                           |
|                              | 4      | DayledPRO 1000 dual color                           |
|                              | 5      | DayledPRO 2000 mono color                           |
|                              | 6      | DayledPRO 2000 dual color                           |
|                              | 7      | SuperpanelPRO 30 dual color soft                    |
|                              | 8      | SuperpanelPRO 30 dual color hard                    |
|                              | 9      | SuperpanelPRO 30 full color soft                    |
|                              | 10     | SuperpanelPRO 30 full color hard                    |
|                              | 11     | SuperpanelPRO 60 dual color soft                    |
|                              | 12     | SuperpanelPRO 60 dual color hard                    |
|                              | 13     | SuperpanelPRO 60 full color soft                    |
|                              | 14     | SuperpanelPRO 60 full color hard                    |
|                              | 15     | ActionpanelPRO dual color soft                      |
|                              | 16     | ActionpanelPRO dual color hard                      |
|                              | 17     | ActionpanelPRO full color soft                      |
|                              | 18     | ActionpanelPRO full color hard                      |
|                              | 19     | Kickasspanel dual color                             |
|                              | 20     | Kickasspanel full color                             |
|                              | 21     | Lupoled monocolour                                  |
|                              | 22     | Lupoled dualcolor                                   |
|                              | 23     | MovielightPRO 300 monocolour                        |
|                              | 24     | MovielightPRO 300 dual color                        |
|                              | 25     | UltrapanelPRO 30 dual color soft                    |
|                              | 26     | UltrapanelPRO 30 dual color hard                    |
|                              | 27     | UltrapanelPRO 60 full color soft                    |
|                              | 28     | UltrapanelPRO 60 full color hard                    |
|                              | 29     | UltrapanelPRO 30 full color soft                    |
|                              | 30     | UltrapanelPRO 30 full color hard                    |
|                              | 31     | UltrapanelPRO 60 dual color soft                    |
|                              | 32     | UltrapanelPRO 60 dual color hard                    |
|                              | 33     | DayledPRO 650 PRO Full Color                        |
|                              | 34     | DayledPRO 1000 PRO Full Color                       |
|                              | 35     | DayledPRO 2000 PRO Full Color                       |



|                               |        |                                                                                                                       |
|-------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------|
|                               | 36     | DayledPRO 3000 full color                                                                                             |
|                               | 37     | Movielight 300 full color                                                                                             |
|                               | 38     | DayledPRO 3000 mono color                                                                                             |
|                               | 39     | DayledPRO 3000 dual color                                                                                             |
|                               | 40     | MovielightPRO 600 dual color                                                                                          |
|                               | 41     | DayledPRO 5000 monocolor                                                                                              |
|                               | 42     | DayledPRO 5000 dual color                                                                                             |
|                               | 43     | DayledPRO 5000 full color                                                                                             |
|                               | 44     | HyperpanelPRO 30 dual color soft                                                                                      |
|                               | 45     | HyperpanelPRO 30 dual color hard                                                                                      |
|                               | 46     | HyperpanelPRO 60 dual color soft                                                                                      |
|                               | 47     | HyperpanelPRO 60 dual color hard                                                                                      |
|                               | 48     | MovielightPRO 600 full color                                                                                          |
| <b>Personality MONOCOLOR</b>  |        | <b>DMX Personality</b>                                                                                                |
|                               | 0x01   | CCT                                                                                                                   |
| <b>Personality DUAL COLOR</b> |        | <b>DMX Personality</b>                                                                                                |
|                               | 0x01   | CCT                                                                                                                   |
|                               | 0x02   | PRESET                                                                                                                |
| <b>Personality FULL COLOR</b> |        | <b>DMX Personality</b>                                                                                                |
|                               | 0x01   | CCT                                                                                                                   |
|                               | 0x02   | HSI                                                                                                                   |
|                               | 0x03   | RGBW                                                                                                                  |
|                               | 0x04   | FRGBW                                                                                                                 |
|                               | 0x05   | PRESET                                                                                                                |
| <b>Network management</b>     |        |                                                                                                                       |
| DISC UNIQUE BRANCH            | 0x0001 | Search RDM devices                                                                                                    |
| DISC MUTE                     | 0x0002 | Mute RDM device, no response message                                                                                  |
| DISC UN MUTE                  | 0x0003 | Activate RDM device fo response message                                                                               |
| <b>Status collection</b>      |        |                                                                                                                       |
| QUEUED MESAGES                | 0x0020 | Retrieves queued messages or status message if no message is in queue                                                 |
| STATUS MESSAGES               | 0x0030 | Retrieves current Warning/Error messages                                                                              |
| <b>RDM Information</b>        |        |                                                                                                                       |
| SUPPORTED PARAMETERS          | 0x0050 | Retrieves a list of all supported RDM commands                                                                        |
| PARAMETER DESCRIPTION         | 0x0051 | Retrieves a list of all RDM commands                                                                                  |
| <b>Product Information</b>    |        |                                                                                                                       |
| DEVICE INFO                   | 0x0060 | Retrieves a variety of information about the device that is normally required by a controller.                        |
| DEVICE MODEL DESCRIPTION      | 0x0080 | Text description of up to 32 characters for the device model type.                                                    |
| MANUFACTURER LABEL            | 0x0081 | This parameter provides an ASCII text response with the Manufacturer name for the device. "LUPO" is the default name. |
| FACTORY DEFAULTS              | 0x0090 | Set the device to its factory defaults. Get: Check if settings still in default state -> 1 if default                 |
| SOFTWARE VERSION LABEL        | 0x00C0 | Retrieves software version string of main software                                                                    |

| <b>DMX512 Setup</b>          |        |                                                         |
|------------------------------|--------|---------------------------------------------------------|
| DMX PERSONALITY              | 0x00E0 | DMX mode                                                |
| DMX PERSONALITY DESCRIPTION  | 0x00E1 | Shows a description of a DMX-Mode, max 32 characters    |
| DMX START ADDRESS            | 0x00F0 | DMX address                                             |
| <b>Control</b>               |        |                                                         |
| IDENTIFY DEVICE              | 0x1000 | The identify flag (flashes the light)                   |
| <b>Manufacturer Commands</b> |        |                                                         |
| DISPLAY TIMEOUT              | 0x8002 | 0: 30 sec 1: 1 min 2: always on                         |
| DMX SIGNAL LOST MODE         | 0x8003 | 0: black out 1: last settings on 2: last settings 1 min |
| DMX BITS                     | 0x8004 | 0: 8 bit 1: 16 bit                                      |
| CCT LIMIT                    | 0x8005 | 0: 2800-10000 1: 3200-5600                              |
| LINEARIZATION                | 0x8006 | 0: linear 1: exponential 2: logarithmic                 |

## DEVICE SETTINGS

1. Press the **2** push button to enter the main MENU.
2. Navigate through the MENU rotating the **2** button, select **DEVICE SETTINGS**, press the **2** push button to confirm the selection.
3. Navigate through the MENU rotating the **2** button, select **GENERAL**, press the **2** push button to confirm the selection.
4. Navigate through the **FAN POWER / DISPLAY / FREQUENCY / FILTER / LINEARIZATION / CCT LIMIT** functions, rotating the **2** button to select the desired function and press the **2** push button to confirm the selection.
5. Within each function select the option to be activated and rotate the **2** button.

**Display:** Time during which the display backlight stays on. **30sec / 1min / ALWAYS ON.**

**Frequency:** Dimmer frequency 18 KHz - 25 KHz

**Filter:** It is the speed response of the system (smooth factor).

**FULL SPEED / NORMAL SPEED / HIGH SPEED / LOW SPEED.**

**Linearization:** Linearization is the compensation curve for the human eye's perception of the luminous intensity emitted as a function of the required power. Required power = dimmer value on the display. **LINEAR / EXPONENTIAL / LOGARITHMIC.**

**Linear:** No compensation, the intensity of the light is directly proportional to requested power.

**Exponential:** The light intensity increases from 0 to 100 exponentially.

**Logarithmic:** The light intensity increases from 0 to 100 logarithmically.

**CCT Limit:** CCT range 2800 - 6500 or 3200 - 5600

## RESET DEVICE

1. Press the « **OK** » **2** button to enter the main MENU.
2. Select **RESET DEVICE** rotating the **2** button, press the **2** push button to confirm the selection.
3. Select **YES** rotating the **2** button, press the **2** push button to confirm the selection.
4. The device ask for further confirmation, select **YES** by pressing the press the **2** push button. **THE DEVICE RETURNS TO FACTORY DEFAULT SETTINGS.**

## FACTORY DEFAULT SETTING

### MODE

CCT

### DMX OPERATION

BIT: 8 BIT

DMX SIGNAL LOSS: Settings 1 MIN

RDM ENABLE: OFF

INV - CCT: OFF

### DEVICE SETTINGS

DISPLAY: 1 min

FILTER : Normal speed

LINEARIZATION: Linear

FREQUENCY: 18 KHz

### CONTROL

Manual

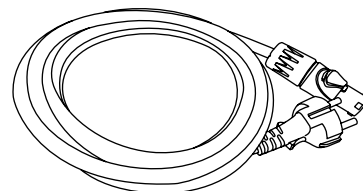
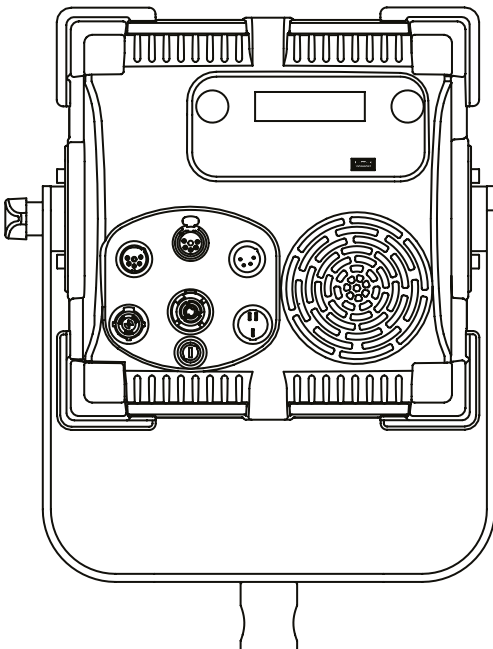
## USB PORT

Use USB port for firmware updates.

## Update the Firmware

1. Copy the file on an USB Pendrive (FAT32 formatted) in the main root;
2. Switch off the equipment and insert the USB Pendrive;
3. Switch on the equipment;
4. Wait until display backlight stop flashing (it takes several minutes and display backligh must toggle for all time long);
5. Switch off the equipment;
6. Extract the Pendrive and switch on the equipment: the firmware is updated.

## Package Contents for ActionpanelPRO

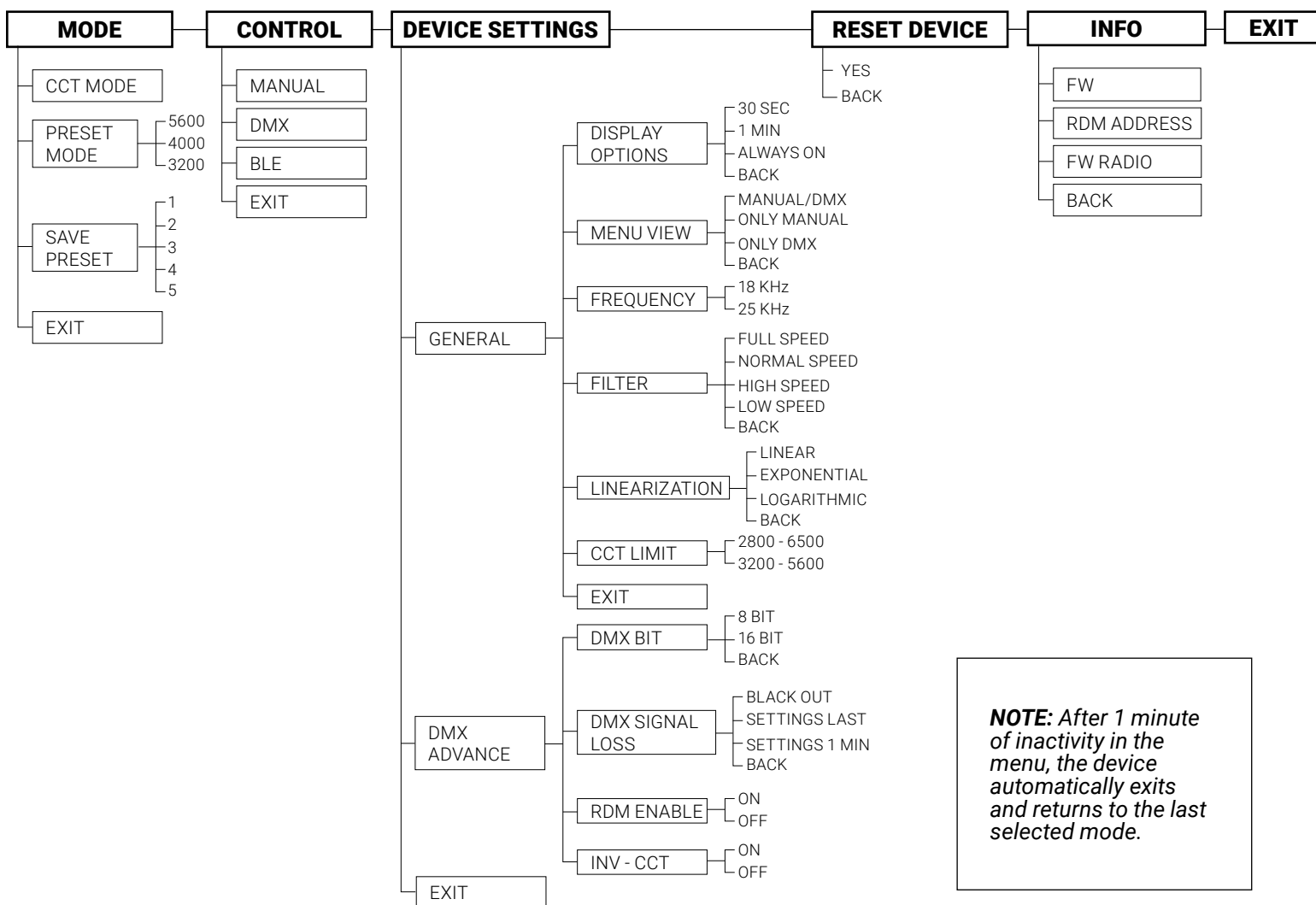


**AC Power  
Cord Cable**

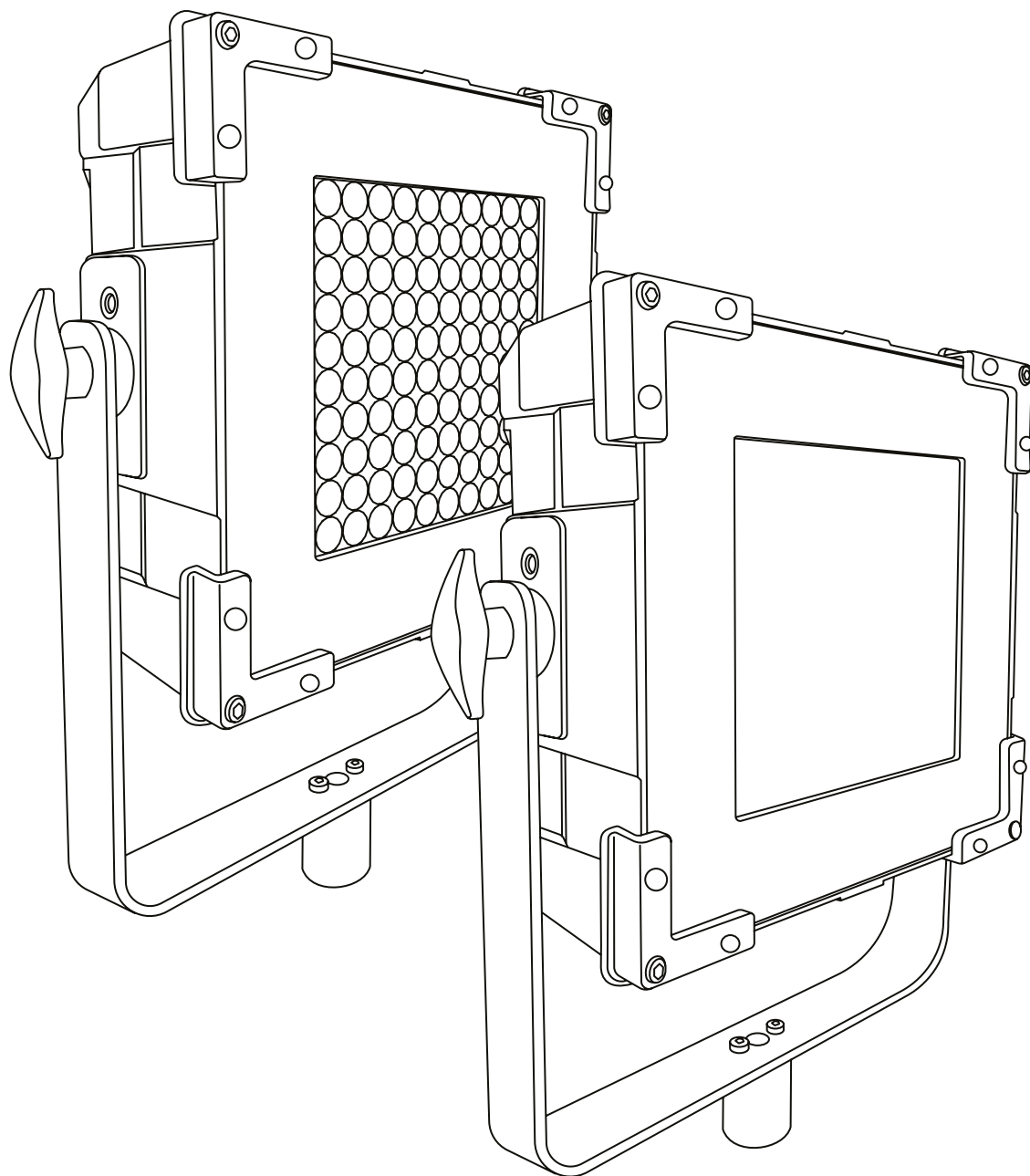
**⚠ ATTENTION:** Please keep the original package of the product in a safe place for warranty reasons.

## MENU e submenus

- Select **"EXIT"** to return to the current mode.
- Select **"BACK"** to return to the previous menu.



**NOTE:** After 1 minute of inactivity in the menu, the device automatically exits and returns to the last selected mode.



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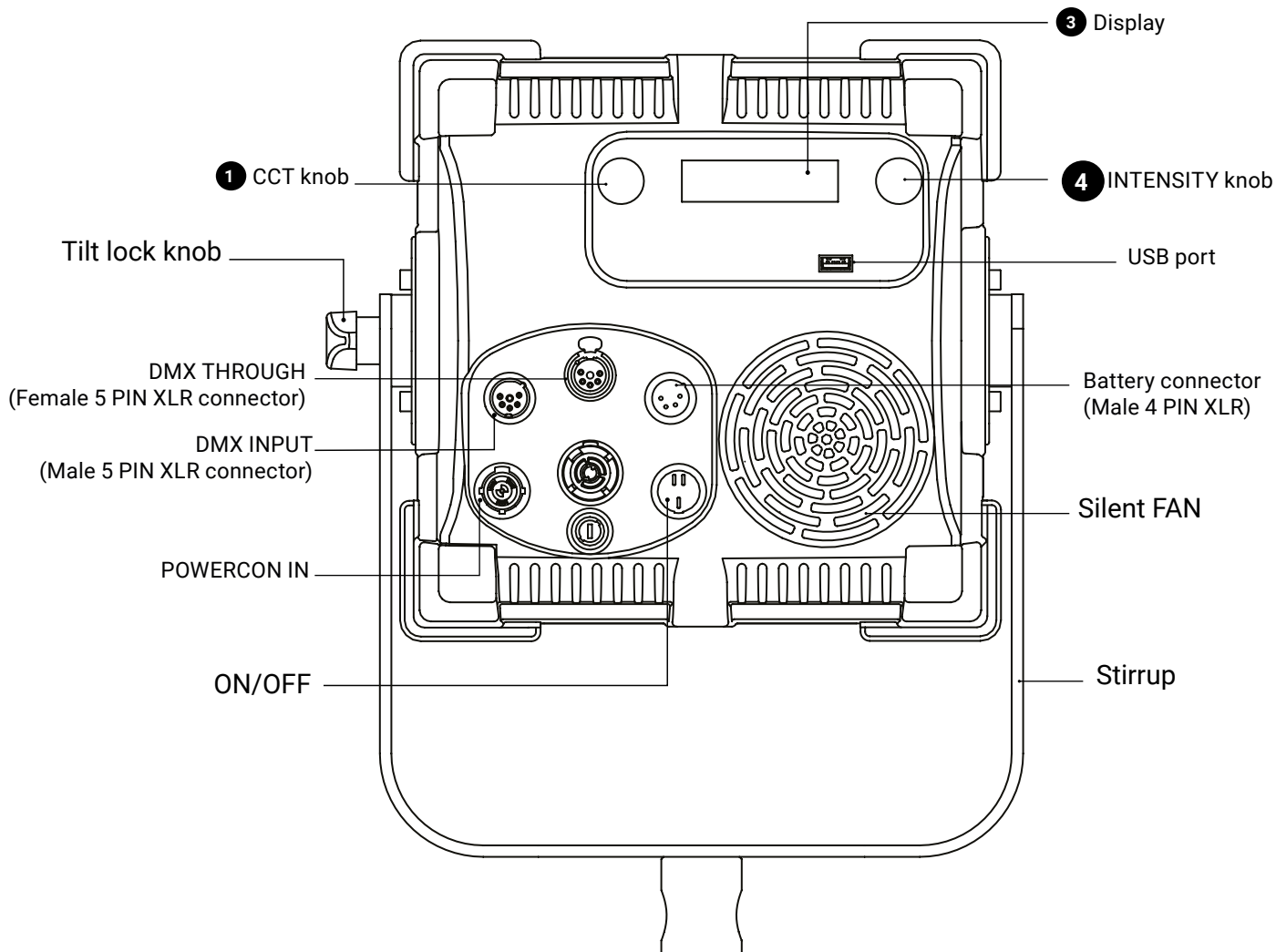
## User Manuals

**602 PRO ActionpanelPRO Full Color Hard**  
**604 PRO ActionpanelPRO Full Color Soft**

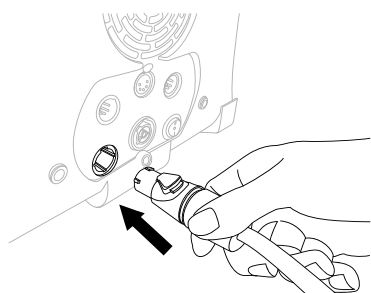
## Instructions

- Device for indoor use only.
- Maximum ambient temperature: 40 °C.
- Make sure power supply plug is suitable to power required.
- As prescribed by international regulations, a safety cable must be used when the fixture is suspended from ceiling.
- To switch on the light push the on/off button.
- ActionpanelPRO models are equipped with new generation high quality poweredleds.

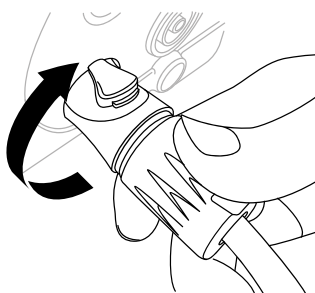
## Getting Started with the ActionpanelPRO



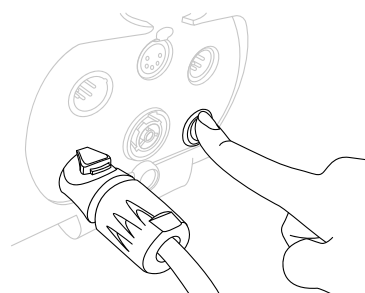
## Turning on the ActionpanelPRO



**1** Insert the POWERCON



**2** Rotate it by 15° until makes a click



**3** Turn ON the power switch:  
0 : OFF  
I : AC power  
II : Battery power

## CONTROL PANEL

- In current mode press the ➊ push button to enter the main MENU.
- In the sub-menus press the ➋ push button to confirm a selection.
- Rotate the ➌ knob to navigate in the main MENU and sub-menus.
- Use the « **INTENSITY** » ➍ knob to adjust the *light intensity from 0 to 100%*.
- Use the knob ➎ to adjust the light mode parameters.
- Display ➏.

## MODE

1. Press the ➊ push button to enter the main MENU.
2. Select **MODE** by pressing the ➋ push button.
3. Select the light mode among **CCT** with the ➌ knob and press the ➋ push button to confirm selection.
4. Select among **CCT / HSI / RGBW / PRESET / EFFECT / SAVE PRESET** with the ➌ knob and press the ➋ push button to confirm selection
5. See **LIGHT MODES**.

## LIGHT MODES

| MODE   | INTENSITY ➍                       | CCT/HUE ➌            | GN/SAT/COLOR ➎                | GN/SAT/COLOR ➎                |
|--------|-----------------------------------|----------------------|-------------------------------|-------------------------------|
| CCT    | Light Intensity<br>from 0 to 100% | CT 2800 K to 10000 K | GN - 1.00 to + 1.00           | -                             |
| HSI    |                                   | HUE 0° to 100°       | SAT 0 to 100%                 | -                             |
| RGBW   |                                   | -                    | Select function R/G/B/W/CT/GN | Change values of the function |
| PRESET |                                   | -                    | -                             | Change Preset                 |

**CCT MODE:** Warm and cold white control mode. It allows you to adjust colour temperature (CCT), green/magenta compensation (GN) and light intensity. *This is the default setting.*

1. In MODE menu select **EFFECT MODE**.
2. Select the EFFECT to be activated with rotate the ➌ button, confirm the selection by pressing the ➋ push button.
3. Use the knob ➍ to change the DIMMER and the knob ➎ to adjust the effect setting values.

**⚠ ATTENTION:** Rotating the ➎ knob changes the CT value- Pressing ➎ button select GN value that can be changed by rotating the same ➎ knob.

## DMX OPERATIONS

1. Press the ➊ push button to enter the main MENU.
2. Select **CONTROL** with the ➌ knob and press the ➋ push button to confirm selection.
3. Select **DMX** with the ➌ knob and press the ➋ push button to confirm selection.
4. Select the DMX channel, rotating the ➎ knob to change DMX ADDRESS in ascending or descending order among 1 and 512. The number shown on the display ➏ is the selected channel to communicate with the control desk.
5. See **DMX PROTOCOL MANUAL** for DMX channel specification.

**NOTE:** The symbol - ! - on the display indicates that there is **no DMX signal**.

## BLUETOOTH

1. Press the ➊ push button to enter the main MENU.
1. Select **CONTROL** with the ➌ knob and press the ➋ push button to confirm selection.
2. Select **BLE** with the ➌ knob and press the ➋ push button to confirm selection.

## DMX OPERATIONS - Advanced Settings

1. Press the **2** push button to enter the main MENU.
2. Navigate through the main MENU with the **2** knob until **DEVICE SETTINGS** and press the **2** push button to confirm selection.
3. Rotate the **2** knob to select **DMX ADVANCED**, press the **2** push button to confirm selection.
4. Select one of the options among the **DMX BIT**, **DMX SIGNAL LOSS**, **RDM ENABLE**, **STROBE ENABLE** and **INV CCT** press **2** push button to confirm the selection.

### DMX BIT:

Resolution of the DMX control. 8bit 1 channel per function and 16 bit 2 channels per function.

1. Select the **DMX BIT** item by pressing the **2** push button.
2. Rotate the **2** knob to choose between **8bit / 16bit**, press the **2** push button to confirm the selected setting. See **DMX PROTOCOL MANUAL**.

### DMX SIGNAL LOSS:

This feature allows to choose the device's behaviour in case of a DMX signal loss.

1. Select the **LOSS DMX SIGNAL** item with the **2** push button
2. Rotate the **2** knob to select the device's behaviour among **BLACK OUT /SETTINGS LAST / SETTINGS 1min**, press the **2** push button to confirm the setting.

**Black out:** The device switches off.

**Settings Last:** The values of the last selected setting are maintained over time until the device is switched off.

**Settings 1min:** The values of the last selected settings is maintained for one minute and then the device switch off.

**RDM Enable:** ON/OFF, enable/disable RDM Protocol

**INV CCT:** ON/FF: enable/disable reversal CCT console control

# DMX Protocol

## Introduction

The ActionpanelPRO models can be used with 8 bit or 16 bit DMX control. (See *DMX OPERATION - advanced settings* in the user's manual). When used in **8 bit mode** the panels uses **one channel for each function**. DMX values for each channel are in the range of 0 to 255. When used in **16 bit mode** the panels uses **two channels for each function**. The increased resolution offers a smooth dimming and a more accurate color adjustment. DMX values for the first channel (byte 1) are in the range of 256 to 65535 while for the second channel (byte 2) they are in the range of 0 to 255.

**⚠ ATTENTION:** The symbol - ! - on the display indicates that there is **no DMX signal**.

**⚠ ATTENTION:** \* If the **STROBE** in the DMX ADVANCED SETTINGS is enabled, there are 1 more channel in 8 bit and 2 more channels in 16 bit:

## DMX Channel Protocol - 8 bit

| MODE | CHANNELS | DMX CHANNEL POSITION | DMX VALUE | VALUE           |
|------|----------|----------------------|-----------|-----------------|
| CCT  | 3/4*     | 1. DIMMER            | 0 - 255   | 0 - 100 %       |
|      |          | 2. COLOR TEMPERATURE | 0 - 255   | 6500 - 2700     |
|      |          | 3. GN COMPENSATION   | 0 ÷ 5     | Ø               |
|      |          |                      | 6 ÷ 255   | - 1,00 ÷ + 1,00 |
|      |          | 4. *STROBE CONTROL   | 0 ÷ 5     | Ø               |
|      |          |                      | 6 ÷ 255   | 1 ÷ 25 Hz       |



|        |      |                      |           |                |
|--------|------|----------------------|-----------|----------------|
| HSI    | 3/4* | 1. DIMMER            | 0 - 255   | 0 ÷ 100 %      |
|        |      | 2. HUE               | 0 ÷ 253   | 0 ÷ 360        |
|        |      | 3. SATURATION        | 0 ÷ 255   | 0 ÷ 100 %      |
|        |      | 4. *STROBE CONTROL   | 0 ÷ 255   | 0 - 25 Hz      |
| RGBW   | 7/8* | 1. DIMMER            | 0 - 255   | 0 ÷ 100 %      |
|        |      | 2. RED               | 0 ÷ 255   | 0 ÷ 100 %      |
|        |      | 3. GREEN             | 0 ÷ 255   | 0 ÷ 100 %      |
|        |      | 4. BLUE              | 0 ÷ 255   | 0 ÷ 100 %      |
|        |      | 5. WHITE             | 0 ÷ 255   | 0 ÷ 100 %      |
|        |      | 6. COLOR TEMPERATURE | 0 - 255   | 6500 - 2700    |
|        |      | 7. GN COMPENSATION   | 0 ÷ 5     | Ø              |
|        |      | 8. * STROBE CONTROL  | 6 ÷ 255   | - 1.00 ÷ +1.00 |
| FRGBW  | 7/8* | 1. DIMMER            | 0 - 255   | 0 ÷ 100 %      |
|        |      | 2. RED               | 0 ÷ 255   | 0 ÷ 100 %      |
|        |      | 3. GREEN             | 0 ÷ 255   | 0 ÷ 100 %      |
|        |      | 4. BLUE              | 0 ÷ 255   | 0 ÷ 100 %      |
|        |      | 5. WHITE             | 0 ÷ 255   | 0 ÷ 100 %      |
|        |      | 6. COLOR TEMPERATURE | 0 - 255   | 6500 - 2700    |
|        |      | 7. GN COMPENSATION   | 0 ÷ 5     | Ø              |
|        |      | 8. * STROBE CONTROL  | 6 ÷ 255   | - 1.00 ÷ +1.00 |
| PRESET | 3/4* | 1. DIMMER            | 0 - 255   | 0 ÷ 100 %      |
|        |      | 2. PRESET            | 0 ÷ 255   | 0 ÷ N PRESET   |
|        |      | 3. PRESET FREEZE     | 0 - 50    | NO FREEZE      |
|        |      |                      | 200 ÷ 255 | FREEZE         |
|        |      | 4. * STROBE CONTROL  | 0 ÷ 255   | 0 - 25 Hz      |

### DMX Channel Protocol - 16 bit

| MODE | CHANNELS | DMX CHANNEL POSITION          | DMX VALUE    | VALUE           |
|------|----------|-------------------------------|--------------|-----------------|
| CCT  | 6/8*     | 1. DIMMER - byte 1            | 0 - 65535    | 0 ÷ 100 %       |
|      |          | 2. DIMMER - byte 2            |              |                 |
|      |          | 3. COLOR TEMPERATURE - byte 1 | 0 - 65535    | 6500 - 2700     |
|      |          | 4. COLOR TEMPERATURE - byte 2 |              |                 |
|      |          | 5. GN COMPENSATION - byte 1   | 0 ÷ 500      | Ø               |
|      |          | 6. GN COMPENSATION - byte 2   | 501 ÷ 65535  | - 1.00 ÷ + 1.00 |
|      |          | 7. *STROBE CONTROL - byte 1   | 0 ÷ 1300     | Ø               |
|      |          | 8. *STROBE CONTROL - byte 2   | 1301 ÷ 65535 | 1 ÷ 25 Hz       |
| HSI  | 6/8*     | 1. DIMMER - byte 1            | 0 - 65535    | 0 ÷ 100 %       |
|      |          | 2. DIMMER - byte 2            |              |                 |
|      |          | 3. HUE - byte 1               | 0 ÷ 65535    | 0 ÷ 360         |
|      |          | 4. HUE - byte 2               |              |                 |
|      |          | 5. SATURATION - byte 1        | 0 ÷ 65535    | 0 ÷ 100%        |
|      |          | 6. SATURATION - byte 2        |              |                 |
|      |          | 7. *STROBE CONTROL - byte 1   | 0 ÷ 1300     | Ø               |
|      |          | 8. *STROBE CONTROL - byte 2   | 1301 ÷ 65535 | 1 ÷ 25 Hz       |
| RGBW | 14/16*   | 1. DIMMER - byte 1            | 0 - 65535    | 0 ÷ 100 %       |
|      |          | 2. DIMMER - byte 2            |              |                 |
|      |          | 3. RED - byte 1               | 0 - 65535    | 0 ÷ 100 %       |
|      |          | 4. RED - byte 2               |              |                 |
|      |          | 5. GREEN - byte 1             | 0 + 65535    | 0 ÷ 100 %       |
|      |          | 6. GREEN - byte 2             |              |                 |
|      |          | 7. BLUE - byte 1              | 0 + 65535    | 0 ÷ 100 %       |
|      |          | 8. BLUE - byte 2              |              |                 |
|      |          | 9. WHITE - byte 1             | 0 + 65535    | 0 ÷ 100 %       |
|      |          | 10. WHITE - byte 2            |              |                 |
|      |          | 11. COLOR TEMPERAT. - byte 1  | 0 - 65535    | 6500 - 2700     |
|      |          | 12. COLOR TEMPERAT. - byte 2  |              |                 |

|        |        |                              |                       |                         |
|--------|--------|------------------------------|-----------------------|-------------------------|
| RGBW   | 14/16* | 13. GN COMPENSATION - byte 1 | 0 ÷ 500               | Ø                       |
|        |        | 14. GN COMPENSATION - byte 2 | 501 ÷ 65535           | -1,00 ÷ + 1,00          |
|        |        | 15. *STROBE CONTROL - byte 1 | 0 ÷ 1300              | Ø                       |
|        |        | 16. *STROBE CONTROL - byte 2 | 1301 ÷ 65535          | 1 ÷ 25 Hz               |
| FRGBW  | 14/16* | 1. DIMMER - byte 1           | 0 - 65535             | 0 ÷ 100 %               |
|        |        | 2. DIMMER - byte 2           |                       |                         |
|        |        | 3. RED - byte 1              | 0 ÷ 65535             | 0 ÷ 100 %               |
|        |        | 4. RED - byte 2              |                       |                         |
|        |        | 5. GREEN - byte 1            | 0 ÷ 65535             | 0 ÷ 100 %               |
|        |        | 6. GREEN - byte 2            |                       |                         |
|        |        | 7. BLUE - byte 1             | 0 ÷ 65535             | 0 ÷ 100 %               |
|        |        | 8. BLUE - byte 2             |                       |                         |
|        |        | 9. WHITE - byte 1            | 0 ÷ 65535             | 0 ÷ 100 %               |
|        |        | 10. WHITE - byte 2           |                       |                         |
|        |        | 11. COLOR TEMPERAT. - byte 1 | 0 - 65535             | 6500 - 2700             |
|        |        | 12. COLOR TEMPERAT. - byte 2 |                       |                         |
|        |        | 13. GN COMPENSATION - byte 1 | 0 ÷ 500               | Ø                       |
|        |        | 14. GN COMPENSATION - byte 2 | 501 ÷ 65535           | -1,00 ÷ + 1,00          |
|        |        | 15. *STROBE CONTROL - byte 1 | 0 ÷ 1300              | Ø                       |
|        |        | 16. *STROBE CONTROL - byte 2 | 1301 ÷ 65535          | 1 ÷ 25 Hz               |
| PRESET | 6/8*   | 1. DIMMER - byte 1           | 0 - 65535             | 0 ÷ 100 %               |
|        |        | 2. DIMMER - byte 2           |                       |                         |
|        |        | 3. PRESET - byte 1           | 0 ÷ 65535             | 0 ÷ N PRESET            |
|        |        | 4. PRESET - byte 2           |                       |                         |
|        |        | 5. PRESET FREEZE - byte 1    | 0 - 12800 > no freeze | 51200 ÷ 65535<br>freeze |
|        |        | 6. PRESET FREEZE - byte 2    |                       |                         |
|        |        | 7. *STROBE CONTROL - byte 1  | 0 ÷ 1300              | Ø                       |
|        |        | 8. *STROBE CONTROL - byte 2  | 1301 ÷ 65535          | 1 ÷ 25 Hz               |

# RDM

## Protocol Specification

| COMMAND                      | PID    | DESCRIPTION                                         |
|------------------------------|--------|-----------------------------------------------------|
| Manufacturer ID              | 0x0622 | Manufacturer identification number (LUPO Lighting). |
| <b>Device Identification</b> |        |                                                     |
| <b>Model ID</b>              |        | <b>Model identification number</b>                  |
|                              | 1      | DayledPRO 650 mono color                            |
|                              | 2      | DayledPRO 650 dual color                            |
|                              | 3      | DayledPRO 1000 mono color                           |
|                              | 4      | DayledPRO 1000 dual color                           |
|                              | 5      | DayledPRO 2000 mono color                           |
|                              | 6      | DayledPRO 2000 dual color                           |
|                              | 7      | SuperpanelPRO 30 dual color soft                    |
|                              | 8      | SuperpanelPRO 30 dual color hard                    |
|                              | 9      | SuperpanelPRO 30 full color soft                    |
|                              | 10     | SuperpanelPRO 30 full color hard                    |
|                              | 11     | SuperpanelPRO 60 dual color soft                    |
|                              | 12     | SuperpanelPRO 60 dual color hard                    |
|                              | 13     | SuperpanelPRO 60 full color soft                    |

|                               |      |                                  |
|-------------------------------|------|----------------------------------|
|                               | 14   | SuperpanelPRO 60 full color hard |
|                               | 15   | ActionpanelPRO dual color soft   |
|                               | 16   | ActionpanelPRO dual color hard   |
|                               | 17   | ActionpanelPRO full color soft   |
|                               | 18   | ActionpanelPRO full color hard   |
|                               | 19   | Kickasspanel dual color          |
|                               | 20   | Kickasspanel full color          |
|                               | 21   | Lupoled monocolor                |
|                               | 22   | Lupoled dualcolor                |
|                               | 23   | MovielightPRO 300 monocolor      |
|                               | 24   | MovielightPRO 300 dual color     |
|                               | 25   | UltrapanelPRO 30 dual color soft |
|                               | 26   | UltrapanelPRO 30 dual color hard |
|                               | 27   | UltrapanelPRO 60 full color soft |
|                               | 28   | UltrapanelPRO 60 full color hard |
|                               | 29   | UltrapanelPRO 30 full color soft |
|                               | 30   | UltrapanelPRO 30 full color hard |
|                               | 31   | UltrapanelPRO 60 dual color soft |
|                               | 32   | UltrapanelPRO 60 dual color hard |
|                               | 33   | DayledPRO 650 PRO Full Color     |
|                               | 34   | DayledPRO 1000 PRO Full Color    |
|                               | 35   | DayledPRO 2000 PRO Full Color    |
|                               | 36   | DayledPRO 3000 full color        |
|                               | 37   | Movielight 300 full color        |
|                               | 38   | DayledPRO 3000 mono color        |
|                               | 39   | DayledPRO 3000 dual color        |
|                               | 40   | MovielightPRO 600 dual color     |
|                               | 41   | DayledPRO 5000 monocolor         |
|                               | 42   | DayledPRO 5000 dual color        |
|                               | 43   | DayledPRO 5000 full color        |
|                               | 44   | HyperpanelPRO 30 dual color soft |
|                               | 45   | HyperpanelPRO 30 dual color hard |
|                               | 46   | HyperpanelPRO 60 dual color soft |
|                               | 47   | HyperpanelPRO 60 dual color hard |
|                               | 48   | MovielightPRO 600 full color     |
| <b>Personality MONOCOLOR</b>  |      | <b>DMX Personality</b>           |
|                               | 0x01 | CCT                              |
| <b>Personality DUAL COLOR</b> |      | <b>DMX Personality</b>           |
|                               | 0x01 | CCT                              |
|                               | 0x02 | PRESET                           |
| <b>Personality FULL COLOR</b> |      | <b>DMX Personality</b>           |
|                               | 0x01 | CCT                              |
|                               | 0x02 | HSI                              |
|                               | 0x03 | RGBW                             |
|                               | 0x04 | FRGBW                            |
|                               | 0x05 | PRESET                           |

|                              |        |                                                                                                                       |
|------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Network management</b>    |        |                                                                                                                       |
| DISC UNIQUE BRANCH           | 0x0001 | Search RDM devices                                                                                                    |
| DISC MUTE                    | 0x0002 | Mute RDM device, no response message                                                                                  |
| DISC UN MUTE                 | 0x0003 | Activate RDM device fo response message                                                                               |
| <b>Status collection</b>     |        |                                                                                                                       |
| QUEUED MESSAGES              | 0x0020 | Retrieves queued messages or status message if no message is in queue                                                 |
| STATUS MESSAGES              | 0x0030 | Retrieves current Warning/Error messages                                                                              |
| <b>RDM Information</b>       |        |                                                                                                                       |
| SUPPORTED PARAMETERS         | 0x0050 | Retrieves a list of all supported RDM commands                                                                        |
| PARAMETER DESCRIPTION        | 0x0051 | Retrieves a list of all RDM commands                                                                                  |
| <b>Product Information</b>   |        |                                                                                                                       |
| DEVICE INFO                  | 0x0060 | Retrieves a variety of information about the device that is normally required by a controller.                        |
| DEVICE MODEL DESCRIPTION     | 0x0080 | Text description of up to 32 characters for the device model type.                                                    |
| MANUFACTURER LABEL           | 0x0081 | This parameter provides an ASCII text response with the Manufacturer name for the device. "LUPO" is the default name. |
| FACTORY DEFAULTS             | 0x0090 | Set the device to its factory defaults. Get: Check if settings still in default state -> 1 if default                 |
| SOFTWARE VERSION LABEL       | 0x00C0 | Retrieves software version string of main software                                                                    |
| <b>DMX512 Setup</b>          |        |                                                                                                                       |
| DMX PERSONALITY              | 0x00E0 | DMX mode                                                                                                              |
| DMX PERSONALITY DESCRIPTION  | 0x00E1 | Shows a description of a DMX-Mode, max 32 characters                                                                  |
| DMX START ADDRESS            | 0x00F0 | DMX address                                                                                                           |
| <b>Control</b>               |        |                                                                                                                       |
| IDENTIFY DEVICE              | 0x1000 | The identify flag (flashes the light)                                                                                 |
| <b>Manufacturer Commands</b> |        |                                                                                                                       |
| DISPLAY TIMEOUT              | 0x8002 | 0: 30 sec 1: 1 min 2: always on                                                                                       |
| DMX SIGNAL LOST MODE         | 0x8003 | 0: black out 1: last settings on 2: last settings 1 min                                                               |
| DMX BITS                     | 0x8004 | 0: 8 bit 1: 16 bit                                                                                                    |
| CCT LIMIT                    | 0x8005 | 0: 2800-10000 1: 3200-5600                                                                                            |
| LINEARIZATION                | 0x8006 | 0: linear 1: exponential 2: logarithmic                                                                               |

## DEVICE SETTINGS

1. Press the **2** push button to enter the main MENU.
2. Navigate through the MENU rotating the **2** button, select **DEVICE SETTINGS**, press the **2** push button to confirm the selection.
3. Navigate through the MENU rotating the **2** button, select **GENERAL**, press the **2** push button to confirm the selection.
4. Navigate through the **FAN POWER / DISPLAY / FREQUENCY / FILTER / LINEARIZATION / CCT LIMIT** functions, rotating the **2** button to select the desired function and press the **2** push button to confirm the selection.
5. Within each function select the option to be activated and rotate the **2** button.

**Display:** Time during which the display backlight stays on. **30sec / 1min / ALWAYS ON.**

**Frequency:** Dimmer frequency 18 KHz - 25 KHz

**Filter:** It is the speed response of the system (smooth factor).

**FULL SPEED / NORMAL SPEED / HIGH SPEED / LOW SPEED.**

**Linearization:** Linearization is the compensation curve for the human eye's perception of the luminous intensity emitted as a function of the required power. Required power = dimmer value on the display. **LINEAR / EXPONENTIAL / LOGARITHMIC.**

**Linear:** No compensation, the intensity of the light is directly proportional to requested power.

**Exponential:** The light intensity increases from 0 to 100 exponentially.

**Logarithmic:** The light intensity increases from 0 to 100 logarithmically.

**CCT Limit:** CCT range 2800 - 6500 or 3200 - 5600

## RESET DEVICE

1. Press the « **OK** » **2** button to enter the main MENU.
2. Select **RESET DEVICE** rotating the **2** button, press the **2** push button to confirm the selection.
3. Select **YES** rotating the **2** button, press the **2** push button to confirm the selection.
4. The device ask for further confirmation, select **YES** by pressing the press the **2** push button. **THE DEVICE RETURNS TO FACTORY DEFAULT SETTINGS.**

| FACTORY DEFAULT SETTING         |                        |
|---------------------------------|------------------------|
| <b>MODE</b>                     | <b>DEVICE SETTINGS</b> |
| CCT                             | DISPLAY: 1 min         |
| <b>DMX OPERATION</b>            | FILTER : Normal speed  |
| BIT: 8 BIT                      | LINEARIZATION: Linear  |
| DMX SIGNAL LOSS: Settings 1 MIN | FREQUENCY: 18 KHz      |
| RDM ENABLE: OFF                 |                        |
| INV - CCT: OFF                  | <b>CONTROL</b>         |
|                                 | Manual                 |

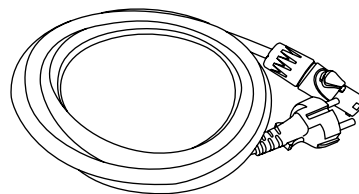
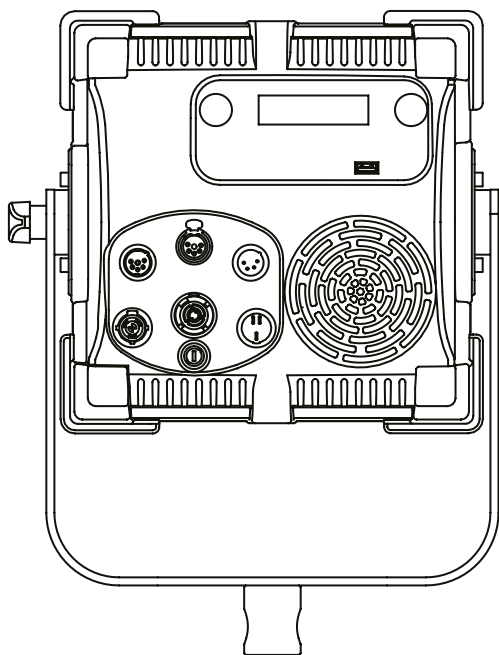
## USB PORT

Use USB port for firmware updates.

