



# EclPendant Jr VW

100W Variable White innovative pendant light



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## USER MANUAL

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Product user manual can be downloaded from the website [www.prolights.it](http://www.prolights.it) , or can be inquired to the official PROLIGHTS distributors of your territory ([https://www.prolights.it/sales\\_network.html](https://www.prolights.it/sales_network.html)).

Scanning the below **QR Code**, you will access the download area of the product page, where you can find a broad set of always updated technical documentation: specifications, user manual, technical drawings, photometrics, personalities, fixture firmware updates.



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# SAFETY INFORMATION



## WARNING!

- See <https://www.prolights.it/product/ECLPENDANTJRWW#download> for installation instructions.
- Please read carefully the instruction reported in this section before installing, powering, operating or servicing the product and observe the indications also for its future handling.



**This unit is not for household, only professional applications.**



## Connection to mains supply

- The Connection to the mains supply must be carried out by a qualified electrical installer.
- Use only AC supplies 100-240V 50-60 Hz, the fixture must be electrically connected to ground (earth).
- Select the cable cross section in according with the maximum current draw of the product and the possible number of products connected at the same power line.
- The AC mains power distribution circuit must be equipped with magnetic+residual current circuit breaker protection.
- Do not connect it to a dimmer system; doing so may damage the product.



## Protection and Warning against electrical shock

- Do not remove any cover from the product, always disconnect the product from AC power before servicing.
- Ensure that the fixture is electrically connected to ground (earth). And use only a source of AC power that complies with local building and electrical codes and has both overload and ground-fault (earth-fault) protection.
- Before using the fixture, check that all power distribution equipment and cables are in perfect condition and rated for the current requirements of all connected devices.
- Isolate the fixture from power immediately if the power plug or any seal, cover, cable, or other components are damaged, defective, deformed or showing signs of overheating.
- Do not reapply power until repairs have been completed.
- Refer any service operation not described in this manual to PROLIGHTS Service team or an authorized PROLIGHTS service center.



## Installation

- Make sure that all visible parts of the product are in good visible condition before its use or installation.
- Make sure the point of anchorage is stable before positioning the projector.
- When suspending the fixture above ground level, secure it against failure of primary attachments by attaching a safety cable that is approved as a safety attachment for the weight of the fixture to the attachment point on the main frame of the product. In case the safety cable, enter in action, it needs to be replaced with a new one.
- Install the product only in well ventilated places.
- For non temporary installations, ensure that the fixture is securely fastened to a load-bearing surface with suitable corrosionresistant hardware.
- For a temporary installation with clamps, ensure that the quarter-turn fastener and/or screws are turned fully, and secured with a suitable safety cable.



## Minimum distance of illuminated objects

- The projector needs to be positioned so that the objects hit by the beam of light are at least 0.5 meters (1.64 ft) from the lens of the projector.

**T<sub>a</sub> 45°C**

## Max operating ambient temperature (Ta)

- Do not operate the fixture if the ambient temperature (Ta) exceeds 45 °C (113 °F).

**T<sub>a</sub> -10°C**



### Minimum operating ambient temperature (T<sub>a</sub>)

- Do not operate the fixture if the ambient temperature (T<sub>a</sub>) is below -10 °C (14 °F).

### Protection from burns and fire

- The exterior of the fixture becomes hot during use. Avoid contact by persons and materials.
- Ensure that there is free and unobstructed airflow around the fixture.
- Keep flammable materials well away from the fixture
- Do not expose the front glass to sunlight or any other strong light source from any angle. Lenses can focus the sun's rays inside the fixture, creating a potential fire hazard.
- Do not attempt to bypass thermostatic switches or fuses.



### Indoor use

- This product is designed for indoor and dry environments.
- Do not use in wet location and do not expose the fixture to rain or moisture.
- Never use the fixture in places subject to vibrations or bumps.
- Make certain that no inflammable liquids, water or metal objects enter the fixture.
- Excessive dust, smoke fluid, and particle build up degrades performance, causes overheating and will damage the fixture.
- Damages caused by inadequate cleaning or maintenance are not covered by the product warranty.

**T<sub>c</sub> 70°C**



### Temperature of the external surface

- The surface of the fixture can reach up to 70 °C (158 °F) during operation. Avoid contact with people and materials.

### Maintenance

- Warning! Disconnect the fixture from AC mains power and allow to cool for at least 10 minutes before handling.
- Only technicians who are authorized by PROLIGHTS or Authorised service partners are permitted to open the fixture.
- Users may carry out external cleaning, following the warnings and instructions provided, but any service operation not described in this manual must be referred to a qualified service technician.
- Important! Excessive dust, smoke fluid, and particle build up degrades performance, causes overheating and will damage the fixture. Damages caused by inadequate cleaning or maintenance is not covered by the product warranty.



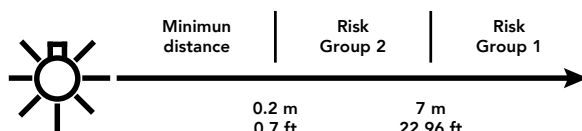
### Photobiological safety

- This device emits potentially dangerous optical radiation and is identified in the category of Risk Group 2 according to EN 62471.