## Update the Firmware

1. Copy the file on an USB Pendrive (FAT32 formatted) in the main root;
2. Switch off the equipment and insert the USB Pendrive;
3. Switch on the equipment;
4. Wait until display backlight flashes (it takes several minutes and red led must toggle for all time long);
5. Switch off the equipment;
6. Extract the Pendrive and switch on the equipment: the firmware is updated.

## Package Contents for ActionpanelPRO

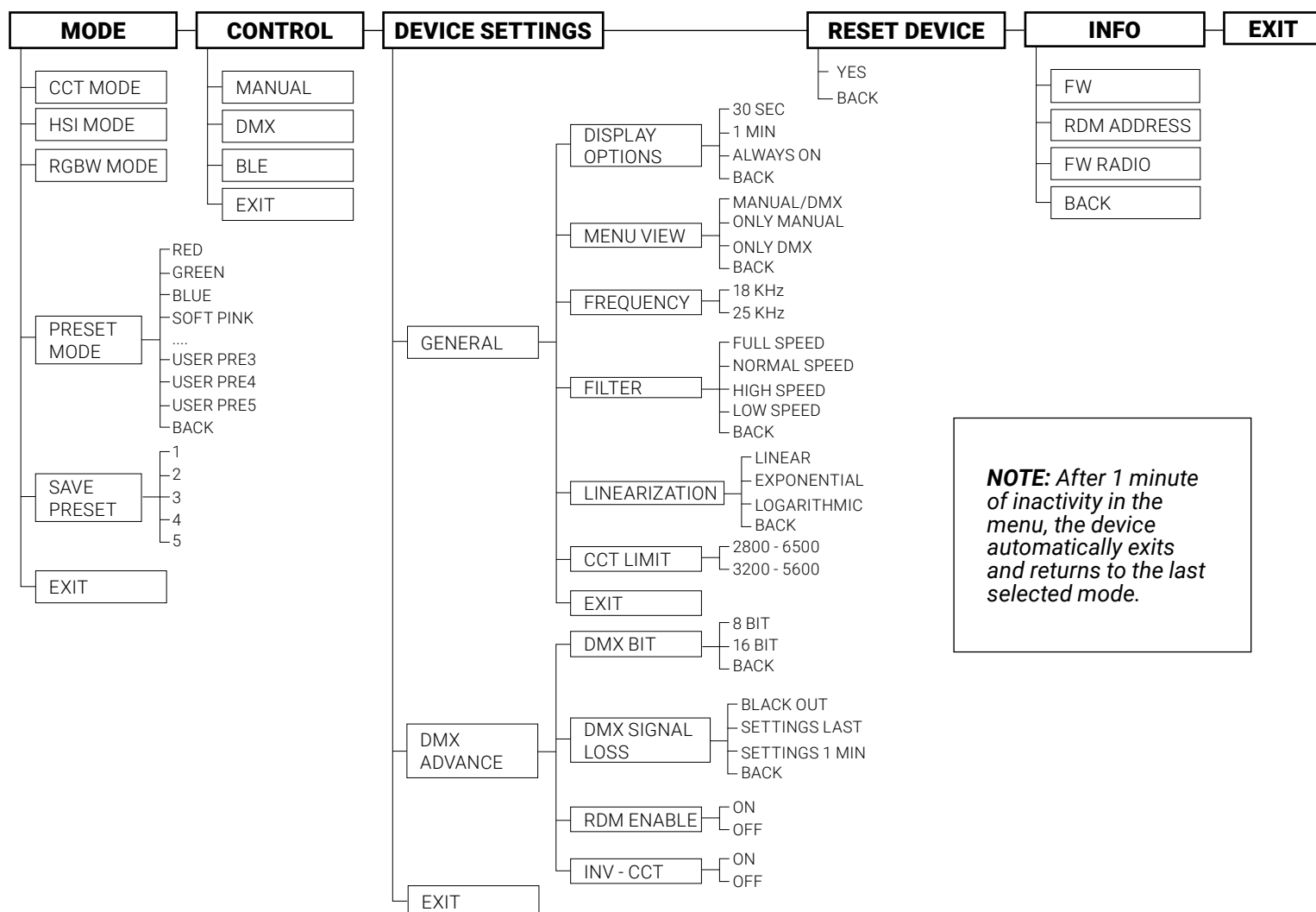


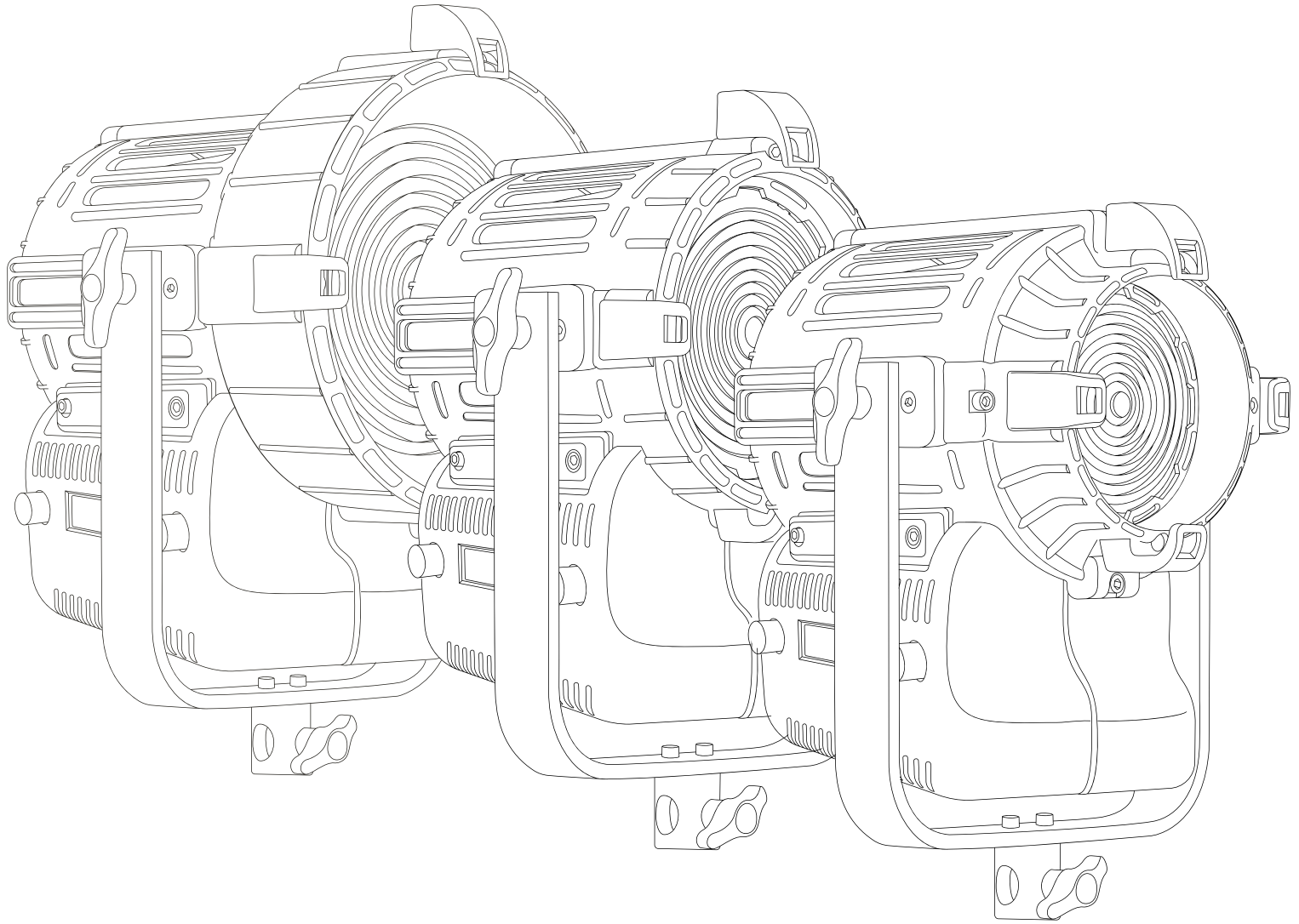
**AC Power  
Cord Cable**

**⚠ ATTENTION:** Please keep the original package of the product in a safe place for warranty reasons.

## MENU e submenus

- Select **"EXIT"** to return to the current mode.
- Select **"BACK"** to return to the previous menu.





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## User Manuals

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### **DayledPRO 650**

**300D PRO / 300T PRO / 303 PRO Dual Color**

### **DayledPRO 1000**

**301D PRO / 301T PRO / 304 PRO Dual Color**

### **DayledPRO 2000**

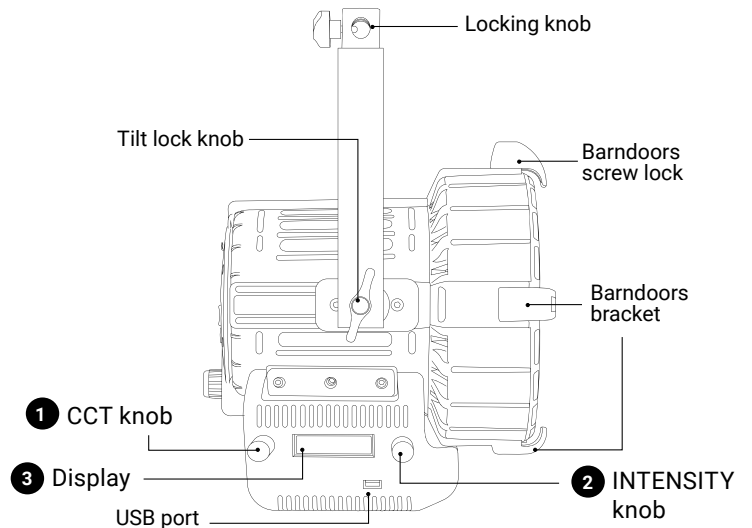
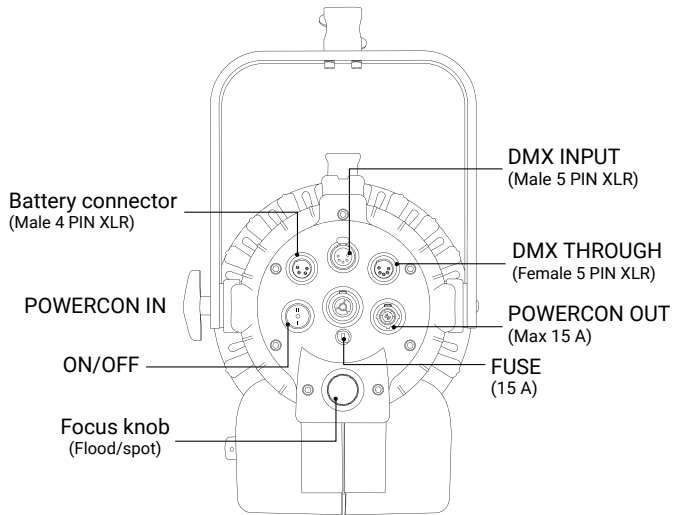
**302D PRO / 302T PRO / 305 PRO Dual Color**

## Instructions

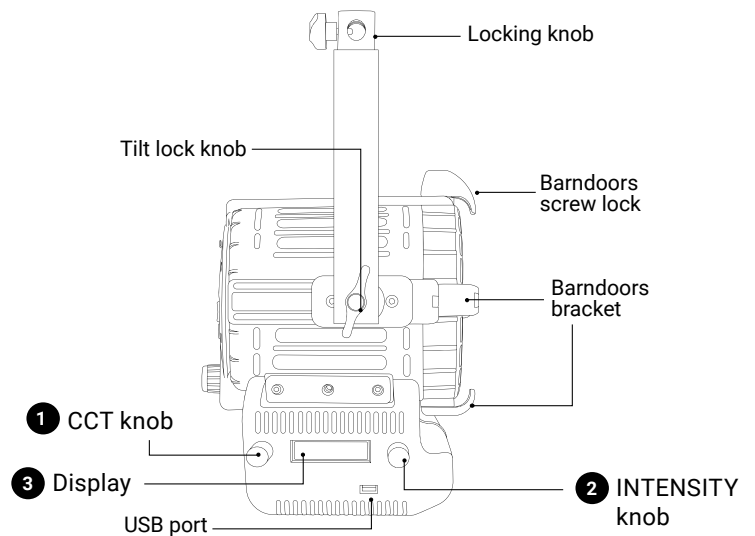
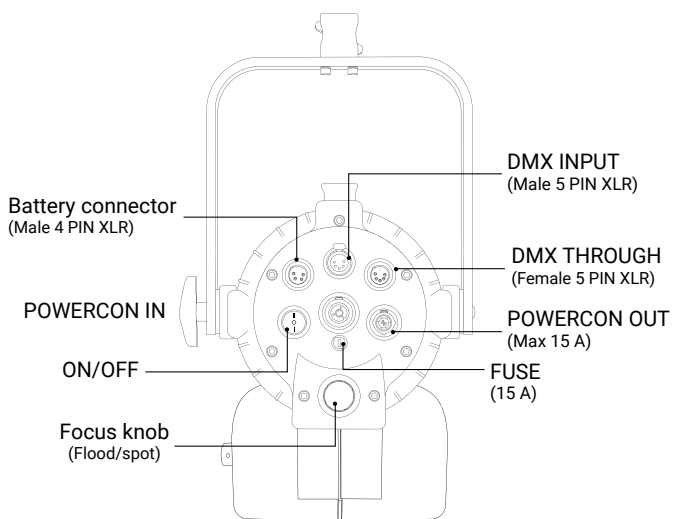
- Max input current for daisy chain: 15 A
- Device for indoor use only.
- Protection standard IP20.
- Maximum ambient temperature: 45 °C.
- Make sure power supply plug is suitable to power required.
- As prescribed by international regulations, a safety cable must be used when the fixture is suspended from ceiling.
- To switch on the light push the on/off button.
- DayledPRO 650 and DayledPRO 1000 models are equipped with new generation high quality LED arrays.
- DayledPRO 650 is equipped with 60 W single LED array.
- DayledPRO 1000 is equipped with 110 W single LED array.
- DayledPRO 2000 is equipped with 220 W single LED array.

## Getting Started with the DayledPRO

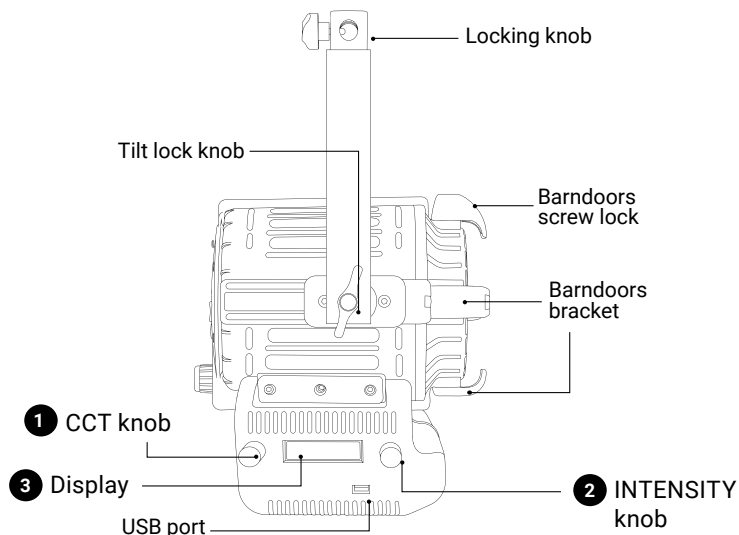
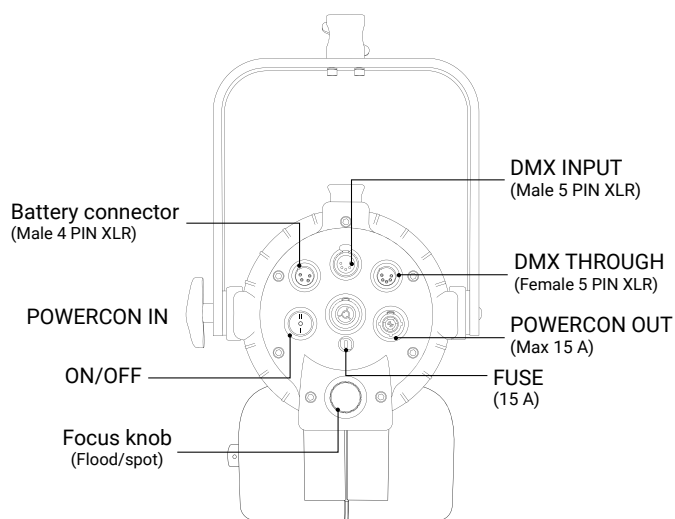
### DayledPRO Full Color 2000



### DayledPRO Full Color 1000







## CONTROL PANEL

- In current mode press the 2 push button to enter the main MENU.
- In the sub-menus press the 2 push button to confirm a selection.
- Rotate the 2 knob to navigate in the main MENU and sub-menus.
- Use the « **INTENSITY** » 2 knob to adjust the **light intensity from 0 to 100%**.
- Use the knob 1 to adjust the light mode parameters.
- Display 3.

## MODE

1. Press the 2 push button to enter the main MENU.
2. Select **MODE** by pressing the 2 push button.
3. Select the light mode among **CCT** with the 2 knob and press the 2 push button to confirm selection.
4. Select among **CCT / PRESET / SAVE PRESET** with the 5 knob and press the 5 push button to confirm selection
5. See **LIGHT MODES**.

## LIGHT MODES

| MODE | INTENSITY 4     | CCT/HUE 5            | GN/SAT/COLOR 6 | GN/SAT/COLOR 6 |
|------|-----------------|----------------------|----------------|----------------|
| CCT  | Light Intensity | CT 2800 K to 10000 K | -              | -              |

**CCT MODE:** Warm and cold white control mode. It allows you to adjust colour temperature (CCT), and light intensity. *This is the default setting.*

**⚠ ATTENTION:** Rotating the 1 knob changes the CT value- Pressing 1 button select GN value that can be changed by rotating the same 1 knob.

## DMX OPERATIONS

1. Press the 2 push button to enter the main MENU.
2. Select **CONTROL** with the 2 knob and press the 2 push button to confirm selection.
3. Select **DMX** with the 2 knob and press the 2 push button to confirm selection.
4. Select the DMX channel, rotating the 1 knob to change DMX ADDRESS in ascending or descending order among 1 and 512. The number shown on the display 3 is the selected channel to communicate with the control desk.
5. See **DMX PROTOCOL MANUAL** for DMX channel specification.

**NOTE:** The symbol - ! - on the display indicates that there is **no DMX signal**.

## BLUETOOTH

1. Press the **2** push button to enter the main MENU.
1. Select **CONTROL** with the **2** knob and press the **2** push button to confirm selection.
2. Select **BLE** with the **2** knob and press the **2** push button to confirm selection.

## DMX OPERATIONS - Advanced Settings

1. Press the **2** push button to enter the main MENU.
2. Navigate through the main MENU with the **2** knob until **DEVICE SETTINGS** and press the **2** push button to confirm selection.
3. Rotate the **2** knob to select **DMX ADVANCED**, press the **2** push button to confirm selection.
4. Select one of the options among the **DMX BIT**, **DMX SIGNAL LOSS**, **RDM ENABLE**, **STROBE ENABLE** and **INV CCT** press **2** push button to confirm the selection.

### DMX BIT:

Resolution of the DMX control. 8bit 1 channel per function and 16 bit 2 channels per function.

1. Select the **DMX BIT** item by pressing the **2** push button.
2. Rotate the **2** knob to choose between **8bit / 16bit**, press the **2** push button to confirm the selected setting. See **DMX PROTOCOL MANUAL**.

### DMX SIGNAL LOSS:

This feature allows to choose the device's behaviour in case of a DMX signal loss.

1. Select the **LOSS DMX SIGNAL** item with the **2** push button
2. Rotate the **2** knob to select the device's behaviour among **BLACK OUT /SETTINGS LAST / SETTINGS 1min**, press the **2** push button to confirm the setting.

**Black out:** The device switches off.

**Settings Last:** The values of the last selected setting are maintained over time until the device is switched off.

**Settings 1min:** The values of the last selected settings is maintained for one minute and then the device switch off.

**RDM Enable:** ON/OFF, enable/disable RDM Protocol

**INV CCT:** ON/FF: enable/disable reversal CCT console control

# DMX Protocol

## Introduction

The DatledPRO models can be used with 8 bit or 16 bit DMX control. (See **DMX OPERATION - advanced settings** in the user's manual). When used in **8 bit mode** the panels uses **one channel for each function**. DMX values for each channel are in the range of 0 to 255. When used in **16 bit mode** the panels uses **two channels for each function**. The increased resolution offers a smooth dimming and a more accurate color adjustment. DMX values for the first channel (byte 1) are in the range of 256 to 65535 while for the second channel (byte 2) they are in the range of 0 to 255.

**⚠ ATTENTION:** The symbol - ! - on the display indicates that there is **no DMX signal**.

**⚠ ATTENTION:** \* If the **STROBE** in the DMX ADVANCED SETTINGS is enabled, there are 1 more channel in 8 bit and 2 more channels in 16 bit:

## DMX Channel Protocol - 8 bit

| MODE | CHANNELS | DMX CHANNEL POSITION | DMX VALUE | VALUE       |
|------|----------|----------------------|-----------|-------------|
| CCT  | 2/3*     | 1. DIMMER            | 0 - 255   | 0 - 100 %   |
|      |          | 2. COLOR TEMPERATURE | 0 - 255   | 6500 - 2700 |
|      |          | 3. *STROBE CONTROL   | 0 ÷ 5     | Ø           |
|      |          |                      | 6 ÷ 255   | 1 ÷ 25 Hz   |

## DMX Channel Protocol - 16 bit

| MODE | CHANNELS | DMX CHANNEL POSITION          | DMX VALUE    | VALUE       |
|------|----------|-------------------------------|--------------|-------------|
| CCT  | 4/6*     | 1. DIMMER - byte 1            | 0 - 65535    | 0 ÷ 100 %   |
|      |          | 2. DIMMER - byte 2            |              |             |
|      |          | 3. COLOR TEMPERATURE - byte 1 | 0 - 65535    | 6500 - 2700 |
|      |          | 4. COLOR TEMPERATURE - byte 2 |              |             |
|      |          | 5. *STROBE CONTROL - byte 1   | 0 ÷ 1300     | Ø           |
|      |          | 6. *STROBE CONTROL - byte 2   | 1301 ÷ 65535 | 1 ÷ 25 Hz   |

# RDM Protocol Specification

| COMMAND               | PID    | DESCRIPTION                                         |
|-----------------------|--------|-----------------------------------------------------|
| Manufacturer ID       | 0x0622 | Manufacturer identification number (LUPO Lighting). |
| Device Identification |        |                                                     |
| Model ID              |        | Model identification number                         |
|                       | 1      | DayledPRO 650 mono color                            |
|                       | 2      | DayledPRO 650 dual color                            |
|                       | 3      | DayledPRO 1000 mono color                           |
|                       | 4      | DayledPRO 1000 dual color                           |
|                       | 5      | DayledPRO 2000 mono color                           |
|                       | 6      | DayledPRO 2000 dual color                           |
|                       | 7      | SuperpanelPRO 30 dual color soft                    |
|                       | 8      | SuperpanelPRO 30 dual color hard                    |
|                       | 9      | SuperpanelPRO 30 full color soft                    |
|                       | 10     | SuperpanelPRO 30 full color hard                    |
|                       | 11     | SuperpanelPRO 60 dual color soft                    |
|                       | 12     | SuperpanelPRO 60 dual color hard                    |
|                       | 13     | SuperpanelPRO 60 full color soft                    |
|                       | 14     | SuperpanelPRO 60 full color hard                    |
|                       | 15     | ActionpanelPRO dual color soft                      |
|                       | 16     | ActionpanelPRO dual color hard                      |
|                       | 17     | ActionpanelPRO full color soft                      |
|                       | 18     | ActionpanelPRO full color hard                      |
|                       | 19     | Kickasspanel dual color                             |

|                               |        |                                                                       |
|-------------------------------|--------|-----------------------------------------------------------------------|
|                               | 20     | Kickasspanel full color                                               |
|                               | 21     | Lupoled monocolor                                                     |
|                               | 22     | Lupoled dualcolor                                                     |
|                               | 23     | MovielightPRO 300 monocolor                                           |
|                               | 24     | MovielightPRO 300 dual color                                          |
|                               | 25     | UltrapanelPRO 30 dual color soft                                      |
|                               | 26     | UltrapanelPRO 30 dual color hard                                      |
|                               | 27     | UltrapanelPRO 60 full color soft                                      |
|                               | 28     | UltrapanelPRO 60 full color hard                                      |
|                               | 29     | UltrapanelPRO 30 full color soft                                      |
|                               | 30     | UltrapanelPRO 30 full color hard                                      |
|                               | 31     | UltrapanelPRO 60 dual color soft                                      |
|                               | 32     | UltrapanelPRO 60 dual color hard                                      |
|                               | 33     | DayledPRO 650 PRO Full Color                                          |
|                               | 34     | DayledPRO 1000 PRO Full Color                                         |
|                               | 35     | DayledPRO 2000 PRO Full Color                                         |
|                               | 36     | DayledPRO 3000 full color                                             |
|                               | 37     | Movielight 300 full color                                             |
|                               | 38     | DayledPRO 3000 mono color                                             |
|                               | 39     | DayledPRO 3000 dual color                                             |
|                               | 40     | MovielightPRO 600 dual color                                          |
|                               | 41     | DayledPRO 5000 monocolor                                              |
|                               | 42     | DayledPRO 5000 dual color                                             |
|                               | 43     | DayledPRO 5000 full color                                             |
|                               | 44     | HyperpanelPRO 30 dual color soft                                      |
|                               | 45     | HyperpanelPRO 30 dual color hard                                      |
|                               | 46     | HyperpanelPRO 60 dual color soft                                      |
|                               | 47     | HyperpanelPRO 60 dual color hard                                      |
|                               | 48     | MovielightPRO 600 full color                                          |
| <b>Personality MONOCOLOR</b>  |        | <b>DMX Personality</b>                                                |
|                               | 0x01   | CCT                                                                   |
| <b>Personality DUAL COLOR</b> |        | <b>DMX Personality</b>                                                |
|                               | 0x01   | CCT                                                                   |
|                               | 0x02   | PRESET                                                                |
| <b>Personality FULL COLOR</b> |        | <b>DMX Personality</b>                                                |
|                               | 0x01   | CCT                                                                   |
|                               | 0x02   | HSI                                                                   |
|                               | 0x03   | RGBW                                                                  |
|                               | 0x04   | FRGBW                                                                 |
|                               | 0x05   | PRESET                                                                |
| <b>Network management</b>     |        |                                                                       |
| DISC UNIQUE BRANCH            | 0x0001 | Search RDM devices                                                    |
| DISC MUTE                     | 0x0002 | Mute RDM device, no response message                                  |
| DISC UN MUTE                  | 0x0003 | Activate RDM device fo response message                               |
| <b>Status collection</b>      |        |                                                                       |
| QUEUED MESAGES                | 0x0020 | Retrieves queued messages or status message if no message is in queue |

|                              |        |                                                                                                                       |
|------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------|
| STATUS MESSAGES              | 0x0030 | Retrieves current Warning/Error messages                                                                              |
| <b>RDM Information</b>       |        |                                                                                                                       |
| SUPPORTED PARAMETERS         | 0x0050 | Retrieves a list of all supported RDM commands                                                                        |
| PARAMETER DESCRIPTION        | 0x0051 | Retrieves a list of all RDM commands                                                                                  |
| <b>Product Information</b>   |        |                                                                                                                       |
| DEVICE INFO                  | 0x0060 | Retrieves a variety of information about the device that is normally required by a controller.                        |
| DEVICE MODEL DESCRIPTION     | 0x0080 | Text description of up to 32 characters for the device model type.                                                    |
| MANUFACTURER LABEL           | 0x0081 | This parameter provides an ASCII text response with the Manufacturer name for the device. "LUPO" is the default name. |
| FACTORY DEFAULTS             | 0x0090 | Set the device to its factory defaults. Get: Check if settings still in default state -> 1 if default                 |
| SOFTWARE VERSION LABEL       | 0x00C0 | Retrieves software version string of main software                                                                    |
| <b>DMX512 Setup</b>          |        |                                                                                                                       |
| DMX PERSONALITY              | 0x00E0 | DMX mode                                                                                                              |
| DMX PERSONALITY DESCRIPTION  | 0x00E1 | Shows a description of a DMX-Mode, max 32 characters                                                                  |
| DMX START ADDRESS            | 0x00F0 | DMX address                                                                                                           |
| <b>Control</b>               |        |                                                                                                                       |
| IDENTIFY DEVICE              | 0x1000 | The identify flag (flashes the light)                                                                                 |
| <b>Manufacturer Commands</b> |        |                                                                                                                       |
| DISPLAY TIMEOUT              | 0x8002 | 0: 30 sec 1: 1 min 2: always on                                                                                       |
| DMX SIGNAL LOST MODE         | 0x8003 | 0: black out 1: last settings on 2: last settings 1 min                                                               |
| DMX BITS                     | 0x8004 | 0: 8 bit 1: 16 bit                                                                                                    |
| CCT LIMIT                    | 0x8005 | 0: 2800-10000 1: 3200-5600                                                                                            |
| LINEARIZATION                | 0x8006 | 0: linear 1: exponential 2: logarithmic                                                                               |

## DEVICE SETTINGS

1. Press the **2** push button to enter the main MENU.
2. Navigate through the MENU rotating the **2** button, select **DEVICE SETTINGS**, press the **2** push button to confirm the selection.
3. Navigate through the MENU rotating the **2** button, select **GENERAL**, press the **2** push button to confirm the selection.
4. Navigate through the **FAN POWER / DISPLAY / FREQUENCY / FILTER / LINEARIZATION / CCT LIMIT** functions, rotating the **2** button to select the desired function and press the **2** push button to confirm the selection.
5. Within each function select the option to be activated and rotate the **2** button.

**Display:** Time during which the display backlight stays on. **30sec / 1min / ALWAYS ON.**

**Frequency:** Dimmer frequency 18 KHz - 25 KHz

**Filter:** It is the speed response of the system (smooth factor).

**FULL SPEED / NORMAL SPEED / HIGH SPEED / LOW SPEED.**

**Linearization:** Linearization is the compensation curve for the human eye's perception of the luminous intensity emitted as a function of the required power. Required power = dimmer value on the display. **LINEAR / EXPONENTIAL / LOGARITHMIC.**

**Linear:** No compensation, the intensity of the light is directly proportional to requested power.

**Exponential:** The light intensity increases from 0 to 100 exponentially.

**Logarithmic:** The light intensity increases from 0 to 100 logarithmically.

**CCT Limit:** CCT range 2800 - 6500 or 3200 - 5600

## RESET DEVICE

1. Press the « **OK** » **2** button to enter the main MENU.
2. Select **RESET DEVICE** rotating the **2** button, press the **2** push button to confirm the selection.
3. Select **YES** rotating the **2** button, press the **2** push button to confirm the selection.
4. The device ask for further confirmation, select **YES** by pressing the press the **2** push button. **THE DEVICE RETURNS TO FACTORY DEFAULT SETTINGS.**

### FACTORY DEFAULT SETTING

#### MODE

CCT

#### DMX OPERATION

BIT: 8 BIT

DMX SIGNAL LOSS: Settings 1 MIN

RDM ENABLE: OFF

INV - CCT: OFF

#### DEVICE SETTINGS

DISPLAY: 1 min

FILTER : Normal speed

LINEARIZATION: Linear

FREQUENCY: 18 KHz

#### CONTROL

Manual

## USB PORT

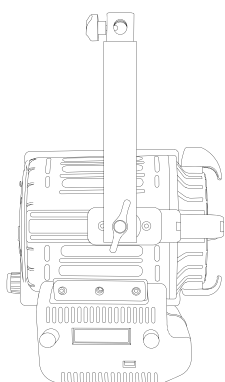
Use USB port for firmware updates.

### Update the Firmware

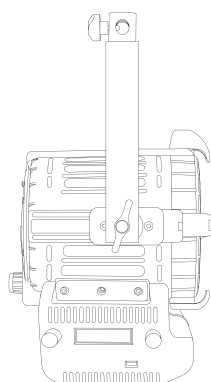
1. Copy the file on an USB Pendrive (FAT32 formatted) in the main root;
2. Switch off the equipment and insert the USB Pendrive;
3. Switch on the equipment;
4. Wait until display backlight stop flashing (it takes several minutes and display backligh must toggle for all time long);
5. Switch off the equipment;
6. Extract the Pendrive and switch on the equipment: the firmware is updated.

### Package Contents for DayledPRO

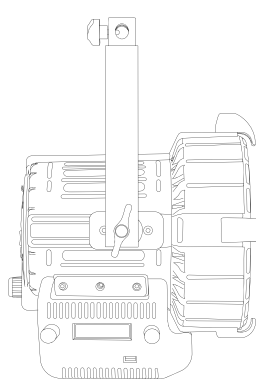
#### DayledPRO models + Barndoors



**DayledPRO 650**



**DayledPRO 1000**



**DayledPRO 2000**

**⚠ ATTENTION:** Please keep the original package of the product in a safe place for warranty reasons.

## ACCESSORIES

The accessories are products sold separately.

### COMPLETE KIT OF V-MOUNT BATTERY POWER SUPPLY FOR DAYLEDPRO

The items are also sold separately.

#### Battery charger (cod.272)

This charger works with Lupo 95 Wh and 160 Wh batteries.

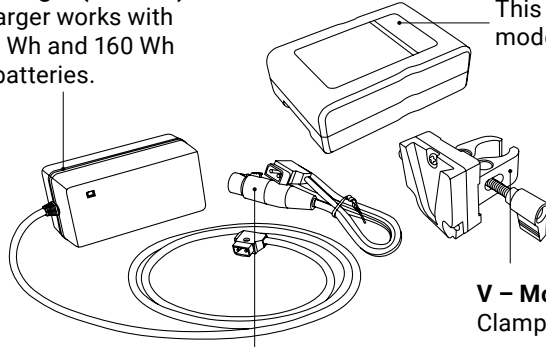
#### DayledPRO 650 / 1000

95 Wh battery (cod.271)

#### Dayled 2000

160 Wh battery (cod.271)

This batteries allows to power all Lupo models with AC/DC functioning.



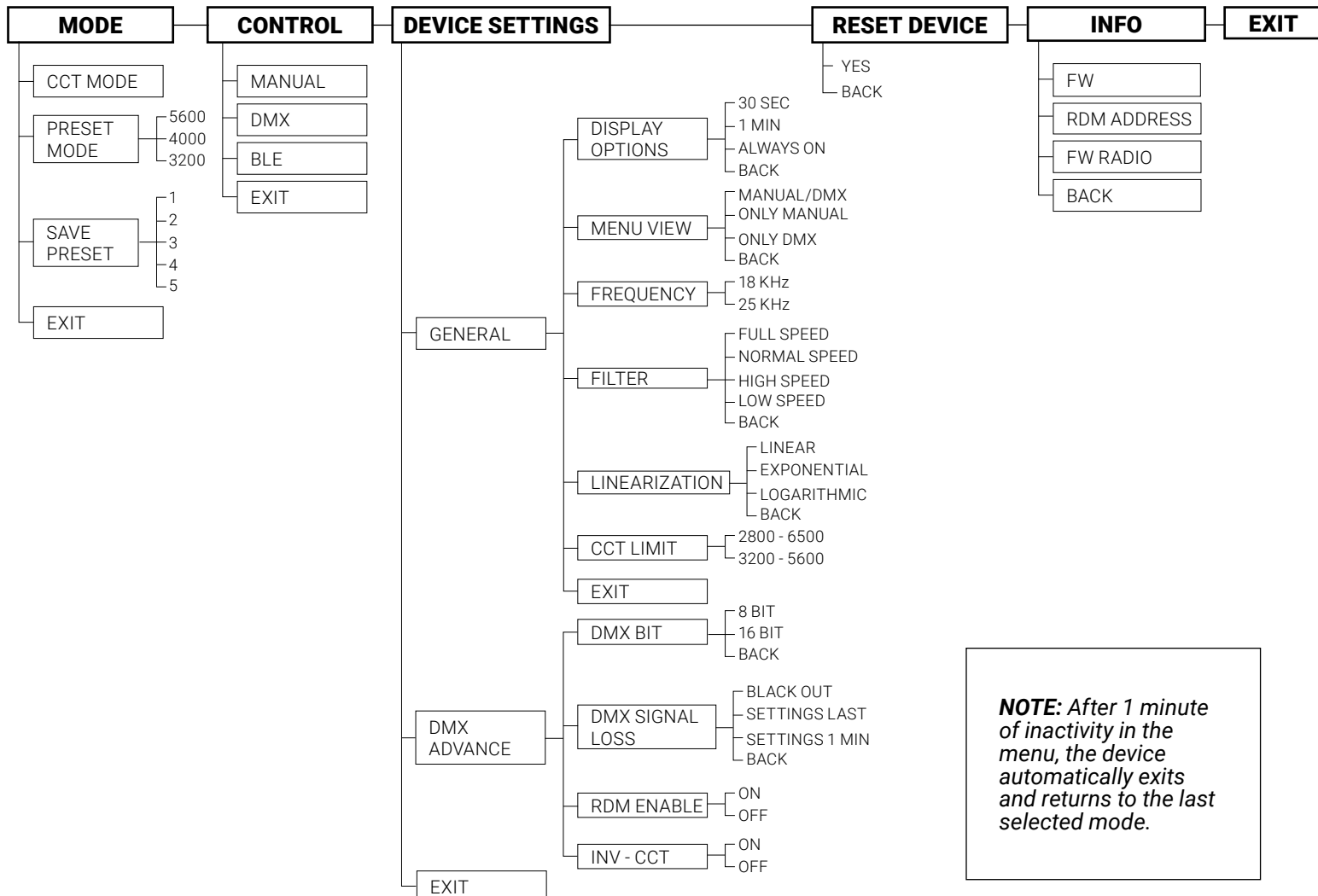
D – Tap cable (cod.313)

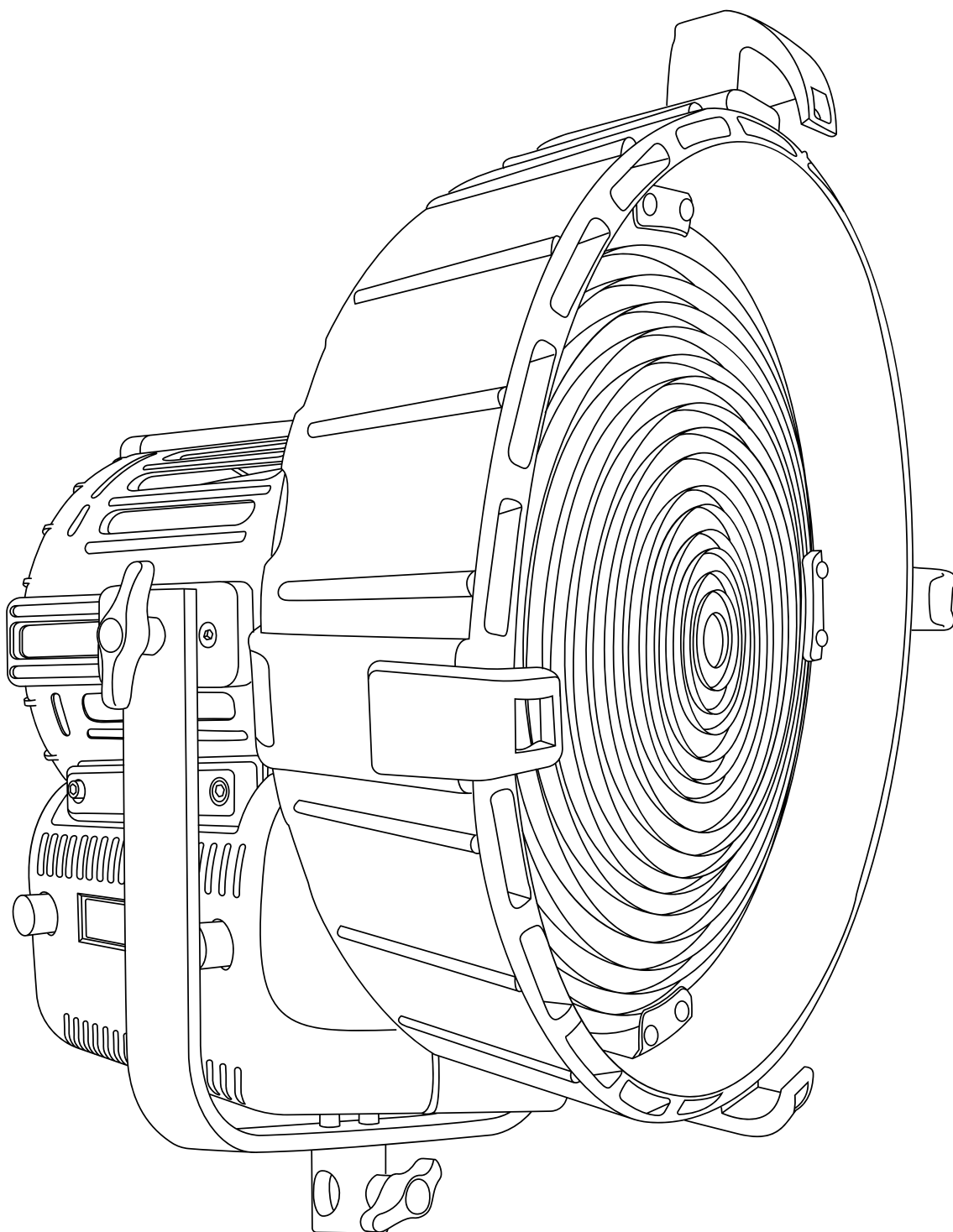
#### V – Mount clamp (cod.320)

Clamp for stand only is an essential accessory for lithium battery powered equipment. It accepts all standard V-Mount batteries.

## MENU e submenus

- Select **"EXIT"** to return to the current mode.
- Select **"BACK"** to return to the previous menu.





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**User Manuals**

# **DayledPRO 3000**

**309D PRO / 309T PRO / 310 PRO**



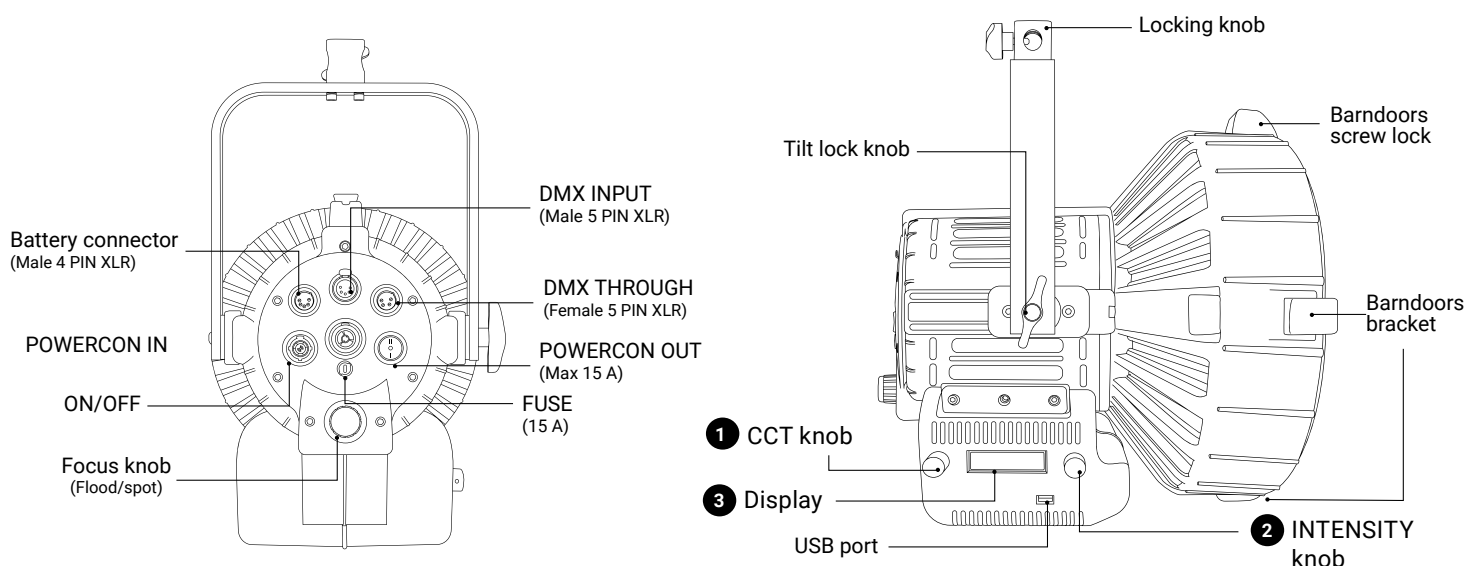


The luminaire should be positioned so that prolonged staring into the luminaire at a distance of 6 m is not expected.

## Instructions

- Max input current for daisy chain: 15 A
- Device for indoor use only.
- Protection standard IP20.
- Maximum ambient temperature: 45 °C.
- Make sure power supply plug is suitable to power required.
- As prescribed by international regulations, a safety cable must be used when the fixture is suspended from ceiling.
- To switch on the light push the on/off button.
- DayledPRO 3000 models are equipped with new generation high quality LED arrays.
- DayledPRO 3000 is equipped with 350 W single LED array.

## Getting Started with the DayledPRO 3000



## CONTROL PANEL

- In current mode press the **2** push button to enter the main MENU.
- In the sub-menus press the **2** push button to confirm a selection.
- Rotate the **2** knob to navigate in the main MENU and sub-menus.
- Use the « **INTENSITY** » **2** knob to adjust the **light intensity from 0 to 100%**.
- Use the knob **1** to adjust the light mode parameters.
- Display **3**.

## MODE

1. Press the **2** push button to enter the main MENU.
2. Select **MODE** by pressing the **2** push button.
3. Select the light mode among **CCT** with the **2** knob and press the **2** push button to confirm selection.
4. Select among **CCT / PRESET / SAVE PRESET** with the **2** knob and press the **2** push button to confirm selection
5. See **LIGHT MODES**.

## LIGHT MODES

| MODE | INTENSITY ④     | CCT/HUE ⑤            | GN/SAT/COLOR ⑥ | GN/SAT/COLOR ⑥ |
|------|-----------------|----------------------|----------------|----------------|
| CCT  | Light Intensity | CT 2800 K to 10000 K | -              | -              |

**CCT MODE:** Warm and cold white control mode. It allows you to adjust colour temperature (CCT), and light intensity. *This is the default setting.*

**⚠ ATTENTION:** Rotating the ① knob changes the CT value- Pressing ① button select GN value that can be changed by rotating the same ① knob.

## DMX OPERATIONS

1. Press the ② push button to enter the main MENU.
2. Select **CONTROL** with the ② knob and press the ② push button to confirm selection.
3. Select **DMX** with the ② knob and press the ② push button to confirm selection.
4. Select the DMX channel, rotating the ① knob to change DMX ADDRESS in ascending or descending order among 1 and 512. The number shown on the display ③ is the selected channel to communicate with the control desk.
5. See **DMX PROTOCOL MANUAL** for DMX channel specification.

**NOTE:** The symbol - ! - on the display indicates that there is **no DMX signal**.

## BLUETOOTH

1. Press the ② push button to enter the main MENU.
1. Select **CONTROL** with the ② knob and press the ② push button to confirm selection.
2. Select **BLE** with the ② knob and press the ② push button to confirm selection.

## DMX OPERATIONS - Advanced Settings

1. Press the ② push button to enter the main MENU.
2. Navigate through the main MENU with the ② knob until **DEVICE SETTINGS** and press the ② push button to confirm selection.
3. Rotate the ② knob to select **DMX ADVANCED**, press the ② push button to confirm selection.
4. Select one of the options among the **DMX BIT**, **DMX SIGNAL LOSS**, **RDM ENABLE**, **STROBE ENABLE** and **INV CCT** press ② push button to confirm the selection.

### DMX BIT:

Resolution of the DMX control. 8bit 1 channel per function and 16 bit 2 channels per function.

1. Select the **DMX BIT** item by pressing the ② push button.
2. Rotate the ② knob to choose between **8bit / 16bit**, press the ② push button to confirm the selected setting. See **DMX PROTOCOL MANUAL**.

### DMX SIGNAL LOSS:

This feature allows to choose the device's behaviour in case of a DMX signal loss.

1. Select the **LOSS DMX SIGNAL** item with the ② push button
2. Rotate the ② knob to select the device's behaviour among **BLACK OUT / SETTINGS LAST / SETTINGS 1min**, press the ② push button to confirm the setting.

**Black out:** The device switches off.

**Settings Last:** The values of the last selected setting are maintained over time until the device is switched off.

**Settings 1min:** The values of the last selected settings is maintained for one minute and then the device switch off.

**RDM Enable:** ON/OFF, enable/disable RDM Protocol

**INV CCT:** ON/FF: enable/disable reversal CCT console control

# DMX Protocol

## Introduction

The DayledPRO models can be used with 8 bit or 16 bit DMX control. (See *DMX OPERATION - advanced settings* in the user's manual). When used in **8 bit mode** the panels uses **one channel for each function**. DMX values for each channel are in the range of 0 to 255. When used in **16 bit mode** the panels uses **two channels for each function**. The increased resolution offers a smooth dimming and a more accurate color adjustment. DMX values for the first channel (byte 1) are in the range of 256 to 65535 while for the second channel (byte 2) they are in the range of 0 to 255.

**⚠ ATTENTION:** The symbol - ! - on the display indicates that there is **no DMX signal**.

**⚠ ATTENTION:** \* If the **STROBE** in the DMX ADVANCED SETTINGS is enabled, there are 1 more channel in 8 bit and 2 more channels in 16 bit:

## DMX Channel Protocol - 8 bit

| MODE | CHANNELS | DMX CHANNEL POSITION | DMX VALUE | VALUE       |
|------|----------|----------------------|-----------|-------------|
| CCT  | 2/3*     | 1. DIMMER            | 0 - 255   | 0 - 100 %   |
|      |          | 2. COLOR TEMPERATURE | 0 - 255   | 6500 - 2700 |
|      |          | 3. *STROBE CONTROL   | 0 ÷ 5     | Ø           |
|      |          |                      | 6 ÷ 255   | 1 ÷ 25 Hz   |

## DMX Channel Protocol - 16 bit

| MODE | CHANNELS | DMX CHANNEL POSITION          | DMX VALUE    | VALUE       |
|------|----------|-------------------------------|--------------|-------------|
| CCT  | 4/6*     | 1. DIMMER - byte 1            | 0 - 65535    | 0 ÷ 100 %   |
|      |          | 2. DIMMER - byte 2            |              |             |
|      |          | 3. COLOR TEMPERATURE - byte 1 | 0 - 65535    | 6500 - 2700 |
|      |          | 4. COLOR TEMPERATURE - byte 2 |              |             |
|      |          | 5. *STROBE CONTROL - byte 1   | 0 ÷ 1300     | Ø           |
|      |          | 6. *STROBE CONTROL - byte 2   | 1301 ÷ 65535 | 1 ÷ 25 Hz   |

# RDM Protocol Specification

| COMMAND                      | PID    | DESCRIPTION                                         |
|------------------------------|--------|-----------------------------------------------------|
| Manufacturer ID              | 0x0622 | Manufacturer identification number (LUPO Lighting). |
| <b>Device Identification</b> |        |                                                     |
| <b>Model ID</b>              |        | <b>Model identification number</b>                  |
|                              | 1      | DayledPRO 650 mono color                            |
|                              | 2      | DayledPRO 650 dual color                            |
|                              | 3      | DayledPRO 1000 mono color                           |
|                              | 4      | DayledPRO 1000 dual color                           |
|                              | 5      | DayledPRO 2000 mono color                           |

|                              |      |                                  |
|------------------------------|------|----------------------------------|
|                              | 6    | DayledPRO 2000 dual color        |
|                              | 7    | SuperpanelPRO 30 dual color soft |
|                              | 8    | SuperpanelPRO 30 dual color hard |
|                              | 9    | SuperpanelPRO 30 full color soft |
|                              | 10   | SuperpanelPRO 30 full color hard |
|                              | 11   | SuperpanelPRO 60 dual color soft |
|                              | 12   | SuperpanelPRO 60 dual color hard |
|                              | 13   | SuperpanelPRO 60 full color soft |
|                              | 14   | SuperpanelPRO 60 full color hard |
|                              | 15   | ActionpanelPRO dual color soft   |
|                              | 16   | ActionpanelPRO dual color hard   |
|                              | 17   | ActionpanelPRO full color soft   |
|                              | 18   | ActionpanelPRO full color hard   |
|                              | 19   | Kickasspanel dual color          |
|                              | 20   | Kickasspanel full color          |
|                              | 21   | Lupoled monocolour               |
|                              | 22   | Lupoled dualcolor                |
|                              | 23   | MovielightPRO 300 monocolour     |
|                              | 24   | MovielightPRO 300 dual color     |
|                              | 25   | UltrapanelPRO 30 dual color soft |
|                              | 26   | UltrapanelPRO 30 dual color hard |
|                              | 27   | UltrapanelPRO 60 full color soft |
|                              | 28   | UltrapanelPRO 60 full color hard |
|                              | 29   | UltrapanelPRO 30 full color soft |
|                              | 30   | UltrapanelPRO 30 full color hard |
|                              | 31   | UltrapanelPRO 60 dual color soft |
|                              | 32   | UltrapanelPRO 60 dual color hard |
|                              | 33   | DayledPRO 650 PRO Full Color     |
|                              | 34   | DayledPRO 1000 PRO Full Color    |
|                              | 35   | DayledPRO 2000 PRO Full Color    |
|                              | 36   | DayledPRO 3000 full color        |
|                              | 37   | Movielight 300 full color        |
|                              | 38   | DayledPRO 3000 mono color        |
|                              | 39   | DayledPRO 3000 dual color        |
|                              | 40   | MovielightPRO 600 dual color     |
|                              | 41   | DayledPRO 5000 monocolour        |
|                              | 42   | DayledPRO 5000 dual color        |
|                              | 43   | DayledPRO 5000 full color        |
|                              | 44   | HyperpanelPRO 30 dual color soft |
|                              | 45   | HyperpanelPRO 30 dual color hard |
|                              | 46   | HyperpanelPRO 60 dual color soft |
|                              | 47   | HyperpanelPRO 60 dual color hard |
|                              | 48   | MovielightPRO 600 full color     |
| <b>Personality MONOCOLOR</b> |      | <b>DMX Personality</b>           |
|                              | 0x01 | CCT                              |

|                               |        |                                                                                                                       |
|-------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Personality DUAL COLOR</b> |        | <b>DMX Personality</b>                                                                                                |
|                               | 0x01   | CCT                                                                                                                   |
|                               | 0x02   | PRESET                                                                                                                |
| <b>Personality FULL COLOR</b> |        | <b>DMX Personality</b>                                                                                                |
|                               | 0x01   | CCT                                                                                                                   |
|                               | 0x02   | HSI                                                                                                                   |
|                               | 0x03   | RGBW                                                                                                                  |
|                               | 0x04   | FRGBW                                                                                                                 |
|                               | 0x05   | PRESET                                                                                                                |
| <b>Network management</b>     |        |                                                                                                                       |
| DISC UNIQUE BRANCH            | 0x0001 | Search RDM devices                                                                                                    |
| DISC MUTE                     | 0x0002 | Mute RDM device, no response message                                                                                  |
| DISC UN MUTE                  | 0x0003 | Activate RDM device fo response message                                                                               |
| <b>Status collection</b>      |        |                                                                                                                       |
| QUEUED MESAGES                | 0x0020 | Retrieves queued messages or status message if no message is in queue                                                 |
| STATUS MESSAGES               | 0x0030 | Retrieves current Warning/Error messages                                                                              |
| <b>RDM Information</b>        |        |                                                                                                                       |
| SUPPORTED PARAMETERS          | 0x0050 | Retrieves a list of all supported RDM commands                                                                        |
| PARAMETER DESCRIPTION         | 0x0051 | Retrieves a list of all RDM commands                                                                                  |
| <b>Product Information</b>    |        |                                                                                                                       |
| DEVICE INFO                   | 0x0060 | Retrieves a variety of information about the device that is normally required by a controller.                        |
| DEVICE MODEL DESCRIPTION      | 0x0080 | Text description of up to 32 characters for the device model type.                                                    |
| MANUFACTURER LABEL            | 0x0081 | This parameter provides an ASCII text response with the Manufacturer name for the device. "LUPO" is the default name. |
| FACTORY DEFAULTS              | 0x0090 | Set the device to its factory defaults. Get: Check if settings still in default state -> 1 if default                 |
| SOFTWARE VERSION LABEL        | 0x00C0 | Retrieves software version string of main software                                                                    |
| <b>DMX512 Setup</b>           |        |                                                                                                                       |
| DMX PERSONALITY               | 0x00E0 | DMX mode                                                                                                              |
| DMX PERSONALITY DESCRIPTION   | 0x00E1 | Shows a description of a DMX-Mode, max 32 characters                                                                  |
| DMX START ADDRESS             | 0x00F0 | DMX address                                                                                                           |
| <b>Control</b>                |        |                                                                                                                       |
| IDENTIFY DEVICE               | 0x1000 | The identify flag (flashes the light)                                                                                 |
| <b>Manufacturer Commands</b>  |        |                                                                                                                       |
| DISPLAY TIMEOUT               | 0x8002 | 0: 30 sec 1: 1 min 2: always on                                                                                       |
| DMX SIGNAL LOST MODE          | 0x8003 | 0: black out 1: last settings on 2: last settings 1 min                                                               |
| DMX BITS                      | 0x8004 | 0: 8 bit 1: 16 bit                                                                                                    |
| CCT LIMIT                     | 0x8005 | 0: 2800-10000 1: 3200-5600                                                                                            |
| LINEARIZATION                 | 0x8006 | 0: linear 1: exponential 2: logarithmic                                                                               |

## DEVICE SETTINGS

1. Press the **2** push button to enter the main MENU.
2. Navigate through the MENU rotating the **2** button, select **DEVICE SETTINGS**, press the **2** push button to confirm the selection.
3. Navigate through the MENU rotating the **2** button, select **GENERAL**, press the **2** push button to confirm the selection.
4. Navigate through the **FAN POWER / DISPLAY / FREQUENCY / FILTER / LINEARIZATION / CCT LIMIT** functions, rotating the **2** button to select the desired function and press the **2** push button to confirm the selection.
5. Within each function select the option to be activated and rotate the **2** button.

**Display:** Time during which the display backlight stays on. **30sec / 1min / ALWAYS ON.**

**Frequency:** Dimmer frequency 18 KHz - 25 KHz

**Filter:** It is the speed response of the system (smooth factor).

**FULL SPEED / NORMAL SPEED / HIGH SPEED / LOW SPEED.**

**Linearization:** Linearization is the compensation curve for the human eye's perception of the luminous intensity emitted as a function of the required power. Required power = dimmer value on the display. **LINEAR / EXPONENTIAL / LOGARITHMIC.**

**Linear:** No compensation, the intensity of the light is directly proportional to requested power.

**Exponential:** The light intensity increases from 0 to 100 exponentially.

**Logarithmic:** The light intensity increases from 0 to 100 logarithmically.

**CCT Limit:** CCT range 2800 - 6500 or 3200 - 5600

## RESET DEVICE

1. Press the « **OK** » **2** button to enter the main MENU.
2. Select **RESET DEVICE** rotating the **2** button, press the **2** push button to confirm the selection.
3. Select **YES** rotating the **2** button, press the **2** push button to confirm the selection.
4. The device ask for further confirmation, select **YES** by pressing the press the **2** push button. **THE DEVICE RETURNS TO FACTORY DEFAULT SETTINGS.**

| FACTORY DEFAULT SETTING         |                        |
|---------------------------------|------------------------|
| <b>MODE</b>                     | <b>DEVICE SETTINGS</b> |
| CCT                             | DISPLAY: 1 min         |
| <b>DMX OPERATION</b>            | FILTER : Normal speed  |
| BIT: 8 BIT                      | LINEARIZATION: Linear  |
| DMX SIGNAL LOSS: Settings 1 MIN | FREQUENCY: 18 KHz      |
| RDM ENABLE: OFF                 |                        |
| INV - CCT: OFF                  | <b>CONTROL</b>         |
|                                 | Manual                 |

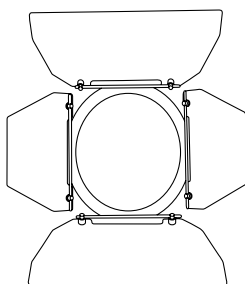
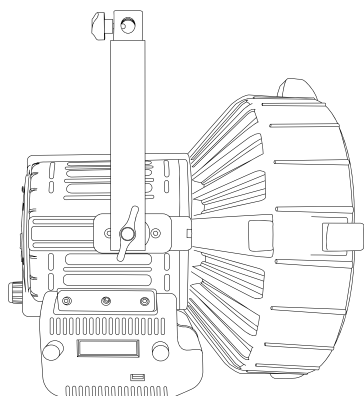
## USB PORT

Use USB port for firmware updates.

## Update the Firmware

1. Copy the file on an USB Pendrive (FAT32 formatted) in the main root;
2. Switch off the equipment and insert the USB Pendrive;
3. Switch on the equipment;
4. Wait until display backlight stop flashing (it takes several minutes and display backligh must toggle for all time long);
5. Switch off the equipment;
6. Extract the Pendrive and switch on the equipment: the firmware is updated.

## Package Contents for DayledPRO 3000



**Barndoors**

**⚠ ATTENTION:** Please keep the original package of the product in a safe place for warranty reasons.

## ACCESSORIES

### COMPLETE KIT OF V-MOUNT BATTERY POWER SUPPLY FOR DAYLEDPRO FULL COLOR 3000.

The items are also sold separately.

**Battery charger (cod.272)**

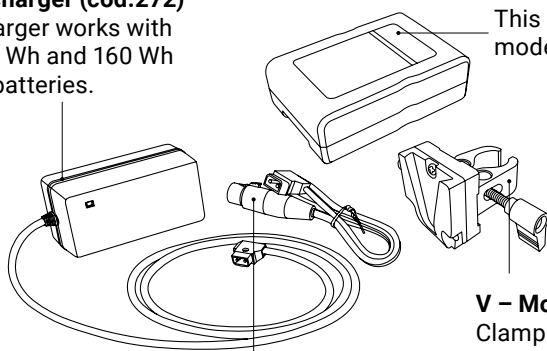
This charger works with Lupo 95 Wh and 160 Wh batteries.

**DayledPRO 650 / 1000  
95 Wh battery (cod.271)**

**Dayled 2000**

**160 Wh battery (cod.271)**

This batteries allows to power all Lupo models with AC/DC functioning.



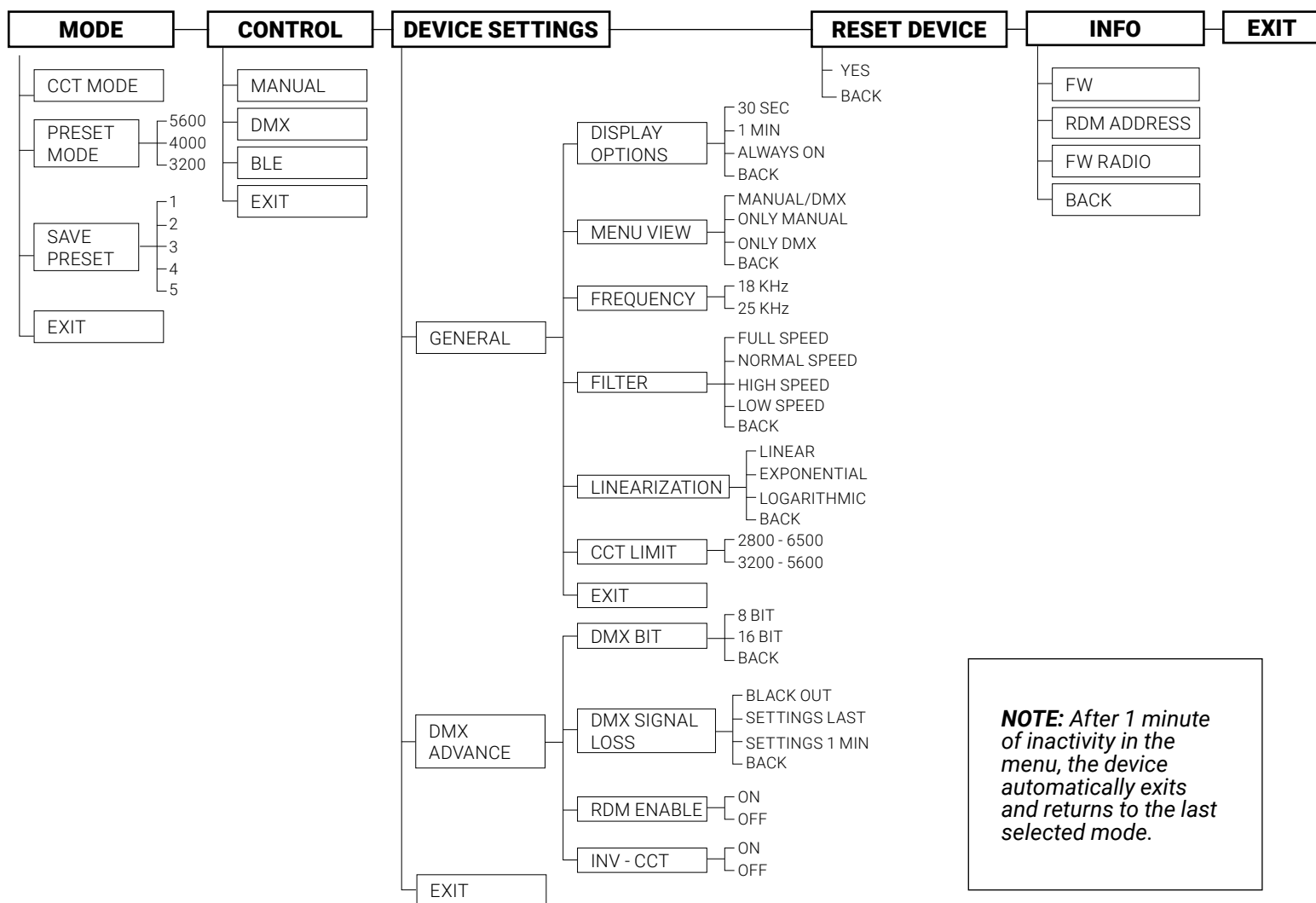
**D – Tap cable (cod.313)**

**V – Mount clamp (cod.320)**

Clamp for stand only is an essential accessory for lithium battery powered equipment. It accepts all standard V-Mount batteries.

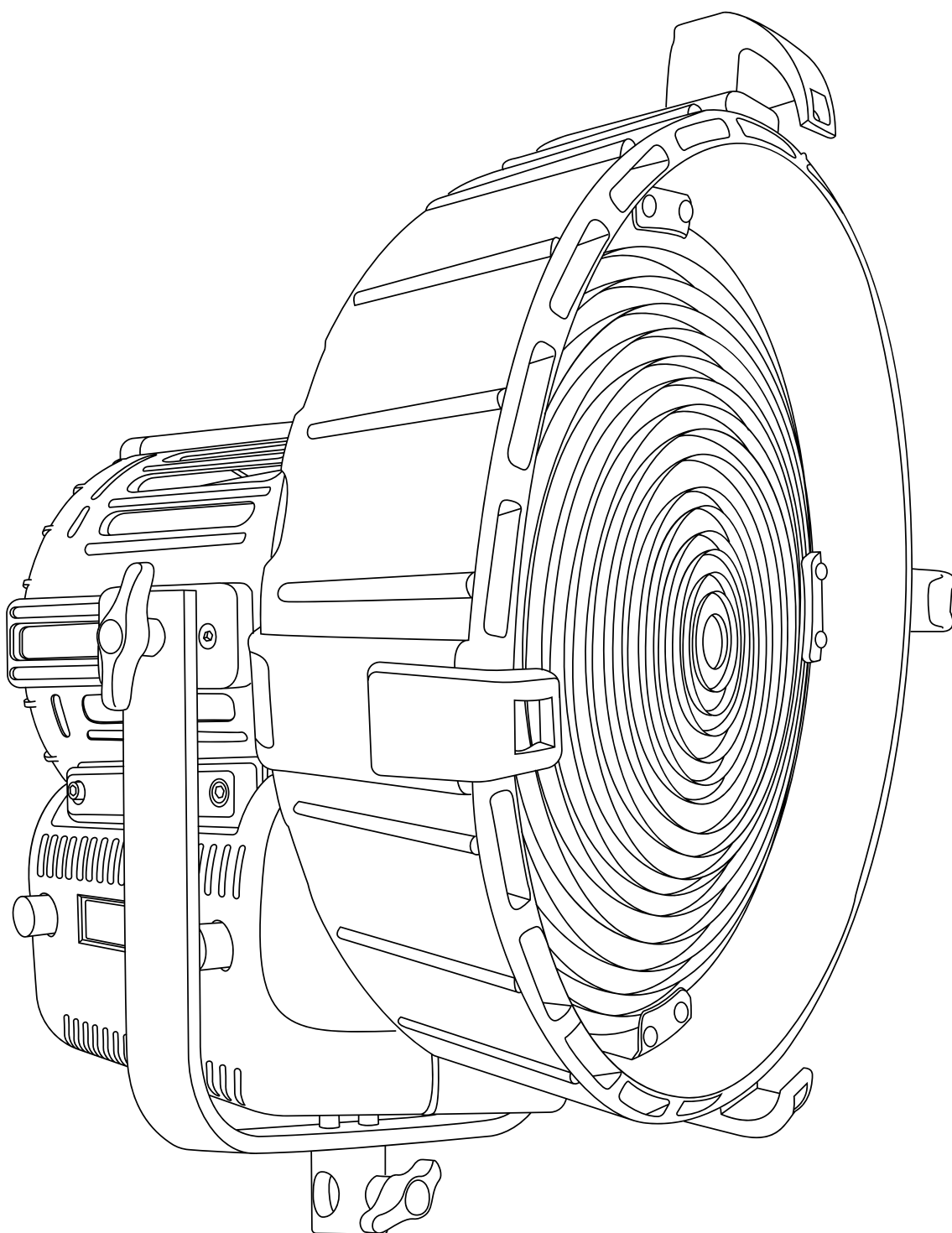
## MENU e submenus

- Select **"EXIT"** to return to the current mode.
- Select **"BACK"** to return to the previous menu.



**NOTE:** After 1 minute of inactivity in the menu, the device automatically exits and returns to the last selected mode.





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**User Manuals**

**DayledPRO 5000**  
**312D PRO / 312T PRO / 316 PRO**

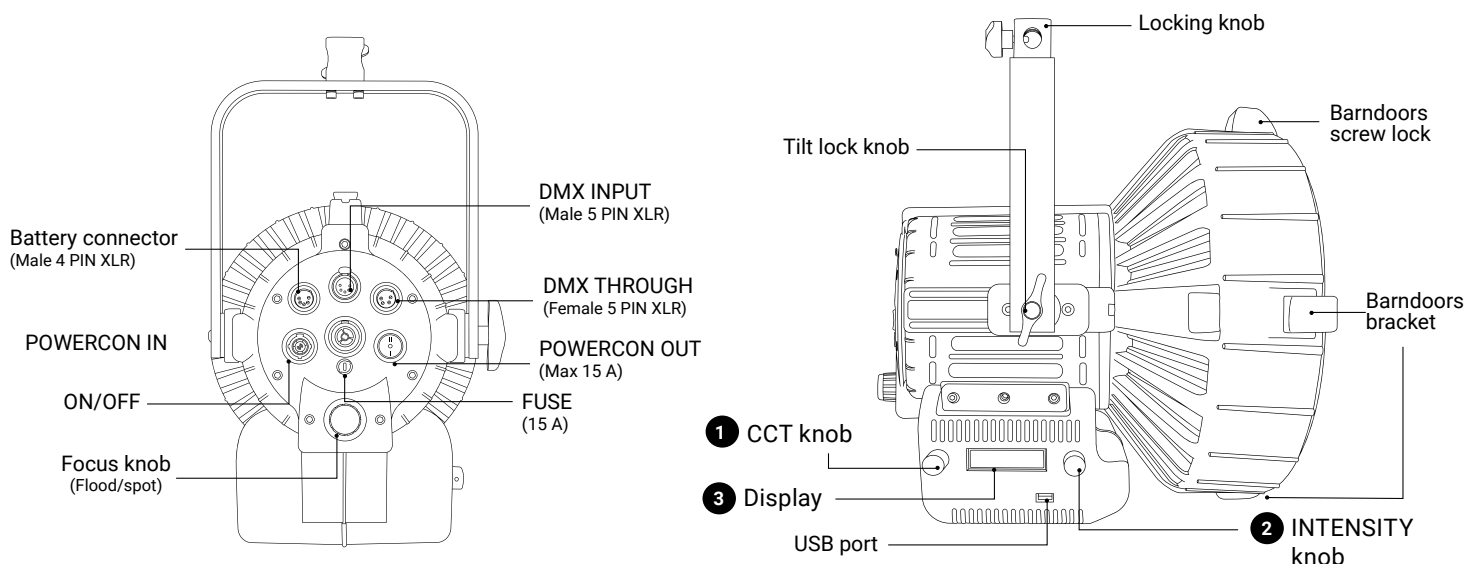


The luminaire should be positioned so that prolonged staring into the luminaire at a distance of 6 m is not expected.

## Instructions

- Max input current for daisy chain: 15 A
- Device for indoor use only.
- Protection standard IP20.
- Maximum ambient temperature: 45 °C.
- Make sure power supply plug is suitable to power required.
- As prescribed by international regulations, a safety cable must be used when the fixture is suspended from ceiling.
- To switch on the light push the on/off button.
- DayledPRO 5000 models are equipped with new generation high quality LED arrays.
- DayledPRO 5000 is equipped with 380 W single LED array.

## Getting Started with the DayledPRO 5000



## CONTROL PANEL

- In current mode press the ② push button to enter the main MENU.
- In the sub-menus press the ② push button to confirm a selection.
- Rotate the ② knob to navigate in the main MENU and sub-menus.
- Use the « **INTENSITY** » ② knob to adjust the **light intensity from 0 to 100%**.
- Use the knob ① to adjust the light mode parameters.
- Display ③.

## MODE

1. Press the ② push button to enter the main MENU.
2. Select **MODE** by pressing the ② push button.
3. Select the light mode among **CCT** with the ② knob and press the ② push button to confirm selection.
4. Select among **CCT / PRESET / SAVE PRESET** with the ② knob and press the ② push button to confirm selection
5. See **LIGHT MODES**.

## LIGHT MODES

| MODE | INTENSITY ④     | CCT/HUE ⑤            | GN/SAT/COLOR ⑥ | GN/SAT/COLOR ⑥ |
|------|-----------------|----------------------|----------------|----------------|
| CCT  | Light Intensity | CT 2800 K to 10000 K | -              | -              |

**CCT MODE:** Warm and cold white control mode. It allows you to adjust colour temperature (CCT), and light intensity. *This is the default setting.*

**⚠ ATTENTION:** Rotating the ① knob changes the CT value- Pressing ① button select GN value that can be changed by rotating the same ① knob.

## DMX OPERATIONS

1. Press the ② push button to enter the main MENU.
2. Select **CONTROL** with the ② knob and press the ② push button to confirm selection.
3. Select **DMX** with the ② knob and press the ② push button to confirm selection.
4. Select the DMX channel, rotating the ① knob to change DMX ADDRESS in ascending or descending order among 1 and 512. The number shown on the display ③ is the selected channel to communicate with the control desk.
5. See **DMX PROTOCOL MANUAL** for DMX channel specification.

**NOTE:** The symbol - ! - on the display indicates that there is **no DMX signal**.

## BLUETOOTH

1. Press the ② push button to enter the main MENU.
1. Select **CONTROL** with the ② knob and press the ② push button to confirm selection.
2. Select **BLE** with the ② knob and press the ② push button to confirm selection.

## DMX OPERATIONS - Advanced Settings

1. Press the ② push button to enter the main MENU.
2. Navigate through the main MENU with the ② knob until **DEVICE SETTINGS** and press the ② push button to confirm selection.
3. Rotate the ② knob to select **DMX ADVANCED**, press the ② push button to confirm selection.
4. Select one of the options among the **DMX BIT**, **DMX SIGNAL LOSS**, **RDM ENABLE**, **STROBE ENABLE** and **INV CCT** press ② push button to confirm the selection.

### DMX BIT:

Resolution of the DMX control. 8bit 1 channel per function and 16 bit 2 channels per function.

1. Select the **DMX BIT** item by pressing the ② push button.
2. Rotate the ② knob to choose between **8bit / 16bit**, press the ② push button to confirm the selected setting. See **DMX PROTOCOL MANUAL**.

### DMX SIGNAL LOSS:

This feature allows to choose the device's behaviour in case of a DMX signal loss.

1. Select the **LOSS DMX SIGNAL** item with the ② push button
2. Rotate the ② knob to select the device's behaviour among **BLACK OUT / SETTINGS LAST / SETTINGS 1min**, press the ② push button to confirm the setting.

**Black out:** The device switches off.

**Settings Last:** The values of the last selected setting are maintained over time until the device is switched off.

**Settings 1min:** The values of the last selected settings is maintained for one minute and then the device switch off.

**RDM Enable:** ON/OFF, enable/disable RDM Protocol

**INV CCT:** ON/FF: enable/disable reversal CCT console control

# DMX Protocol

## Introduction

The DayledPRO models can be used with 8 bit or 16 bit DMX control. (See *DMX OPERATION - advanced settings* in the user's manual). When used in **8 bit mode** the panels uses **one channel for each function**. DMX values for each channel are in the range of 0 to 255. When used in **16 bit mode** the panels uses **two channels for each function**. The increased resolution offers a smooth dimming and a more accurate color adjustment. DMX values for the first channel (byte 1) are in the range of 256 to 65535 while for the second channel (byte 2) they are in the range of 0 to 255.

**⚠ ATTENTION:** The symbol - ! - on the display indicates that there is **no DMX signal**.

**⚠ ATTENTION:** \* If the **STROBE** in the DMX ADVANCED SETTINGS is enabled, there are 1 more channel in 8 bit and 2 more channels in 16 bit:

## DMX Channel Protocol - 8 bit

| MODE | CHANNELS | DMX CHANNEL POSITION | DMX VALUE | VALUE       |
|------|----------|----------------------|-----------|-------------|
| CCT  | 2/3*     | 1. DIMMER            | 0 - 255   | 0 - 100 %   |
|      |          | 2. COLOR TEMPERATURE | 0 - 255   | 6500 - 2700 |
|      |          | 3. *STROBE CONTROL   | 0 ÷ 5     | Ø           |
|      |          |                      | 6 ÷ 255   | 1 ÷ 25 Hz   |

## DMX Channel Protocol - 16 bit

| MODE | CHANNELS | DMX CHANNEL POSITION          | DMX VALUE    | VALUE       |
|------|----------|-------------------------------|--------------|-------------|
| CCT  | 4/6*     | 1. DIMMER - byte 1            | 0 - 65535    | 0 ÷ 100 %   |
|      |          | 2. DIMMER - byte 2            |              |             |
|      |          | 3. COLOR TEMPERATURE - byte 1 | 0 - 65535    | 6500 - 2700 |
|      |          | 4. COLOR TEMPERATURE - byte 2 |              |             |
|      |          | 5. *STROBE CONTROL - byte 1   | 0 ÷ 1300     | Ø           |
|      |          | 6. *STROBE CONTROL - byte 2   | 1301 ÷ 65535 | 1 ÷ 25 Hz   |

# RDM Protocol Specification

| COMMAND                      | PID    | DESCRIPTION                                         |
|------------------------------|--------|-----------------------------------------------------|
| Manufacturer ID              | 0x0622 | Manufacturer identification number (LUPO Lighting). |
| <b>Device Identification</b> |        |                                                     |
| <b>Model ID</b>              |        | <b>Model identification number</b>                  |
|                              | 1      | DayledPRO 650 mono color                            |
|                              | 2      | DayledPRO 650 dual color                            |
|                              | 3      | DayledPRO 1000 mono color                           |
|                              | 4      | DayledPRO 1000 dual color                           |
|                              | 5      | DayledPRO 2000 mono color                           |

|                              |      |                                  |
|------------------------------|------|----------------------------------|
|                              | 6    | DayledPRO 2000 dual color        |
|                              | 7    | SuperpanelPRO 30 dual color soft |
|                              | 8    | SuperpanelPRO 30 dual color hard |
|                              | 9    | SuperpanelPRO 30 full color soft |
|                              | 10   | SuperpanelPRO 30 full color hard |
|                              | 11   | SuperpanelPRO 60 dual color soft |
|                              | 12   | SuperpanelPRO 60 dual color hard |
|                              | 13   | SuperpanelPRO 60 full color soft |
|                              | 14   | SuperpanelPRO 60 full color hard |
|                              | 15   | ActionpanelPRO dual color soft   |
|                              | 16   | ActionpanelPRO dual color hard   |
|                              | 17   | ActionpanelPRO full color soft   |
|                              | 18   | ActionpanelPRO full color hard   |
|                              | 19   | Kickasspanel dual color          |
|                              | 20   | Kickasspanel full color          |
|                              | 21   | Lupoled monocolour               |
|                              | 22   | Lupoled dualcolor                |
|                              | 23   | MovielightPRO 300 monocolour     |
|                              | 24   | MovielightPRO 300 dual color     |
|                              | 25   | UltrapanelPRO 30 dual color soft |
|                              | 26   | UltrapanelPRO 30 dual color hard |
|                              | 27   | UltrapanelPRO 60 full color soft |
|                              | 28   | UltrapanelPRO 60 full color hard |
|                              | 29   | UltrapanelPRO 30 full color soft |
|                              | 30   | UltrapanelPRO 30 full color hard |
|                              | 31   | UltrapanelPRO 60 dual color soft |
|                              | 32   | UltrapanelPRO 60 dual color hard |
|                              | 33   | DayledPRO 650 PRO Full Color     |
|                              | 34   | DayledPRO 1000 PRO Full Color    |
|                              | 35   | DayledPRO 2000 PRO Full Color    |
|                              | 36   | DayledPRO 3000 full color        |
|                              | 37   | Movielight 300 full color        |
|                              | 38   | DayledPRO 3000 mono color        |
|                              | 39   | DayledPRO 3000 dual color        |
|                              | 40   | MovielightPRO 600 dual color     |
|                              | 41   | DayledPRO 5000 monocolour        |
|                              | 42   | DayledPRO 5000 dual color        |
|                              | 43   | DayledPRO 5000 full color        |
|                              | 44   | HyperpanelPRO 30 dual color soft |
|                              | 45   | HyperpanelPRO 30 dual color hard |
|                              | 46   | HyperpanelPRO 60 dual color soft |
|                              | 47   | HyperpanelPRO 60 dual color hard |
|                              | 48   | MovielightPRO 600 full color     |
| <b>Personality MONOCOLOR</b> |      | <b>DMX Personality</b>           |
|                              | 0x01 | CCT                              |

|                               |        |                                                                                                                       |
|-------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Personality DUAL COLOR</b> |        | <b>DMX Personality</b>                                                                                                |
|                               | 0x01   | CCT                                                                                                                   |
|                               | 0x02   | PRESET                                                                                                                |
| <b>Personality FULL COLOR</b> |        | <b>DMX Personality</b>                                                                                                |
|                               | 0x01   | CCT                                                                                                                   |
|                               | 0x02   | HSI                                                                                                                   |
|                               | 0x03   | RGBW                                                                                                                  |
|                               | 0x04   | FRGBW                                                                                                                 |
|                               | 0x05   | PRESET                                                                                                                |
| <b>Network management</b>     |        |                                                                                                                       |
| DISC UNIQUE BRANCH            | 0x0001 | Search RDM devices                                                                                                    |
| DISC MUTE                     | 0x0002 | Mute RDM device, no response message                                                                                  |
| DISC UN MUTE                  | 0x0003 | Activate RDM device fo response message                                                                               |
| <b>Status collection</b>      |        |                                                                                                                       |
| QUEUED MESAGES                | 0x0020 | Retrieves queued messages or status message if no message is in queue                                                 |
| STATUS MESSAGES               | 0x0030 | Retrieves current Warning/Error messages                                                                              |
| <b>RDM Information</b>        |        |                                                                                                                       |
| SUPPORTED PARAMETERS          | 0x0050 | Retrieves a list of all supported RDM commands                                                                        |
| PARAMETER DESCRIPTION         | 0x0051 | Retrieves a list of all RDM commands                                                                                  |
| <b>Product Information</b>    |        |                                                                                                                       |
| DEVICE INFO                   | 0x0060 | Retrieves a variety of information about the device that is normally required by a controller.                        |
| DEVICE MODEL DESCRIPTION      | 0x0080 | Text description of up to 32 characters for the device model type.                                                    |
| MANUFACTURER LABEL            | 0x0081 | This parameter provides an ASCII text response with the Manufacturer name for the device. "LUPO" is the default name. |
| FACTORY DEFAULTS              | 0x0090 | Set the device to its factory defaults. Get: Check if settings still in default state -> 1 if default                 |
| SOFTWARE VERSION LABEL        | 0x00C0 | Retrieves software version string of main software                                                                    |
| <b>DMX512 Setup</b>           |        |                                                                                                                       |
| DMX PERSONALITY               | 0x00E0 | DMX mode                                                                                                              |
| DMX PERSONALITY DESCRIPTION   | 0x00E1 | Shows a description of a DMX-Mode, max 32 characters                                                                  |
| DMX START ADDRESS             | 0x00F0 | DMX address                                                                                                           |
| <b>Control</b>                |        |                                                                                                                       |
| IDENTIFY DEVICE               | 0x1000 | The identify flag (flashes the light)                                                                                 |
| <b>Manufacturer Commands</b>  |        |                                                                                                                       |
| DISPLAY TIMEOUT               | 0x8002 | 0: 30 sec 1: 1 min 2: always on                                                                                       |
| DMX SIGNAL LOST MODE          | 0x8003 | 0: black out 1: last settings on 2: last settings 1 min                                                               |
| DMX BITS                      | 0x8004 | 0: 8 bit 1: 16 bit                                                                                                    |
| CCT LIMIT                     | 0x8005 | 0: 2800-10000 1: 3200-5600                                                                                            |
| LINEARIZATION                 | 0x8006 | 0: linear 1: exponential 2: logarithmic                                                                               |

## DEVICE SETTINGS

1. Press the **2** push button to enter the main MENU.
2. Navigate through the MENU rotating the **2** button, select **DEVICE SETTINGS**, press the **2** push button to confirm the selection.
3. Navigate through the MENU rotating the **2** button, select **GENERAL**, press the **2** push button to confirm the selection.
4. Navigate through the **FAN POWER / DISPLAY / FREQUENCY / FILTER / LINEARIZATION / CCT LIMIT** functions, rotating the **2** button to select the desired function and press the **2** push button to confirm the selection.
5. Within each function select the option to be activated and rotate the **2** button.

**Display:** Time during which the display backlight stays on. **30sec / 1min / ALWAYS ON.**

**Frequency:** Dimmer frequency 18 KHz - 25 KHz

**Filter:** It is the speed response of the system (smooth factor).

**FULL SPEED / NORMAL SPEED / HIGH SPEED / LOW SPEED.**

**Linearization:** Linearization is the compensation curve for the human eye's perception of the luminous intensity emitted as a function of the required power. Required power = dimmer value on the display.

**LINEAR / EXPONENTIAL / LOGARITHMIC.**

**Linear:** No compensation, the intensity of the light is directly proportional to requested power.

**Exponential:** The light intensity increases from 0 to 100 exponentially.

**Logarithmic:** The light intensity increases from 0 to 100 logarithmically.

**CCT Limit:** CCT range 2800 - 6500 or 3200 - 5600

## RESET DEVICE

1. Press the « **OK** » **2** button to enter the main MENU.
2. Select **RESET DEVICE** rotating the **2** button, press the **2** push button to confirm the selection.
3. Select **YES** rotating the **2** button, press the **2** push button to confirm the selection.
4. The device ask for further confirmation, select **YES** by pressing the press the **2** push button. **THE DEVICE RETURNS TO FACTORY DEFAULT SETTINGS.**

| FACTORY DEFAULT SETTING         |                        |
|---------------------------------|------------------------|
| <b>MODE</b>                     | <b>DEVICE SETTINGS</b> |
| CCT                             | DISPLAY: 1 min         |
| <b>DMX OPERATION</b>            | FILTER : Normal speed  |
| BIT: 8 BIT                      | LINEARIZATION: Linear  |
| DMX SIGNAL LOSS: Settings 1 MIN | FREQUENCY: 18 KHz      |
| RDM ENABLE: OFF                 |                        |
| INV - CCT: OFF                  | <b>CONTROL</b>         |
|                                 | Manual                 |

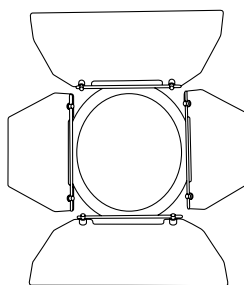
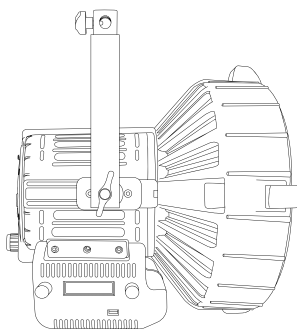
## USB PORT

Use USB port for firmware updates.

## Update the Firmware

1. Copy the file on an USB Pendrive (FAT32 formatted) in the main root;
2. Switch off the equipment and insert the USB Pendrive;
3. Switch on the equipment;
4. Wait until display backlight stop flashing (it takes several minutes and display backligh must toggle for all time long);
5. Switch off the equipment;
6. Extract the Pendrive and switch on the equipment: the firmware is updated.

## Package Contents for DayledPRO 5000



**Barndoors**

**⚠ ATTENTION:** Please keep the original package of the product in a safe place for warranty reasons.

## ACCESSORIES

### COMPLETE KIT OF V-MOUNT BATTERY POWER SUPPLY FOR DAYLEDPRO FULL COLOR 3000.

The items are also sold separately.

#### Battery charger (cod.272)

This charger works with Lupo 95 Wh and 160 Wh batteries.

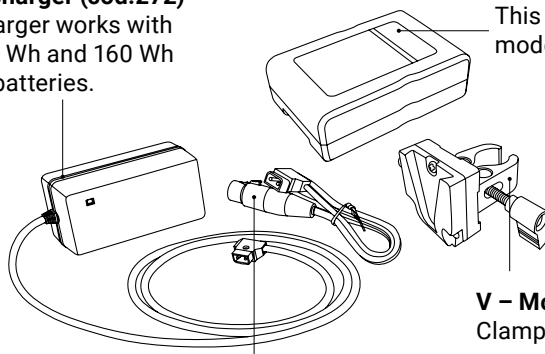
#### DayledPRO 650 / 1000

95 Wh battery (cod.271)

#### Dayled 2000

160 Wh battery (cod.271)

This batteries allows to power all Lupo models with AC/DC functioning.



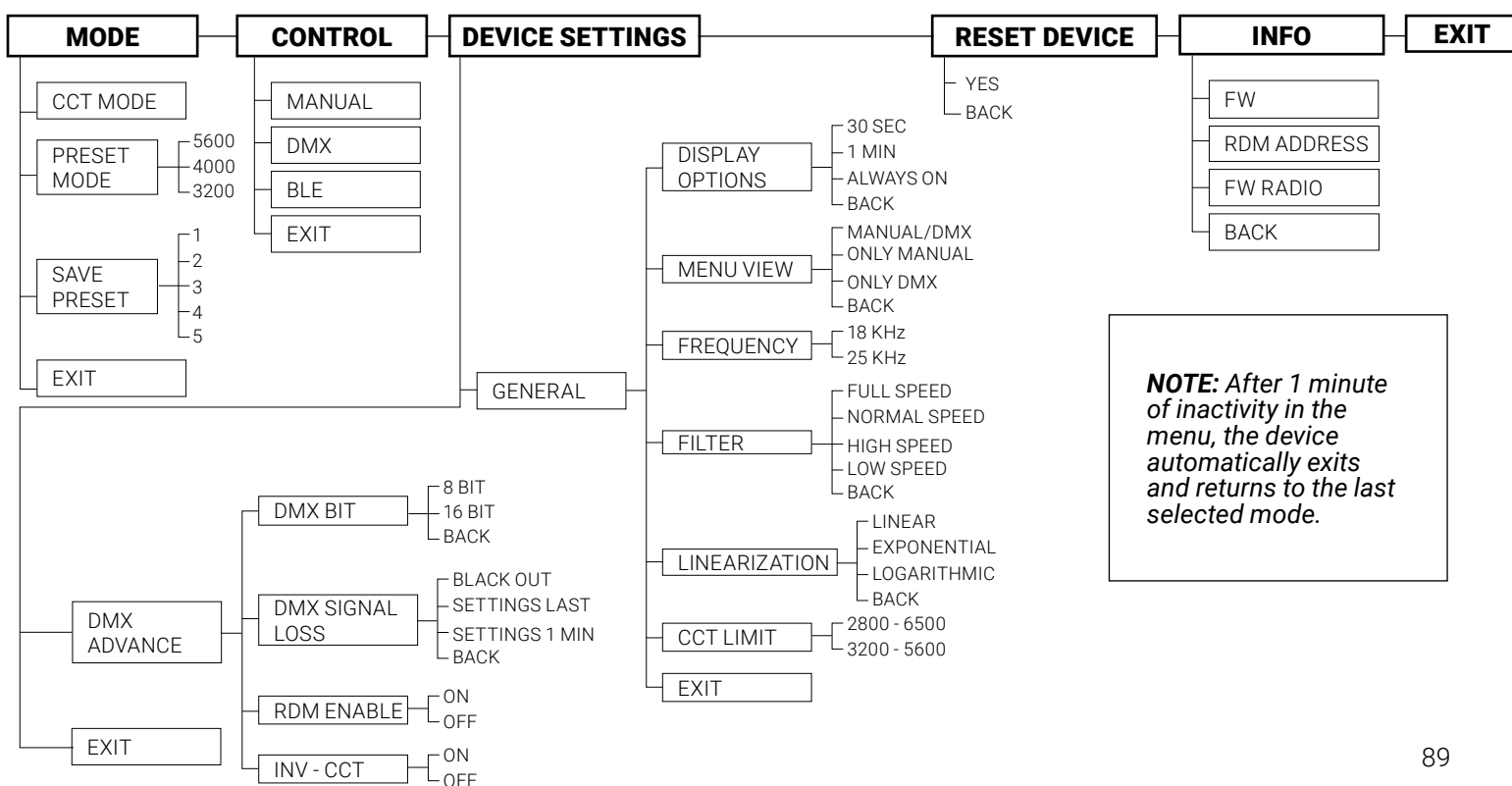
#### V - Mount clamp (cod.320)

Clamp for stand only is an essential accessory for lithium battery powered equipment. It accepts all standard V-Mount batteries.