### Do not stare at the operating light source

- Do not look directly at the LED source during operation. It can be harmful to the eyes and skin.
- During Installation, operation and maintenance, be prepared for the fixture to light and move suddenly when connected to power.
- The device should be positioned so that prolonged staring into the luminaire at a distance closer than 7 m (22,96 ft) is not expected.





#### **Disposal**

- This product is supplied in compliance with European Directive 2012/19/EU – Waste Electrical and Electronic Equipment (WEEE). To preserve the environment please dispose/ recycle this product at the end of its life according to the local regulation.



#### **The products to which this manual refers comply with:**

- 2014/35/EU - Safety of electrical equipment supplied at low voltage (LVD).
- 2014/30/EU - Electromagnetic Compatibility (EMC).
- 2011/65/EU - Restriction of the use of certain hazardous substances (RoHS).
- 2014/53/EU - Radio Equipment Directive (RED).



#### **Other approvals**



# 1 - PACKAGING

## PACKAGE CONTENT

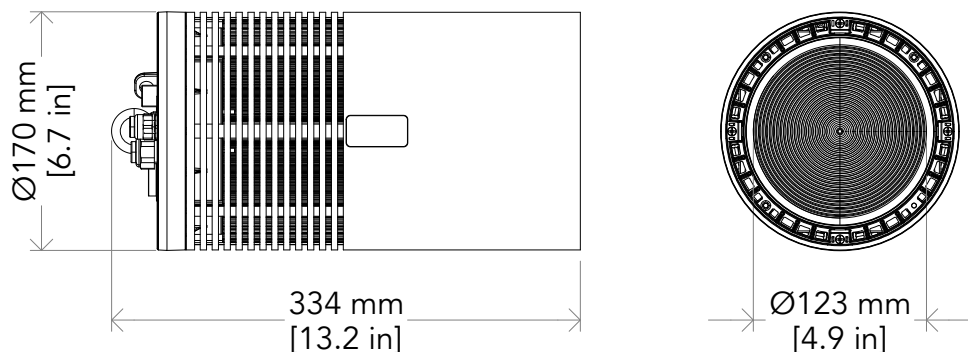
- 1 x ECLPENDANTJRWW.
- 1 x 1,5 meters power cable (BARE END - SEETRONIC IP65 power connector).
- User Manual.

NOTE: no hanging bracket ECLPENDJRHGBRK on board to the fixture.

## OPTIONAL ACCESSORIES

- ECLPENDJRLENS60/40/20: ECLPENDANTJR series lens.
- ECLPENDJRHGBRKBK/WH: hanging bracket for ECLPENDANTJR series, black/white.
- ECLPENDJRRECKITBK/WH: ceiling recessed kit for ECLPENDANTJR series, black/white.
- ECLPENDJRHSNOOTBK/WH: half snoot for ECLPENDANTJR series, black/white.
- ECLPENDJRFSNOOTBK/WH: full snoot for ECLPENDANTJR series, black/white.
- ECLPENDJRHLOUVBK/WH: honeycomb louvre for ECLPENDANTJR series, black/white.
- ECLPENDJRCLOUVBK/WH: concentric louvre for ECLPENDANTJR series, black/white.
- ECLPENDWALLBRKBK/WH: wall mounting bracket for ECLPENDANT and ECLPENDANTJR series, black/white.
- TOUR53415L03BK: dmx cable HC5340. CANS5MXX XLR 5p->CANS5FXX XLR (f) 5p.
- C6002A/B: slim aluminium clamp, 200 kg loading, 48-51 mm tubes, M10 bolt, silver/black.
- RSRSR0630B: steel security cable for hanging bodies, inox steel shackle, silver/black.
- 9533FXWL03: ass. 3x2.5mm TH07 cable, SHUKO plug, MENAC3FXW socket.
- 9513FXW9513FXWL03: ass. 3x2.5mm TH07 cable, 16A 3p 230V CEE plug, MENAC3FXW socket.
- 958225958225L03: 3x2.5mm TH07. Cable, 16A 3p PwCon MXW, 16A 3p PwCon FXW.
- UPBOX1UP5: Firmware uploader kit, USB IN, 5p XLR DMX OUT, DMX OUT.
- UPBOXPRO: Firmware uploader kit, USB IN, 5-pin XLR DMX OUT connector.

# 2 - TECHNICAL DRAWING



Weight: 5 kg - 11,02 lbs

Fig. 01

## 3 - INSTALLATION

### MOUNTING

Check that the supporting structure can safely bear the weight of all installed fixtures, clamps, cables, auxiliary equipment, etc. and complies with locally applicable regulations.

When suspending the fixture above ground level, secure it against failure of primary attachments by attaching a safety wire that is approved as a safety attachment for the weight of the fixture to an anchor point on the product main frame.

Do not use removable parts or weak anchors for secondary attachment.

Warning! When clamping the fixture to a truss or other structure at any angle, use clamps of half-coupler type. Do not use any type of clamp that does not completely encircle the structure when fastened.

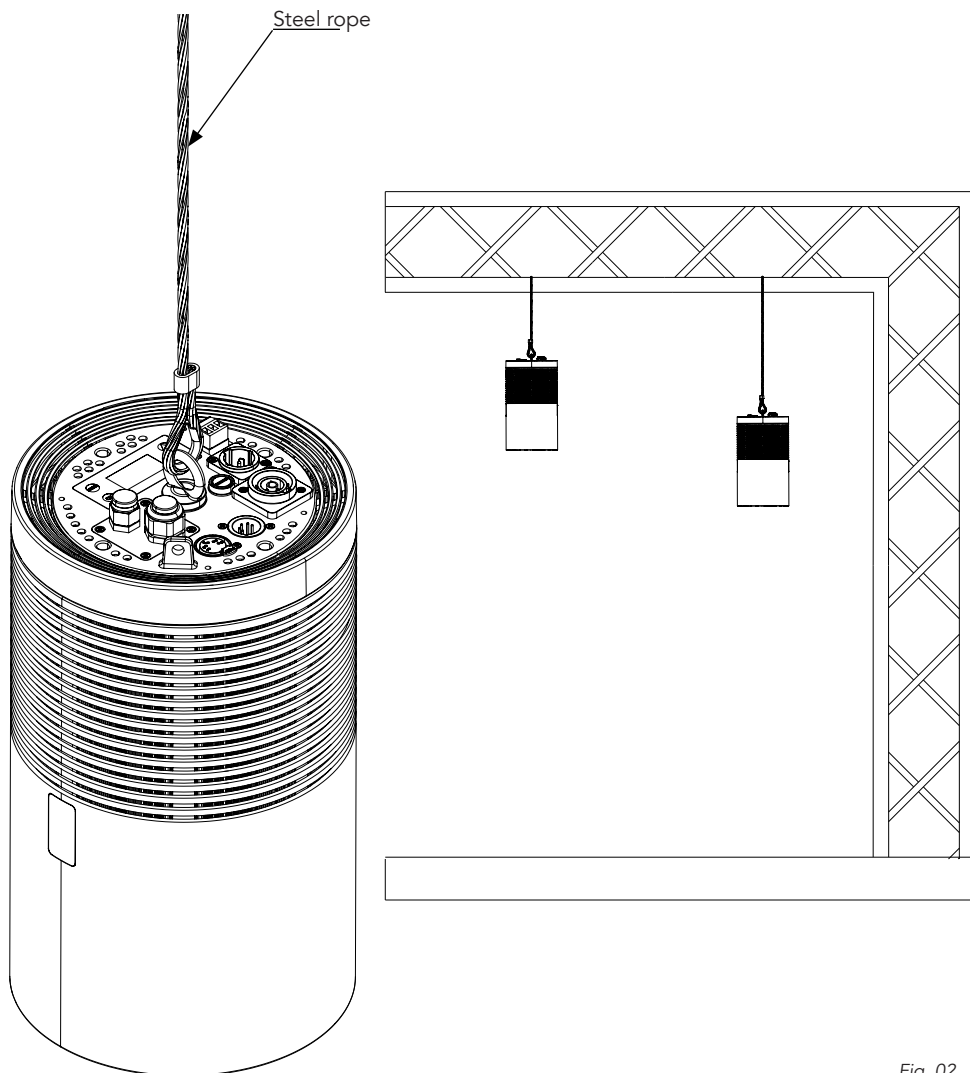


Fig. 02

## 4 - PRODUCT OVERVIEW

1. DALI/DMX signal.
2. EYEBOLT: for hanging pendant applications.
3. USER INTERFACE with display and buttons for access to the control panel functions.
4. POWER OUT: power output for connection of multiple units in series.
5. 48V DC input.
6. SAFETY EYE to attach safety cable.
7. POWER IN.
8. DMX OUT (5-p XLR): 1 = GND, 2 = sign-, 3 = sign+, 4 N/C, 5 N/C
9. DMX IN (5-p XLR): 1 = GND, 2 = sign-, 3 = sign+, 4 N/C, 5 N/C.
10. MAIN FUSE HOLDER: replace a burnt-out fuse by one of the same type only (250V, T3, 15A).
11. POWER IN: for connection to the Mains 100-240V~/50-60Hz.