#### D - Tap cable (cod.313)

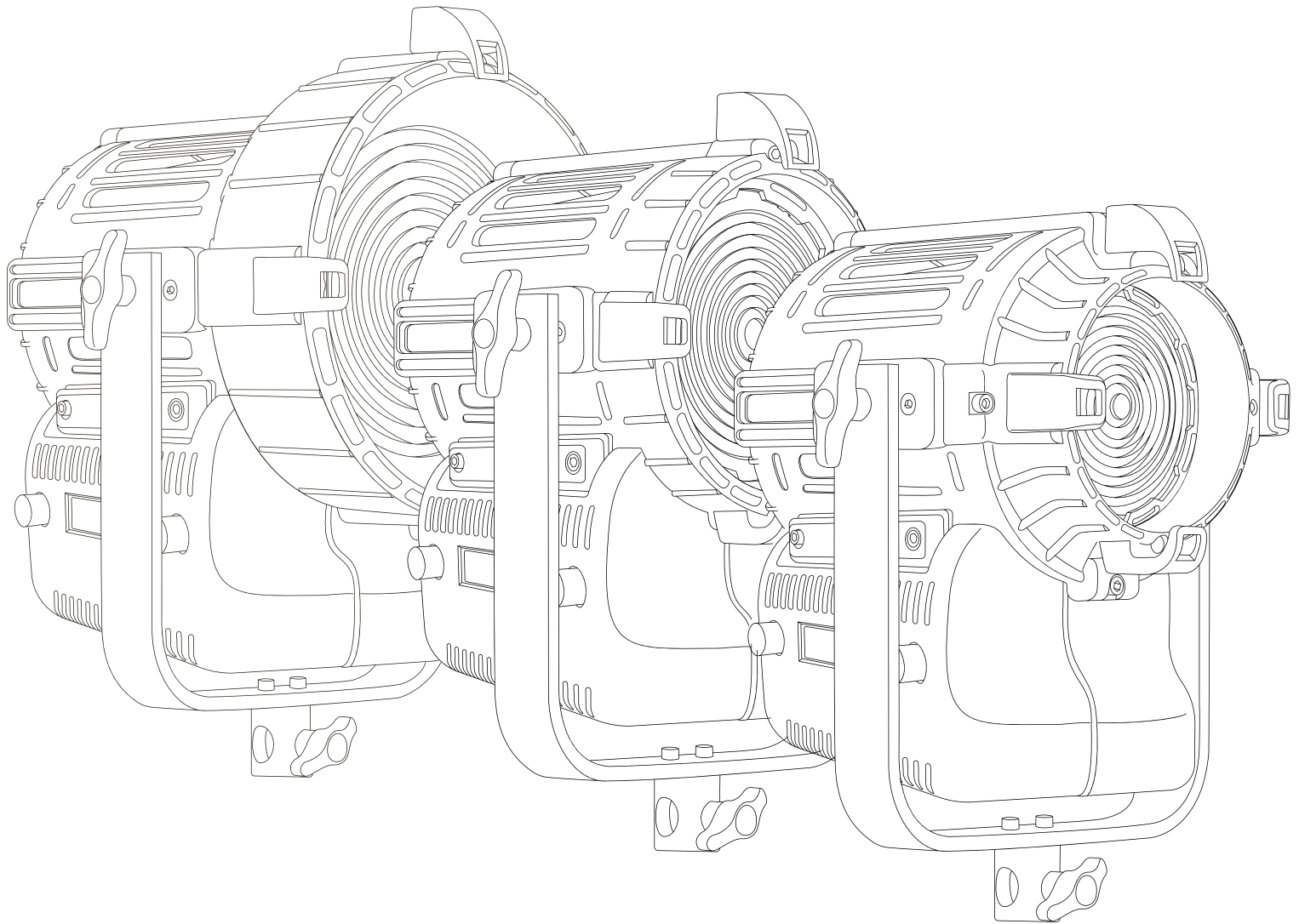
## MENU e submenus

- Select **"EXIT"** to return to the current mode.
- Select **"BACK"** to return to the previous menu.



**NOTE:** After 1 minute of inactivity in the menu, the device automatically exits and returns to the last selected mode.





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## User Manuals

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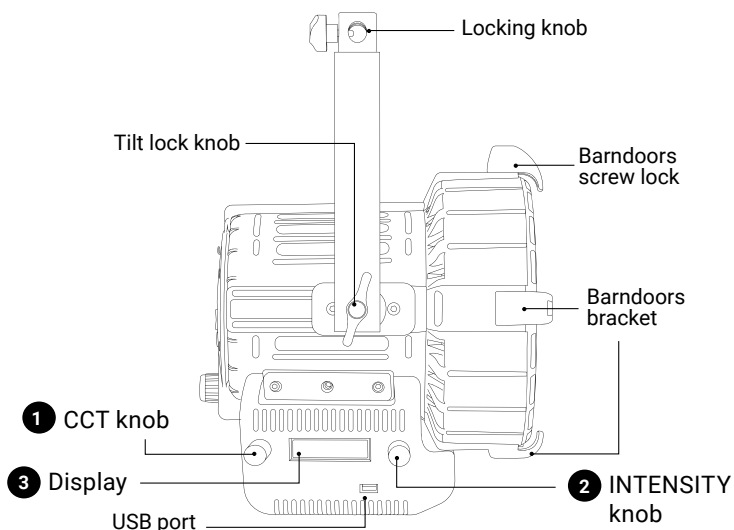
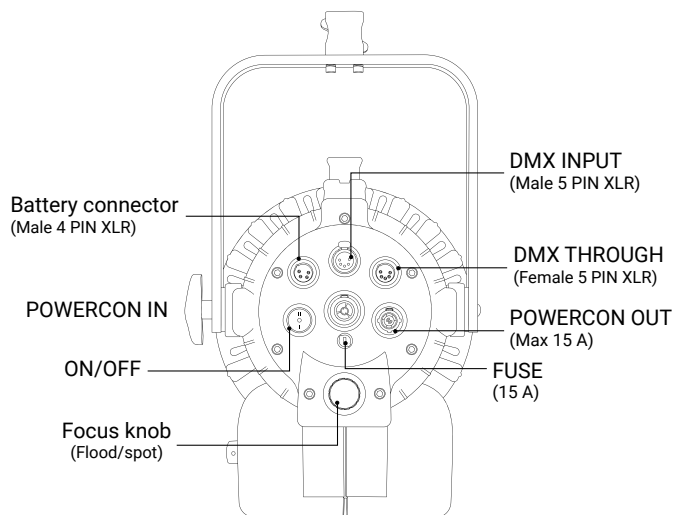
**306 PRO DayledPRO Full Color 650**  
**307 PRO DayledPRO Full Color 1000**  
**308 PRO DayledPRO Full Color 2000**

## Instructions

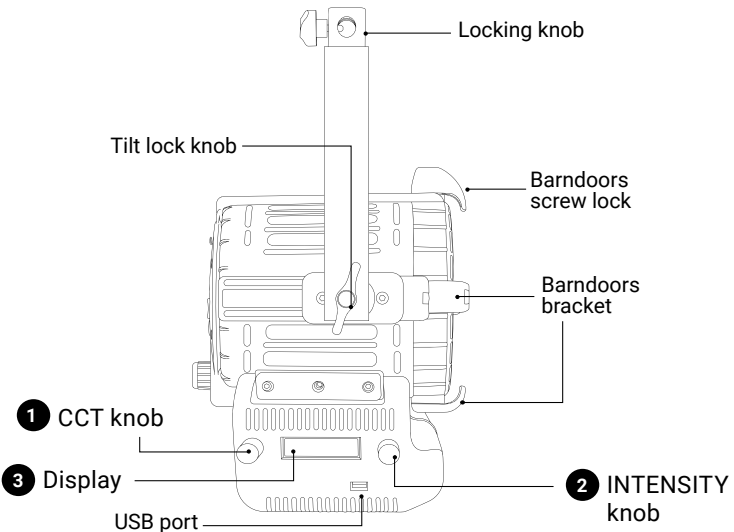
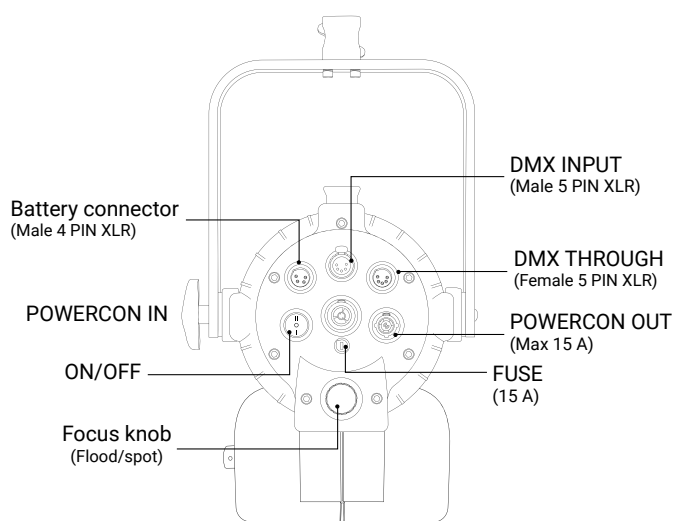
- Device for indoor use only.
- Maximum ambient temperature: 40 °C.
- Make sure power supply plug is suitable to power required.
- As prescribed by international regulations, a safety cable must be used when the fixture is suspended from ceiling.
- To switch on the light push the on/off button.
- DayledPRO models are equipped with new generation high quality poweredleds.

## Getting Started with the DayledPRO Full Color

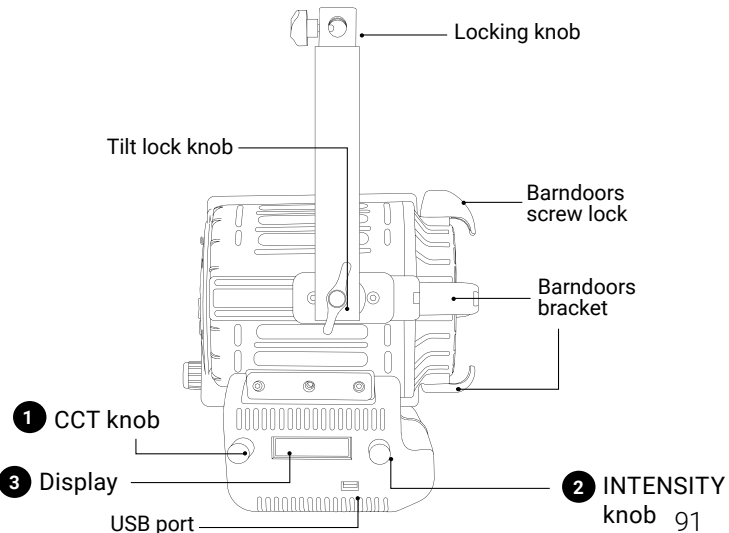
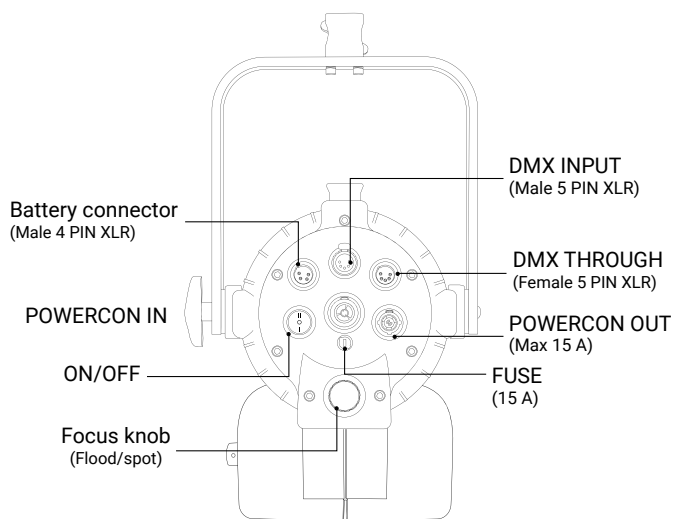
### DayledPRO Full Color 2000



### DayledPRO Full Color 1000



### DayledPRO Full Color 1000



## CONTROL PANEL

- In current mode press the **2** push button to enter the main MENU.
- In the sub-menus press the **2** push button to confirm a selection.
- Rotate the **2** knob to navigate in the main MENU and sub-menus.
- Use the « **INTENSITY** » **2** knob to adjust the *light intensity from 0 to 100%*.
- Use the knob **1** to adjust the light mode parameters.
- Display **3**.

## MODE

1. Press the **2** push button to enter the main MENU.
2. Select **MODE** by pressing the **2** push button.
3. Select the light mode among **CCT** with the **2** knob and press the **2** push button to confirm selection.
4. Select among **CCT / HSI / RGBW / PRESET / EFFECT / SAVE PRESET** with the **2** knob and press the **2** push button to confirm selection
5. See **LIGHT MODES**.

## LIGHT MODES

| MODE   | INTENSITY <b>4</b>                | CCT/HUE <b>5</b>     | GN/SAT/COLOR <b>6</b>         | GN/SAT/COLOR <b>6</b>         |
|--------|-----------------------------------|----------------------|-------------------------------|-------------------------------|
| CCT    | Light Intensity<br>from 0 to 100% | CT 2800 K to 10000 K | GN - 1.00 to + 1.00           | -                             |
| HSI    |                                   | HUE 0° to 100°       | SAT 0 to 100%                 | -                             |
| RGBW   |                                   | -                    | Select function R/G/B/W/CT/GN | Change values of the function |
| PRESET |                                   | -                    | -                             | Change Preset                 |

**CCT MODE:** Warm and cold white control mode. It allows you to adjust colour temperature (CCT), green/magenta compensation (GN) and light intensity. *This is the default setting.*

1. In MODE menu select **EFFECT MODE**.
2. Select the EFFECT to be activated with rotate the **2** button, confirm the selection by pressing the **2** push button.
3. Use the knob **2** to change the DIMMER and the knob **1** to adjust the effect setting values.

**⚠ ATTENTION:** Rotating the **1** knob changes the CT value- Pressing **1** button select GN value that can be changed by rotating the same **1** knob.

## DMX OPERATIONS

1. Press the **2** push button to enter the main MENU.
2. Select **CONTROL** with the **2** knob and press the **2** push button to confirm selection.
3. Select **DMX** with the **2** knob and press the **2** push button to confirm selection.
4. Select the DMX channel, rotating the **1** knob to change DMX ADDRESS in ascending or descending order among 1 and 512. The number shown on the display **3** is the selected channel to communicate with the control desk.
5. See **DMX PROTOCOL MANUAL** for DMX channel specification.

**NOTE:** The symbol - ! - on the display indicates that there is **no DMX signal**.

## BLUETOOTH

1. Press the **2** push button to enter the main MENU.
1. Select **CONTROL** with the **2** knob and press the **2** push button to confirm selection.
2. Select **BLE** with the **2** knob and press the **2** push button to confirm selection.

## DMX OPERATIONS - Advanced Settings

1. Press the **2** push button to enter the main MENU.
2. Navigate through the main MENU with the **2** knob until **DEVICE SETTINGS** and press the **2** push button to confirm selection.
3. Rotate the **2** knob to select **DMX ADVANCED**, press the **2** push button to confirm selection.
4. Select one of the options among the **DMX BIT**, **DMX SIGNAL LOSS**, **RDM ENABLE**, **STROBE ENABLE** and **INV CCT** press **2** push button to confirm the selection.

### DMX BIT:

Resolution of the DMX control. 8bit 1 channel per function and 16 bit 2 channels per function.

1. Select the **DMX BIT** item by pressing the **2** push button.
2. Rotate the **2** knob to choose between **8bit / 16bit**, press the **2** push button to confirm the selected setting. See **DMX PROTOCOL MANUAL**.

### DMX SIGNAL LOSS:

This feature allows to choose the device's behaviour in case of a DMX signal loss.

1. Select the **LOSS DMX SIGNAL** item with the **2** push button
2. Rotate the **2** knob to select the device's behaviour among **BLACK OUT / SETTINGS LAST / SETTINGS 1min**, press the **2** push button to confirm the setting.

**Black out:** The device switches off.

**Settings Last:** The values of the last selected setting are maintained over time until the device is switched off.

**Settings 1min:** The values of the last selected settings is maintained for one minute and then the device switch off.

**RDM Enable:** ON/OFF, enable/disable RDM Protocol

**INV CCT:** ON/FF: enable/disable reversal CCT console control

# DMX Protocol

## Introduction

The DayledPRO models can be used with 8 bit or 16 bit DMX control. (See **DMX OPERATION - advanced settings** in the user's manual). When used in **8 bit mode** the panels uses **one channel for each function**. DMX values for each channel are in the range of 0 to 255. When used in **16 bit mode** the panels uses **two channels for each function**. The increased resolution offers a smooth dimming and a more accurate color adjustment. DMX values for the first channel (byte 1) are in the range of 256 to 65535 while for the second channel (byte 2) they are in the range of 0 to 255.

**⚠ ATTENTION:** The symbol - ! - on the display indicates that there is **no DMX signal**.

**⚠ ATTENTION:** \* If the **STROBE** in the DMX ADVANCED SETTINGS is enabled, there are 1 more channel in 8 bit and 2 more channels in 16 bit:

## DMX Channel Protocol - 8 bit

| MODE | CHANNELS | DMX CHANNEL POSITION | DMX VALUE | VALUE           |
|------|----------|----------------------|-----------|-----------------|
| CCT  | 3/4*     | 1. DIMMER            | 0 - 255   | 0 - 100 %       |
|      |          | 2. COLOR TEMPERATURE | 0 - 255   | 6500 - 2700     |
|      |          | 3. GN COMPENSATION   | 0 ÷ 5     | Ø               |
|      |          |                      | 6 ÷ 255   | - 1,00 ÷ + 1,00 |
|      |          | 4. *STROBE CONTROL   | 0 ÷ 5     | Ø               |
|      |          |                      | 6 ÷ 255   | 1 ÷ 25 Hz       |

|        |      |                      |           |                |
|--------|------|----------------------|-----------|----------------|
| HSI    | 3/4* | 1. DIMMER            | 0 - 255   | 0 ÷ 100 %      |
|        |      | 2. HUE               | 0 ÷ 253   | 0 ÷ 360        |
|        |      | 3. SATURATION        | 0 ÷ 255   | 0 ÷ 100 %      |
|        |      | 4. *STROBE CONTROL   | 0 ÷ 255   | 0 - 25 Hz      |
| RGBW   | 7/8* | 1. DIMMER            | 0 - 255   | 0 ÷ 100 %      |
|        |      | 2. RED               | 0 ÷ 255   | 0 ÷ 100 %      |
|        |      | 3. GREEN             | 0 ÷ 255   | 0 ÷ 100 %      |
|        |      | 4. BLUE              | 0 ÷ 255   | 0 ÷ 100 %      |
|        |      | 5. WHITE             | 0 ÷ 255   | 0 ÷ 100 %      |
|        |      | 6. COLOR TEMPERATURE | 0 - 255   | 6500 - 2700    |
|        |      | 7. GN COMPENSATION   | 0 ÷ 5     | Ø              |
|        |      | 8. * STROBE CONTROL  | 6 ÷ 255   | - 1.00 ÷ +1.00 |
| FRGBW  | 7/8* | 1. DIMMER            | 0 - 255   | 0 ÷ 100 %      |
|        |      | 2. RED               | 0 ÷ 255   | 0 ÷ 100 %      |
|        |      | 3. GREEN             | 0 ÷ 255   | 0 ÷ 100 %      |
|        |      | 4. BLUE              | 0 ÷ 255   | 0 ÷ 100 %      |
|        |      | 5. WHITE             | 0 ÷ 255   | 0 ÷ 100 %      |
|        |      | 6. COLOR TEMPERATURE | 0 - 255   | 6500 - 2700    |
|        |      | 7. GN COMPENSATION   | 0 ÷ 5     | Ø              |
|        |      | 8. * STROBE CONTROL  | 6 ÷ 255   | - 1.00 ÷ +1.00 |
| PRESET | 3/4* | 1. DIMMER            | 0 - 255   | 0 ÷ 100 %      |
|        |      | 2. PRESET            | 0 ÷ 255   | 0 ÷ N PRESET   |
|        |      | 3. PRESET FREEZE     | 0 - 50    | NO FREEZE      |
|        |      | 4. * STROBE CONTROL  | 200 ÷ 255 | FREEZE         |
|        |      |                      | 0 ÷ 255   | 0 - 25 Hz      |

## DMX Channel Protocol - 16 bit

| MODE | CHANNELS | DMX CHANNEL POSITION          | DMX VALUE    | VALUE           |
|------|----------|-------------------------------|--------------|-----------------|
| CCT  | 6/8*     | 1. DIMMER - byte 1            | 0 - 65535    | 0 ÷ 100 %       |
|      |          | 2. DIMMER - byte 2            |              |                 |
|      |          | 3. COLOR TEMPERATURE - byte 1 | 0 - 65535    | 6500 - 2700     |
|      |          | 4. COLOR TEMPERATURE - byte 2 |              |                 |
|      |          | 5. GN COMPENSATION - byte 1   | 0 ÷ 500      | Ø               |
|      |          | 6. GN COMPENSATION - byte 2   | 501 ÷ 65535  | - 1.00 ÷ + 1.00 |
|      |          | 7. *STROBE CONTROL - byte 1   | 0 ÷ 1300     | Ø               |
|      |          | 8. *STROBE CONTROL - byte 2   | 1301 ÷ 65535 | 1 ÷ 25 Hz       |
| HSI  | 6/8*     | 1. DIMMER - byte 1            | 0 - 65535    | 0 ÷ 100 %       |
|      |          | 2. DIMMER - byte 2            |              |                 |
|      |          | 3. HUE - byte 1               | 0 ÷ 65535    | 0 ÷ 360         |
|      |          | 4. HUE - byte 2               |              |                 |
|      |          | 5. SATURATION - byte 1        | 0 ÷ 65535    | 0 ÷ 100%        |
|      |          | 6. SATURATION - byte 2        |              |                 |
|      |          | 7. *STROBE CONTROL - byte 1   | 0 ÷ 1300     | Ø               |
|      |          | 8. *STROBE CONTROL - byte 2   | 1301 ÷ 65535 | 1 ÷ 25 Hz       |
| RGBW | 14/16*   | 1. DIMMER - byte 1            | 0 - 65535    | 0 ÷ 100 %       |
|      |          | 2. DIMMER - byte 2            |              |                 |
|      |          | 3. RED - byte 1               | 0 - 65535    | 0 ÷ 100 %       |
|      |          | 4. RED - byte 2               |              |                 |
|      |          | 5. GREEN - byte 1             | 0 + 65535    | 0 ÷ 100 %       |
|      |          | 6. GREEN - byte 2             |              |                 |
|      |          | 7. BLUE - byte 1              | 0 + 65535    | 0 ÷ 100 %       |
|      |          | 8. BLUE - byte 2              |              |                 |
|      |          | 9. WHITE - byte 1             | 0 + 65535    | 0 ÷ 100 %       |
|      |          | 10. WHITE - byte 2            |              |                 |
|      |          | 11. COLOR TEMPERAT. - byte 1  | 0 - 65535    | 6500 - 2700     |
|      |          | 12. COLOR TEMPERAT. - byte 2  |              |                 |

|        |        |                              |                       |                      |
|--------|--------|------------------------------|-----------------------|----------------------|
| RGBW   | 14/16* | 13. GN COMPENSATION - byte 1 | 0 ÷ 500               | Ø                    |
|        |        | 14. GN COMPENSATION - byte 2 | 501 ÷ 65535           | -1,00 ÷ + 1,00       |
|        |        | 15. *STROBE CONTROL - byte 1 | 0 ÷ 1300              | Ø                    |
|        |        | 16. *STROBE CONTROL - byte 2 | 1301 ÷ 65535          | 1 ÷ 25 Hz            |
| FRGBW  | 14/16* | 1. DIMMER - byte 1           | 0 - 65535             | 0 ÷ 100 %            |
|        |        | 2. DIMMER - byte 2           |                       |                      |
|        |        | 3. RED - byte 1              | 0 ÷ 65535             | 0 ÷ 100 %            |
|        |        | 4. RED - byte 2              |                       |                      |
|        |        | 5. GREEN - byte 1            | 0 ÷ 65535             | 0 ÷ 100 %            |
|        |        | 6. GREEN - byte 2            |                       |                      |
|        |        | 7. BLUE - byte 1             | 0 ÷ 65535             | 0 ÷ 100 %            |
|        |        | 8. BLUE - byte 2             |                       |                      |
|        |        | 9. WHITE - byte 1            | 0 ÷ 65535             | 0 ÷ 100 %            |
|        |        | 10. WHITE - byte 2           |                       |                      |
|        |        | 11. COLOR TEMPERAT. - byte 1 | 0 - 65535             | 6500 - 2700          |
|        |        | 12. COLOR TEMPERAT. - byte 2 |                       |                      |
|        |        | 13. GN COMPENSATION - byte 1 | 0 ÷ 500               | Ø                    |
|        |        | 14. GN COMPENSATION - byte 2 | 501 ÷ 65535           | -1,00 ÷ + 1,00       |
|        |        | 15. *STROBE CONTROL - byte 1 | 0 ÷ 1300              | Ø                    |
|        |        | 16. *STROBE CONTROL - byte 2 | 1301 ÷ 65535          | 1 ÷ 25 Hz            |
| PRESET | 6/8*   | 1. DIMMER - byte 1           | 0 - 65535             | 0 ÷ 100 %            |
|        |        | 2. DIMMER - byte 2           |                       |                      |
|        |        | 3. PRESET - byte 1           | 0 ÷ 65535             | 0 ÷ N PRESET         |
|        |        | 4. PRESET - byte 2           |                       |                      |
|        |        | 5. PRESET FREEZE - byte 1    | 0 - 12800 > no freeze | 51200 ÷ 65535 freeze |
|        |        | 6. PRESET FREEZE - byte 2    |                       |                      |
|        |        | 7. *STROBE CONTROL - byte 1  | 0 ÷ 1300              | Ø                    |
|        |        | 8. *STROBE CONTROL - byte 2  | 1301 ÷ 65535          | 1 ÷ 25 Hz            |

# RDM

## Protocol Specification

| COMMAND                      | PID    | DESCRIPTION                                         |
|------------------------------|--------|-----------------------------------------------------|
| Manufacturer ID              | 0x0622 | Manufacturer identification number (LUPO Lighting). |
| <b>Device Identification</b> |        |                                                     |
| <b>Model ID</b>              |        | <b>Model identification number</b>                  |
|                              | 1      | DayledPRO 650 mono color                            |
|                              | 2      | DayledPRO 650 dual color                            |
|                              | 3      | DayledPRO 1000 mono color                           |
|                              | 4      | DayledPRO 1000 dual color                           |
|                              | 5      | DayledPRO 2000 mono color                           |
|                              | 6      | DayledPRO 2000 dual color                           |
|                              | 7      | SuperpanelPRO 30 dual color soft                    |
|                              | 8      | SuperpanelPRO 30 dual color hard                    |
|                              | 9      | SuperpanelPRO 30 full color soft                    |
|                              | 10     | SuperpanelPRO 30 full color hard                    |
|                              | 11     | SuperpanelPRO 60 dual color soft                    |
|                              | 12     | SuperpanelPRO 60 dual color hard                    |

|                               |      |                                  |
|-------------------------------|------|----------------------------------|
|                               | 13   | SuperpanelPRO 60 full color soft |
|                               | 14   | SuperpanelPRO 60 full color hard |
|                               | 15   | ActionpanelPRO dual color soft   |
|                               | 16   | ActionpanelPRO dual color hard   |
|                               | 17   | ActionpanelPRO full color soft   |
|                               | 18   | ActionpanelPRO full color hard   |
|                               | 19   | Kickasspanel dual color          |
|                               | 20   | Kickasspanel full color          |
|                               | 21   | Lupoled monocolor                |
|                               | 22   | Lupoled dualcolor                |
|                               | 23   | MovielightPRO 300 monocolor      |
|                               | 24   | MovielightPRO 300 dual color     |
|                               | 25   | UltrapanelPRO 30 dual color soft |
|                               | 26   | UltrapanelPRO 30 dual color hard |
|                               | 27   | UltrapanelPRO 60 full color soft |
|                               | 28   | UltrapanelPRO 60 full color hard |
|                               | 29   | UltrapanelPRO 30 full color soft |
|                               | 30   | UltrapanelPRO 30 full color hard |
|                               | 31   | UltrapanelPRO 60 dual color soft |
|                               | 32   | UltrapanelPRO 60 dual color hard |
|                               | 33   | DayledPRO 650 PRO Full Color     |
|                               | 34   | DayledPRO 1000 PRO Full Color    |
|                               | 35   | DayledPRO 2000 PRO Full Color    |
|                               | 36   | DayledPRO 3000 full color        |
|                               | 37   | Movielight 300 full color        |
|                               | 38   | DayledPRO 3000 mono color        |
|                               | 39   | DayledPRO 3000 dual color        |
|                               | 40   | MovielightPRO 600 dual color     |
|                               | 41   | DayledPRO 5000 monocolor         |
|                               | 42   | DayledPRO 5000 dual color        |
|                               | 43   | DayledPRO 5000 full color        |
|                               | 44   | HyperpanelPRO 30 dual color soft |
|                               | 45   | HyperpanelPRO 30 dual color hard |
|                               | 46   | HyperpanelPRO 60 dual color soft |
|                               | 47   | HyperpanelPRO 60 dual color hard |
|                               | 48   | MovielightPRO 600 full color     |
| <b>Personality MONOCOLOR</b>  |      | <b>DMX Personality</b>           |
|                               | 0x01 | CCT                              |
| <b>Personality DUAL COLOR</b> |      | <b>DMX Personality</b>           |
|                               | 0x01 | CCT                              |
|                               | 0x02 | PRESET                           |
| <b>Personality FULL COLOR</b> |      | <b>DMX Personality</b>           |
|                               | 0x01 | CCT                              |
|                               | 0x02 | HSI                              |
|                               | 0x03 | RGBW                             |
|                               | 0x04 | FRGBW                            |

|                              |        |                                                                                                                       |
|------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------|
|                              | 0x05   | PRESET                                                                                                                |
| <b>Network management</b>    |        |                                                                                                                       |
| DISC UNIQUE BRANCH           | 0x0001 | Search RDM devices                                                                                                    |
| DISC MUTE                    | 0x0002 | Mute RDM device, no response message                                                                                  |
| DISC UN MUTE                 | 0x0003 | Activate RDM device fo response message                                                                               |
| <b>Status collection</b>     |        |                                                                                                                       |
| QUEUED MESAGES               | 0x0020 | Retrieves queued messages or status message if no message is in queue                                                 |
| STATUS MESSAGES              | 0x0030 | Retrieves current Warning/Error messages                                                                              |
| <b>RDM Information</b>       |        |                                                                                                                       |
| SUPPORTED PARAMETERS         | 0x0050 | Retrieves a list of all supported RDM commands                                                                        |
| PARAMETER DESCRIPTION        | 0x0051 | Retrieves a list of all RDM commands                                                                                  |
| <b>Product Information</b>   |        |                                                                                                                       |
| DEVICE INFO                  | 0x0060 | Retrieves a variety of information about the device that is normally required by a controller.                        |
| DEVICE MODEL DESCRIPTION     | 0x0080 | Text description of up to 32 characters for the device model type.                                                    |
| MANUFACTURER LABEL           | 0x0081 | This parameter provides an ASCII text response with the Manufacturer name for the device. "LUPO" is the default name. |
| FACTORY DEFAULTS             | 0x0090 | Set the device to its factory defaults. Get: Check if settings still in default state -> 1 if default                 |
| SOFTWARE VERSION LABEL       | 0x00C0 | Retrieves software version string of main software                                                                    |
| <b>DMX512 Setup</b>          |        |                                                                                                                       |
| DMX PERSONALITY              | 0x00E0 | DMX mode                                                                                                              |
| DMX PERSONALITY DESCRIPTION  | 0x00E1 | Shows a description of a DMX-Mode, max 32 characters                                                                  |
| DMX START ADDRESS            | 0x00F0 | DMX address                                                                                                           |
| <b>Control</b>               |        |                                                                                                                       |
| IDENTIFY DEVICE              | 0x1000 | The identify flag (flashes the light)                                                                                 |
| <b>Manufacturer Commands</b> |        |                                                                                                                       |
| DISPLAY TIMEOUT              | 0x8002 | 0: 30 sec 1: 1 min 2: always on                                                                                       |
| DMX SIGNAL LOST MODE         | 0x8003 | 0: black out 1: last settings on 2: last settings 1 min                                                               |
| DMX BITS                     | 0x8004 | 0: 8 bit 1: 16 bit                                                                                                    |
| CCT LIMIT                    | 0x8005 | 0: 2800-10000 1: 3200-5600                                                                                            |
| LINEARIZATION                | 0x8006 | 0: linear 1: exponential 2: logarithmic                                                                               |

## DEVICE SETTINGS

1. Press the **2** push button to enter the main MENU.
2. Navigate through the MENU rotating the **2** button, select **DEVICE SETTINGS**, press the **2** push button to confirm the selection.
3. Navigate through the MENU rotating the **2** button, select **GENERAL**, press the **2** push button to confirm the selection.
4. Navigate through the **FAN POWER / DISPLAY / FREQUENCY / FILTER / LINEARIZATION / CCT LIMIT** functions, rotating the **2** button to select the desired function and press the **2** push button to confirm the selection.
5. Within each function select the option to be activated and rotate the **2** button.



**Display:** Time during which the display backlight stays on. **30sec / 1min / ALWAYS ON.**

**Frequency:** Dimmer frequency 18 KHz - 25 KHz

**Filter:** It is the speed response of the system (smooth factor).

**FULL SPEED / NORMAL SPEED / HIGH SPEED / LOW SPEED.**

**Linearization:** Linearization is the compensation curve for the human eye's perception of the luminous intensity emitted as a function of the required power. Required power = dimmer value on the display. **LINEAR / EXPONENTIAL / LOGARITHMIC.**

**Linear:** No compensation, the intensity of the light is directly proportional to requested power.

**Exponential:** The light intensity increases from 0 to 100 exponentially.

**Logarithmic:** The light intensity increases from 0 to 100 logarithmically.

**CCT Limit:** CCT range 2800 - 6500 or 3200 - 5600

## RESET DEVICE

1. Press the « **OK** » **2** button to enter the main MENU.
2. Select **RESET DEVICE** rotating the **2** button, press the **2** push button to confirm the selection.
3. Select **YES** rotating the **2** button, press the **2** push button to confirm the selection.
4. The device ask for further confirmation, select **YES** by pressing the press the **2** push button. **THE DEVICE RETURNS TO FACTORY DEFAULT SETTINGS.**

| FACTORY DEFAULT SETTING         |                        |
|---------------------------------|------------------------|
| <b>MODE</b>                     | <b>DEVICE SETTINGS</b> |
| CCT                             | DISPLAY: 1 min         |
| <b>DMX OPERATION</b>            | FILTER : Normal speed  |
| BIT: 8 BIT                      | LINEARIZATION: Linear  |
| DMX SIGNAL LOSS: Settings 1 MIN | FREQUENCY: 18 KHz      |
| RDM ENABLE: OFF                 |                        |
| INV - CCT: OFF                  | <b>CONTROL</b>         |
|                                 | Manual                 |

## USB PORT

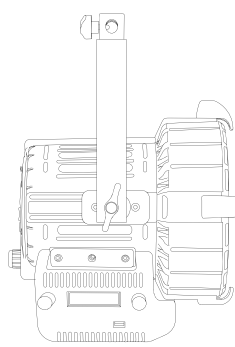
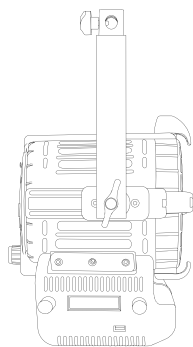
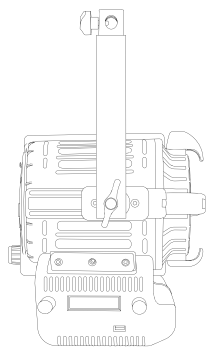
Use USB port for firmware updates.

## Update the Firmware

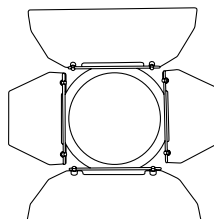
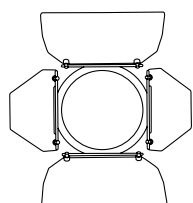
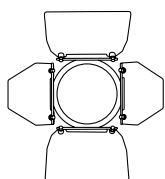
1. Copy the file on an USB Pendrive (FAT32 formatted) in the main root;
2. Switch off the equipment and insert the USB Pendrive;
3. Switch on the equipment;
4. Wait until display backlight flashes (it takes several minutes and red led must toggle for all time long);
5. Switch off the equipment;
6. Extract the Pendrive and switch on the equipment: the firmware is updated.

## Package Contents for DayledPRO

### DayledPRO models + Barndoors



**⚠ ATTENTION:** Please keep the original package of the product in a safe place for warranty reasons.



**DayledPRO 650**

**DayledPRO 1000**

**DayledPRO 2000**

## ACCESSORIES

The accessories are products sold separately.

### COMPLETE KIT OF V-MOUNT BATTERY POWER SUPPLY FOR DAYLEDPRO FULL COLOR 650 AND 1000.

The items are also sold separately.

#### Battery charger (cod.272)

This charger works with Lupo 95 Wh and 160 Wh batteries.

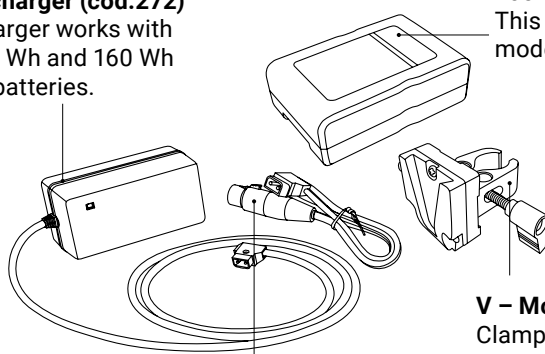
#### DayledPRO 650 / 1000

95 Wh battery (cod.271)

#### Dayled 2000

160 Wh battery (cod.271)

This batteries allows to power all Lupo models with AC/DC functioning.



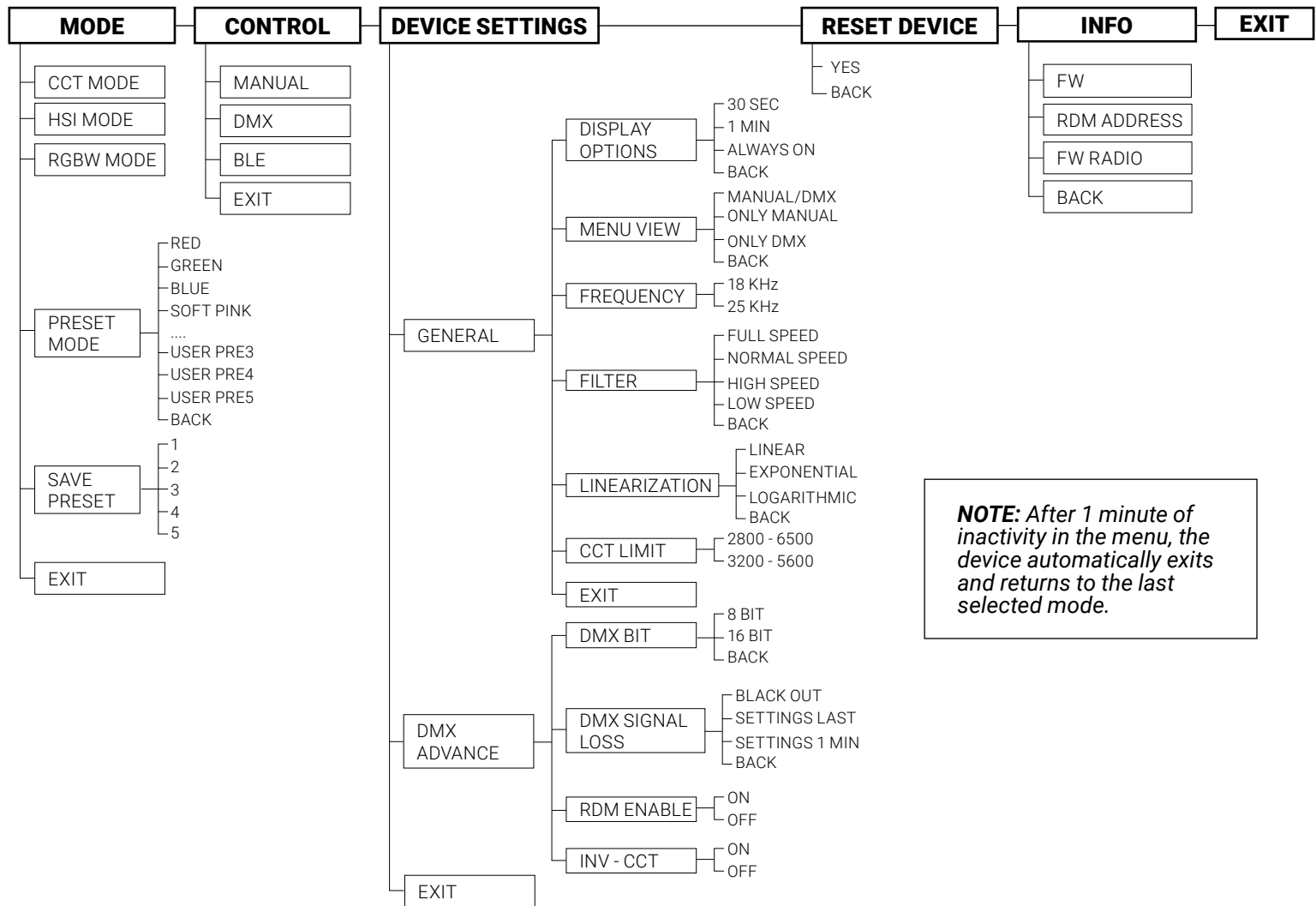
**D – Tap cable (cod.313)**

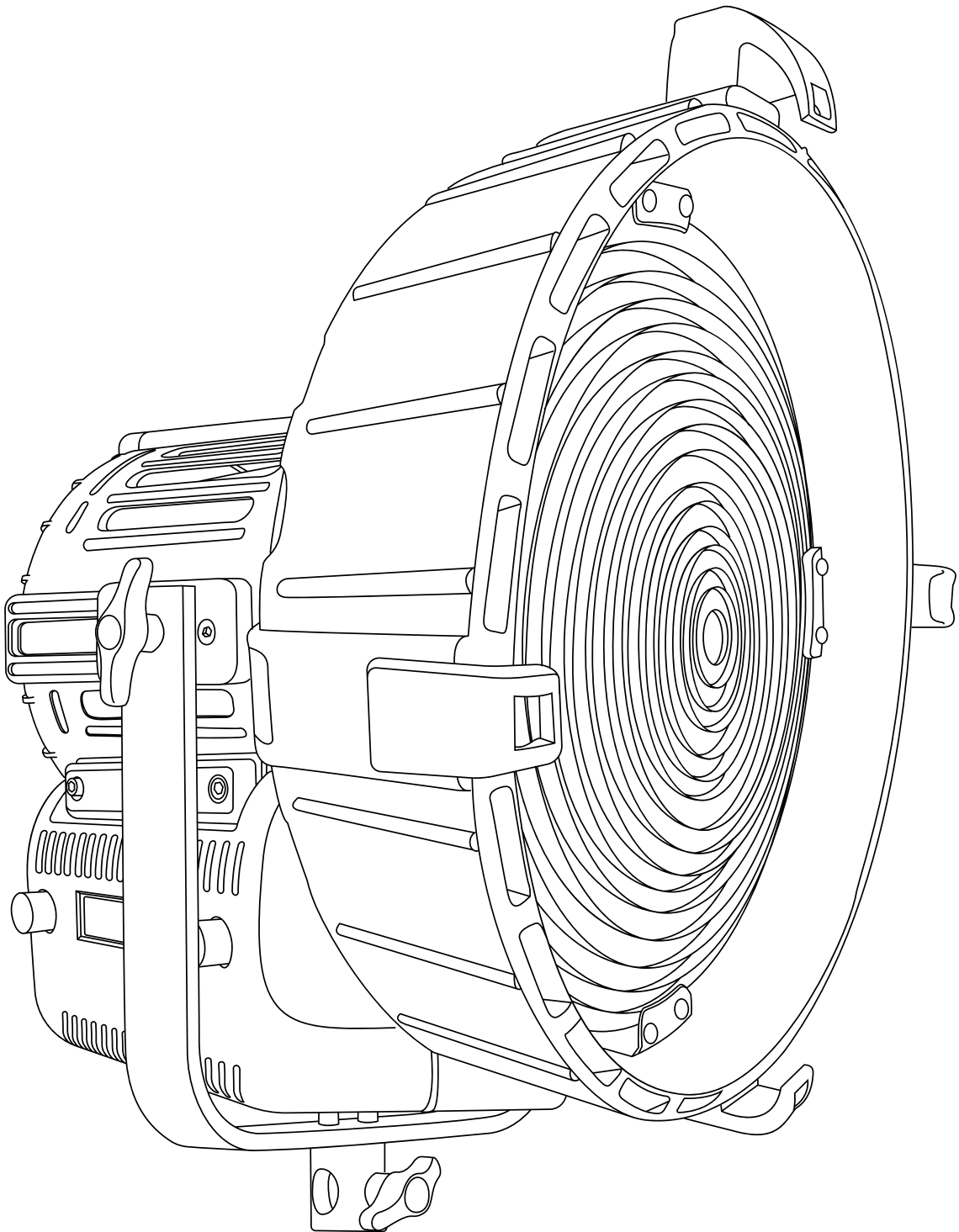
#### V – Mount clamp (cod.320)

Clamp for stand only is an essential accessory for lithium battery powered equipment. It accepts all standard V-Mount batteries.

## MENU e submenus

- Select **"EXIT"** to return to the current mode.
- Select **"BACK"** to return to the previous menu.