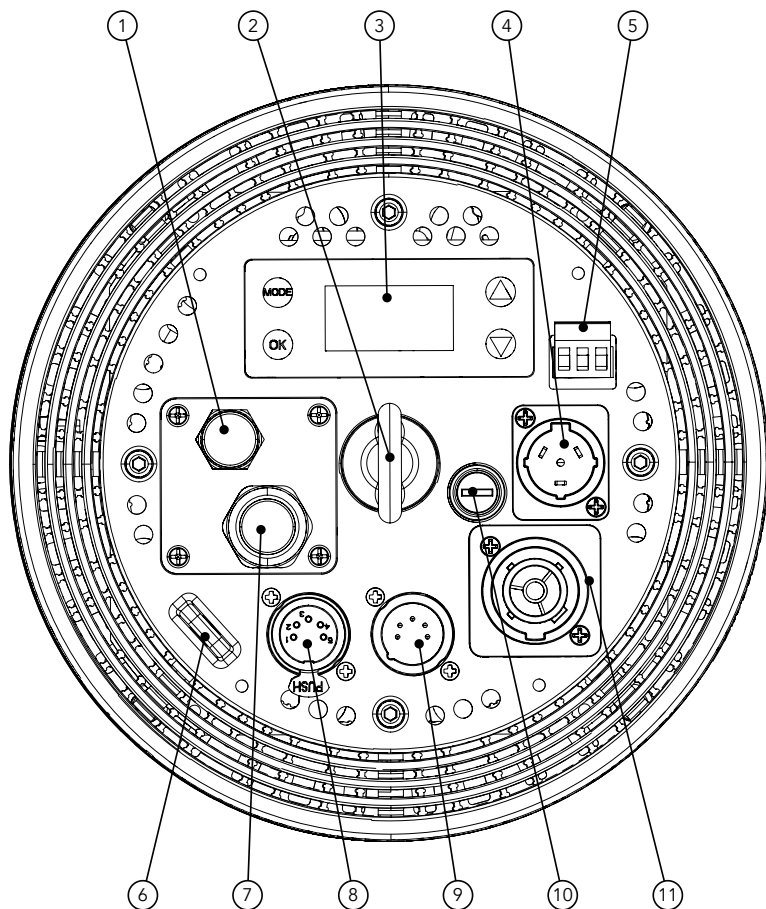


Fig. 03

# 5 - CONNECTION TO THE MAINS SUPPLY

**WARNING:** For protection from electric shock, the fixture must be earthed!  
The product is equipped with auto-switching power supply that automatically adjusts to any 50-60Hz AC power source from 100-240 Volts. This fixture is also equipped with a DC Input rated 48V.

**ATTENTION!** Do not connect 100-240 Vac and 48 Vdc at same time!

## CONNECT AND DISCONNECT POWER FROM THE PRODUCT

To apply and disconnect power to the product:

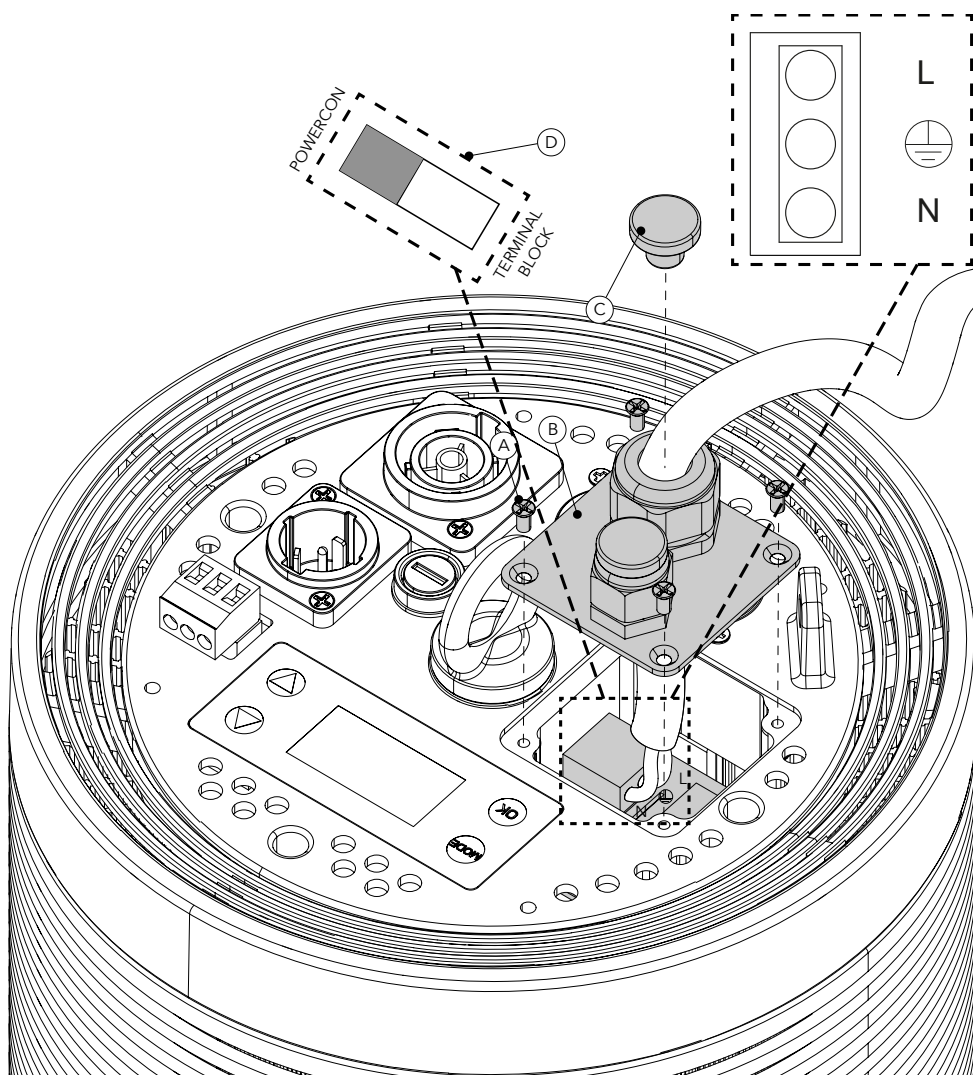
- Check that the product is installed and secured as indicated in the Safety Informations, and that personal safety will not be put at risk when the fixture lights up.
- Connect the power using one of the method described below (Power Cable, Mains Terminal Block or VDC Terminal Block) - Do not connect multiple sources at same time.
- The product is then ready for its operations and can be controlled through the available input signals on board. Check paragraph for DMX or DALI connection. Do not connect DMX and DALI at same time.
- To disconnect power from the product, disconnect the Mains from the socket.