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**User Manuals**

**311 PRO DayledPRO Full Color 3000**

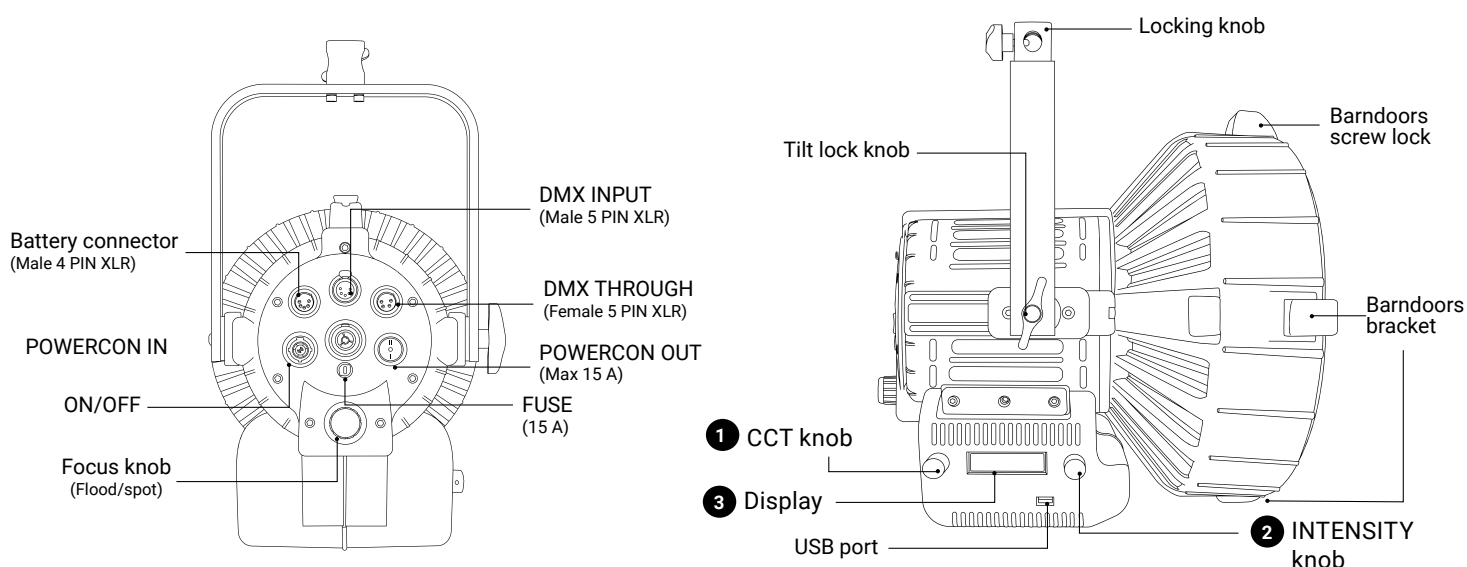


The luminaire should be positioned so that prolonged staring into the luminaire at a distance of 6 m is not expected.

## Instructions

- Device for indoor use only.
- Maximum ambient temperature: 40 °C.
- Make sure power supply plug is suitable to power required.
- As prescribed by international regulations, a safety cable must be used when the fixture is suspended from ceiling.
- To switch on the light push the on/off button.
- DayledPRO 3000 models are equipped with new generation high quality powerleds.

## Getting Started with the DayledPRO Full Color 3000



## CONTROL PANEL

- In current mode press the ② push button to enter the main MENU.
- In the sub-menus press the ② push button to confirm a selection.
- Rotate the ② knob to navigate in the main MENU and sub-menus.
- Use the « **INTENSITY** » ② knob to adjust the **light intensity from 0 to 100%**.
- Use the knob ① to adjust the light mode parameters.
- Display ③.

## MODE

1. Press the ② push button to enter the main MENU.
2. Select **MODE** by pressing the ② push button.
3. Select the light mode among **CCT** with the ② knob and press the ② push button to confirm selection.
4. Select among **CCT / HSI / RGBW / PRESET / EFFECT / SAVE PRESET** with the ② knob and press the ② push button to confirm selection
5. See **LIGHT MODES**.

## LIGHT MODES

| MODE   | INTENSITY ④                    | CCT/HUE ⑤            | GN/SAT/COLOR ⑥                | GN/SAT/COLOR ⑥                |
|--------|--------------------------------|----------------------|-------------------------------|-------------------------------|
| CCT    | Light Intensity from 0 to 100% | CT 2800 K to 10000 K | GN - 1.00 to + 1.00           | -                             |
| HSI    |                                | HUE 0° to 100°       | SAT 0 to 100%                 | -                             |
| RGBW   |                                | -                    | Select function R/G/B/W/CT/GN | Change values of the function |
| PRESET |                                | -                    | -                             | Change Preset                 |

**CCT MODE:** Warm and cold white control mode. It allows you to adjust colour temperature (CCT), green/magenta compensation (GN) and light intensity. *This is the default setting.*

1. In MODE menu select **EFFECT MODE**.
2. Select the EFFECT to be activated with rotate the ❷ button, confirm the selection by pressing the ❷ push button.
3. Use the knob ❷ to change the DIMMER and the knob ❶ to adjust the effect setting values.

**⚠ ATTENTION:** Rotating the ❶ knob changes the CT value- Pressing ❶ button select GN value that can be changed by rotating the same ❶ knob.

## DMX OPERATIONS

1. Press the ❷ push button to enter the main MENU.
2. Select **CONTROL** with the ❷ knob and press the ❷ push button to confirm selection.
3. Select **DMX** with the ❷ knob and press the ❷ push button to confirm selection.
4. Select the DMX channel, rotating the ❶ knob to change DMX ADDRESS in ascending or descending order among 1 and 512. The number shown on the display ❸ is the selected channel to communicate with the control desk.
5. See **DMX PROTOCOL MANUAL** for DMX channel specification.

**NOTE:** The symbol - ! - on the display indicates that there is **no DMX signal**.

## BLUETOOTH

1. Press the ❷ push button to enter the main MENU.
1. Select **CONTROL** with the ❷ knob and press the ❷ push button to confirm selection.
2. Select **BLE** with the ❷ knob and press the ❷ push button to confirm selection.

## DMX OPERATIONS - Advanced Settings

1. Press the ❷ push button to enter the main MENU.
2. Navigate through the main MENU with the ❷ knob until **DEVICE SETTINGS** and press the ❷ push button to confirm selection.
3. Rotate the ❷ knob to select **DMX ADVANCED**, press the ❷ push button to confirm selection.
4. Select one of the options among the **DMX BIT**, **DMX SIGNAL LOSS**, **RDM ENABLE**, **STROBE ENABLE** and **INV CCT** press ❷ push button to confirm the selection.

### DMX BIT:

Resolution of the DMX control. 8bit 1 channel per function and 16 bit 2 channels per function.

1. Select the **DMX BIT** item by pressing the ❷ push button.
2. Rotate the ❷ knob to choose between **8bit / 16bit**, press the ❷ push button to confirm the selected setting. See **DMX PROTOCOL MANUAL**.

### DMX SIGNAL LOSS:

This feature allows to choose the device's behaviour in case of a DMX signal loss.

1. Select the **LOSS DMX SIGNAL** item with the ❷ push button
2. Rotate the ❷ knob to select the device's behaviour among **BLACK OUT /SETTINGS LAST / SETTINGS 1min**, press the ❷ push button to confirm the setting.

**Black out:** The device switches off.

**Settings Last:** The values of the last selected setting are maintained over time until the device is switched off.

**Settings 1min:** The values of the last selected settings is maintained for one minute and then the device switch off.

**RDM Enable:** ON/OFF, enable/disable RDM Protocol

**INV CCT:** ON/FF: enable/disable reversal CCT console control

# DMX Protocol

## Introduction

The DayledPRO models can be used with 8 bit or 16 bit DMX control. (See *DMX OPERATION - advanced settings* in the user's manual). When used in **8 bit mode** the panels uses **one channel for each function**. DMX values for each channel are in the range of 0 to 255. When used in **16 bit mode** the panels uses **two channels for each function**. The increased resolution offers a smooth dimming and a more accurate color adjustment. DMX values for the first channel (byte 1) are in the range of 256 to 65535 while for the second channel (byte 2) they are in the range of 0 to 255.

**⚠ ATTENTION:** The symbol - ! - on the display indicates that there is **no DMX signal**.

**⚠ ATTENTION:** \* If the **STROBE** in the DMX ADVANCED SETTINGS is enabled, there are 1 more channel in 8 bit and 2 more channels in 16 bit:

## DMX Channel Protocol - 8 bit

| MODE   | CHANNELS | DMX CHANNEL POSITION | DMX VALUE | VALUE           |
|--------|----------|----------------------|-----------|-----------------|
| CCT    | 3/4*     | 1. DIMMER            | 0 - 255   | 0 - 100 %       |
|        |          | 2. COLOR TEMPERATURE | 0 - 255   | 6500 - 2700     |
|        |          | 3. GN COMPENSATION   | 0 ÷ 5     | Ø               |
|        |          |                      | 6 ÷ 255   | - 1,00 ÷ + 1,00 |
|        |          | 4. *STROBE CONTROL   | 0 ÷ 5     | Ø               |
|        |          |                      | 6 ÷ 255   | 1 ÷ 25 Hz       |
| HSI    | 3/4*     | 1. DIMMER            | 0 - 255   | 0 ÷ 100 %       |
|        |          | 2. HUE               | 0 ÷ 253   | 0 ÷ 360         |
|        |          | 3. SATURATION        | 0 ÷ 255   | 0 ÷ 100 %       |
|        |          | 4. *STROBE CONTROL   | 0 ÷ 255   | 0 - 25 Hz       |
| RGBW   | 7/8*     | 1. DIMMER            | 0 - 255   | 0 ÷ 100 %       |
|        |          | 2. RED               | 0 ÷ 255   | 0 ÷ 100 %       |
|        |          | 3. GREEN             | 0 ÷ 255   | 0 ÷ 100 %       |
|        |          | 4. BLUE              | 0 ÷ 255   | 0 ÷ 100 %       |
|        |          | 5. WHITE             | 0 ÷ 255   | 0 ÷ 100 %       |
|        |          | 6. COLOR TEMPERATURE | 0 - 255   | 6500 - 2700     |
|        |          |                      | 0 ÷ 5     | Ø               |
|        |          |                      | 6 ÷ 255   | - 1.00 ÷ +1.00  |
|        |          | 8. * STROBE CONTROL  | 0 ÷ 255   | 0 - 25 Hz       |
| FRGBW  | 7/8*     | 1. DIMMER            | 0 - 255   | 0 ÷ 100 %       |
|        |          | 2. RED               | 0 ÷ 255   | 0 ÷ 100 %       |
|        |          | 3. GREEN             | 0 ÷ 255   | 0 ÷ 100 %       |
|        |          | 4. BLUE              | 0 ÷ 255   | 0 ÷ 100 %       |
|        |          | 5. WHITE             | 0 ÷ 255   | 0 ÷ 100 %       |
|        |          | 6. COLOR TEMPERATURE | 0 - 255   | 6500 - 2700     |
|        |          |                      | 0 ÷ 5     | Ø               |
|        |          |                      | 6 ÷ 255   | - 1.00 ÷ +1.00  |
|        |          | 8. * STROBE CONTROL  | 0 ÷ 255   | 0 - 25 Hz       |
| PRESET | 3/4*     | 1. DIMMER            | 0 - 255   | 0 ÷ 100 %       |
|        |          | 2. PRESET            | 0 ÷ 255   | 0 ÷ N PRESET    |
|        |          | 3. PRESET FREEZE     | 0 - 50    | NO FREEZE       |
|        |          |                      | 200 ÷ 255 | FREEZE          |
|        |          | 4. * STROBE CONTROL  | 0 ÷ 255   | 0 - 25 Hz       |

| MODE   | CHANNELS | DMX CHANNEL POSITION          | DMX VALUE             | VALUE                   |
|--------|----------|-------------------------------|-----------------------|-------------------------|
| CCT    | 6/8*     | 1. DIMMER - byte 1            | 0 - 65535             | 0 ÷ 100 %               |
|        |          | 2. DIMMER - byte 2            |                       |                         |
|        |          | 3. COLOR TEMPERATURE - byte 1 | 0 - 65535             | 6500 - 2700             |
|        |          | 4. COLOR TEMPERATURE - byte 2 |                       |                         |
|        |          | 5. GN COMPENSATION - byte 1   | 0 ÷ 500               | Ø<br>- 1.00 ÷ + 1.00    |
|        |          | 6. GN COMPENSATION - byte 2   | 501 ÷ 65535           |                         |
|        |          | 7. *STROBE CONTROL - byte 1   | 0 ÷ 1300              | Ø                       |
|        |          | 8. *STROBE CONTROL - byte 2   | 1301 ÷ 65535          | 1 ÷ 25 Hz               |
| HSI    | 6/8*     | 1. DIMMER - byte 1            | 0 - 65535             | 0 ÷ 100 %               |
|        |          | 2. DIMMER - byte 2            |                       |                         |
|        |          | 3. HUE - byte 1               | 0 ÷ 65535             | 0 ÷ 360                 |
|        |          | 4. HUE - byte 2               |                       |                         |
|        |          | 5. SATURATION - byte 1        | 0 ÷ 65535             | 0 ÷ 100%                |
|        |          | 6. SATURATION - byte 2        |                       |                         |
|        |          | 7. *STROBE CONTROL - byte 1   | 0 ÷ 1300              | Ø                       |
|        |          | 8. *STROBE CONTROL - byte 2   | 1301 ÷ 65535          | 1 ÷ 25 Hz               |
| RGBW   | 14/16*   | 1. DIMMER - byte 1            | 0 - 65535             | 0 ÷ 100 %               |
|        |          | 2. DIMMER - byte 2            |                       |                         |
|        |          | 3. RED - byte 1               | 0 - 65535             | 0 ÷ 100 %               |
|        |          | 4. RED - byte 2               |                       |                         |
|        |          | 5. GREEN - byte 1             | 0 + 65535             | 0 ÷ 100 %               |
|        |          | 6. GREEN - byte 2             |                       |                         |
|        |          | 7. BLUE - byte 1              | 0 + 65535             | 0 ÷ 100 %               |
|        |          | 8. BLUE - byte 2              |                       |                         |
|        |          | 9. WHITE - byte 1             | 0 + 65535             | 0 ÷ 100 %               |
|        |          | 10. WHITE - byte 2            |                       |                         |
|        |          | 11. COLOR TEMPERAT. - byte 1  | 0 - 65535             | 6500 - 2700             |
|        |          | 12. COLOR TEMPERAT. - byte 2  |                       |                         |
| RGBW   | 14/16*   | 13. GN COMPENSATION - byte 1  | 0 ÷ 500               | Ø<br>-1,00 ÷ + 1,00     |
|        |          | 14. GN COMPENSATION - byte 2  | 501 ÷ 65535           |                         |
|        |          | 15. *STROBE CONTROL - byte 1  | 0 ÷ 1300              | Ø                       |
|        |          | 16. *STROBE CONTROL - byte 2  | 1301 ÷ 65535          | 1 ÷ 25 Hz               |
| FRGBW  | 14/16*   | 1. DIMMER - byte 1            | 0 - 65535             | 0 ÷ 100 %               |
|        |          | 2. DIMMER - byte 2            |                       |                         |
|        |          | 3. RED - byte 1               | 0 ÷ 65535             | 0 ÷ 100 %               |
|        |          | 4. RED - byte 2               |                       |                         |
|        |          | 5. GREEN - byte 1             | 0 ÷ 65535             | 0 ÷ 100 %               |
|        |          | 6. GREEN - byte 2             |                       |                         |
|        |          | 7. BLUE - byte 1              | 0 ÷ 65535             | 0 ÷ 100 %               |
|        |          | 8. BLUE - byte 2              |                       |                         |
|        |          | 9. WHITE - byte 1             | 0 ÷ 65535             | 0 ÷ 100 %               |
|        |          | 10. WHITE - byte 2            |                       |                         |
|        |          | 11. COLOR TEMPERAT. - byte 1  | 0 - 65535             | 6500 - 2700             |
|        |          | 12. COLOR TEMPERAT. - byte 2  |                       |                         |
|        |          | 13. GN COMPENSATION - byte 1  | 0 ÷ 500               | Ø<br>-1,00 ÷ + 1,00     |
|        |          | 14. GN COMPENSATION - byte 2  | 501 ÷ 65535           |                         |
|        |          | 15. *STROBE CONTROL - byte 1  | 0 ÷ 1300              | Ø                       |
|        |          | 16. *STROBE CONTROL - byte 2  | 1301 ÷ 65535          | 1 ÷ 25 Hz               |
| PRESET | 6/8*     | 1. DIMMER - byte 1            | 0 - 65535             | 0 ÷ 100 %               |
|        |          | 2. DIMMER - byte 2            |                       |                         |
|        |          | 3. PRESET - byte 1            | 0 ÷ 65535             | 0 ÷ N PRESET            |
|        |          | 4. PRESET - byte 2            |                       |                         |
|        |          | 5. PRESET FREEZE - byte 1     | 0 - 12800 > no freeze | 51200 ÷ 65535<br>freeze |
|        |          | 6. PRESET FREEZE - byte 2     |                       |                         |
|        |          | 7. *STROBE CONTROL - byte 1   | 0 ÷ 1300              | Ø                       |
|        |          | 8. *STROBE CONTROL - byte 2   | 1301 ÷ 65535          | 1 ÷ 25 Hz               |



# RDM

## Protocol Specification

| COMMAND                      | PID    | DESCRIPTION                                         |
|------------------------------|--------|-----------------------------------------------------|
| Manufacturer ID              | 0x0622 | Manufacturer identification number (LUPO Lighting). |
| <b>Device Identification</b> |        |                                                     |
| <b>Model ID</b>              |        | <b>Model identification number</b>                  |
|                              | 1      | DayledPRO 650 mono color                            |
|                              | 2      | DayledPRO 650 dual color                            |
|                              | 3      | DayledPRO 1000 mono color                           |
|                              | 4      | DayledPRO 1000 dual color                           |
|                              | 5      | DayledPRO 2000 mono color                           |
|                              | 6      | DayledPRO 2000 dual color                           |
|                              | 7      | SuperpanelPRO 30 dual color soft                    |
|                              | 8      | SuperpanelPRO 30 dual color hard                    |
|                              | 9      | SuperpanelPRO 30 full color soft                    |
|                              | 10     | SuperpanelPRO 30 full color hard                    |
|                              | 11     | SuperpanelPRO 60 dual color soft                    |
|                              | 12     | SuperpanelPRO 60 dual color hard                    |
|                              | 13     | SuperpanelPRO 60 full color soft                    |
|                              | 14     | SuperpanelPRO 60 full color hard                    |
|                              | 15     | ActionpanelPRO dual color soft                      |
|                              | 16     | ActionpanelPRO dual color hard                      |
|                              | 17     | ActionpanelPRO full color soft                      |
|                              | 18     | ActionpanelPRO full color hard                      |
|                              | 19     | Kickasspanel dual color                             |
|                              | 20     | Kickasspanel full color                             |
|                              | 21     | Lupoled monocolour                                  |
|                              | 22     | Lupoled dualcolor                                   |
|                              | 23     | MovielightPRO 300 monocolour                        |
|                              | 24     | MovielightPRO 300 dual color                        |
|                              | 25     | UltrapanelPRO 30 dual color soft                    |
|                              | 26     | UltrapanelPRO 30 dual color hard                    |
|                              | 27     | UltrapanelPRO 60 full color soft                    |
|                              | 28     | UltrapanelPRO 60 full color hard                    |
|                              | 29     | UltrapanelPRO 30 full color soft                    |
|                              | 30     | UltrapanelPRO 30 full color hard                    |
|                              | 31     | UltrapanelPRO 60 dual color soft                    |
|                              | 32     | UltrapanelPRO 60 dual color hard                    |
|                              | 33     | DayledPRO 650 PRO Full Color                        |
|                              | 34     | DayledPRO 1000 PRO Full Color                       |
|                              | 35     | DayledPRO 2000 PRO Full Color                       |

|                               |        |                                                                                                                       |
|-------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------|
|                               | 36     | DayledPRO 3000 full color                                                                                             |
|                               | 37     | Movielight 300 full color                                                                                             |
|                               | 38     | DayledPRO 3000 mono color                                                                                             |
|                               | 39     | DayledPRO 3000 dual color                                                                                             |
|                               | 40     | MovielightPRO 600 dual color                                                                                          |
|                               | 41     | DayledPRO 5000 monocolour                                                                                             |
|                               | 42     | DayledPRO 5000 dual color                                                                                             |
|                               | 43     | DayledPRO 5000 full color                                                                                             |
|                               | 44     | HyperpanelPRO 30 dual color soft                                                                                      |
|                               | 45     | HyperpanelPRO 30 dual color hard                                                                                      |
|                               | 46     | HyperpanelPRO 60 dual color soft                                                                                      |
|                               | 47     | HyperpanelPRO 60 dual color hard                                                                                      |
|                               | 48     | MovielightPRO 600 full color                                                                                          |
| <b>Personality MONOCOLOR</b>  |        | <b>DMX Personality</b>                                                                                                |
|                               | 0x01   | CCT                                                                                                                   |
| <b>Personality DUAL COLOR</b> |        | <b>DMX Personality</b>                                                                                                |
|                               | 0x01   | CCT                                                                                                                   |
|                               | 0x02   | PRESET                                                                                                                |
| <b>Personality FULL COLOR</b> |        | <b>DMX Personality</b>                                                                                                |
|                               | 0x01   | CCT                                                                                                                   |
|                               | 0x02   | HSI                                                                                                                   |
|                               | 0x03   | RGBW                                                                                                                  |
|                               | 0x04   | FRGBW                                                                                                                 |
|                               | 0x05   | PRESET                                                                                                                |
| <b>Network management</b>     |        |                                                                                                                       |
| DISC UNIQUE BRANCH            | 0x0001 | Search RDM devices                                                                                                    |
| DISC MUTE                     | 0x0002 | Mute RDM device, no response message                                                                                  |
| DISC UN MUTE                  | 0x0003 | Activate RDM device fo response message                                                                               |
| <b>Status collection</b>      |        |                                                                                                                       |
| QUEUED MESAGES                | 0x0020 | Retrieves queued messages or status message if no message is in queue                                                 |
| STATUS MESSAGES               | 0x0030 | Retrieves current Warning/Error messages                                                                              |
| <b>RDM Information</b>        |        |                                                                                                                       |
| SUPPORTED PARAMETERS          | 0x0050 | Retrieves a list of all supported RDM commands                                                                        |
| PARAMETER DESCRIPTION         | 0x0051 | Retrieves a list of all RDM commands                                                                                  |
| <b>Product Information</b>    |        |                                                                                                                       |
| DEVICE INFO                   | 0x0060 | Retrieves a variety of information about the device that is normally required by a controller.                        |
| DEVICE MODEL DESCRIPTION      | 0x0080 | Text description of up to 32 characters for the device model type.                                                    |
| MANUFACTURER LABEL            | 0x0081 | This parameter provides an ASCII text response with the Manufacturer name for the device. "LUPO" is the default name. |
| FACTORY DEFAULTS              | 0x0090 | Set the device to its factory defaults. Get: Check if settings still in default state -> 1 if default                 |
| SOFTWARE VERSION LABEL        | 0x00C0 | Retrieves software version string of main software                                                                    |

| <b>DMX512 Setup</b>          |        |                                                         |
|------------------------------|--------|---------------------------------------------------------|
| DMX PERSONALITY              | 0x00E0 | DMX mode                                                |
| DMX PERSONALITY DESCRIPTION  | 0x00E1 | Shows a description of a DMX-Mode, max 32 characters    |
| DMX START ADDRESS            | 0x00F0 | DMX address                                             |
| <b>Control</b>               |        |                                                         |
| IDENTIFY DEVICE              | 0x1000 | The identify flag (flashes the light)                   |
| <b>Manufacturer Commands</b> |        |                                                         |
| DISPLAY TIMEOUT              | 0x8002 | 0: 30 sec 1: 1 min 2: always on                         |
| DMX SIGNAL LOST MODE         | 0x8003 | 0: black out 1: last settings on 2: last settings 1 min |
| DMX BITS                     | 0x8004 | 0: 8 bit 1: 16 bit                                      |
| CCT LIMIT                    | 0x8005 | 0: 2800-10000 1: 3200-5600                              |
| LINEARIZATION                | 0x8006 | 0: linear 1: exponential 2: logarithmic                 |

## DEVICE SETTINGS

1. Press the **2** push button to enter the main MENU.
2. Navigate through the MENU rotating the **2** button, select **DEVICE SETTINGS**, press the **2** push button to confirm the selection.
3. Navigate through the MENU rotating the **2** button, select **GENERAL**, press the **2** push button to confirm the selection.
4. Navigate through the **FAN POWER / DISPLAY / FREQUENCY / FILTER / LINEARIZATION / CCT LIMIT** functions, rotating the **2** button to select the desired function and press the **2** push button to confirm the selection.
5. Within each function select the option to be activated and rotate the **2** button.

**Display:** Time during which the display backlight stays on. **30sec / 1min / ALWAYS ON.**

**Frequency:** Dimmer frequency 18 KHz - 25 KHz

**Filter:** It is the speed response of the system (smooth factor).

**FULL SPEED / NORMAL SPEED / HIGH SPEED / LOW SPEED.**

**Linearization:** Linearization is the compensation curve for the human eye's perception of the luminous intensity emitted as a function of the required power. Required power = dimmer value on the display. **LINEAR / EXPONENTIAL / LOGARITHMIC.**

**Linear:** No compensation, the intensity of the light is directly proportional to requested power.

**Exponential:** The light intensity increases from 0 to 100 exponentially.

**Logarithmic:** The light intensity increases from 0 to 100 logarithmically.

**CCT Limit:** CCT range 2800 - 6500 or 3200 - 5600

## RESET DEVICE

1. Press the « **OK** » **2** button to enter the main MENU.
2. Select **RESET DEVICE** rotating the **2** button, press the **2** push button to confirm the selection.
3. Select **YES** rotating the **2** button, press the **2** push button to confirm the selection.
4. The device ask for further confirmation, select **YES** by pressing the **2** push button. **THE DEVICE RETURNS TO FACTORY DEFAULT SETTINGS.**

## FACTORY DEFAULT SETTING

### MODE

CCT

### DMX OPERATION

BIT: 8 BIT

DMX SIGNAL LOSS: Settings 1 MIN

RDM ENABLE: OFF

INV - CCT: OFF

### DEVICE SETTINGS

DISPLAY: 1 min

FILTER : Normal speed

LINEARIZATION: Linear

FREQUENCY: 18 KHz

### CONTROL

Manual

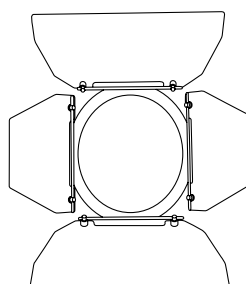
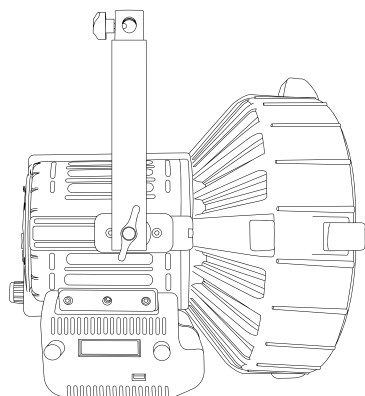
## USB PORT

Use USB port for firmware updates.

## Update the Firmware

1. Copy the file on an USB Pendrive (FAT32 formatted) in the main root;
2. Switch off the equipment and insert the USB Pendrive;
3. Switch on the equipment;
4. Wait until display backlight flashes (it takes several minutes and red led must toggle for all time long);
5. Switch off the equipment;
6. Extract the Pendrive and switch on the equipment: the firmware is updated.

## Package Contents for DayledPRO 3000



Barndoors

**⚠ ATTENTION:** Please keep the original package of the product in a safe place for warranty reasons.

## ACCESSORIES

### COMPLETE KIT OF V-MOUNT BATTERY POWER SUPPLY FOR DAYLEDPRO 3000.

The items are also sold separately.

#### Battery charger (cod.272)

This charger works with Lupo 95 Wh and 160 Wh batteries.

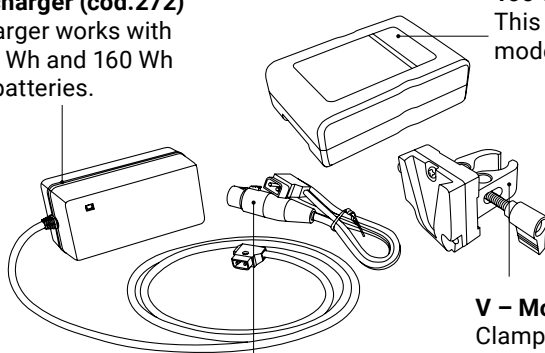
#### DayledPRO 650 / 1000

95 Wh battery (cod.271)

Dayled 2000

160 Wh battery (cod.271)

This batteries allows to power all Lupo models with AC/DC functioning.



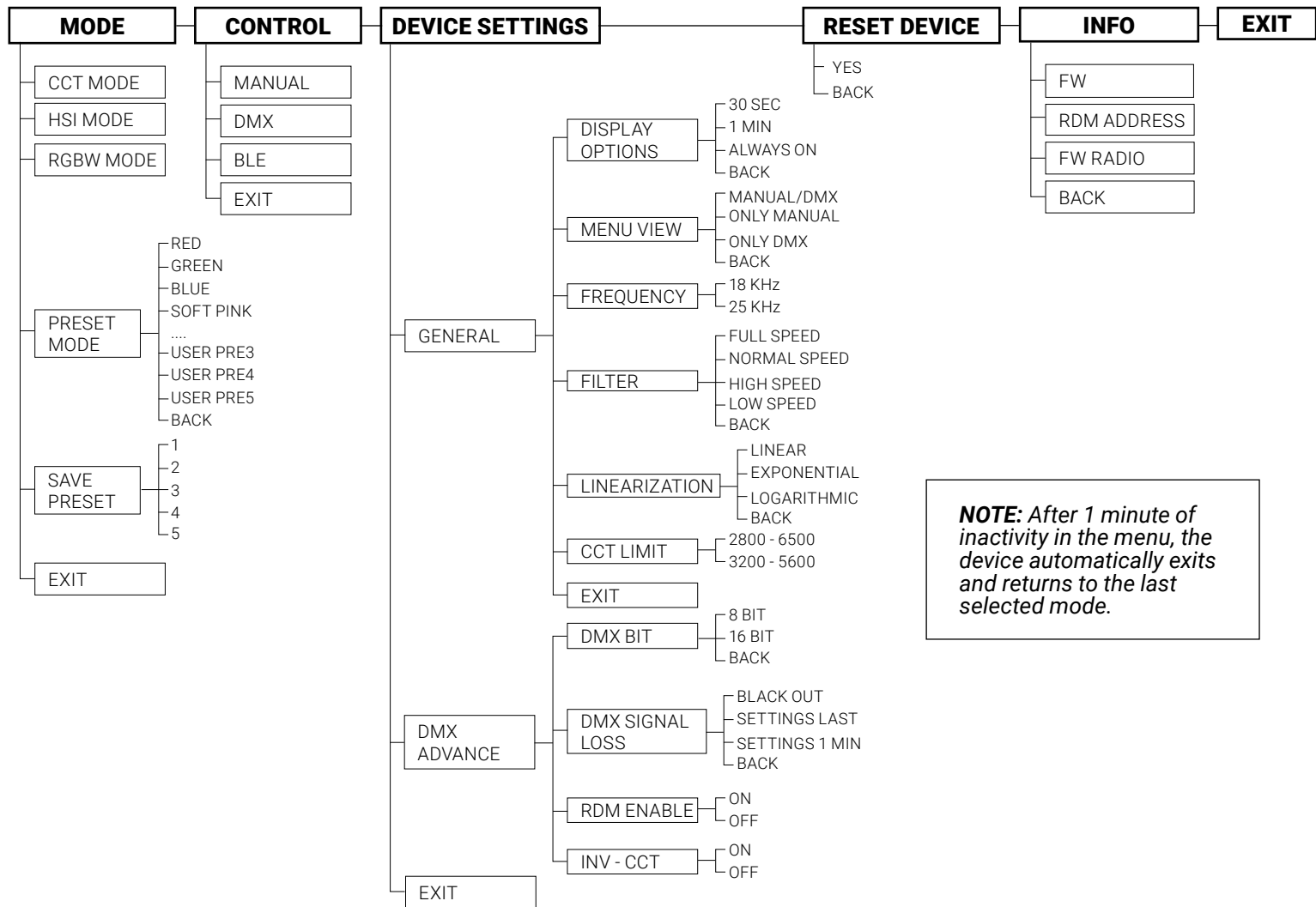
D - Tap cable (cod.313)

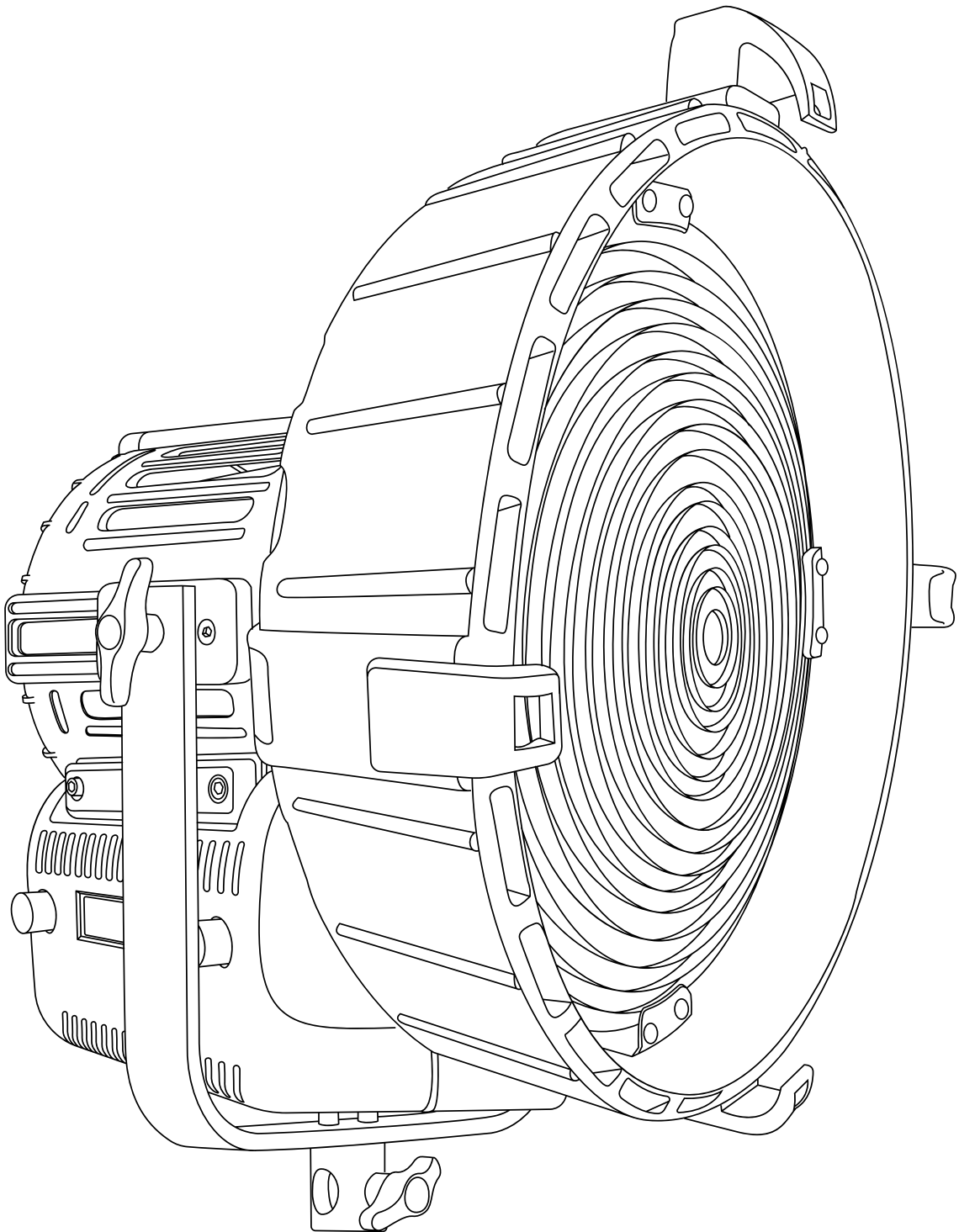
#### V - Mount clamp (cod.320)

Clamp for stand only is an essential accessory for lithium battery powered equipment. It accepts all standard V-Mount batteries.

## MENU e submenus

- Select **"EXIT"** to return to the current mode.
- Select **"BACK"** to return to the previous menu.





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**User Manuals**

**317 PRO DayledPRO Full Color 5000**

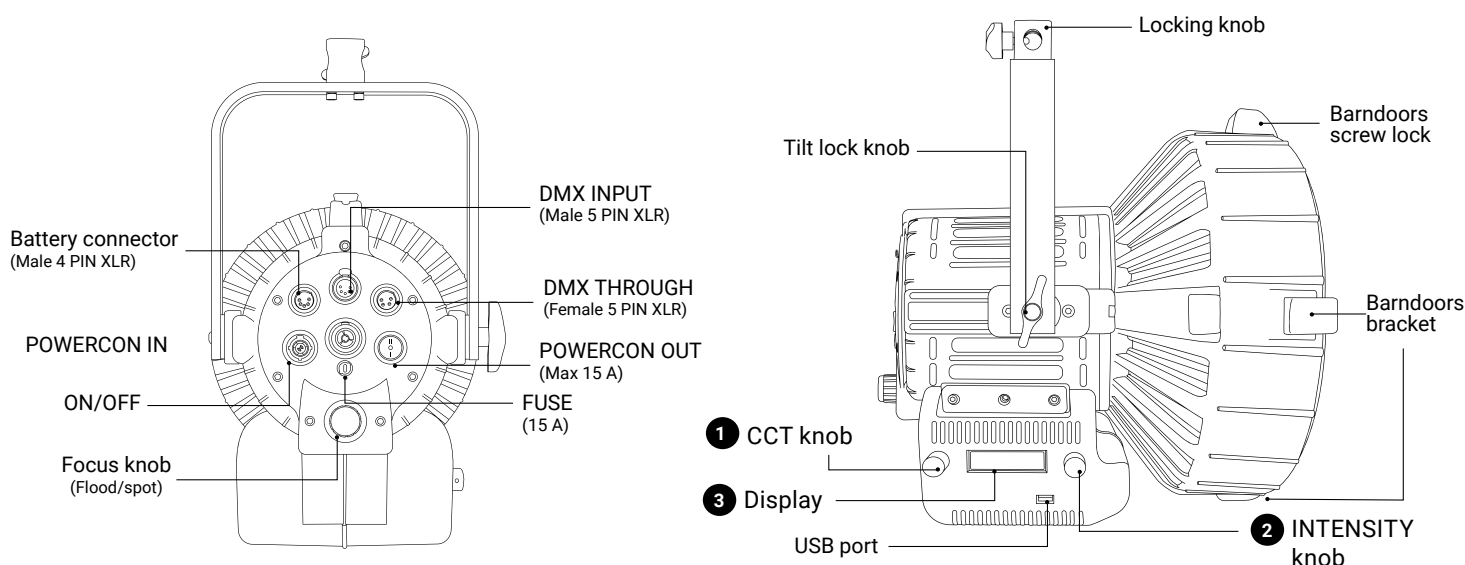


The luminaire should be positioned so that prolonged staring into the luminaire at a distance of 6 m is not expected.

## Instructions

- Device for indoor use only.
- Maximum ambient temperature: 40 °C.
- Make sure power supply plug is suitable to power required.
- As prescribed by international regulations, a safety cable must be used when the fixture is suspended from ceiling.
- To switch on the light push the on/off button.
- DayledPRO 5000 models are equipped with new generation high quality powerleds.

## Getting Started with the DayledPRO Full Color 5000



## CONTROL PANEL

- In current mode press the **2** push button to enter the main MENU.
- In the sub-menus press the **2** push button to confirm a selection.
- Rotate the **2** knob to navigate in the main MENU and sub-menus.
- Use the « **INTENSITY** » **2** knob to adjust the **light intensity from 0 to 100%**.
- Use the knob **1** to adjust the light mode parameters.
- Display **3**.

## MODE

1. Press the **2** push button to enter the main MENU.
2. Select **MODE** by pressing the **2** push button.
3. Select the light mode among **CCT** with the **2** knob and press the **2** push button to confirm selection.
4. Select among **CCT / HSI / RGBW / PRESET / EFFECT / SAVE PRESET** with the **2** knob and press the **2** push button to confirm selection
5. See **LIGHT MODES**.

## LIGHT MODES

| MODE   | INTENSITY 4                       | CCT/HUE 5            | GN/SAT/COLOR 6                | GN/SAT/COLOR 6                |
|--------|-----------------------------------|----------------------|-------------------------------|-------------------------------|
| CCT    | Light Intensity<br>from 0 to 100% | CT 2800 K to 10000 K | GN - 1.00 to + 1.00           | -                             |
| HSI    |                                   | HUE 0° to 100°       | SAT 0 to 100%                 | -                             |
| RGBW   |                                   | -                    | Select function R/G/B/W/CT/GN | Change values of the function |
| PRESET |                                   | -                    | -                             | Change Preset                 |

**CCT MODE:** Warm and cold white control mode. It allows you to adjust colour temperature (CCT), green/magenta compensation (GN) and light intensity. *This is the default setting.*

1. In MODE menu select **EFFECT MODE**.
2. Select the EFFECT to be activated with rotate the ❷ button, confirm the selection by pressing the ❷ push button.
3. Use the knob ❷ to change the DIMMER and the knob ❶ to adjust the effect setting values.

**⚠ ATTENTION:** Rotating the ❶ knob changes the CT value- Pressing ❶ button select GN value that can be changed by rotating the same ❶ knob.

## DMX OPERATIONS

1. Press the ❷ push button to enter the main MENU.
2. Select **CONTROL** with the ❷ knob and press the ❷ push button to confirm selection.
3. Select **DMX** with the ❷ knob and press the ❷ push button to confirm selection.
4. Select the DMX channel, rotating the ❶ knob to change DMX ADDRESS in ascending or descending order among 1 and 512. The number shown on the display ❸ is the selected channel to communicate with the control desk.
5. See **DMX PROTOCOL MANUAL** for DMX channel specification.

**NOTE:** The symbol - ! - on the display indicates that there is **no DMX signal**.

## BLUETOOTH

1. Press the ❷ push button to enter the main MENU.
1. Select **CONTROL** with the ❷ knob and press the ❷ push button to confirm selection.
2. Select **BLE** with the ❷ knob and press the ❷ push button to confirm selection.

## DMX OPERATIONS - Advanced Settings

1. Press the ❷ push button to enter the main MENU.
2. Navigate through the main MENU with the ❷ knob until **DEVICE SETTINGS** and press the ❷ push button to confirm selection.
3. Rotate the ❷ knob to select **DMX ADVANCED**, press the ❷ push button to confirm selection.
4. Select one of the options among the **DMX BIT**, **DMX SIGNAL LOSS**, **RDM ENABLE**, **STROBE ENABLE** and **INV CCT** press ❷ push button to confirm the selection.

### DMX BIT:

Resolution of the DMX control. 8bit 1 channel per function and 16 bit 2 channels per function.

1. Select the **DMX BIT** item by pressing the ❷ push button.
2. Rotate the ❷ knob to choose between **8bit / 16bit**, press the ❷ push button to confirm the selected setting. See **DMX PROTOCOL MANUAL**.

### DMX SIGNAL LOSS:

This feature allows to choose the device's behaviour in case of a DMX signal loss.

1. Select the **LOSS DMX SIGNAL** item with the ❷ push button
2. Rotate the ❷ knob to select the device's behaviour among **BLACK OUT /SETTINGS LAST / SETTINGS 1min**, press the ❷ push button to confirm the setting.

**Black out:** The device switches off.

**Settings Last:** The values of the last selected setting are maintained over time until the device is switched off.

**Settings 1min:** The values of the last selected settings is maintained for one minute and then the device switch off.

**RDM Enable:** ON/OFF, enable/disable RDM Protocol

**INV CCT:** ON/FF: enable/disable reversal CCT console control



# DMX Protocol

## Introduction

The DayledPRO models can be used with 8 bit or 16 bit DMX control. (See *DMX OPERATION - advanced settings* in the user's manual). When used in **8 bit mode** the panels uses **one channel for each function**. DMX values for each channel are in the range of 0 to 255. When used in **16 bit mode** the panels uses **two channels for each function**. The increased resolution offers a smooth dimming and a more accurate color adjustment. DMX values for the first channel (byte 1) are in the range of 256 to 65535 while for the second channel (byte 2) they are in the range of 0 to 255.