## CONNECTION TO MAINS POWER CABLE

If you need to install a power plug on the power cable to allow connection to power outlets, install a grounding-type (earthed) plug, following the plug manufacturer's instructions. If you have any doubts about proper installation, consult a qualified electrician.

The max power consumption is 112W.

| Core (EU)    | Core (US) | Connection | Plug terminal marking                                                               |
|--------------|-----------|------------|-------------------------------------------------------------------------------------|
| Brown        | Black     | Live       | L                                                                                   |
| Blue         | White     | Neutral    | N                                                                                   |
| Yellow+green | Green     | Earth      |  |



Loosen the four screws (A) and remove the plate with the cable glands (B). Loosen and remove the cap (C). Then insert the cable.

**NOTE:** to change the power supply from powercon to screw terminal blocks use the appropriate switch (D).

Fig. 04

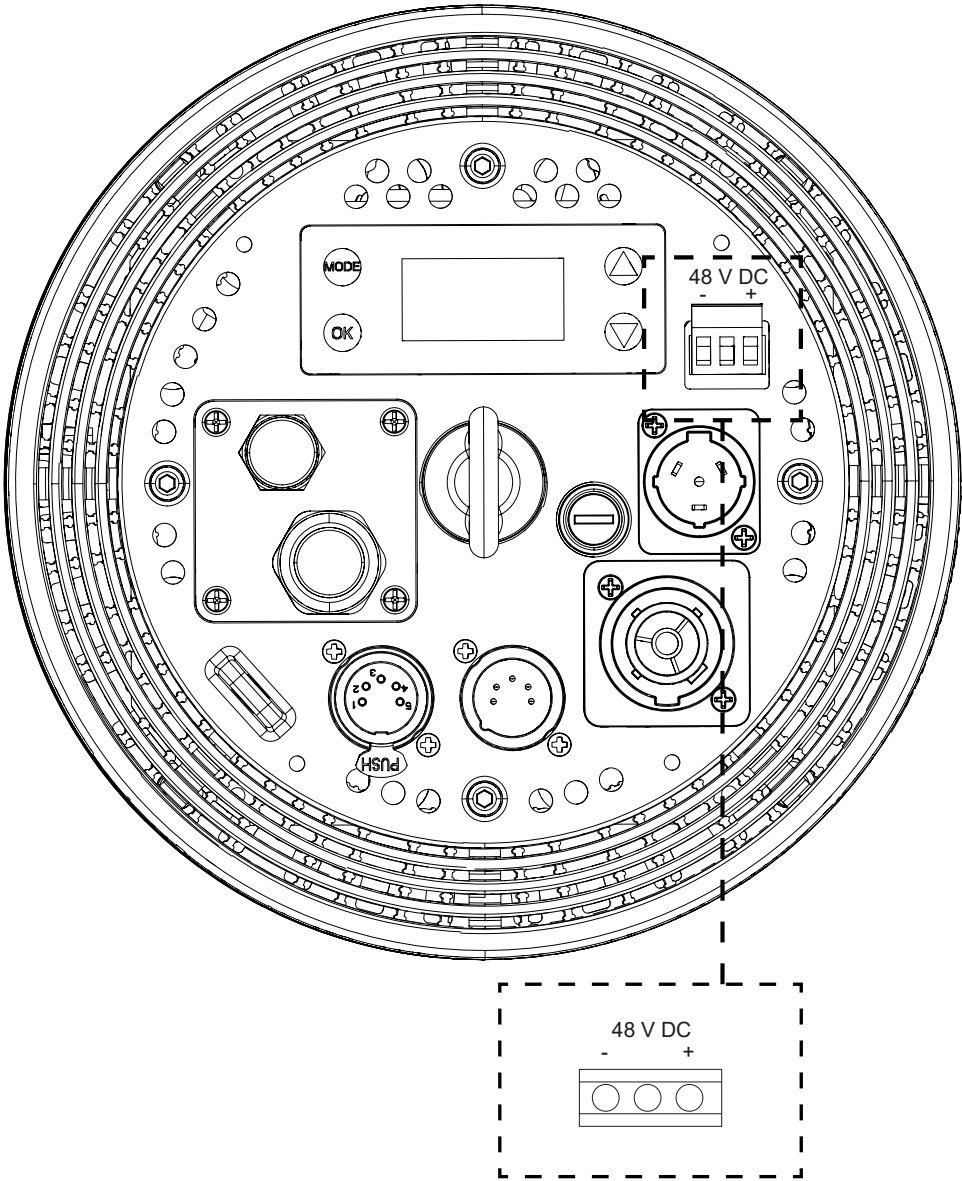


Fig. 05

# 6 - CONTROL LINE CONNECTION

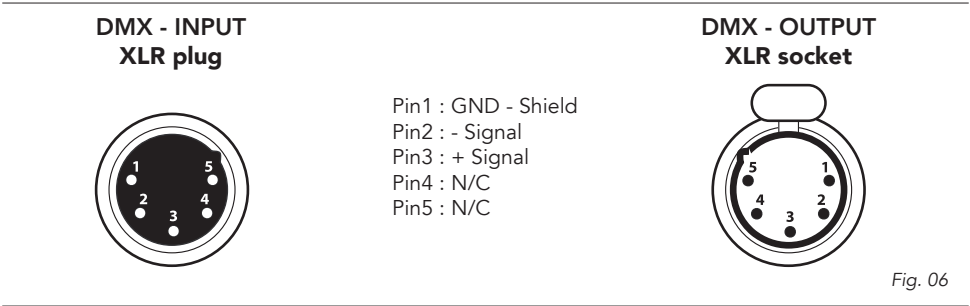
## PROTOCOL SUPPORTED

This fixture supports protocols as indicated in the following table.

| DMX     | RDM           | WDMX | CRMX         | DALI           |
|---------|---------------|------|--------------|----------------|
| DMX 512 | RDM over DMX  | G4S  | CRMX Classic | DT-8 (Tc mode) |
|         | RDM over CRMX | G3   |              |                |
|         | RDM over WDMX |      |              |                |

## CONNECTION OF THE CONTROL SIGNAL: DMX LINE

The product has XLR sockets for DMX input and output.  
The default pin-out on both socket is as the following diagram:



## INSTRUCTIONS FOR A RELIABLE DMX CONNECTION

Use shielded twisted-pair cable designed for RS-485 devices: standard microphone cable cannot transmit control data reliably over long runs. 24 AWG cable is suitable for runs up to 300 meters (1000 ft). Heavier gauge cable and/or an amplifier is recommended for longer runs.  
To split the data link into branches, use splitter-amplifiers in the connection line.  
Do not overload the link. Up to 32 devices may be connected on a serial link.

## CONNECTION DAISY CHAIN

Connect the DMX data output from the DMX source to the product DMX input (male connector XLR) socket.  
Run the data link from the product XLR output (female connector XLR) socket to the DMX input of the next fixture.  
Terminate the data link by connecting a 120 Ohm signal termination. If a splitter is used, terminate each branch of the link.  
Install a DMX termination plug on the last fixture on the link.

## CONNECTION OF THE DMX LINE

DMX connection employs standard XLR connectors. Use shielded pair-twisted cables with 120Ω impedance and low capacity.  
The following diagram shows the connection mode:

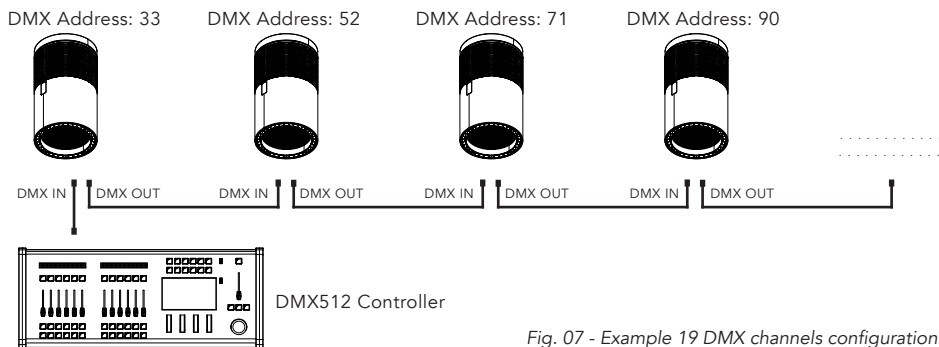
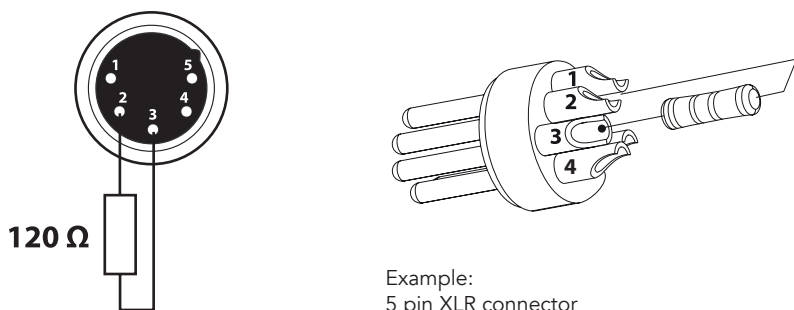


Fig. 07 - Example 19 DMX channels configuration

## CONSTRUCTION OF THE DMX TERMINATION

The termination is prepared by soldering a 120Ω 1/4 W resistor between pins 2 and 3 of the male XLR connector, as shown in figure.



Example:  
5 pin XLR connector

Fig. 08

## DMX ADDRESSING

In order to start controlling the product via DMX, the first step is to select a DMX address, also known as the start channel, this is the first channel used to receive instructions from a DMX controller. If you wish to control the product individually, it is necessary to assign a different starting address channel to each fixture.

The number of channels occupied from the product depends on the DMX mode selected, so always verify the DMX Mode in the MENU before start addressing.

If you assign two fixtures the same address, they will be executing the same behaviour. Selecting the same address to multiple fixtures can be useful for diagnostic purposes and symmetrical control.

DMX addressing is limited to make it impossible to set the DMX address so high that you are left without enough control channels for the product.

To set the fixture's DMX address:

1. Press ENTER to open the main menu.
2. Reach the addressing menu, then select the DMX ADDRESS settings.
3. Select the address from 1 to 512 using the navigation arrows/buttons and confirm by pressing ENTER.
4. Press Menu to exit and return to the Home screen.