**⚠ ATTENTION:** The symbol - ! - on the display indicates that there is **no DMX signal**.

**⚠ ATTENTION:** \* If the **STROBE** in the DMX ADVANCED SETTINGS is enabled, there are 1 more channel in 8 bit and 2 more channels in 16 bit:

## DMX Channel Protocol - 8 bit

| MODE   | CHANNELS | DMX CHANNEL POSITION | DMX VALUE | VALUE           |
|--------|----------|----------------------|-----------|-----------------|
| CCT    | 3/4*     | 1. DIMMER            | 0 - 255   | 0 - 100 %       |
|        |          | 2. COLOR TEMPERATURE | 0 - 255   | 6500 - 2700     |
|        |          | 3. GN COMPENSATION   | 0 ÷ 5     | Ø               |
|        |          |                      | 6 ÷ 255   | - 1,00 ÷ + 1,00 |
|        |          | 4. *STROBE CONTROL   | 0 ÷ 5     | Ø               |
|        |          |                      | 6 ÷ 255   | 1 ÷ 25 Hz       |
| HSI    | 3/4*     | 1. DIMMER            | 0 - 255   | 0 ÷ 100 %       |
|        |          | 2. HUE               | 0 ÷ 253   | 0 ÷ 360         |
|        |          | 3. SATURATION        | 0 ÷ 255   | 0 ÷ 100 %       |
|        |          | 4. *STROBE CONTROL   | 0 ÷ 255   | 0 - 25 Hz       |
| RGBW   | 7/8*     | 1. DIMMER            | 0 - 255   | 0 ÷ 100 %       |
|        |          | 2. RED               | 0 ÷ 255   | 0 ÷ 100 %       |
|        |          | 3. GREEN             | 0 ÷ 255   | 0 ÷ 100 %       |
|        |          | 4. BLUE              | 0 ÷ 255   | 0 ÷ 100 %       |
|        |          | 5. WHITE             | 0 ÷ 255   | 0 ÷ 100 %       |
|        |          | 6. COLOR TEMPERATURE | 0 - 255   | 6500 - 2700     |
|        |          |                      | 0 ÷ 5     | Ø               |
|        |          |                      | 6 ÷ 255   | - 1.00 ÷ +1.00  |
|        |          | 8. * STROBE CONTROL  | 0 ÷ 255   | 0 - 25 Hz       |
| FRGBW  | 7/8*     | 1. DIMMER            | 0 - 255   | 0 ÷ 100 %       |
|        |          | 2. RED               | 0 ÷ 255   | 0 ÷ 100 %       |
|        |          | 3. GREEN             | 0 ÷ 255   | 0 ÷ 100 %       |
|        |          | 4. BLUE              | 0 ÷ 255   | 0 ÷ 100 %       |
|        |          | 5. WHITE             | 0 ÷ 255   | 0 ÷ 100 %       |
|        |          | 6. COLOR TEMPERATURE | 0 - 255   | 6500 - 2700     |
|        |          |                      | 0 ÷ 5     | Ø               |
|        |          |                      | 6 ÷ 255   | - 1.00 ÷ +1.00  |
|        |          | 8. * STROBE CONTROL  | 0 ÷ 255   | 0 - 25 Hz       |
| PRESET | 3/4*     | 1. DIMMER            | 0 - 255   | 0 ÷ 100 %       |
|        |          | 2. PRESET            | 0 ÷ 255   | 0 ÷ N PRESET    |
|        |          | 3. PRESET FREEZE     | 0 - 50    | NO FREEZE       |
|        |          |                      | 200 ÷ 255 | FREEZE          |
|        |          | 4. * STROBE CONTROL  | 0 ÷ 255   | 0 - 25 Hz       |

| MODE   | CHANNELS | DMX CHANNEL POSITION          | DMX VALUE             | VALUE                   |
|--------|----------|-------------------------------|-----------------------|-------------------------|
| CCT    | 6/8*     | 1. DIMMER - byte 1            | 0 - 65535             | 0 ÷ 100 %               |
|        |          | 2. DIMMER - byte 2            |                       |                         |
|        |          | 3. COLOR TEMPERATURE - byte 1 | 0 - 65535             | 6500 - 2700             |
|        |          | 4. COLOR TEMPERATURE - byte 2 |                       |                         |
|        |          | 5. GN COMPENSATION - byte 1   | 0 ÷ 500               | Ø<br>- 1.00 ÷ + 1.00    |
|        |          | 6. GN COMPENSATION - byte 2   | 501 ÷ 65535           |                         |
|        |          | 7. *STROBE CONTROL - byte 1   | 0 ÷ 1300              | Ø                       |
|        |          | 8. *STROBE CONTROL - byte 2   | 1301 ÷ 65535          | 1 ÷ 25 Hz               |
| HSI    | 6/8*     | 1. DIMMER - byte 1            | 0 - 65535             | 0 ÷ 100 %               |
|        |          | 2. DIMMER - byte 2            |                       |                         |
|        |          | 3. HUE - byte 1               | 0 ÷ 65535             | 0 ÷ 360                 |
|        |          | 4. HUE - byte 2               |                       |                         |
|        |          | 5. SATURATION - byte 1        | 0 ÷ 65535             | 0 ÷ 100%                |
|        |          | 6. SATURATION - byte 2        |                       |                         |
|        |          | 7. *STROBE CONTROL - byte 1   | 0 ÷ 1300              | Ø                       |
|        |          | 8. *STROBE CONTROL - byte 2   | 1301 ÷ 65535          | 1 ÷ 25 Hz               |
| RGBW   | 14/16*   | 1. DIMMER - byte 1            | 0 - 65535             | 0 ÷ 100 %               |
|        |          | 2. DIMMER - byte 2            |                       |                         |
|        |          | 3. RED - byte 1               | 0 - 65535             | 0 ÷ 100 %               |
|        |          | 4. RED - byte 2               |                       |                         |
|        |          | 5. GREEN - byte 1             | 0 + 65535             | 0 ÷ 100 %               |
|        |          | 6. GREEN - byte 2             |                       |                         |
|        |          | 7. BLUE - byte 1              | 0 + 65535             | 0 ÷ 100 %               |
|        |          | 8. BLUE - byte 2              |                       |                         |
|        |          | 9. WHITE - byte 1             | 0 + 65535             | 0 ÷ 100 %               |
|        |          | 10. WHITE - byte 2            |                       |                         |
|        |          | 11. COLOR TEMPERAT. - byte 1  | 0 - 65535             | 6500 - 2700             |
|        |          | 12. COLOR TEMPERAT. - byte 2  |                       |                         |
| RGBW   | 14/16*   | 13. GN COMPENSATION - byte 1  | 0 ÷ 500               | Ø<br>-1,00 ÷ + 1,00     |
|        |          | 14. GN COMPENSATION - byte 2  | 501 ÷ 65535           |                         |
|        |          | 15. *STROBE CONTROL - byte 1  | 0 ÷ 1300              | Ø                       |
|        |          | 16. *STROBE CONTROL - byte 2  | 1301 ÷ 65535          | 1 ÷ 25 Hz               |
| FRGBW  | 14/16*   | 1. DIMMER - byte 1            | 0 - 65535             | 0 ÷ 100 %               |
|        |          | 2. DIMMER - byte 2            |                       |                         |
|        |          | 3. RED - byte 1               | 0 ÷ 65535             | 0 ÷ 100 %               |
|        |          | 4. RED - byte 2               |                       |                         |
|        |          | 5. GREEN - byte 1             | 0 ÷ 65535             | 0 ÷ 100 %               |
|        |          | 6. GREEN - byte 2             |                       |                         |
|        |          | 7. BLUE - byte 1              | 0 ÷ 65535             | 0 ÷ 100 %               |
|        |          | 8. BLUE - byte 2              |                       |                         |
|        |          | 9. WHITE - byte 1             | 0 ÷ 65535             | 0 ÷ 100 %               |
|        |          | 10. WHITE - byte 2            |                       |                         |
|        |          | 11. COLOR TEMPERAT. - byte 1  | 0 - 65535             | 6500 - 2700             |
|        |          | 12. COLOR TEMPERAT. - byte 2  |                       |                         |
|        |          | 13. GN COMPENSATION - byte 1  | 0 ÷ 500               | Ø<br>-1,00 ÷ + 1,00     |
|        |          | 14. GN COMPENSATION - byte 2  | 501 ÷ 65535           |                         |
|        |          | 15. *STROBE CONTROL - byte 1  | 0 ÷ 1300              | Ø                       |
|        |          | 16. *STROBE CONTROL - byte 2  | 1301 ÷ 65535          | 1 ÷ 25 Hz               |
| PRESET | 6/8*     | 1. DIMMER - byte 1            | 0 - 65535             | 0 ÷ 100 %               |
|        |          | 2. DIMMER - byte 2            |                       |                         |
|        |          | 3. PRESET - byte 1            | 0 ÷ 65535             | 0 ÷ N PRESET            |
|        |          | 4. PRESET - byte 2            |                       |                         |
|        |          | 5. PRESET FREEZE - byte 1     | 0 - 12800 > no freeze | 51200 ÷ 65535<br>freeze |
|        |          | 6. PRESET FREEZE - byte 2     |                       |                         |
|        |          | 7. *STROBE CONTROL - byte 1   | 0 ÷ 1300              | Ø                       |
|        |          | 8. *STROBE CONTROL - byte 2   | 1301 ÷ 65535          | 1 ÷ 25 Hz               |

# RDM

## Protocol Specification

| COMMAND                      | PID    | DESCRIPTION                                         |
|------------------------------|--------|-----------------------------------------------------|
| Manufacturer ID              | 0x0622 | Manufacturer identification number (LUPO Lighting). |
| <b>Device Identification</b> |        |                                                     |
| <b>Model ID</b>              |        | <b>Model identification number</b>                  |
|                              | 1      | DayledPRO 650 mono color                            |
|                              | 2      | DayledPRO 650 dual color                            |
|                              | 3      | DayledPRO 1000 mono color                           |
|                              | 4      | DayledPRO 1000 dual color                           |
|                              | 5      | DayledPRO 2000 mono color                           |
|                              | 6      | DayledPRO 2000 dual color                           |
|                              | 7      | SuperpanelPRO 30 dual color soft                    |
|                              | 8      | SuperpanelPRO 30 dual color hard                    |
|                              | 9      | SuperpanelPRO 30 full color soft                    |
|                              | 10     | SuperpanelPRO 30 full color hard                    |
|                              | 11     | SuperpanelPRO 60 dual color soft                    |
|                              | 12     | SuperpanelPRO 60 dual color hard                    |
|                              | 13     | SuperpanelPRO 60 full color soft                    |
|                              | 14     | SuperpanelPRO 60 full color hard                    |
|                              | 15     | ActionpanelPRO dual color soft                      |
|                              | 16     | ActionpanelPRO dual color hard                      |
|                              | 17     | ActionpanelPRO full color soft                      |
|                              | 18     | ActionpanelPRO full color hard                      |
|                              | 19     | Kickasspanel dual color                             |
|                              | 20     | Kickasspanel full color                             |
|                              | 21     | Lupoled monocolour                                  |
|                              | 22     | Lupoled dualcolor                                   |
|                              | 23     | MovielightPRO 300 monocolour                        |
|                              | 24     | MovielightPRO 300 dual color                        |
|                              | 25     | UltrapanelPRO 30 dual color soft                    |
|                              | 26     | UltrapanelPRO 30 dual color hard                    |
|                              | 27     | UltrapanelPRO 60 full color soft                    |
|                              | 28     | UltrapanelPRO 60 full color hard                    |
|                              | 29     | UltrapanelPRO 30 full color soft                    |
|                              | 30     | UltrapanelPRO 30 full color hard                    |
|                              | 31     | UltrapanelPRO 60 dual color soft                    |
|                              | 32     | UltrapanelPRO 60 dual color hard                    |
|                              | 33     | DayledPRO 650 PRO Full Color                        |
|                              | 34     | DayledPRO 1000 PRO Full Color                       |
|                              | 35     | DayledPRO 2000 PRO Full Color                       |

|                               |        |                                                                                                                       |
|-------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------|
|                               | 36     | DayledPRO 3000 full color                                                                                             |
|                               | 37     | Movielight 300 full color                                                                                             |
|                               | 38     | DayledPRO 3000 mono color                                                                                             |
|                               | 39     | DayledPRO 3000 dual color                                                                                             |
|                               | 40     | MovielightPRO 600 dual color                                                                                          |
|                               | 41     | DayledPRO 5000 monocolor                                                                                              |
|                               | 42     | DayledPRO 5000 dual color                                                                                             |
|                               | 43     | DayledPRO 5000 full color                                                                                             |
|                               | 44     | HyperpanelPRO 30 dual color soft                                                                                      |
|                               | 45     | HyperpanelPRO 30 dual color hard                                                                                      |
|                               | 46     | HyperpanelPRO 60 dual color soft                                                                                      |
|                               | 47     | HyperpanelPRO 60 dual color hard                                                                                      |
|                               | 48     | MovielightPRO 600 full color                                                                                          |
| <b>Personality MONOCOLOR</b>  |        | <b>DMX Personality</b>                                                                                                |
|                               | 0x01   | CCT                                                                                                                   |
| <b>Personality DUAL COLOR</b> |        | <b>DMX Personality</b>                                                                                                |
|                               | 0x01   | CCT                                                                                                                   |
|                               | 0x02   | PRESET                                                                                                                |
| <b>Personality FULL COLOR</b> |        | <b>DMX Personality</b>                                                                                                |
|                               | 0x01   | CCT                                                                                                                   |
|                               | 0x02   | HSI                                                                                                                   |
|                               | 0x03   | RGBW                                                                                                                  |
|                               | 0x04   | FRGBW                                                                                                                 |
|                               | 0x05   | PRESET                                                                                                                |
| <b>Network management</b>     |        |                                                                                                                       |
| DISC UNIQUE BRANCH            | 0x0001 | Search RDM devices                                                                                                    |
| DISC MUTE                     | 0x0002 | Mute RDM device, no response message                                                                                  |
| DISC UN MUTE                  | 0x0003 | Activate RDM device fo response message                                                                               |
| <b>Status collection</b>      |        |                                                                                                                       |
| QUEUED MESAGES                | 0x0020 | Retrieves queued messages or status message if no message is in queue                                                 |
| STATUS MESSAGES               | 0x0030 | Retrieves current Warning/Error messages                                                                              |
| <b>RDM Information</b>        |        |                                                                                                                       |
| SUPPORTED PARAMETERS          | 0x0050 | Retrieves a list of all supported RDM commands                                                                        |
| PARAMETER DESCRIPTION         | 0x0051 | Retrieves a list of all RDM commands                                                                                  |
| <b>Product Information</b>    |        |                                                                                                                       |
| DEVICE INFO                   | 0x0060 | Retrieves a variety of information about the device that is normally required by a controller.                        |
| DEVICE MODEL DESCRIPTION      | 0x0080 | Text description of up to 32 characters for the device model type.                                                    |
| MANUFACTURER LABEL            | 0x0081 | This parameter provides an ASCII text response with the Manufacturer name for the device. "LUPO" is the default name. |
| FACTORY DEFAULTS              | 0x0090 | Set the device to its factory defaults. Get: Check if settings still in default state -> 1 if default                 |
| SOFTWARE VERSION LABEL        | 0x00C0 | Retrieves software version string of main software                                                                    |

| DMX512 Setup                |        |                                                         |
|-----------------------------|--------|---------------------------------------------------------|
| DMX PERSONALITY             | 0x00E0 | DMX mode                                                |
| DMX PERSONALITY DESCRIPTION | 0x00E1 | Shows a description of a DMX-Mode, max 32 characters    |
| DMX START ADDRESS           | 0x00F0 | DMX address                                             |
| Control                     |        |                                                         |
| IDENTIFY DEVICE             | 0x1000 | The identify flag (flashes the light)                   |
| Manufacturer Commands       |        |                                                         |
| DISPLAY TIMEOUT             | 0x8002 | 0: 30 sec 1: 1 min 2: always on                         |
| DMX SIGNAL LOST MODE        | 0x8003 | 0: black out 1: last settings on 2: last settings 1 min |
| DMX BITS                    | 0x8004 | 0: 8 bit 1: 16 bit                                      |
| CCT LIMIT                   | 0x8005 | 0: 2800-10000 1: 3200-5600                              |
| LINEARIZATION               | 0x8006 | 0: linear 1: exponential 2: logarithmic                 |

## DEVICE SETTINGS

1. Press the **2** push button to enter the main MENU.
2. Navigate through the MENU rotating the **2** button, select **DEVICE SETTINGS**, press the **2** push button to confirm the selection.
3. Navigate through the MENU rotating the **2** button, select **GENERAL**, press the **2** push button to confirm the selection.
4. Navigate through the **FAN POWER / DISPLAY / FREQUENCY / FILTER / LINEARIZATION / CCT LIMIT** functions, rotating the **2** button to select the desired function and press the **2** push button to confirm the selection.
5. Within each function select the option to be activated and rotate the **2** button.

**Display:** Time during which the display backlight stays on. **30sec / 1min / ALWAYS ON.**

**Frequency:** Dimmer frequency 18 KHz - 25 KHz

**Filter:** It is the speed response of the system (smooth factor).

**FULL SPEED / NORMAL SPEED / HIGH SPEED / LOW SPEED.**

**Linearization:** Linearization is the compensation curve for the human eye's perception of the luminous intensity emitted as a function of the required power. Required power = dimmer value on the display. **LINEAR / EXPONENTIAL / LOGARITHMIC.**

**Linear:** No compensation, the intensity of the light is directly proportional to requested power.

**Exponential:** The light intensity increases from 0 to 100 exponentially.

**Logarithmic:** The light intensity increases from 0 to 100 logarithmically.

**CCT Limit:** CCT range 2800 - 6500 or 3200 - 5600

## RESET DEVICE

1. Press the « OK » **2** button to enter the main MENU.
2. Select **RESET DEVICE** rotating the **2** button, press the **2** push button to confirm the selection.
3. Select **YES** rotating the **2** button, press the **2** push button to confirm the selection.
4. The device ask for further confirmation, select **YES** by pressing the **2** push button. **THE DEVICE RETURNS TO FACTORY DEFAULT SETTINGS.**

## FACTORY DEFAULT SETTING

### MODE

CCT

### DMX OPERATION

BIT: 8 BIT

DMX SIGNAL LOSS: Settings 1 MIN

RDM ENABLE: OFF

INV - CCT: OFF

### DEVICE SETTINGS

DISPLAY: 1 min

FILTER : Normal speed

LINEARIZATION: Linear

FREQUENCY: 18 KHz

### CONTROL

Manual

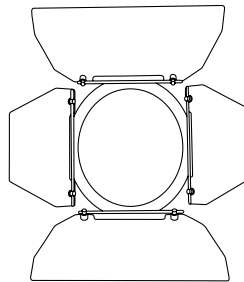
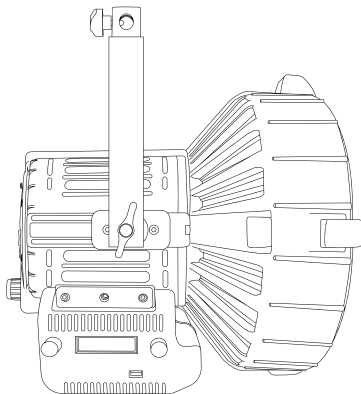
## USB PORT

Use USB port for firmware updates.

## Update the Firmware

1. Copy the file on an USB Pendrive (FAT32 formatted) in the main root;
2. Switch off the equipment and insert the USB Pendrive;
3. Switch on the equipment;
4. Wait until display backlight flashes (it takes several minutes and red led must toggle for all time long);
5. Switch off the equipment;
6. Extract the Pendrive and switch on the equipment: the firmware is updated.

## Package Contents for DayledPRO 3000



Barndoors

**⚠ ATTENTION:** Please keep the original package of the product in a safe place for warranty reasons.

## ACCESSORIES

### COMPLETE KIT OF V-MOUNT BATTERY POWER SUPPLY FOR DAYLEDPRO 3000.

The items are also sold separately.

#### Battery charger (cod.272)

This charger works with Lupo 95 Wh and 160 Wh batteries.

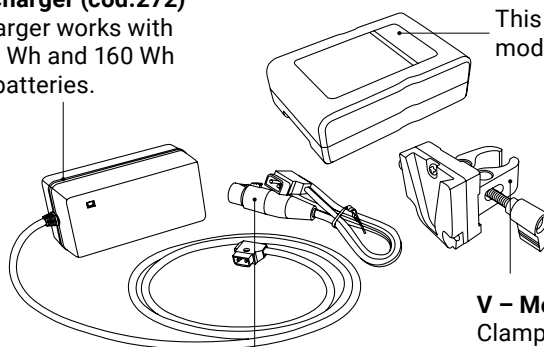
#### DayledPRO 650 / 1000

95 Wh battery (cod.271)

#### Dayled 2000

160 Wh battery (cod.271)

This batteries allows to power all Lupo models with AC/DC functioning.



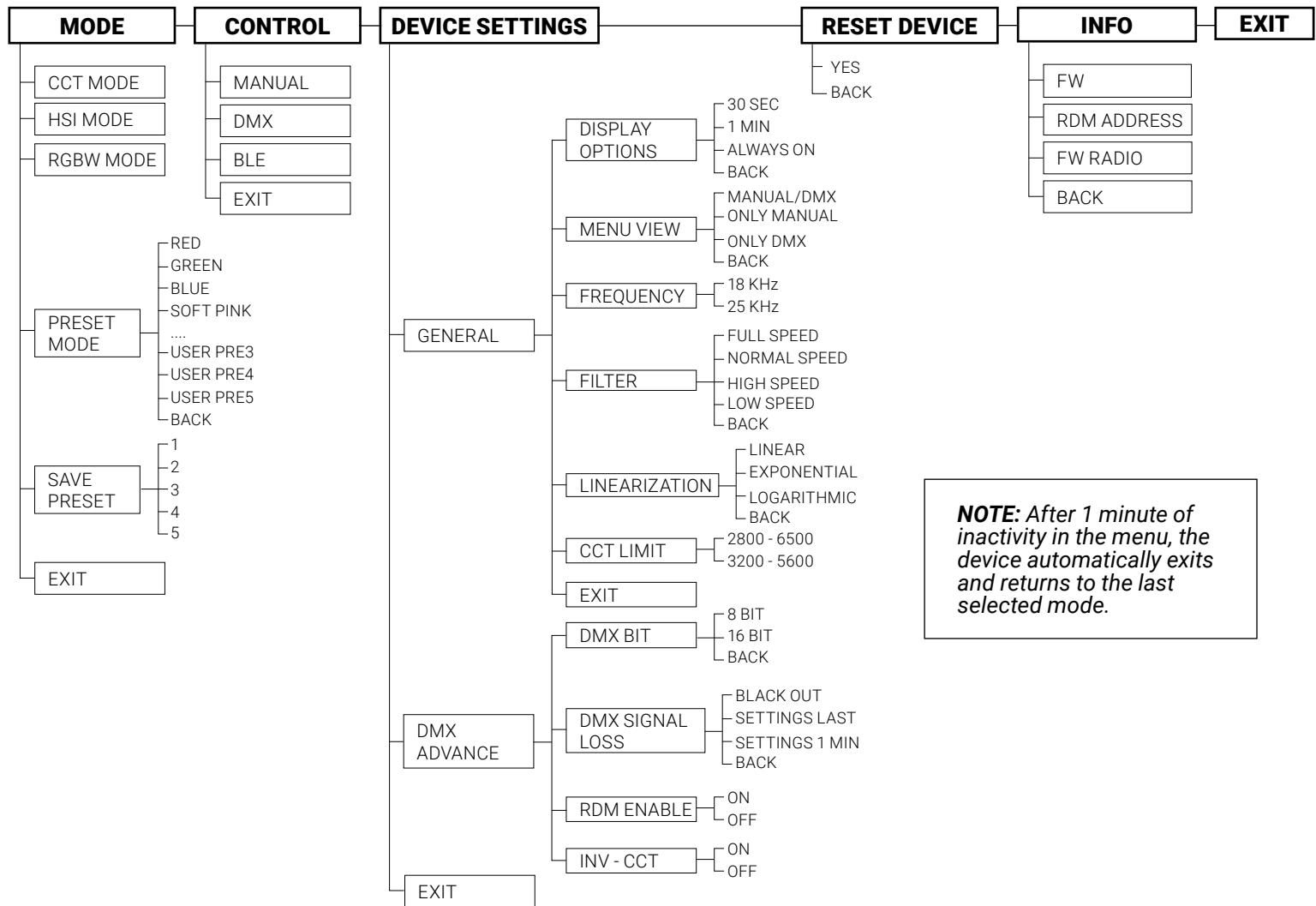
D - Tap cable (cod.313)

#### V - Mount clamp (cod.320)

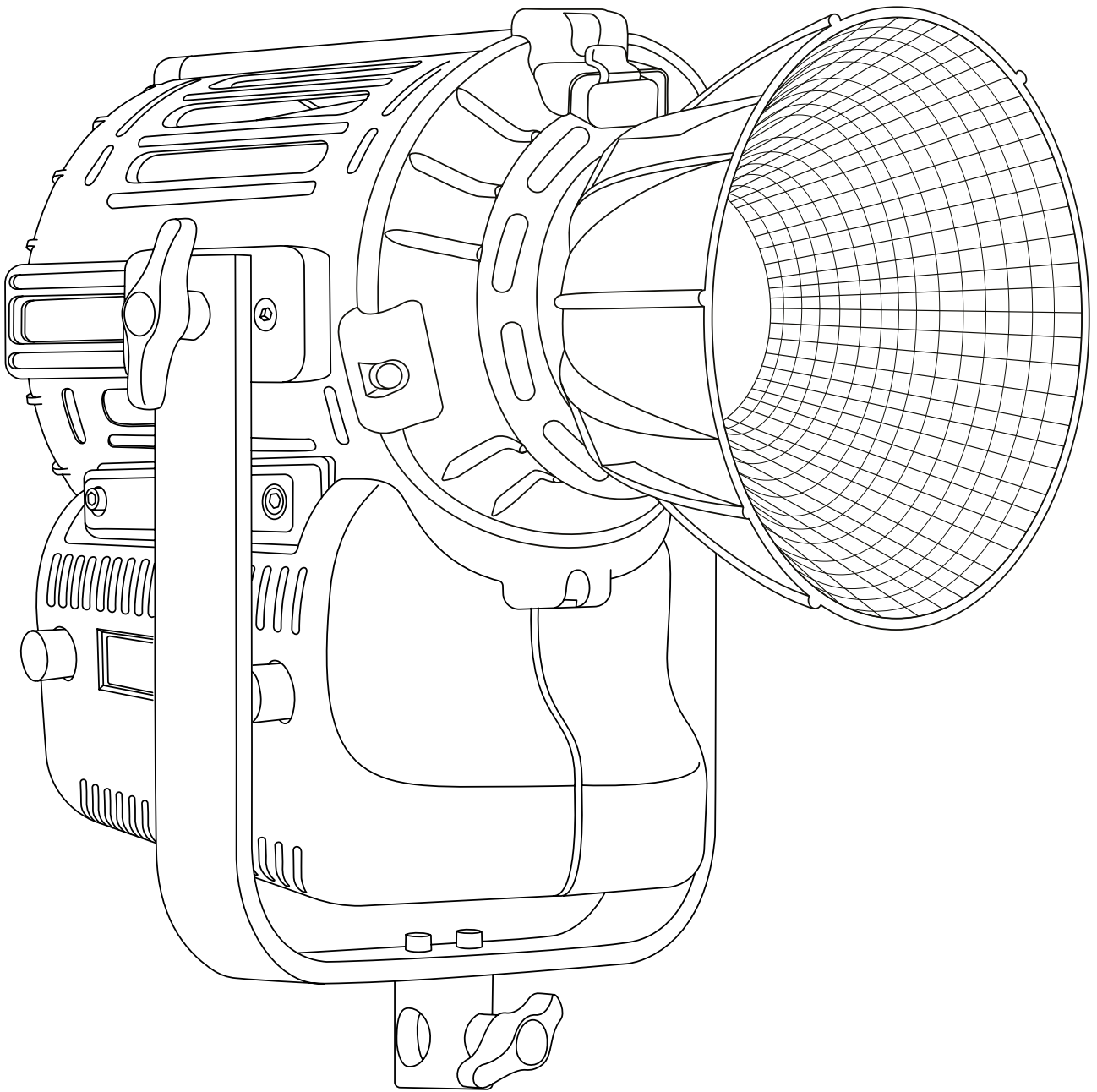
Clamp for stand only is an essential accessory for lithium battery powered equipment. It accepts all standard V-Mount batteries.

## MENU e submenus

- Select **"EXIT"** to return to the current mode.
- Select **"BACK"** to return to the previous menu.



**NOTE:** After 1 minute of inactivity in the menu, the device automatically exits and returns to the last selected mode.



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## User Manuals

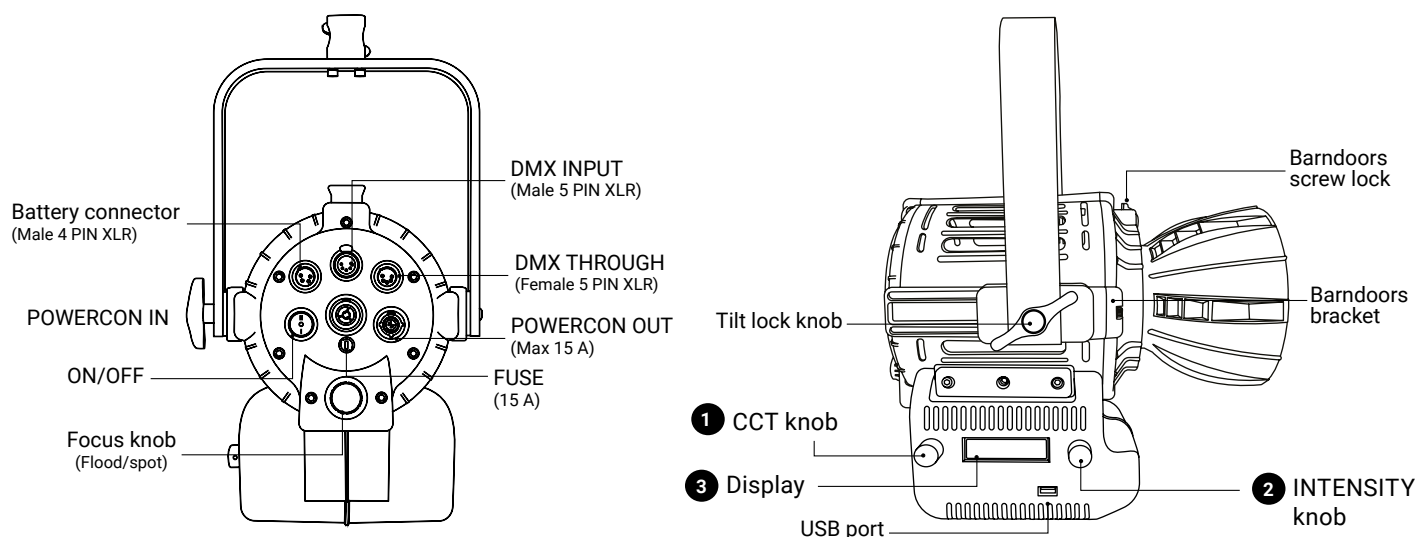
**900 MovielightPRO 300**  
**901 MovielightPRO Dual Color 300**



## Instructions

- Max input current for daisy chain: 15 A
- Device for indoor use only.
- Protection standard IP20.
- Maximum ambient temperature: 45 °C.
- Make sure power supply plug is suitable to power required.
- As prescribed by international regulations, a safety cable must be used when the fixture is suspended from ceiling.
- To switch on the light push the on/off button.

## Getting Started with the Movielight 300



## CONTROL PANEL

- In current mode press the ② push button to enter the main MENU.
- In the sub-menus press the ② push button to confirm a selection.
- Rotate the ② knob to navigate in the main MENU and sub-menus.
- Use the « **INTENSITY** » ② knob to adjust the **light intensity from 0 to 100%**.
- Use the knob ① to adjust the light mode parameters.
- Display ③.

## MODE

1. Press the ② push button to enter the main MENU.
2. Select **MODE** by pressing the ② push button.
3. Select the light mode among **CCT** with the ② knob and press the ② push button to confirm selection.
4. Select among **CCT / PRESET / SAVE PRESET** with the ② knob and press the ② push button to confirm selection
5. See **LIGHT MODES**.

## LIGHT MODES

| MODE | INTENSITY ④     | CCT/HUE ⑤            | GN/SAT/COLOR ⑥ | GN/SAT/COLOR ⑥ |
|------|-----------------|----------------------|----------------|----------------|
| CCT  | Light Intensity | CT 2800 K to 10000 K | -              | -              |

**CCT MODE:** Warm and cold white control mode. It allows you to adjust colour temperature (CCT), and light intensity. *This is the default setting.*

**⚠ ATTENTION:** Rotating the ❶ knob changes the CT value- Pressing ❶ button select GN value that can be changed by rotating the same ❶ knob.

## DMX OPERATIONS

1. Press the ❷ push button to enter the main MENU.
2. Select **CONTROL** with the ❷ knob and press the ❷ push button to confirm selection.
3. Select **DMX** with the ❷ knob and press the ❷ push button to confirm selection.
4. Select the DMX channel, rotating the ❶ knob to change DMX ADDRESS in ascending or descending order among 1 and 512. The number shown on the display ❸ is the selected channel to communicate with the control desk.
5. See **DMX PROTOCOL MANUAL** for DMX channel specification.

**NOTE:** The symbol - ! - on the display indicates that there is **no DMX signal**.

## BLUETOOTH

1. Press the ❷ push button to enter the main MENU.
1. Select **CONTROL** with the ❷ knob and press the ❷ push button to confirm selection.
2. Select **BLE** with the ❷ knob and press the ❷ push button to confirm selection.

## DMX OPERATIONS - Advanced Settings

1. Press the ❷ push button to enter the main MENU.
2. Navigate through the main MENU with the ❷ knob until **DEVICE SETTINGS** and press the ❷ push button to confirm selection.
3. Rotate the ❷ knob to select **DMX ADVANCED**, press the ❷ push button to confirm selection.
4. Select one of the options among the **DMX BIT**, **DMX SIGNAL LOSS**, **RDM ENABLE**, **STROBE ENABLE** and **INV CCT** press ❷ push button to confirm the selection.

### DMX BIT:

Resolution of the DMX control. 8bit 1 channel per function and 16 bit 2 channels per function.

1. Select the **DMX BIT** item by pressing the ❷ push button.
2. Rotate the ❷ knob to choose between **8bit / 16bit**, press the ❷ push button to confirm the selected setting. See **DMX PROTOCOL MANUAL**.

### DMX SIGNAL LOSS:

This feature allows to choose the device's behaviour in case of a DMX signal loss.

1. Select the **LOSS DMX SIGNAL** item with the ❷ push button
2. Rotate the ❷ knob to select the device's behaviour among **BLACK OUT /SETTINGS LAST / SETTINGS 1min**, press the ❷ push button to confirm the setting.

**Black out:** The device switches off.

**Settings Last:** The values of the last selected setting are maintained over time until the device is switched off.

**Settings 1min:** The values of the last selected settings is maintained for one minute and then the device switch off.

**RDM Enable:** ON/OFF, enable/disable RDM Protocol

**INV CCT:** ON/FF: enable/disable reversal CCT console control

# DMX Protocol

## Introduction

The MovielightPRO models can be used with 8 bit or 16 bit DMX control. (See *DMX OPERATION - advanced settings* in the user's manual). When used in **8 bit mode** the panels uses **one channel for each function**. DMX values for each channel are in the range of 0 to 255. When used in **16 bit mode** the panels uses **two channels for each function**. The increased resolution offers a smooth dimming and a more accurate color adjustment. DMX values for the first channel (byte 1) are in the range of 256 to 65535 while for the second channel (byte 2) they are in the range of 0 to 255.

**⚠ ATTENTION:** The symbol - ! - on the display indicates that there is **no DMX signal**.

**⚠ ATTENTION:** \* If the **STROBE** in the DMX ADVANCED SETTINGS is enabled, there are 1 more channel in 8 bit and 2 more channels in 16 bit:

## DMX Channel Protocol - 8 bit

| MODE | CHANNELS | DMX CHANNEL POSITION | DMX VALUE | VALUE       |
|------|----------|----------------------|-----------|-------------|
| CCT  | 2/3*     | 1. DIMMER            | 0 - 255   | 0 - 100 %   |
|      |          | 2. COLOR TEMPERATURE | 0 - 255   | 6500 - 2700 |
|      |          | 3. *STROBE CONTROL   | 0 ÷ 5     | Ø           |
|      |          |                      | 6 ÷ 255   | 1 ÷ 25 Hz   |

## DMX Channel Protocol - 16 bit

| MODE | CHANNELS | DMX CHANNEL POSITION          | DMX VALUE    | VALUE       |
|------|----------|-------------------------------|--------------|-------------|
| CCT  | 4/6*     | 1. DIMMER - byte 1            | 0 - 65535    | 0 ÷ 100 %   |
|      |          | 2. DIMMER - byte 2            |              |             |
|      |          | 3. COLOR TEMPERATURE - byte 1 | 0 - 65535    | 6500 - 2700 |
|      |          | 4. COLOR TEMPERATURE - byte 2 |              |             |
|      |          | 5. *STROBE CONTROL - byte 1   | 0 ÷ 1300     | Ø           |
|      |          | 6. *STROBE CONTROL - byte 2   | 1301 ÷ 65535 | 1 ÷ 25 Hz   |

# RDM Protocol Specification

| COMMAND                      | PID    | DESCRIPTION                                         |
|------------------------------|--------|-----------------------------------------------------|
| Manufacturer ID              | 0x0622 | Manufacturer identification number (LUPO Lighting). |
| <b>Device Identification</b> |        |                                                     |
| <b>Model ID</b>              |        | <b>Model identification number</b>                  |
|                              | 1      | DayledPRO 650 mono color                            |
|                              | 2      | DayledPRO 650 dual color                            |
|                              | 3      | DayledPRO 1000 mono color                           |
|                              | 4      | DayledPRO 1000 dual color                           |
|                              | 5      | DayledPRO 2000 mono color                           |

|                              |      |                                  |
|------------------------------|------|----------------------------------|
|                              | 6    | DayledPRO 2000 dual color        |
|                              | 7    | SuperpanelPRO 30 dual color soft |
|                              | 8    | SuperpanelPRO 30 dual color hard |
|                              | 9    | SuperpanelPRO 30 full color soft |
|                              | 10   | SuperpanelPRO 30 full color hard |
|                              | 11   | SuperpanelPRO 60 dual color soft |
|                              | 12   | SuperpanelPRO 60 dual color hard |
|                              | 13   | SuperpanelPRO 60 full color soft |
|                              | 14   | SuperpanelPRO 60 full color hard |
|                              | 15   | ActionpanelPRO dual color soft   |
|                              | 16   | ActionpanelPRO dual color hard   |
|                              | 17   | ActionpanelPRO full color soft   |
|                              | 18   | ActionpanelPRO full color hard   |
|                              | 19   | Kickasspanel dual color          |
|                              | 20   | Kickasspanel full color          |
|                              | 21   | Lupoled monocolor                |
|                              | 22   | Lupoled dualcolor                |
|                              | 23   | MovielightPRO 300 monocolor      |
|                              | 24   | MovielightPRO 300 dual color     |
|                              | 25   | UltrapanelPRO 30 dual color soft |
|                              | 26   | UltrapanelPRO 30 dual color hard |
|                              | 27   | UltrapanelPRO 60 full color soft |
|                              | 28   | UltrapanelPRO 60 full color hard |
|                              | 29   | UltrapanelPRO 30 full color soft |
|                              | 30   | UltrapanelPRO 30 full color hard |
|                              | 31   | UltrapanelPRO 60 dual color soft |
|                              | 32   | UltrapanelPRO 60 dual color hard |
|                              | 33   | DayledPRO 650 PRO Full Color     |
|                              | 34   | DayledPRO 1000 PRO Full Color    |
|                              | 35   | DayledPRO 2000 PRO Full Color    |
|                              | 36   | DayledPRO 3000 full color        |
|                              | 37   | Movielight 300 full color        |
|                              | 38   | DayledPRO 3000 mono color        |
|                              | 39   | DayledPRO 3000 dual color        |
|                              | 40   | MovielightPRO 600 dual color     |
|                              | 41   | DayledPRO 5000 monocolor         |
|                              | 42   | DayledPRO 5000 dual color        |
|                              | 43   | DayledPRO 5000 full color        |
|                              | 44   | HyperpanelPRO 30 dual color soft |
|                              | 45   | HyperpanelPRO 30 dual color hard |
|                              | 46   | HyperpanelPRO 60 dual color soft |
|                              | 47   | HyperpanelPRO 60 dual color hard |
|                              | 48   | MovielightPRO 600 full color     |
| <b>Personality MONOCOLOR</b> |      | <b>DMX Personality</b>           |
|                              | 0x01 | CCT                              |

|                               |        |                                                                                                                       |
|-------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Personality DUAL COLOR</b> |        | <b>DMX Personality</b>                                                                                                |
|                               | 0x01   | CCT                                                                                                                   |
|                               | 0x02   | PRESET                                                                                                                |
| <b>Personality FULL COLOR</b> |        | <b>DMX Personality</b>                                                                                                |
|                               | 0x01   | CCT                                                                                                                   |
|                               | 0x02   | HSI                                                                                                                   |
|                               | 0x03   | RGBW                                                                                                                  |
|                               | 0x04   | FRGBW                                                                                                                 |
|                               | 0x05   | PRESET                                                                                                                |
| <b>Network management</b>     |        |                                                                                                                       |
| DISC UNIQUE BRANCH            | 0x0001 | Search RDM devices                                                                                                    |
| DISC MUTE                     | 0x0002 | Mute RDM device, no response message                                                                                  |
| DISC UN MUTE                  | 0x0003 | Activate RDM device fo response message                                                                               |
| <b>Status collection</b>      |        |                                                                                                                       |
| QUEUED MESAGES                | 0x0020 | Retrieves queued messages or status message if no message is in queue                                                 |
| STATUS MESSAGES               | 0x0030 | Retrieves current Warning/Error messages                                                                              |
| <b>RDM Information</b>        |        |                                                                                                                       |
| SUPPORTED PARAMETERS          | 0x0050 | Retrieves a list of all supported RDM commands                                                                        |
| PARAMETER DESCRIPTION         | 0x0051 | Retrieves a list of all RDM commands                                                                                  |
| <b>Product Information</b>    |        |                                                                                                                       |
| DEVICE INFO                   | 0x0060 | Retrieves a variety of information about the device that is normally required by a controller.                        |
| DEVICE MODEL DESCRIPTION      | 0x0080 | Text description of up to 32 characters for the device model type.                                                    |
| MANUFACTURER LABEL            | 0x0081 | This parameter provides an ASCII text response with the Manufacturer name for the device. "LUPO" is the default name. |
| FACTORY DEFAULTS              | 0x0090 | Set the device to its factory defaults. Get: Check if settings still in default state -> 1 if default                 |
| SOFTWARE VERSION LABEL        | 0x00C0 | Retrieves software version string of main software                                                                    |
| <b>DMX512 Setup</b>           |        |                                                                                                                       |
| DMX PERSONALITY               | 0x00E0 | DMX mode                                                                                                              |
| DMX PERSONALITY DESCRIPTION   | 0x00E1 | Shows a description of a DMX-Mode, max 32 characters                                                                  |
| DMX START ADDRESS             | 0x00F0 | DMX address                                                                                                           |
| <b>Control</b>                |        |                                                                                                                       |
| IDENTIFY DEVICE               | 0x1000 | The identify flag (flashes the light)                                                                                 |
| <b>Manufacturer Commands</b>  |        |                                                                                                                       |
| DISPLAY TIMEOUT               | 0x8002 | 0: 30 sec 1: 1 min 2: always on                                                                                       |
| DMX SIGNAL LOST MODE          | 0x8003 | 0: black out 1: last settings on 2: last settings 1 min                                                               |
| DMX BITS                      | 0x8004 | 0: 8 bit 1: 16 bit                                                                                                    |
| CCT LIMIT                     | 0x8005 | 0: 2800-10000 1: 3200-5600                                                                                            |
| LINEARIZATION                 | 0x8006 | 0: linear 1: exponential 2: logarithmic                                                                               |

## DEVICE SETTINGS

1. Press the **2** push button to enter the main MENU.
2. Navigate through the MENU rotating the **2** button, select **DEVICE SETTINGS**, press the **2** push button to confirm the selection.
3. Navigate through the MENU rotating the **2** button, select **GENERAL**, press the **2** push button to confirm the selection.
4. Navigate through the **FAN POWER / DISPLAY / FREQUENCY / FILTER / LINEARIZATION / CCT LIMIT** functions, rotating the **2** button to select the desired function and press the **2** push button to confirm the selection.
5. Within each function select the option to be activated and rotate the **2** button.

**Display:** Time during which the display backlight stays on. **30sec / 1min / ALWAYS ON.**

**Frequency:** Dimmer frequency 18 KHz - 25 KHz

**Filter:** It is the speed response of the system (smooth factor).

**FULL SPEED / NORMAL SPEED / HIGH SPEED / LOW SPEED.**

**Linearization:** Linearization is the compensation curve for the human eye's perception of the luminous intensity emitted as a function of the required power. Required power = dimmer value on the display. **LINEAR / EXPONENTIAL / LOGARITHMIC.**

**Linear:** No compensation, the intensity of the light is directly proportional to requested power.

**Exponential:** The light intensity increases from 0 to 100 exponentially.

**Logarithmic:** The light intensity increases from 0 to 100 logarithmically.

**CCT Limit:** CCT range 2800 - 6500 or 3200 - 5600

## RESET DEVICE

1. Press the « **OK** » **2** button to enter the main MENU.
2. Select **RESET DEVICE** rotating the **2** button, press the **2** push button to confirm the selection.
3. Select **YES** rotating the **2** button, press the **2** push button to confirm the selection.
4. The device ask for further confirmation, select **YES** by pressing the press the **2** push button. **THE DEVICE RETURNS TO FACTORY DEFAULT SETTINGS.**

| FACTORY DEFAULT SETTING         |                        |
|---------------------------------|------------------------|
| <b>MODE</b>                     | <b>DEVICE SETTINGS</b> |
| CCT                             | DISPLAY: 1 min         |
| <b>DMX OPERATION</b>            | FILTER : Normal speed  |
| BIT: 8 BIT                      | LINEARIZATION: Linear  |
| DMX SIGNAL LOSS: Settings 1 MIN | FREQUENCY: 18 KHz      |
| RDM ENABLE: OFF                 |                        |
| INV - CCT: OFF                  | <b>CONTROL</b>         |
|                                 | Manual                 |

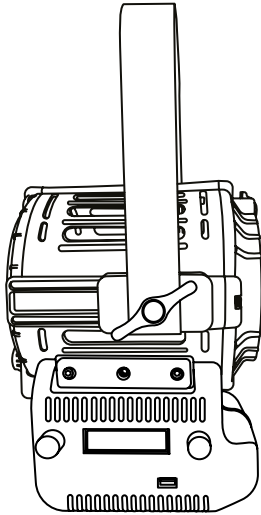
## USB PORT

Use USB port for firmware updates.

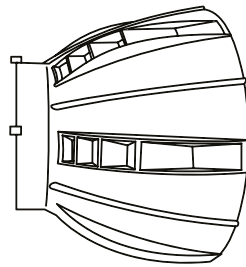
### Update the Firmware

1. Copy the file on an USB Pendrive (FAT32 formatted) in the main root;
2. Switch off the equipment and insert the USB Pendrive;
3. Switch on the equipment;
4. Wait until display backlight stop flashing (it takes several minutes and display backligh must toggle for all time long);
5. Switch off the equipment;
6. Extract the Pendrive and switch on the equipment: the firmware is updated.

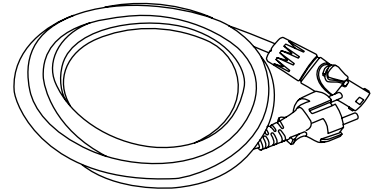
## Package Contents for MovielightPRO 300



**MovielightPRO 300**



**Parabolic Reflector**



**AC Power  
Cord Cable**

**⚠ ATTENTION:** Please keep the original package of the product in a safe place for warranty reasons.

## ACCESSORIES

The accessories are products sold separately.

### COMPLETE KIT OF V-MOUNT BATTERY POWER SUPPLY FOR MOVIELIGHTPRO 300

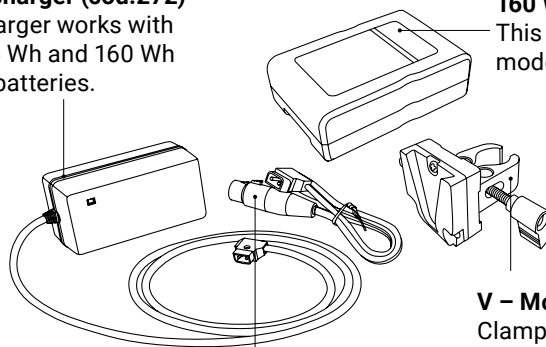
The items are also sold separately.

**Battery charger (cod.272)**

This charger works with Lupo 95 Wh and 160 Wh batteries.

**160 Wh battery (cod.271)**

This batteries allows to power all Lupo models with AC/DC functioning.