## OPERATION AS A WIRELESS TRANSMITTER

ECLPENDANTJRVW can be used as wireless transmitter to transmit DMX signal to different wireless receivers. To use ECLPENDANTJRVW as wireless transmitter, please follow the procedure below:

1. Push ENTER button until you show CONNECT on display, then press ENTER button to confirm.

2. Use UP/DOWN buttons for select WIRELESS, then press ENTER to confirm.
3. Push ENTER button on WDMX ON/OFF function and enable it to ON.
4. Select WDMX mode and set it on Transmitter (please note that WDMX mode will be available only if WDMX ON/OFF is set to ON).
5. Ensure that the receiver units are not connected to any other transmitter. Please refer to "Reset the receiver" paragraph.
6. Enable TX LINK to ON to link transmitter to receivers (please note that TX LINK will be available only if WDMX mode is set to Transmitter).
  - The transmitter scans for all unlinked receivers for a period of about 5 seconds.
  - If the connection fails, check the position of the receiver.
  - The wireless icon on the receiver display indicates the received signal strength.

### **Unlinking the transmitter**

Follow the procedure below to unlink the transmitter from all receivers connected with the unit.

1. Push ENTER button until you show CONNECT on display, then press ENTER button to confirm.
2. Use UP/DOWN buttons for select Wireless, then press ENTER to confirm.
3. Enable TX UNLINK to ON 8 (please note that TX UNLINK will be available only if WDMX mode is set to Transmitter).
  - All connected receivers will be unlinked.

### **IN TO WDMX**

This function enable or disable the transmission through wireless of the DMX signal from the transmitter side to the receiver.

### **OPERATION AS A WIRELESS RECEIVER**

ECLPENDANTJRWW can be used as wireless receiver connected to a wireless transmitter.

To use ECLPENDANTJRWW as wireless receiver, please follow the procedure below:

1. Push ENTER button until you show CONNECT on display, then press ENTER button to confirm.
2. Use UP/DOWN buttons for select Wireless, then press ENTER to confirm.
3. Push ENTER button on WDMX ON/OFF function and enable it to ON.
4. Select WDMX mode and set it on Receiver (please note that WDMX mode will be available only if WDMX ON/OFF is set to ON).
5. Enable RX RESET to ON to reset the receiver (please note that RX RESET will be available only if WDMX mode is set to Receiver).
6. On the transmitter, enable TX LINK to ON to link transmitter to the receivers.
7. If the connection is successful and DMX input is available the display on the receiver unit will show the DMX address. If DMX signal is not available, the display will show "No signal" but keeps the transmitter linked.
8. If the connection fails, check the position of the receiver.
9. The wireless icon on the receiver display indicates the received signal strength.

### **Reset the receiver**

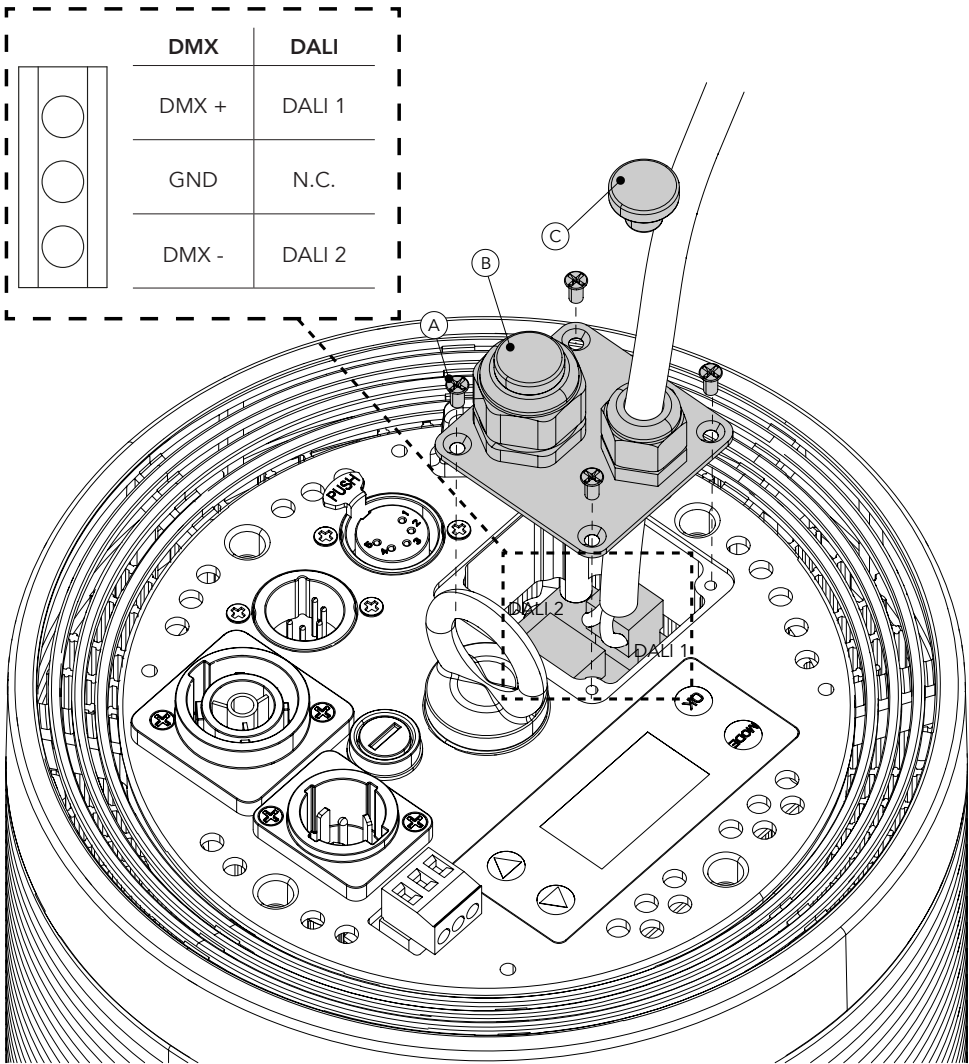
Follow the procedure below to reset the receiver.