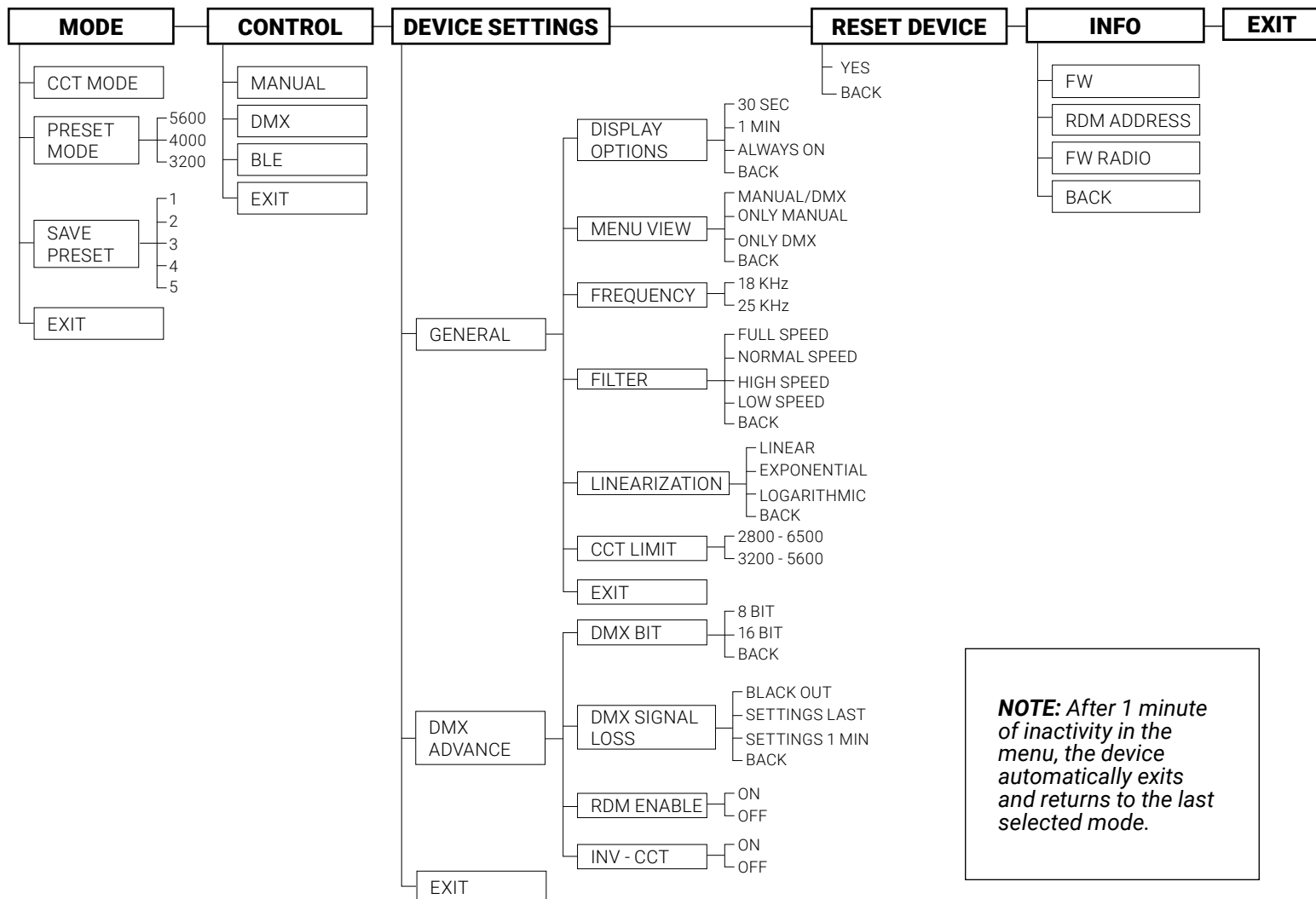
**D – Tap cable (cod.313)**

**V – Mount clamp (cod.320)**

Clamp for stand only is an essential accessory for lithium battery powered equipment. It accepts all standard V-Mount batteries.

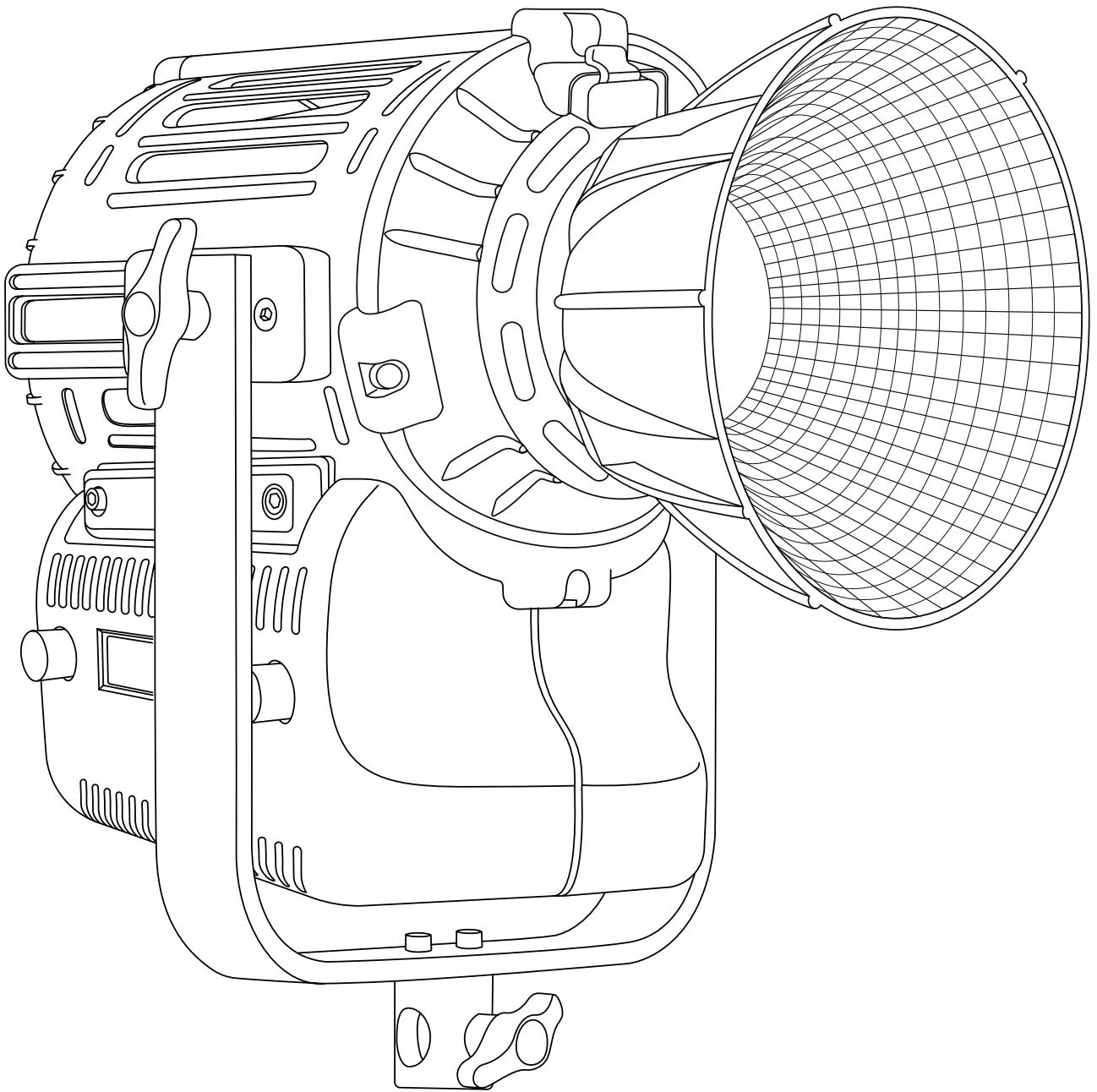
## MENU e submenus

- Select **"EXIT"** to return to the current mode.
- Select **"BACK"** to return to the previous menu.



**NOTE:** After 1 minute of inactivity in the menu, the device automatically exits and returns to the last selected mode.





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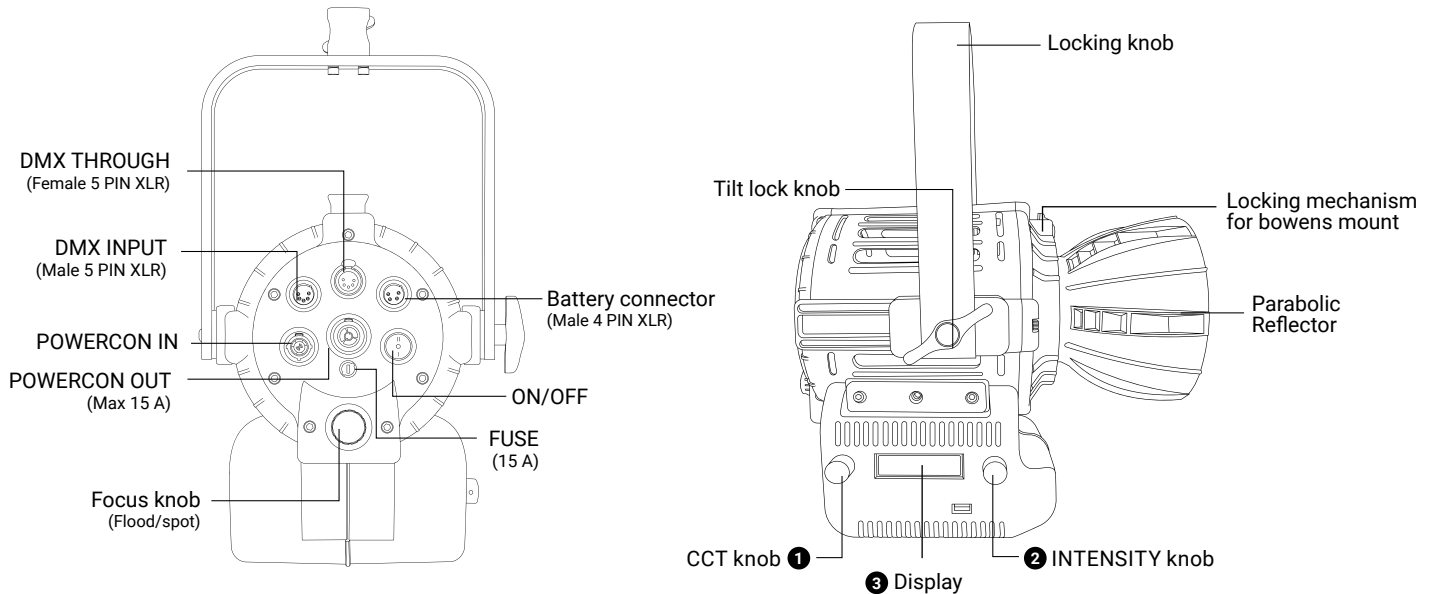
## User Manuals

# 904 MovielightPRO Full Color 300

## Instructions

- Max input current for daisy chain: 15 A
- Device for indoor use only.
- Protection standard IP20.
- Maximum ambient temperature: 45 °C.
- Make sure power supply plug is suitable to power required.
- As prescribed by international regulations, a safety cable must be used when the fixture is suspended from ceiling.
- To switch on the light push the on/off button.

## Getting Started with the Movielight 300



## CONTROL PANEL

- In current mode press the **2** push button to enter the main MENU.
- In the sub-menus press the **2** push button to confirm a selection.
- Rotate the **2** knob to navigate in the main MENU and sub-menus.
- Use the « **INTENSITY** » **2** knob to adjust the **light intensity from 0 to 100%**.
- Use the knob **1** to adjust the light mode parameters.
- Display **3**.

## MODE

1. Press the **2** push button to enter the main MENU.
2. Select **MODE** by pressing the **2** push button.
3. Select the light mode among **CCT** with the **2** knob and press the **2** push button to confirm selection.
4. Select among **CCT / HSI / RGBW / PRESET / EFFECT / SAVE PRESET** with the **2** knob and press the **2** push button to confirm selection
5. See **LIGHT MODES**.

## LIGHT MODES

| MODE   | INTENSITY 4                    | CCT/HUE 5          | GN/SAT/COLOR 6                | « ▼ » 1 « ▲ » 3               |
|--------|--------------------------------|--------------------|-------------------------------|-------------------------------|
| CCT    | Light Intensity from 0 to 100% | CT 2800K to 10000K | GN -1.00 to +1.00             | -                             |
| HSI    |                                | HUE 0° to 100°     | SAT 0 to 100%                 | -                             |
| RGBW   |                                | -                  | Select function R/G/B/W/CT/GN | Change values of the function |
| PRESET |                                | -                  | -                             | Change Preset                 |

**CCT MODE:** Warm and cold white control mode. It allows you to adjust colour temperature (CCT), green/magenta compensation (GN) and light intensity. *This is the default setting.*

1. In MODE menu select **EFFECT MODE**.
2. Select the EFFECT to be activated with rotate the ❷ button, confirm the selection by pressing the ❷ push button.
3. Use the knob ❷ to change the DIMMER and the knob ❶ to adjust the effect setting values.

**⚠ ATTENTION:** Rotating the ❶ knob changes the CT value- Pressing ❶ button select GN value that can be changed by rotating the same ❶ knob.

## DMX OPERATION

1. Press the ❷ push button to enter the main MENU.
2. Select **CONTROL** with the ❷ knob and press the ❷ push button to confirm selection.
3. Select **DMX** with the ❷ knob and press the ❷ push button to confirm selection.
4. Select the DMX channel, rotating the ❶ knob to change DMX ADDRESS in ascending or descending order among 1 and 512. The number shown on the display ❸ is the selected channel to communicate with the control desk.
5. See **DMX PROTOCOL MANUAL** for DMX channel specification.

**NOTE:** The symbol - ! - on the display indicates that there is **no DMX signal**.

## BLUETOOTH

1. Press the ❷ push button to enter the main MENU.
1. Select **CONTROL** with the ❷ knob and press the ❷ push button to confirm selection.
2. Select **BLE** with the ❷ knob and press the ❷ push button to confirm selection.

## DMX OPERATION - Advanced Settings

1. Press the ❷ push button to enter the main MENU.
2. Navigate through the main MENU with the ❷ knob until **DEVICE SETTINGS** and press the ❷ push button to confirm selection.
3. Rotate the ❷ knob to select **DMX ADVANCED**, press the ❷ push button to confirm selection.
4. Select one of the options among the **DMX BIT**, **DMX SIGNAL LOSS**, **RDM ENABLE**, **STROBE ENABLE** and **INV CCT** press ❷ push button to confirm the selection.

### DMX BIT:

Resolution of the DMX control. 8bit 1 channel per function and 16 bit 2 channels per function.

1. Select the **DMX BIT** item by pressing the ❷ push button.
2. Rotate the ❷ knob to choose between **8bit / 16bit**, press the ❷ push button to confirm the selected setting. See **DMX PROTOCOL MANUAL**.

### DMX SIGNAL LOSS:

This feature allows to choose the device's behaviour in case of a DMX signal loss.

1. Select the **LOSS DMX SIGNAL** item with the ❷ push button
2. Rotate the ❷ knob to select the device's behaviour among **BLACK OUT /SETTINGS LAST / SETTINGS 1min**, press the ❷ push button to confirm the setting.

**Black out:** The device switches off.

**Settings Last:** The values of the last selected setting are maintained over time until the device is switched off.

**Settings 1min:** The values of the last selected settings is maintained for one minute and then the device switch off.

**RDM Enable:** ON/OFF, enable/disable RDM Protocol

**INV CCT:** ON/FF: enable/disable reversal CCT console control

# DMX Protocol

## Introduction

The MovielightPRO models can be used with 8 bit or 16 bit DMX control.  
(See *DMX OPERATION - advanced settings* in the user's manual).

When used in **8 bit mode** the panels uses **one channel for each function**. DMX values for each channel are in the range of 0 to 255. When used in **16 bit mode** the panels uses **two channels for each function**. The increased resolution offers a smooth dimming and a more accurate color adjustment. DMX values for the first channel (byte 1) are in the range of 256 to 65535 while for the second channel (byte 2) they are in the range of 0 to 255.

**⚠ ATTENTION:** The symbol - ! - on the display indicates that there is **no DMX signal**.

## DMX Channel Protocol - 8 bit

| MODE   | CHANNELS | DMX CHANNEL POSITION | DMX VALUE | VALUE           |
|--------|----------|----------------------|-----------|-----------------|
| CCT    | 2/4*     | 1. DIMMER            | 0 - 255   | 0 - 100 %       |
|        |          | 2. COLOR TEMPERATURE | 0 - 255   | 6500 - 2700     |
|        |          | 3. GN COMPENSATION   | 0 ÷ 5     | Ø               |
|        |          |                      | 6 ÷ 255   | - 1,00 ÷ + 1,00 |
|        |          | 4. *STROBE CONTROL   | 0 ÷ 5     | Ø               |
|        |          |                      | 6 ÷ 255   | 1 ÷ 25 Hz       |
| HSI    | 3        | 1. DIMMER            | 0 - 255   | 0 - 100 %       |
|        |          | 2. HUE               | 0 - 255   | 6500 - 2700     |
|        |          | 3. SATURATION        | 0 ÷ 255   | 0 ÷ 100%        |
| RGBW   | 7        | 1. DIMMER            | 0 - 255   | 0 ÷ 100%        |
|        |          | 2. RED               | 0 ÷ 255   | 0 ÷ 100%        |
|        |          | 3. GREEN             | 0 ÷ 255   | 0 ÷ 100%        |
|        |          | 4. BLUE              | 6 ÷ 255   | 0 ÷ 100%        |
|        |          | 5. WHITE             | 0 ÷ 255   | 0 ÷ 100%        |
|        |          | 6. COLOR TEMPERATURE | 0 - 255   | 6500 - 2700     |
|        |          |                      | 0 ÷ 5     | Ø               |
| FRGBW  | 7        | 7. GN COMPENSATION   | 6 ÷ 255   | - 1,00 ÷ + 1,00 |
|        |          |                      |           |                 |
|        |          | 1. DIMMER            | 0 - 255   | 0 ÷ 100%        |
|        |          | 2. RED               | 0 ÷ 255   | 0 ÷ 100%        |
|        |          | 3. GREEN             | 0 ÷ 255   | 0 ÷ 100%        |
|        |          | 4. BLUE              | 6 ÷ 255   | 0 ÷ 100%        |
|        |          | 5. WHITE             | 0 ÷ 255   | 0 ÷ 100%        |
| PRESET | 4        | 6. COLOR TEMPERATURE | 0 - 255   | 6500 - 2700     |
|        |          | 7. GN COMPENSATION   | 0 ÷ 5     | Ø               |
|        |          |                      | 6 ÷ 255   | - 1,00 ÷ + 1,00 |
|        |          | 1. DIMMER            | 0 - 255   | 0 ÷ 100 %       |
|        |          | 2. PRESET            | 0 ÷ 255   | 0 ÷ N PRESET    |
|        |          | 3. PRESET FREEZE     | 0 - 50    | NO FREEZE       |
|        |          |                      | 200 ÷ 255 | FREEZE          |
|        |          | 4. * STROBE CONTROL  | 0 ÷ 255   | 0 - 25 Hz       |

## DMX Channel Protocol - 16 bit

| MODE | CHANNELS | DMX CHANNEL POSITION          | DMX VALUE    | VALUE          |
|------|----------|-------------------------------|--------------|----------------|
| CCT  | 8        | 1. DIMMER - byte 1            | 0 - 65535    | 0 ÷ 100 %      |
|      |          | 2. DIMMER - byte 1            |              |                |
|      |          | 3. COLOR TEMPERATURE - byte 1 | 0 - 65535    | 6500 - 2700    |
|      |          | 4. COLOR TEMPERATURE - byte 2 |              |                |
|      |          | 5. GN COMPENSATION - byte 1   | 0 ÷ 500      | Ø              |
|      |          | 6. GN COMPENSATION - byte 2   | 501 ÷ 65535  | -1,00 ÷ + 1,00 |
|      |          | 7. *STROBE CONTROL - byte 1   | 0 ÷ 1300     | Ø              |
|      |          | 8. *STROBE CONTROL - byte 2   | 1301 ÷ 65535 | 1 ÷ 25 Hz      |

|        |    |                              |                          |                         |
|--------|----|------------------------------|--------------------------|-------------------------|
| HSI    | 6  | 1. DIMMER - byte 1           | 0 - 65535                | 0 ÷ 100 %               |
|        |    | 2. DIMMER - byte 1           |                          |                         |
|        |    | 3. HUE - byte 1              | 0 ÷ 65535                | 0 ÷ 360                 |
|        |    | 4. HUE - byte 2              |                          |                         |
|        |    | 5. SATURATION - byte 1       | 0 ÷ 65535                | 0 ÷ 100 %               |
|        |    | 6. SATURATION - byte 2       |                          |                         |
| RGBW   | 14 | 1. DIMMER - byte 1           | 0 - 65535                | 0 ÷ 100 %               |
|        |    | 2. DIMMER - byte 1           |                          |                         |
|        |    | 3. RED - byte 1              | 0 - 65535                | 0 ÷ 100 %               |
|        |    | 4. RED - byte 2              |                          |                         |
|        |    | 5. GREEN - byte 1            | 0 ÷ 65535                | 0 ÷ 100 %               |
|        |    | 6. GREEN - byte 2            |                          |                         |
|        |    | 7. BLUE - byte 1             | 0 ÷ 65535                | 0 ÷ 100 %               |
|        |    | 8. BLUE - byte 1             |                          |                         |
|        |    | 9. WHITE - byte 1            | 0 ÷ 65535                | 0 ÷ 360                 |
|        |    | 10. WHITE - byte 2           |                          |                         |
|        |    | 11. COLOR TEMPERAT. - byte 1 | 0 - 65535                | 6500 - 2700             |
|        |    | 12. COLOR TEMPERAT. - byte 2 |                          |                         |
|        |    | 13. GN COMPENSATION- byte 1  | 0 ÷ 500<br>501 ÷ 65535   | Ø<br>-1,00 ÷ + 1,00     |
|        |    | 14. GN COMPENSATION - byte 2 |                          |                         |
| FRGBW  | 14 | 1. DIMMER - byte 1           | 0 - 65535                | 0 ÷ 100 %               |
|        |    | 2. DIMMER - byte 1           |                          |                         |
|        |    | 3. RED - byte 1              | 0 ÷ 65535                | 0 ÷ 100 %               |
|        |    | 4. RED - byte 2              |                          |                         |
|        |    | 5. GREEN - byte 1            | 0 ÷ 65535                | 0 ÷ 100 %               |
|        |    | 6. GREEN - byte 2            |                          |                         |
|        |    | 7. BLUE - byte 1             | 0 ÷ 65535                | 0 ÷ 100 %               |
|        |    | 8. BLUE - byte 1             |                          |                         |
|        |    | 9. WHITE - byte 1            | 0 ÷ 65535                | 0 ÷ 360                 |
|        |    | 10. WHITE - byte 2           |                          |                         |
|        |    | 11. COLOR TEMPERAT. - byte 1 | 0 - 65535                | 6500 - 2700             |
|        |    | 12. COLOR TEMPERAT. - byte 2 |                          |                         |
|        |    | 13. GN COMPENSATION- byte 1  | 0 ÷ 500<br>501 ÷ 65535   | Ø<br>-1,00 ÷ + 1,00     |
|        |    | 14. GN COMPENSATION - byte 2 |                          |                         |
| PRESET | 6  | 1. DIMMER - byte 1           | 0 - 65535                | 0 ÷ 100 %               |
|        |    | 2. DIMMER - byte 1           |                          |                         |
|        |    | 3. PRESET - byte 1           | 0 ÷ 65535                | 0 ÷ 100 %               |
|        |    | 4. PRESET - byte 2           |                          |                         |
|        |    | 5. PRESET FREEZE - byte 1    | 0 - 12800 ><br>NO FREEZE | 51200 ÷ 65535<br>FREEZE |
|        |    | 6. PRESET FREEZE - byte 2    |                          |                         |
|        |    | 7. *STROBE CONTROL - byte 1  | 0 ÷ 1300                 | Ø                       |
|        |    | 8. *STROBE CONTROL - byte 2  | 1301 ÷ 65535             | 1 ÷ 25 Hz               |

# RDM

## Protocol Specification

| COMMAND                      | PID    | DESCRIPTION                                         |
|------------------------------|--------|-----------------------------------------------------|
| Manufacturer ID              | 0x0622 | Manufacturer identification number (LUPO Lighting). |
| <b>Device Identification</b> |        |                                                     |
| <b>Model ID</b>              |        | <b>Model identification number</b>                  |
|                              | 1      | DayledPRO 650 mono color                            |
|                              | 2      | DayledPRO 650 dual color                            |
|                              | 3      | DayledPRO 1000 mono color                           |
|                              | 4      | DayledPRO 1000 dual color                           |

|                              |      |                                  |
|------------------------------|------|----------------------------------|
|                              | 5    | DayledPRO 2000 mono color        |
|                              | 6    | DayledPRO 2000 dual color        |
|                              | 7    | SuperpanelPRO 30 dual color soft |
|                              | 8    | SuperpanelPRO 30 dual color hard |
|                              | 9    | SuperpanelPRO 30 full color soft |
|                              | 10   | SuperpanelPRO 30 full color hard |
|                              | 11   | SuperpanelPRO 60 dual color soft |
|                              | 12   | SuperpanelPRO 60 dual color hard |
|                              | 13   | SuperpanelPRO 60 full color soft |
|                              | 14   | SuperpanelPRO 60 full color hard |
|                              | 15   | ActionpanelPRO dual color soft   |
|                              | 16   | ActionpanelPRO dual color hard   |
|                              | 17   | ActionpanelPRO full color soft   |
|                              | 18   | ActionpanelPRO full color hard   |
|                              | 19   | Kickasspanel dual color          |
|                              | 20   | Kickasspanel full color          |
|                              | 21   | Lupoled monocolour               |
|                              | 22   | Lupoled dualcolor                |
|                              | 23   | MovielightPRO 300 monocolour     |
|                              | 24   | MovielightPRO 300 dual color     |
|                              | 25   | UltrapanelPRO 30 dual color soft |
|                              | 26   | UltrapanelPRO 30 dual color hard |
|                              | 27   | UltrapanelPRO 60 full color soft |
|                              | 28   | UltrapanelPRO 60 full color hard |
|                              | 29   | UltrapanelPRO 30 full color soft |
|                              | 30   | UltrapanelPRO 30 full color hard |
|                              | 31   | UltrapanelPRO 60 dual color soft |
|                              | 32   | UltrapanelPRO 60 dual color hard |
|                              | 33   | DayledPRO 650 PRO Full Color     |
|                              | 34   | DayledPRO 1000 PRO Full Color    |
|                              | 35   | DayledPRO 2000 PRO Full Color    |
|                              | 36   | DayledPRO 3000 full color        |
|                              | 37   | Movielight 300 full color        |
|                              | 38   | DayledPRO 3000 mono color        |
|                              | 39   | DayledPRO 3000 dual color        |
|                              | 40   | MovielightPRO 600 dual color     |
|                              | 41   | DayledPRO 5000 monocolour        |
|                              | 42   | DayledPRO 5000 dual color        |
|                              | 43   | DayledPRO 5000 full color        |
|                              | 44   | HyperpanelPRO 30 dual color soft |
|                              | 45   | HyperpanelPRO 30 dual color hard |
|                              | 46   | HyperpanelPRO 60 dual color soft |
|                              | 47   | HyperpanelPRO 60 dual color hard |
|                              | 48   | MovielightPRO 600 full color     |
| <b>Personality MONOCOLOR</b> |      | <b>DMX Personality</b>           |
|                              | 0x01 | CCT                              |

|                               |        |                                                                                                                       |
|-------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Personality DUAL COLOR</b> |        | <b>DMX Personality</b>                                                                                                |
|                               | 0x01   | CCT                                                                                                                   |
|                               | 0x02   | PRESET                                                                                                                |
| <b>Personality FULL COLOR</b> |        | <b>DMX Personality</b>                                                                                                |
|                               | 0x01   | CCT                                                                                                                   |
|                               | 0x02   | HSI                                                                                                                   |
|                               | 0x03   | RGBW                                                                                                                  |
|                               | 0x04   | FRGBW                                                                                                                 |
|                               | 0x05   | PRESET                                                                                                                |
| <b>Network management</b>     |        |                                                                                                                       |
| DISC UNIQUE BRANCH            | 0x0001 | Search RDM devices                                                                                                    |
| DISC MUTE                     | 0x0002 | Mute RDM device, no response message                                                                                  |
| DISC UN MUTE                  | 0x0003 | Activate RDM device fo response message                                                                               |
| <b>Status collection</b>      |        |                                                                                                                       |
| QUEUED MESAGES                | 0x0020 | Retrieves queued messages or status message if no message is in queue                                                 |
| STATUS MESSAGES               | 0x0030 | Retrieves current Warning/Error messages                                                                              |
| <b>RDM Information</b>        |        |                                                                                                                       |
| SUPPORTED PARAMETERS          | 0x0050 | Retrieves a list of all supported RDM commands                                                                        |
| PARAMETER DESCRIPTION         | 0x0051 | Retrieves a list of all RDM commands                                                                                  |
| <b>Product Information</b>    |        |                                                                                                                       |
| DEVICE INFO                   | 0x0060 | Retrieves a variety of information about the device that is normally required by a controller.                        |
| DEVICE MODEL DESCRIPTION      | 0x0080 | Text description of up to 32 characters for the device model type.                                                    |
| MANUFACTURER LABEL            | 0x0081 | This parameter provides an ASCII text response with the Manufacturer name for the device. "LUPO" is the default name. |
| FACTORY DEFAULTS              | 0x0090 | Set the device to its factory defaults. Get: Check if settings still in default state -> 1 if default                 |
| SOFTWARE VERSION LABEL        | 0x00C0 | Retrieves software version string of main software                                                                    |
| <b>DMX512 Setup</b>           |        |                                                                                                                       |
| DMX PERSONALITY               | 0x00E0 | DMX mode                                                                                                              |
| DMX PERSONALITY DESCRIPTION   | 0x00E1 | Shows a description of a DMX-Mode, max 32 characters                                                                  |
| DMX START ADDRESS             | 0x00F0 | DMX address                                                                                                           |
| <b>Control</b>                |        |                                                                                                                       |
| IDENTIFY DEVICE               | 0x1000 | The identify flag (flashes the light)                                                                                 |
| <b>Manufacturer Commands</b>  |        |                                                                                                                       |
| DISPLAY TIMEOUT               | 0x8002 | 0: 30 sec 1: 1 min 2: always on                                                                                       |
| DMX SIGNAL LOST MODE          | 0x8003 | 0: black out 1: last settings on 2: last settings 1 min                                                               |
| DMX BITS                      | 0x8004 | 0: 8 bit 1: 16 bit                                                                                                    |
| CCT LIMIT                     | 0x8005 | 0: 2800-10000 1: 3200-5600                                                                                            |
| LINEARIZATION                 | 0x8006 | 0: linear 1: exponential 2: logarithmic                                                                               |

## BLUETOOTH

1. Press the **2** push button to enter the main MENU.
2. Navigate through the MENU rotating the **2** button, select **DEVICE SETTINGS**, press the **2** push button to confirm the selection.
3. Navigate through the MENU rotating the **2** button, select **GENERAL**, press the **2** push button to confirm the selection.
4. Navigate through the **FAN POWER / DISPLAY / FREQUENCY / FILTER / LINEARIZATION / CCT LIMIT** functions, rotating the **2** button to select the desired function and press the **2** push button to confirm the selection.
5. Within each function select the option to be activated and rotate the **2** button.

**Display:** Time during which the display backlight stays on. **30sec / 1min / ALWAYS ON.**

**Frequency:** Dimmer frequency 18 KHz - 25 KHz

**Filter:** It is the speed response of the system (smooth factor).

**FULL SPEED / NORMAL SPEED / HIGH SPEED / LOW SPEED.**

**Linearization:** Linearization is the compensation curve for the human eye's perception of the luminous intensity emitted as a function of the required power. Required power = dimmer value on the display. **LINEAR / EXPONENTIAL / LOGARITHMIC.**

**Linear:** No compensation, the intensity of the light is directly proportional to requested power.

**Exponential:** The light intensity increases from 0 to 100 exponentially.

**Logarithmic:** The light intensity increases from 0 to 100 logarithmically.

**CCT Limit:** CCT range 2800 - 6500 or 3200 - 5600

## RESET DEVICE

1. Press the « **OK** » **2** button to enter the main MENU.
2. Select **RESET DEVICE** rotating the **2** button, press the **2** push button to confirm the selection.
3. Select **YES** rotating the **2** button, press the **2** push button to confirm the selection.
4. The device ask for further confirmation, select **YES** by pressing the press the **2** push button. **THE DEVICE RETURNS TO FACTORY DEFAULT SETTINGS.**

| FACTORY DEFAULT SETTING         |                        |
|---------------------------------|------------------------|
| <b>MODE</b>                     | <b>DEVICE SETTINGS</b> |
| CCT                             | DISPLAY: 1 min         |
|                                 | FILTER : Normal speed  |
| <b>DMX OPERATION</b>            | LINEARIZATION: Linear  |
| BIT: 8 BIT                      | FREQUENCY: 18 KHz      |
| DMX SIGNAL LOSS: Settings 1 MIN |                        |
| RDM ENABLE: OFF                 | <b>CONTROL</b>         |
| INV - CCT: OFF                  | Manual                 |

## USB port

Use USB port for firmware updates.

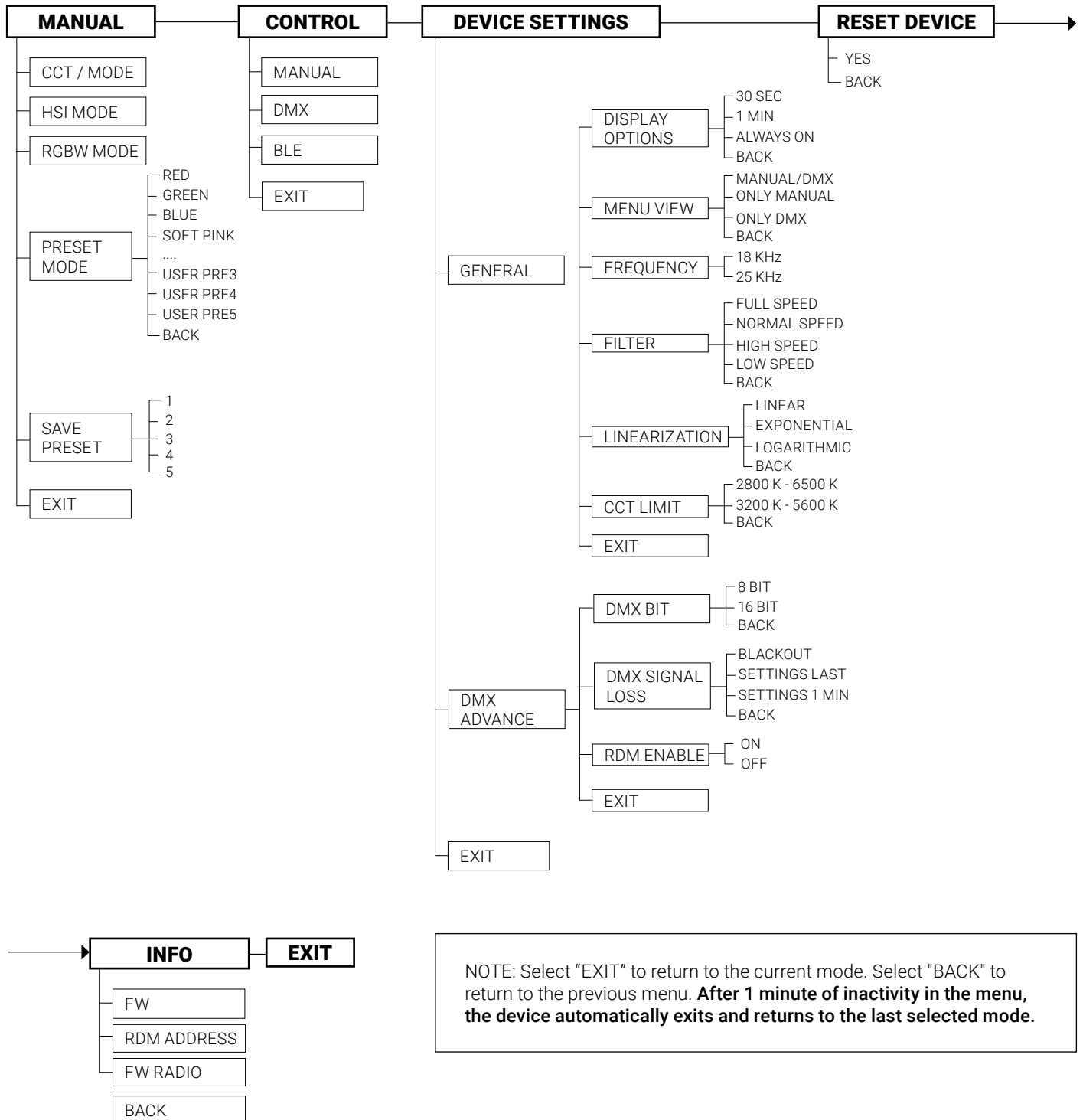
## Update the Firmware

1. Copy the file on an USB Pendrive (FAT32 formatted) in the main root;
2. Switch off the equipment and insert the USB Pendrive;
3. Switch on the equipment;
4. Wait until display backlight flashes (it takes several minutes and red led must toggle for all time long);
5. Switch off the equipment;
6. Extract the Pendrive and switch on the equipment: the firmware is updated.

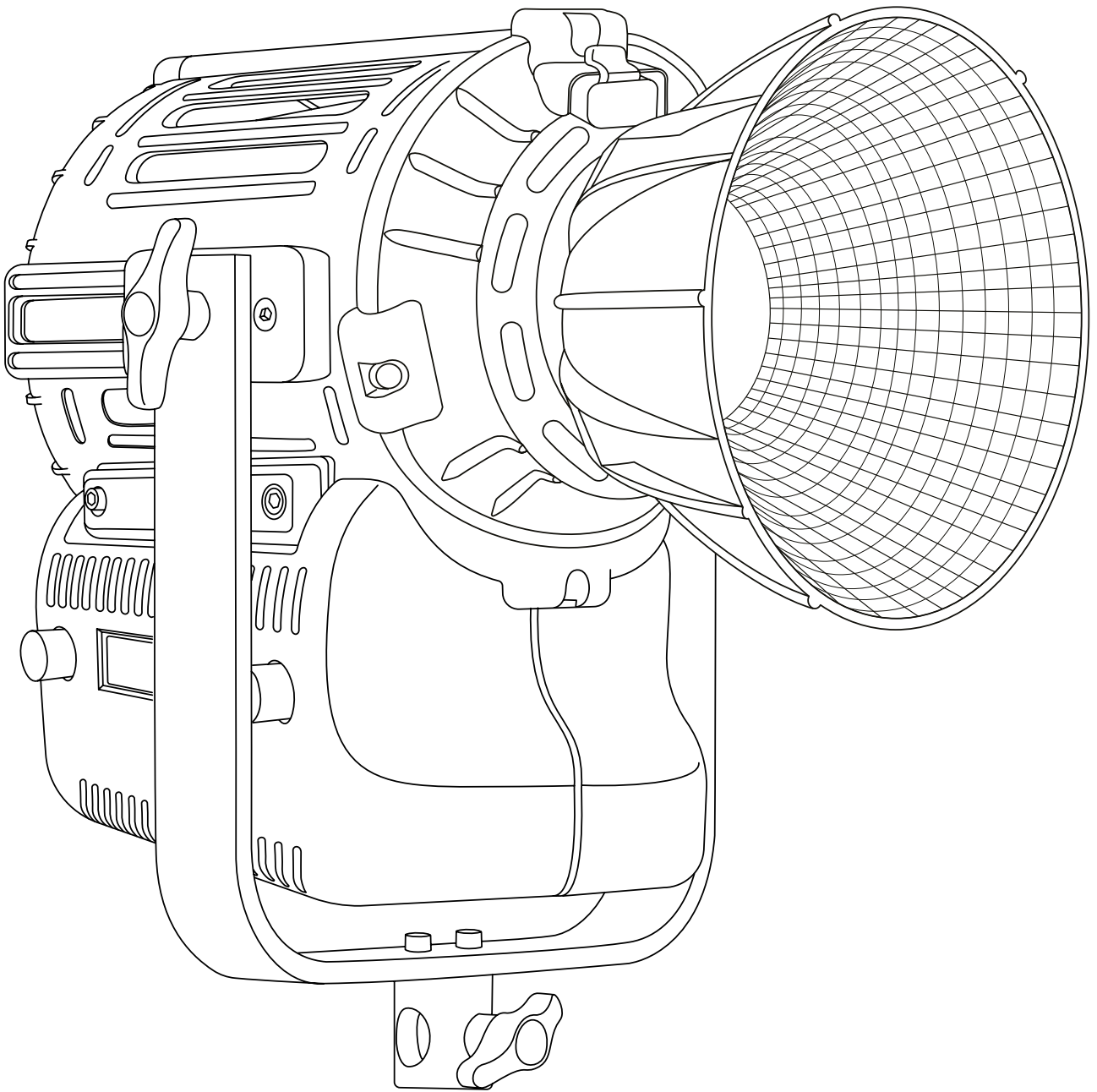


## MENU e submenus

- Select **"EXIT"** to return to the current mode.
- Select **"BACK"** to return to the previous menu.



NOTE: Select "EXIT" to return to the current mode. Select "BACK" to return to the previous menu. **After 1 minute of inactivity in the menu, the device automatically exits and returns to the last selected mode.**



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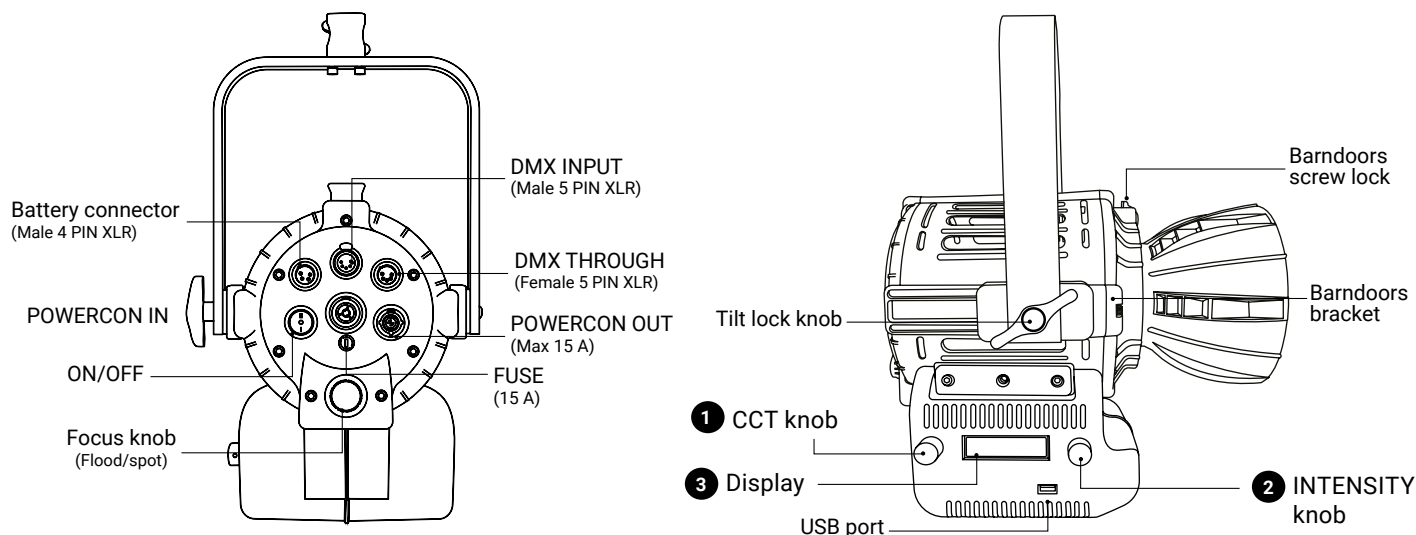
## User Manuals

# 906 MovielightPRO Dual Color 600

## Instructions

- Max input current for daisy chain: 15 A
- Device for indoor use only.
- Protection standard IP20.
- Maximum ambient temperature: 45 °C.
- Make sure power supply plug is suitable to power required.
- As prescribed by international regulations, a safety cable must be used when the fixture is suspended from ceiling.
- To switch on the light push the on/off button.

## Getting Started with the Movielight 600



## CONTROL PANEL

- In current mode press the **2** push button to enter the main MENU.
- In the sub-menus press the **2** push button to confirm a selection.
- Rotate the **2** knob to navigate in the main MENU and sub-menus.
- Use the « **INTENSITY** » **2** knob to adjust the **light intensity from 0 to 100%**.
- Use the knob **1** to adjust the light mode parameters.
- Display **3**.

## MODE

1. Press the **2** push button to enter the main MENU.
2. Select **MODE** by pressing the **2** push button.
3. Select the light mode among **CCT** with the **2** knob and press the **2** push button to confirm selection.
4. Select among **CCT / PRESET / SAVE PRESET** with the **2** knob and press the **2** push button to confirm selection
5. See **LIGHT MODES**.

## LIGHT MODES

| MODE | INTENSITY <b>4</b> | CCT/HUE <b>5</b>     | GN/SAT/COLOR <b>6</b> | GN/SAT/COLOR <b>6</b> |
|------|--------------------|----------------------|-----------------------|-----------------------|
| CCT  | Light Intensity    | CT 2800 K to 10000 K | -                     | -                     |

**CCT MODE:** Warm and cold white control mode. It allows you to adjust colour temperature (CCT), and light intensity. *This is the default setting.*

**⚠ ATTENTION:** Rotating the ❶ knob changes the CT value- Pressing ❶ button select GN value that can be changed by rotating the same ❶ knob.

## DMX OPERATIONS

1. Press the ❷ push button to enter the main MENU.
2. Select **CONTROL** with the ❷ knob and press the ❷ push button to confirm selection.
3. Select **DMX** with the ❷ knob and press the ❷ push button to confirm selection.
4. Select the DMX channel, rotating the ❶ knob to change DMX ADDRESS in ascending or descending order among 1 and 512. The number shown on the display ❸ is the selected channel to communicate with the control desk.
5. See **DMX PROTOCOL MANUAL** for DMX channel specification.

**NOTE:** The symbol - ! - on the display indicates that there is **no DMX signal**.

## BLUETOOTH

1. Press the ❷ push button to enter the main MENU.
1. Select **CONTROL** with the ❷ knob and press the ❷ push button to confirm selection.
2. Select **BLE** with the ❷ knob and press the ❷ push button to confirm selection.

## DMX OPERATIONS - Advanced Settings

1. Press the ❷ push button to enter the main MENU.
2. Navigate through the main MENU with the ❷ knob until **DEVICE SETTINGS** and press the ❷ push button to confirm selection.
3. Rotate the ❷ knob to select **DMX ADVANCED**, press the ❷ push button to confirm selection.
4. Select one of the options among the **DMX BIT**, **DMX SIGNAL LOSS**, **RDM ENABLE**, **STROBE ENABLE** and **INV CCT** press ❷ push button to confirm the selection.

### **DMX BIT:**

Resolution of the DMX control. 8bit 1 channel per function and 16 bit 2 channels per function.

1. Select the **DMX BIT** item by pressing the ❷ push button.
2. Rotate the ❷ knob to choose between **8bit / 16bit**, press the ❷ push button to confirm the selected setting. See **DMX PROTOCOL MANUAL**.

### **DMX SIGNAL LOSS:**

This feature allows to choose the device's behaviour in case of a DMX signal loss.

1. Select the **LOSS DMX SIGNAL** item with the ❷ push button
2. Rotate the ❷ knob to select the device's behaviour among **BLACK OUT /SETTINGS LAST / SETTINGS 1min**, press the ❷ push button to confirm the setting.

**Black out:** The device switches off.

**Settings Last:** The values of the last selected setting are maintained over time until the device is switched off.

**Settings 1min:** The values of the last selected settings is maintained for one minute and then the device switch off.

**RDM Enable:** ON/OFF, enable/disable RDM Protocol

**INV CCT:** ON/FF: enable/disable reversal CCT console control

# DMX Protocol

## Introduction

The MovielightPRO models can be used with 8 bit or 16 bit DMX control. (See *DMX OPERATION - advanced settings* in the user's manual). When used in **8 bit mode** the panels uses **one channel for each function**. DMX values for each channel are in the range of 0 to 255. When used in **16 bit mode** the panels uses **two channels for each function**. The increased resolution offers a smooth dimming and a more accurate color adjustment. DMX values for the first channel (byte 1) are in the range of 256 to 65535 while for the second channel (byte 2) they are in the range of 0 to 255.

**⚠ ATTENTION:** The symbol - ! - on the display indicates that there is **no DMX signal**.

**⚠ ATTENTION:** \* If the **STROBE** in the DMX ADVANCED SETTINGS is enabled, there are 1 more channel in 8 bit and 2 more channels in 16 bit:

## DMX Channel Protocol - 8 bit

| MODE | CHANNELS | DMX CHANNEL POSITION | DMX VALUE | VALUE       |
|------|----------|----------------------|-----------|-------------|
| CCT  | 2/3*     | 1. DIMMER            | 0 - 255   | 0 - 100 %   |
|      |          | 2. COLOR TEMPERATURE | 0 - 255   | 6500 - 2700 |
|      |          | 3. *STROBE CONTROL   | 0 ÷ 5     | ∅           |
|      |          |                      | 6 ÷ 255   | 1 ÷ 25 Hz   |

## DMX Channel Protocol - 16 bit

| MODE | CHANNELS | DMX CHANNEL POSITION          | DMX VALUE    | VALUE       |
|------|----------|-------------------------------|--------------|-------------|
| CCT  | 4/6*     | 1. DIMMER - byte 1            | 0 - 65535    | 0 ÷ 100 %   |
|      |          | 2. DIMMER - byte 2            |              |             |
|      |          | 3. COLOR TEMPERATURE - byte 1 | 0 - 65535    | 6500 - 2700 |
|      |          | 4. COLOR TEMPERATURE - byte 2 |              |             |
|      |          | 5. *STROBE CONTROL - byte 1   | 0 ÷ 1300     | ∅           |
|      |          | 6. *STROBE CONTROL - byte 2   | 1301 ÷ 65535 | 1 ÷ 25 Hz   |

# RDM Protocol Specification

| COMMAND                      | PID    | DESCRIPTION                                         |
|------------------------------|--------|-----------------------------------------------------|
| Manufacturer ID              | 0x0622 | Manufacturer identification number (LUPO Lighting). |
| <b>Device Identification</b> |        |                                                     |
| <b>Model ID</b>              |        | <b>Model identification number</b>                  |
|                              | 1      | DayledPRO 650 mono color                            |
|                              | 2      | DayledPRO 650 dual color                            |
|                              | 3      | DayledPRO 1000 mono color                           |
|                              | 4      | DayledPRO 1000 dual color                           |
|                              | 5      | DayledPRO 2000 mono color                           |

|                              |      |                                  |
|------------------------------|------|----------------------------------|
|                              | 6    | DayledPRO 2000 dual color        |
|                              | 7    | SuperpanelPRO 30 dual color soft |
|                              | 8    | SuperpanelPRO 30 dual color hard |
|                              | 9    | SuperpanelPRO 30 full color soft |
|                              | 10   | SuperpanelPRO 30 full color hard |
|                              | 11   | SuperpanelPRO 60 dual color soft |
|                              | 12   | SuperpanelPRO 60 dual color hard |
|                              | 13   | SuperpanelPRO 60 full color soft |
|                              | 14   | SuperpanelPRO 60 full color hard |
|                              | 15   | ActionpanelPRO dual color soft   |
|                              | 16   | ActionpanelPRO dual color hard   |
|                              | 17   | ActionpanelPRO full color soft   |
|                              | 18   | ActionpanelPRO full color hard   |
|                              | 19   | Kickasspanel dual color          |
|                              | 20   | Kickasspanel full color          |
|                              | 21   | Lupoled monocolour               |
|                              | 22   | Lupoled dualcolor                |
|                              | 23   | MovielightPRO 300 monocolour     |
|                              | 24   | MovielightPRO 300 dual color     |
|                              | 25   | UltrapanelPRO 30 dual color soft |
|                              | 26   | UltrapanelPRO 30 dual color hard |
|                              | 27   | UltrapanelPRO 60 full color soft |
|                              | 28   | UltrapanelPRO 60 full color hard |
|                              | 29   | UltrapanelPRO 30 full color soft |
|                              | 30   | UltrapanelPRO 30 full color hard |
|                              | 31   | UltrapanelPRO 60 dual color soft |
|                              | 32   | UltrapanelPRO 60 dual color hard |
|                              | 33   | DayledPRO 650 PRO Full Color     |
|                              | 34   | DayledPRO 1000 PRO Full Color    |
|                              | 35   | DayledPRO 2000 PRO Full Color    |
|                              | 36   | DayledPRO 3000 full color        |
|                              | 37   | Movielight 300 full color        |
|                              | 38   | DayledPRO 3000 mono color        |
|                              | 39   | DayledPRO 3000 dual color        |
|                              | 40   | MovielightPRO 600 dual color     |
|                              | 41   | DayledPRO 5000 monocolour        |
|                              | 42   | DayledPRO 5000 dual color        |
|                              | 43   | DayledPRO 5000 full color        |
|                              | 44   | HyperpanelPRO 30 dual color soft |
|                              | 45   | HyperpanelPRO 30 dual color hard |
|                              | 46   | HyperpanelPRO 60 dual color soft |
|                              | 47   | HyperpanelPRO 60 dual color hard |
|                              | 48   | MovielightPRO 600 full color     |
| <b>Personality MONOCOLOR</b> |      | <b>DMX Personality</b>           |
|                              | 0x01 | CCT                              |

|                               |        |                                                                                                                       |
|-------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Personality DUAL COLOR</b> |        | <b>DMX Personality</b>                                                                                                |
|                               | 0x01   | CCT                                                                                                                   |
|                               | 0x02   | PRESET                                                                                                                |
| <b>Personality FULL COLOR</b> |        | <b>DMX Personality</b>                                                                                                |
|                               | 0x01   | CCT                                                                                                                   |
|                               | 0x02   | HSI                                                                                                                   |
|                               | 0x03   | RGBW                                                                                                                  |
|                               | 0x04   | FRGBW                                                                                                                 |
|                               | 0x05   | PRESET                                                                                                                |
| <b>Network management</b>     |        |                                                                                                                       |
| DISC UNIQUE BRANCH            | 0x0001 | Search RDM devices                                                                                                    |
| DISC MUTE                     | 0x0002 | Mute RDM device, no response message                                                                                  |
| DISC UN MUTE                  | 0x0003 | Activate RDM device fo response message                                                                               |
| <b>Status collection</b>      |        |                                                                                                                       |
| QUEUED MESAGES                | 0x0020 | Retrieves queued messages or status message if no message is in queue                                                 |
| STATUS MESSAGES               | 0x0030 | Retrieves current Warning/Error messages                                                                              |
| <b>RDM Information</b>        |        |                                                                                                                       |
| SUPPORTED PARAMETERS          | 0x0050 | Retrieves a list of all supported RDM commands                                                                        |
| PARAMETER DESCRIPTION         | 0x0051 | Retrieves a list of all RDM commands                                                                                  |
| <b>Product Information</b>    |        |                                                                                                                       |
| DEVICE INFO                   | 0x0060 | Retrieves a variety of information about the device that is normally required by a controller.                        |
| DEVICE MODEL DESCRIPTION      | 0x0080 | Text description of up to 32 characters for the device model type.                                                    |
| MANUFACTURER LABEL            | 0x0081 | This parameter provides an ASCII text response with the Manufacturer name for the device. "LUPO" is the default name. |
| FACTORY DEFAULTS              | 0x0090 | Set the device to its factory defaults. Get: Check if settings still in default state -> 1 if default                 |
| SOFTWARE VERSION LABEL        | 0x00C0 | Retrieves software version string of main software                                                                    |
| <b>DMX512 Setup</b>           |        |                                                                                                                       |
| DMX PERSONALITY               | 0x00E0 | DMX mode                                                                                                              |
| DMX PERSONALITY DESCRIPTION   | 0x00E1 | Shows a description of a DMX-Mode, max 32 characters                                                                  |
| DMX START ADDRESS             | 0x00F0 | DMX address                                                                                                           |
| <b>Control</b>                |        |                                                                                                                       |
| IDENTIFY DEVICE               | 0x1000 | The identify flag (flashes the light)                                                                                 |
| <b>Manufacturer Commands</b>  |        |                                                                                                                       |
| DISPLAY TIMEOUT               | 0x8002 | 0: 30 sec 1: 1 min 2: always on                                                                                       |
| DMX SIGNAL LOST MODE          | 0x8003 | 0: black out 1: last settings on 2: last settings 1 min                                                               |
| DMX BITS                      | 0x8004 | 0: 8 bit 1: 16 bit                                                                                                    |
| CCT LIMIT                     | 0x8005 | 0: 2800-10000 1: 3200-5600                                                                                            |
| LINEARIZATION                 | 0x8006 | 0: linear 1: exponential 2: logarithmic                                                                               |

## DEVICE SETTINGS

1. Press the **2** push button to enter the main MENU.
2. Navigate through the MENU rotating the **2** button, select **DEVICE SETTINGS**, press the **2** push button to confirm the selection.
3. Navigate through the MENU rotating the **2** button, select **GENERAL**, press the **2** push button to confirm the selection.
4. Navigate through the **FAN POWER / DISPLAY / FREQUENCY / FILTER / LINEARIZATION / CCT LIMIT** functions, rotating the **2** button to select the desired function and press the **2** push button to confirm the selection.
5. Within each function select the option to be activated and rotate the **2** button.

**Display:** Time during which the display backlight stays on. **30sec / 1min / ALWAYS ON.**

**Frequency:** Dimmer frequency 18 KHz - 25 KHz

**Filter:** It is the speed response of the system (smooth factor).

**FULL SPEED / NORMAL SPEED / HIGH SPEED / LOW SPEED.**

**Linearization:** Linearization is the compensation curve for the human eye's perception of the luminous intensity emitted as a function of the required power. Required power = dimmer value on the display. **LINEAR / EXPONENTIAL / LOGARITHMIC.**

**Linear:** No compensation, the intensity of the light is directly proportional to requested power.

**Exponential:** The light intensity increases from 0 to 100 exponentially.

**Logarithmic:** The light intensity increases from 0 to 100 logarithmically.

**CCT Limit:** CCT range 2800 - 6500 or 3200 - 5600

## RESET DEVICE

1. Press the « **OK** » **2** button to enter the main MENU.
2. Select **RESET DEVICE** rotating the **2** button, press the **2** push button to confirm the selection.
3. Select **YES** rotating the **2** button, press the **2** push button to confirm the selection.
4. The device ask for further confirmation, select **YES** by pressing the press the **2** push button. **THE DEVICE RETURNS TO FACTORY DEFAULT SETTINGS.**

| FACTORY DEFAULT SETTING         |                        |
|---------------------------------|------------------------|
| <b>MODE</b>                     | <b>DEVICE SETTINGS</b> |
| CCT                             | DISPLAY: 1 min         |
| <b>DMX OPERATION</b>            | FILTER : Normal speed  |
| BIT: 8 BIT                      | LINEARIZATION: Linear  |
| DMX SIGNAL LOSS: Settings 1 MIN | FREQUENCY: 18 KHz      |
| RDM ENABLE: OFF                 |                        |
| INV - CCT: OFF                  | <b>CONTROL</b>         |
|                                 | Manual                 |

## USB PORT

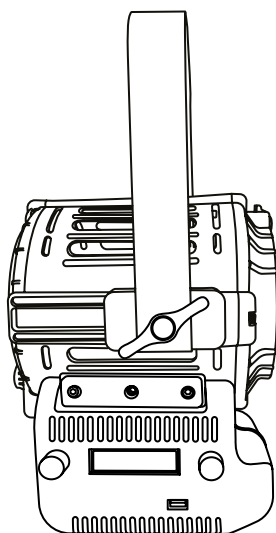
Use USB port for firmware updates.

## Update the Firmware

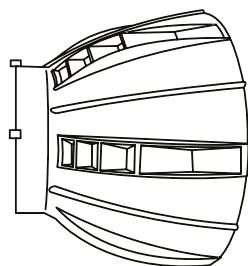
1. Copy the file on an USB Pendrive (FAT32 formatted) in the main root;
2. Switch off the equipment and insert the USB Pendrive;
3. Switch on the equipment;
4. Wait until display backlight stop flashing (it takes several minutes and display backligh must toggle for all time long);
5. Switch off the equipment;
6. Extract the Pendrive and switch on the equipment: the firmware is updated.



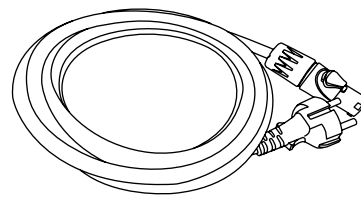
## Package Contents for MovielightPRO 300



**MovielightPRO 300**



**Parabolic Reflector**



**AC Power  
Cord Cable**

**⚠ ATTENTION:** Please keep the original package of the product in a safe place for warranty reasons.

## ACCESSORIES

The accessories are products sold separately.

### COMPLETE KIT OF V-MOUNT BATTERY POWER SUPPLY FOR MOVIELIGHTPRO 300

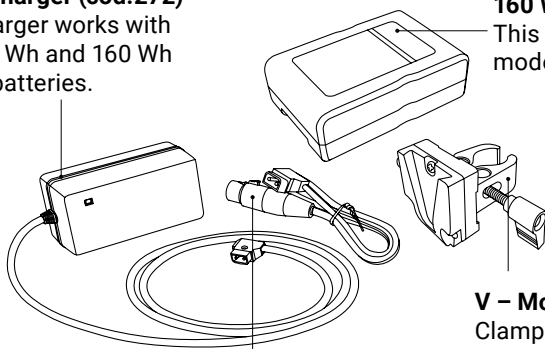
The items are also sold separately.

#### **Battery charger (cod.272)**

This charger works with Lupo 95 Wh and 160 Wh batteries.

#### **160 Wh battery (cod.271)**

This batteries allows to power all Lupo models with AC/DC functioning.



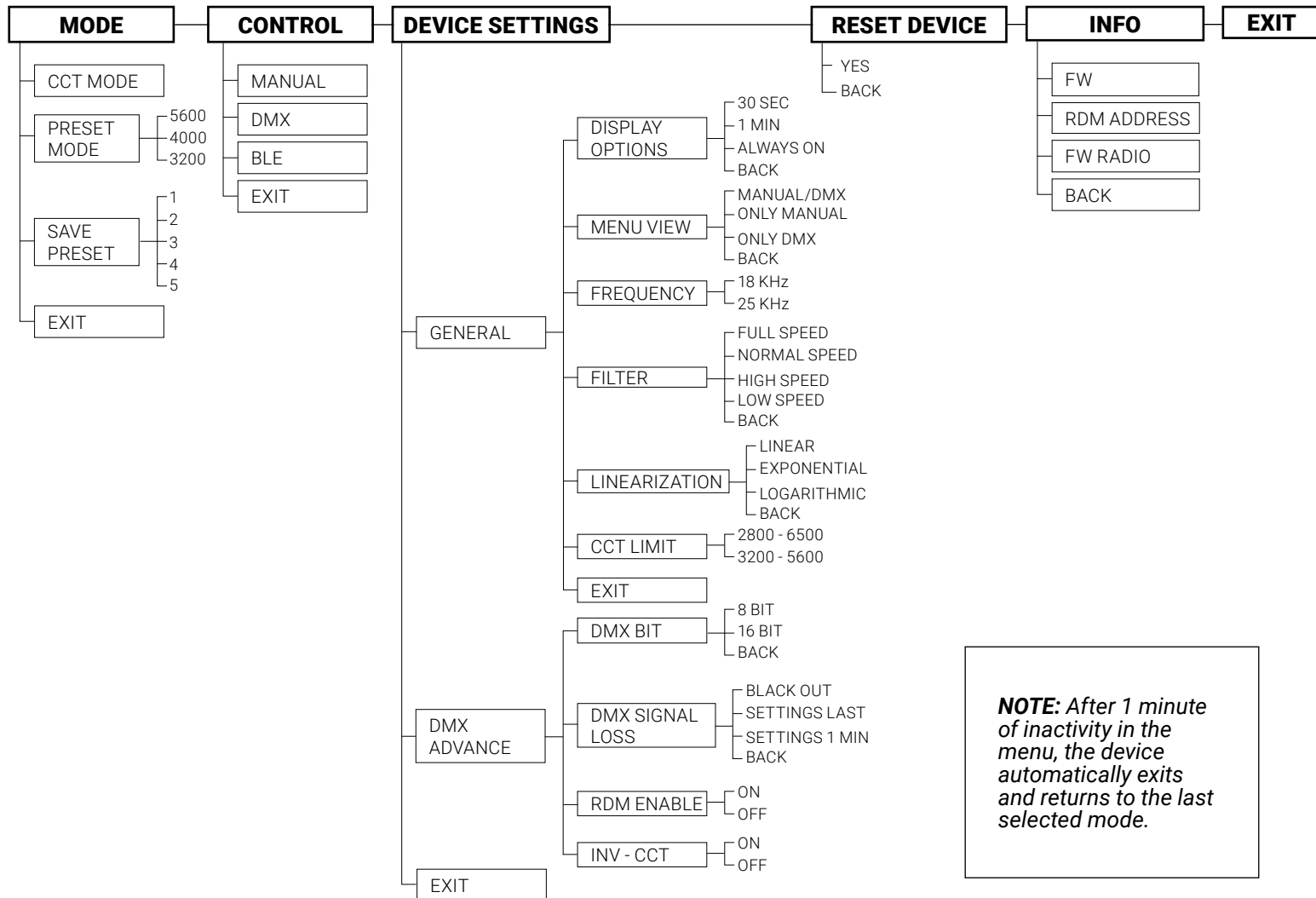
**D – Tap cable (cod.313)**

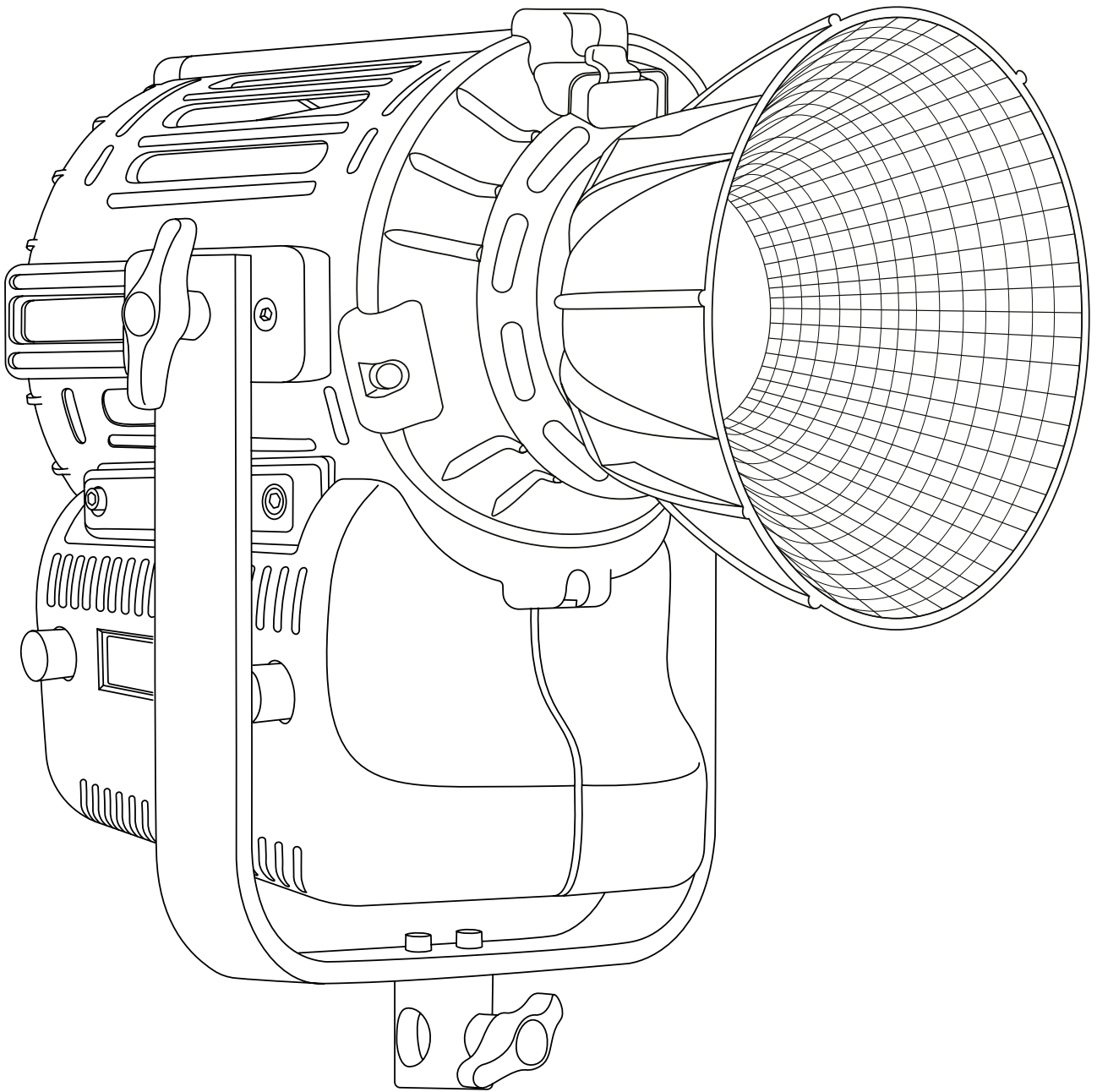
#### **V – Mount clamp (cod.320)**

Clamp for stand only is an essential accessory for lithium battery powered equipment. It accepts all standard V-Mount batteries.

## MENU e submenus

- Select **"EXIT"** to return to the current mode.
- Select **"BACK"** to return to the previous menu.





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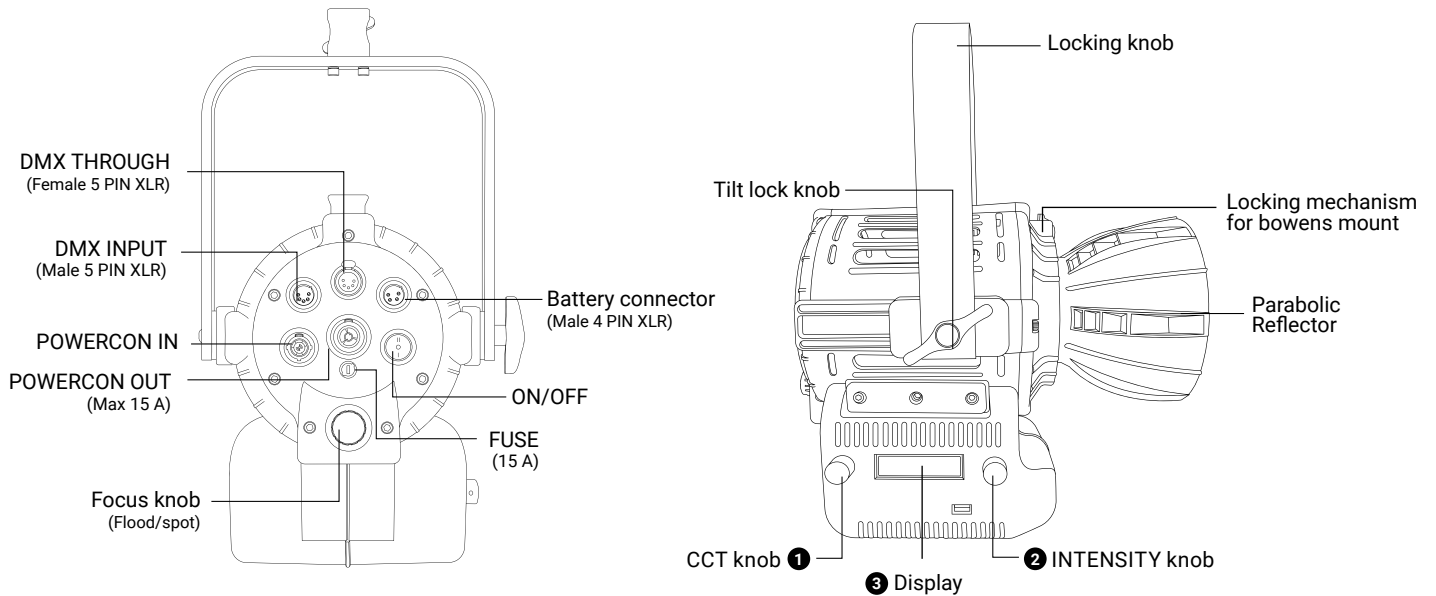
## User Manuals

# 909 MovielightPRO Full Color 600

## Instructions

- Max input current for daisy chain: 15 A
- Device for indoor use only.
- Protection standard IP20.
- Maximum ambient temperature: 45 °C.
- Make sure power supply plug is suitable to power required.
- As prescribed by international regulations, a safety cable must be used when the fixture is suspended from ceiling.
- To switch on the light push the on/off button.

## Getting Started with the Movielight 300



## CONTROL PANEL

- In current mode press the ② push button to enter the main MENU.
- In the sub-menus press the ② push button to confirm a selection.
- Rotate the ② knob to navigate in the main MENU and sub-menus.
- Use the « INTENSITY » ② knob to adjust the **light intensity from 0 to 100%**.
- Use the knob ① to adjust the light mode parameters.
- Display ③.

## MODE

1. Press the ② push button to enter the main MENU.
2. Select **MODE** by pressing the ② push button.
3. Select the light mode among **CCT** with the ② knob and press the ② push button to confirm selection.
4. Select among **CCT / HSI / RGBW / PRESET / EFFECT / SAVE PRESET** with the ② knob and press the ② push button to confirm selection
5. See **LIGHT MODES**.

## LIGHT MODES

| MODE   | INTENSITY ④                    | CCT/HUE ⑤          | GN/SAT/COLOR ⑥                | « ▼ » ① « ▲ » ③               |
|--------|--------------------------------|--------------------|-------------------------------|-------------------------------|
| CCT    | Light Intensity from 0 to 100% | CT 2800K to 10000K | GN -1.00 to +1.00             | -                             |
| HSI    |                                | HUE 0° to 100°     | SAT 0 to 100%                 | -                             |
| RGBW   |                                | -                  | Select function R/G/B/W/CT/GN | Change values of the function |
| PRESET |                                | -                  | -                             | Change Preset                 |

**CCT MODE:** Warm and cold white control mode. It allows you to adjust colour temperature (CCT), green/magenta compensation (GN) and light intensity. *This is the default setting.*

1. In MODE menu select **EFFECT MODE**.
2. Select the EFFECT to be activated with rotate the ❷ button, confirm the selection by pressing the ❷ push button.
3. Use the knob ❷ to change the DIMMER and the knob ❶ to adjust the effect setting values.

**⚠ ATTENTION:** Rotating the ❶ knob changes the CT value- Pressing ❶ button select GN value that can be changed by rotating the same ❶ knob.

## DMX OPERATION

1. Press the ❷ push button to enter the main MENU.
2. Select **CONTROL** with the ❷ knob and press the ❷ push button to confirm selection.
3. Select **DMX** with the ❷ knob and press the ❷ push button to confirm selection.
4. Select the DMX channel, rotating the ❶ knob to change DMX ADDRESS in ascending or descending order among 1 and 512. The number shown on the display ❸ is the selected channel to communicate with the control desk.
5. See **DMX PROTOCOL MANUAL** for DMX channel specification.

**NOTE:** The symbol - ! - on the display indicates that there is **no DMX signal**.

## BLUETOOTH

1. Press the ❷ push button to enter the main MENU.
1. Select **CONTROL** with the ❷ knob and press the ❷ push button to confirm selection.
2. Select **BLE** with the ❷ knob and press the ❷ push button to confirm selection.

## DMX OPERATION - Advanced Settings

1. Press the ❷ push button to enter the main MENU.
2. Navigate through the main MENU with the ❷ knob until **DEVICE SETTINGS** and press the ❷ push button to confirm selection.
3. Rotate the ❷ knob to select **DMX ADVANCED**, press the ❷ push button to confirm selection.
4. Select one of the options among the **DMX BIT**, **DMX SIGNAL LOSS**, **RDM ENABLE**, **STROBE ENABLE** and **INV CCT** press ❷ push button to confirm the selection.

### DMX BIT:

Resolution of the DMX control. 8bit 1 channel per function and 16 bit 2 channels per function.

1. Select the **DMX BIT** item by pressing the ❷ push button.
2. Rotate the ❷ knob to choose between **8bit / 16bit**, press the ❷ push button to confirm the selected setting. See **DMX PROTOCOL MANUAL**.

### DMX SIGNAL LOSS:

This feature allows to choose the device's behaviour in case of a DMX signal loss.

1. Select the **LOSS DMX SIGNAL** item with the ❷ push button
2. Rotate the ❷ knob to select the device's behaviour among **BLACK OUT /SETTINGS LAST / SETTINGS 1min**, press the ❷ push button to confirm the setting.

**Black out:** The device switches off.

**Settings Last:** The values of the last selected setting are maintained over time until the device is switched off.

**Settings 1min:** The values of the last selected settings is maintained for one minute and then the device switch off.

**RDM Enable:** ON/OFF, enable/disable RDM Protocol

**INV CCT:** ON/FF: enable/disable reversal CCT console control

# DMX Protocol

## Introduction

The MovielightPRO models can be used with 8 bit or 16 bit DMX control.  
(See *DMX OPERATION - advanced settings* in the user's manual).

When used in **8 bit mode** the panels uses **one channel for each function**. DMX values for each channel are in the range of 0 to 255. When used in **16 bit mode** the panels uses **two channels for each function**. The increased resolution offers a smooth dimming and a more accurate color adjustment. DMX values for the first channel (byte 1) are in the range of 256 to 65535 while for the second channel (byte 2) they are in the range of 0 to 255.

**⚠ ATTENTION:** The symbol - ! - on the display indicates that there is **no DMX signal**.

## DMX Channel Protocol - 8 bit

| MODE   | CHANNELS | DMX CHANNEL POSITION | DMX VALUE | VALUE           |
|--------|----------|----------------------|-----------|-----------------|
| CCT    | 2/4*     | 1. DIMMER            | 0 - 255   | 0 - 100 %       |
|        |          | 2. COLOR TEMPERATURE | 0 - 255   | 6500 - 2700     |
|        |          | 3. GN COMPENSATION   | 0 ÷ 5     | Ø               |
|        |          |                      | 6 ÷ 255   | - 1,00 ÷ + 1,00 |
|        |          | 4. *STROBE CONTROL   | 0 ÷ 5     | Ø               |
|        |          |                      | 6 ÷ 255   | 1 ÷ 25 Hz       |
| HSI    | 3        | 1. DIMMER            | 0 - 255   | 0 - 100 %       |
|        |          | 2. HUE               | 0 - 255   | 6500 - 2700     |
|        |          | 3. SATURATION        | 0 ÷ 255   | 0 ÷ 100%        |
| RGBW   | 7        | 1. DIMMER            | 0 - 255   | 0 ÷ 100%        |
|        |          | 2. RED               | 0 ÷ 255   | 0 ÷ 100%        |
|        |          | 3. GREEN             | 0 ÷ 255   | 0 ÷ 100%        |
|        |          | 4. BLUE              | 6 ÷ 255   | 0 ÷ 100%        |
|        |          | 5. WHITE             | 0 ÷ 255   | 0 ÷ 100%        |
|        |          | 6. COLOR TEMPERATURE | 0 - 255   | 6500 - 2700     |
|        |          |                      | 0 ÷ 5     | Ø               |
| FRGBW  | 7        | 7. GN COMPENSATION   | 6 ÷ 255   | - 1,00 ÷ + 1,00 |
|        |          |                      | 0 - 255   | 0 ÷ 100%        |
|        |          | 1. DIMMER            | 0 - 255   | 0 ÷ 100%        |
|        |          | 2. RED               | 0 ÷ 255   | 0 ÷ 100%        |
|        |          | 3. GREEN             | 0 ÷ 255   | 0 ÷ 100%        |
|        |          | 4. BLUE              | 6 ÷ 255   | 0 ÷ 100%        |
|        |          | 5. WHITE             | 0 ÷ 255   | 0 ÷ 100%        |
| PRESET | 4        | 6. COLOR TEMPERATURE | 0 - 255   | 6500 - 2700     |
|        |          | 7. GN COMPENSATION   | 0 ÷ 5     | Ø               |
|        |          |                      | 6 ÷ 255   | - 1,00 ÷ + 1,00 |
|        |          | 1. DIMMER            | 0 - 255   | 0 ÷ 100 %       |
|        |          | 2. PRESET            | 0 ÷ 255   | 0 ÷ N PRESET    |
|        |          | 3. PRESET FREEZE     | 0 - 50    | NO FREEZE       |
|        |          |                      | 200 ÷ 255 | FREEZE          |
|        |          | 4. * STROBE CONTROL  | 0 ÷ 255   | 0 - 25 Hz       |
|        |          |                      |           |                 |
|        |          |                      |           |                 |
|        |          |                      |           |                 |

## DMX Channel Protocol - 16 bit

| MODE | CHANNELS | DMX CHANNEL POSITION          | DMX VALUE    | VALUE          |
|------|----------|-------------------------------|--------------|----------------|
| CCT  | 8        | 1. DIMMER - byte 1            | 0 - 65535    | 0 ÷ 100 %      |
|      |          | 2. DIMMER - byte 1            |              |                |
|      |          | 3. COLOR TEMPERATURE - byte 1 | 0 - 65535    | 6500 - 2700    |
|      |          | 4. COLOR TEMPERATURE - byte 2 |              |                |
|      |          | 5. GN COMPENSATION - byte 1   | 0 ÷ 500      | Ø              |
|      |          | 6. GN COMPENSATION - byte 2   | 501 ÷ 65535  | -1,00 ÷ + 1,00 |
|      |          | 7. *STROBE CONTROL - byte 1   | 0 ÷ 1300     | Ø              |
|      |          | 8. *STROBE CONTROL - byte 2   | 1301 ÷ 65535 | 1 ÷ 25 Hz      |

|        |    |                              |                          |                         |
|--------|----|------------------------------|--------------------------|-------------------------|
| HSI    | 6  | 1. DIMMER - byte 1           | 0 - 65535                | 0 ÷ 100 %               |
|        |    | 2. DIMMER - byte 1           |                          |                         |
|        |    | 3. HUE - byte 1              | 0 ÷ 65535                | 0 ÷ 360                 |
|        |    | 4. HUE - byte 2              |                          |                         |
|        |    | 5. SATURATION - byte 1       | 0 ÷ 65535                | 0 ÷ 100 %               |
|        |    | 6. SATURATION - byte 2       |                          |                         |
| RGBW   | 14 | 1. DIMMER - byte 1           | 0 - 65535                | 0 ÷ 100 %               |
|        |    | 2. DIMMER - byte 1           |                          |                         |
|        |    | 3. RED - byte 1              | 0 - 65535                | 0 ÷ 100 %               |
|        |    | 4. RED - byte 2              |                          |                         |
|        |    | 5. GREEN - byte 1            | 0 ÷ 65535                | 0 ÷ 100 %               |
|        |    | 6. GREEN - byte 2            |                          |                         |
|        |    | 7. BLUE - byte 1             | 0 ÷ 65535                | 0 ÷ 100 %               |
|        |    | 8. BLUE - byte 1             |                          |                         |
|        |    | 9. WHITE - byte 1            | 0 ÷ 65535                | 0 ÷ 360                 |
|        |    | 10. WHITE - byte 2           |                          |                         |
|        |    | 11. COLOR TEMPERAT. - byte 1 | 0 - 65535                | 6500 - 2700             |
|        |    | 12. COLOR TEMPERAT. - byte 2 |                          |                         |
|        |    | 13. GN COMPENSATION- byte 1  | 0 ÷ 500<br>501 ÷ 65535   | Ø<br>-1,00 ÷ + 1,00     |
|        |    | 14. GN COMPENSATION - byte 2 |                          |                         |
| FRGBW  | 14 | 1. DIMMER - byte 1           | 0 - 65535                | 0 ÷ 100 %               |
|        |    | 2. DIMMER - byte 1           |                          |                         |
|        |    | 3. RED - byte 1              | 0 ÷ 65535                | 0 ÷ 100 %               |
|        |    | 4. RED - byte 2              |                          |                         |
|        |    | 5. GREEN - byte 1            | 0 ÷ 65535                | 0 ÷ 100 %               |
|        |    | 6. GREEN - byte 2            |                          |                         |
|        |    | 7. BLUE - byte 1             | 0 ÷ 65535                | 0 ÷ 100 %               |
|        |    | 8. BLUE - byte 1             |                          |                         |
|        |    | 9. WHITE - byte 1            | 0 ÷ 65535                | 0 ÷ 360                 |
|        |    | 10. WHITE - byte 2           |                          |                         |
|        |    | 11. COLOR TEMPERAT. - byte 1 | 0 - 65535                | 6500 - 2700             |
|        |    | 12. COLOR TEMPERAT. - byte 2 |                          |                         |
|        |    | 13. GN COMPENSATION- byte 1  | 0 ÷ 500<br>501 ÷ 65535   | Ø<br>-1,00 ÷ + 1,00     |
|        |    | 14. GN COMPENSATION - byte 2 |                          |                         |
| PRESET | 8  | 1. DIMMER - byte 1           | 0 - 65535                | 0 ÷ 100 %               |
|        |    | 2. DIMMER - byte 1           |                          |                         |
|        |    | 3. PRESET - byte 1           | 0 ÷ 65535                | 0 ÷ 100 %               |
|        |    | 4. PRESET - byte 2           |                          |                         |
|        |    | 5. PRESET FREEZE - byte 1    | 0 - 12800 ><br>NO FREEZE | 51200 ÷ 65535<br>FREEZE |
|        |    | 6. PRESET FREEZE - byte 2    |                          |                         |
|        |    | 7. *STROBE CONTROL - byte 1  | 0 ÷ 1300                 | Ø                       |
|        |    | 8. *STROBE CONTROL - byte 2  | 1301 ÷ 65535             | 1 ÷ 25 Hz               |

# RDM

## Protocol Specification

| COMMAND                      | PID    | DESCRIPTION                                         |
|------------------------------|--------|-----------------------------------------------------|
| Manufacturer ID              | 0x0622 | Manufacturer identification number (LUPO Lighting). |
| <b>Device Identification</b> |        |                                                     |
| <b>Model ID</b>              |        | <b>Model identification number</b>                  |
|                              | 1      | DayledPRO 650 mono color                            |
|                              | 2      | DayledPRO 650 dual color                            |
|                              | 3      | DayledPRO 1000 mono color                           |
|                              | 4      | DayledPRO 1000 dual color                           |

|                              |      |                                  |
|------------------------------|------|----------------------------------|
|                              | 5    | DayledPRO 2000 mono color        |
|                              | 6    | DayledPRO 2000 dual color        |
|                              | 7    | SuperpanelPRO 30 dual color soft |
|                              | 8    | SuperpanelPRO 30 dual color hard |
|                              | 9    | SuperpanelPRO 30 full color soft |
|                              | 10   | SuperpanelPRO 30 full color hard |
|                              | 11   | SuperpanelPRO 60 dual color soft |
|                              | 12   | SuperpanelPRO 60 dual color hard |
|                              | 13   | SuperpanelPRO 60 full color soft |
|                              | 14   | SuperpanelPRO 60 full color hard |
|                              | 15   | ActionpanelPRO dual color soft   |
|                              | 16   | ActionpanelPRO dual color hard   |
|                              | 17   | ActionpanelPRO full color soft   |
|                              | 18   | ActionpanelPRO full color hard   |
|                              | 19   | Kickasspanel dual color          |
|                              | 20   | Kickasspanel full color          |
|                              | 21   | Lupoled monocolour               |
|                              | 22   | Lupoled dualcolor                |
|                              | 23   | MovielightPRO 300 monocolour     |
|                              | 24   | MovielightPRO 300 dual color     |
|                              | 25   | UltrapanelPRO 30 dual color soft |
|                              | 26   | UltrapanelPRO 30 dual color hard |
|                              | 27   | UltrapanelPRO 60 full color soft |
|                              | 28   | UltrapanelPRO 60 full color hard |
|                              | 29   | UltrapanelPRO 30 full color soft |
|                              | 30   | UltrapanelPRO 30 full color hard |
|                              | 31   | UltrapanelPRO 60 dual color soft |
|                              | 32   | UltrapanelPRO 60 dual color hard |
|                              | 33   | DayledPRO 650 PRO Full Color     |
|                              | 34   | DayledPRO 1000 PRO Full Color    |
|                              | 35   | DayledPRO 2000 PRO Full Color    |
|                              | 36   | DayledPRO 3000 full color        |
|                              | 37   | Movielight 300 full color        |
|                              | 38   | DayledPRO 3000 mono color        |
|                              | 39   | DayledPRO 3000 dual color        |
|                              | 40   | MovielightPRO 600 dual color     |
|                              | 41   | DayledPRO 5000 monocolour        |
|                              | 42   | DayledPRO 5000 dual color        |
|                              | 43   | DayledPRO 5000 full color        |
|                              | 44   | HyperpanelPRO 30 dual color soft |
|                              | 45   | HyperpanelPRO 30 dual color hard |
|                              | 46   | HyperpanelPRO 60 dual color soft |
|                              | 47   | HyperpanelPRO 60 dual color hard |
|                              | 48   | MovielightPRO 600 full color     |
| <b>Personality MONOCOLOR</b> |      | <b>DMX Personality</b>           |
|                              | 0x01 | CCT                              |



|                               |        |                                                                                                                       |
|-------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Personality DUAL COLOR</b> |        | <b>DMX Personality</b>                                                                                                |
|                               | 0x01   | CCT                                                                                                                   |
|                               | 0x02   | PRESET                                                                                                                |
| <b>Personality FULL COLOR</b> |        | <b>DMX Personality</b>                                                                                                |
|                               | 0x01   | CCT                                                                                                                   |
|                               | 0x02   | HSI                                                                                                                   |
|                               | 0x03   | RGBW                                                                                                                  |
|                               | 0x04   | FRGBW                                                                                                                 |
|                               | 0x05   | PRESET                                                                                                                |
| <b>Network management</b>     |        |                                                                                                                       |
| DISC UNIQUE BRANCH            | 0x0001 | Search RDM devices                                                                                                    |
| DISC MUTE                     | 0x0002 | Mute RDM device, no response message                                                                                  |
| DISC UN MUTE                  | 0x0003 | Activate RDM device fo response message                                                                               |
| <b>Status collection</b>      |        |                                                                                                                       |
| QUEUED MESAGES                | 0x0020 | Retrieves queued messages or status message if no message is in queue                                                 |
| STATUS MESSAGES               | 0x0030 | Retrieves current Warning/Error messages                                                                              |
| <b>RDM Information</b>        |        |                                                                                                                       |
| SUPPORTED PARAMETERS          | 0x0050 | Retrieves a list of all supported RDM commands                                                                        |
| PARAMETER DESCRIPTION         | 0x0051 | Retrieves a list of all RDM commands                                                                                  |
| <b>Product Information</b>    |        |                                                                                                                       |
| DEVICE INFO                   | 0x0060 | Retrieves a variety of information about the device that is normally required by a controller.                        |
| DEVICE MODEL DESCRIPTION      | 0x0080 | Text description of up to 32 characters for the device model type.                                                    |
| MANUFACTURER LABEL            | 0x0081 | This parameter provides an ASCII text response with the Manufacturer name for the device. "LUPO" is the default name. |
| FACTORY DEFAULTS              | 0x0090 | Set the device to its factory defaults. Get: Check if settings still in default state -> 1 if default                 |
| SOFTWARE VERSION LABEL        | 0x00C0 | Retrieves software version string of main software                                                                    |
| <b>DMX512 Setup</b>           |        |                                                                                                                       |
| DMX PERSONALITY               | 0x00E0 | DMX mode                                                                                                              |
| DMX PERSONALITY DESCRIPTION   | 0x00E1 | Shows a description of a DMX-Mode, max 32 characters                                                                  |
| DMX START ADDRESS             | 0x00F0 | DMX address                                                                                                           |
| <b>Control</b>                |        |                                                                                                                       |
| IDENTIFY DEVICE               | 0x1000 | The identify flag (flashes the light)                                                                                 |
| <b>Manufacturer Commands</b>  |        |                                                                                                                       |
| DISPLAY TIMEOUT               | 0x8002 | 0: 30 sec 1: 1 min 2: always on                                                                                       |
| DMX SIGNAL LOST MODE          | 0x8003 | 0: black out 1: last settings on 2: last settings 1 min                                                               |
| DMX BITS                      | 0x8004 | 0: 8 bit 1: 16 bit                                                                                                    |
| CCT LIMIT                     | 0x8005 | 0: 2800-10000 1: 3200-5600                                                                                            |
| LINEARIZATION                 | 0x8006 | 0: linear 1: exponential 2: logarithmic                                                                               |

## BLUETOOTH

1. Press the **2** push button to enter the main MENU.
2. Navigate through the MENU rotating the **2** button, select **DEVICE SETTINGS**, press the **2** push button to confirm the selection.
3. Navigate through the MENU rotating the **2** button, select **GENERAL**, press the **2** push button to confirm the selection.
4. Navigate through the **FAN POWER / DISPLAY / FREQUENCY / FILTER / LINEARIZATION / CCT LIMIT** functions, rotating the **2** button to select the desired function and press the **2** push button to confirm the selection.
5. Within each function select the option to be activated and rotate the **2** button.

**Display:** Time during which the display backlight stays on. **30sec / 1min / ALWAYS ON.**

**Frequency:** Dimmer frequency 18 KHz - 25 KHz

**Filter:** It is the speed response of the system (smooth factor).

**FULL SPEED / NORMAL SPEED / HIGH SPEED / LOW SPEED.**

**Linearization:** Linearization is the compensation curve for the human eye's perception of the luminous intensity emitted as a function of the required power. Required power = dimmer value on the display. **LINEAR / EXPONENTIAL / LOGARITHMIC.**

**Linear:** No compensation, the intensity of the light is directly proportional to requested power.

**Exponential:** The light intensity increases from 0 to 100 exponentially.

**Logarithmic:** The light intensity increases from 0 to 100 logarithmically.

**CCT Limit:** CCT range 2800 - 6500 or 3200 - 5600

## RESET DEVICE

1. Press the « OK » **2** button to enter the main MENU.
2. Select **RESET DEVICE** rotating the **2** button, press the **2** push button to confirm the selection.
3. Select **YES** rotating the **2** button, press the **2** push button to confirm the selection.
4. The device ask for further confirmation, select **YES** by pressing the press the **2** push button. **THE DEVICE RETURNS TO FACTORY DEFAULT SETTINGS.**

| FACTORY DEFAULT SETTING         |                        |
|---------------------------------|------------------------|
| <b>MODE</b>                     | <b>DEVICE SETTINGS</b> |
| CCT                             | DISPLAY: 1 min         |
|                                 | FILTER : Normal speed  |
| <b>DMX OPERATION</b>            | LINEARIZATION: Linear  |
| BIT: 8 BIT                      | FREQUENCY: 18 KHz      |
| DMX SIGNAL LOSS: Settings 1 MIN |                        |
| RDM ENABLE: OFF                 | <b>CONTROL</b>         |
| INV - CCT: OFF                  | Manual                 |

## USB port

Use USB port for firmware updates.

## Update the Firmware

1. Copy the file on an USB Pendrive (FAT32 formatted) in the main root;
2. Switch off the equipment and insert the USB Pendrive;
3. Switch on the equipment;

4. Wait until display backlight flashes (it takes several minutes and red led must toggle for all time long);
5. Switch off the equipment;
6. Extract the Pendrive and switch on the equipment: the firmware is updated.

## MENU e submenus

- Select **"EXIT"** to return to the current mode.
- Select **"BACK"** to return to the previous menu.