1. Push MENU button until you show CONNECT on display, then press ENTER button to confirm.
2. Use UP/DOWN buttons for select Wireless, then press ENTER to confirm.
3. Enable RX RESET to ON.
  - The wireless icon on the receiver display indicates the received signal strength.

### **WDMX TO DMX (RX)**

This function enable or disable the retransmission of the wireless DMX signal received through the DMX port on the receiver side.

CONNECTION TO DALI/DMX LINE TERMINATION



Loosen the four screws (A) and remove the plate with the cable glands (B). Loosen and remove the cap (C). Then insert the cable.

Fig. 09

# 7 - CONTROL PANEL

The product has a display and buttons for access to the control panel functions.

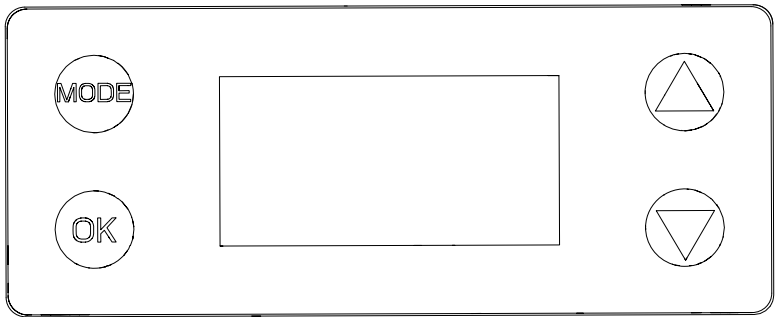


Fig. 10

## DISPLAY AND BUTTONS LAYOUT

The product has a display and buttons for access to the control panel functions:

|                                                                                     |                                                                                                 |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
|    | Used to access the menu tree or to return a previous menu window.                               |
|   | Browse upwards through the menu list and increases the numeric value displayed.                 |
|  | Browse downwards through the menu list and decreases the numeric value displayed.               |
|  | Used to confirm the current menu or confirm the current function value or option within a menu. |

# 8 - MENU STRUCTURE

The following chart describes the MENU tree of the product, the terms shown in **BOLD** indicates the default settings.

| N° | MENU    | LEVEL 1     | LEVEL 2         | LEVEL 3           | LEVEL 4      | DESCRIPTION                     |
|----|---------|-------------|-----------------|-------------------|--------------|---------------------------------|
| 1  | CONNECT | DMX ADDRESS | 1-512           |                   |              | Set address used for Fixture.   |
|    |         | DMX MODE    | UNO             | COLOR TEMPERATURE | 2700K        | Set DMX chart for Main Fixture. |
|    |         |             |                 |                   | 2800K        |                                 |
|    |         |             |                 |                   | 3200K        |                                 |
|    |         |             |                 |                   | 3500K        |                                 |
|    |         |             |                 |                   | 4000K        |                                 |
|    |         |             |                 |                   | 4500K        |                                 |
|    |         |             |                 |                   | 5000K        |                                 |
|    |         |             |                 |                   | 5600K        |                                 |
|    |         |             |                 |                   | 6000K        |                                 |
|    |         |             |                 |                   | 6500K        |                                 |
|    |         |             |                 | MANUAL COLOR      | VW <000-255> |                                 |
|    |         |             |                 |                   | CW <000-255> |                                 |
|    |         |             | DUO             | COLOR TEMPERATURE | 2700K        |                                 |
|    |         |             |                 |                   | 2800K        |                                 |
|    |         |             |                 |                   | 3200K        |                                 |
|    |         |             |                 |                   | 3500K        |                                 |
|    |         |             |                 |                   | 4000K        |                                 |
|    |         |             |                 |                   | 4500K        |                                 |
|    |         |             |                 |                   | 5000K        |                                 |
|    |         |             |                 |                   | 5600K        |                                 |
|    |         |             |                 |                   | 6000K        |                                 |
|    |         |             |                 |                   | 6500K        |                                 |
|    |         |             |                 | MANUAL COLOR      | VW <000-255> |                                 |
|    |         |             |                 |                   | CW <000-255> |                                 |
|    |         |             | BASIC           |                   |              |                                 |
|    |         |             | <b>STANDARD</b> |                   |              |                                 |
|    |         |             | EXTENDED        |                   |              |                                 |
|    |         |             | ADVANCED        |                   |              |                                 |

| Nº | MENU  | LEVEL 1  | LEVEL 2                | LEVEL 3             | LEVEL 4 | DESCRIPTION                                                                                                                                                                |                                                      |                                                                                                                                                                       |
|----|-------|----------|------------------------|---------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |       | WIRELESS | WDMX ON/OFF            | ON                  |         | Enable/Disable the wireless card.                                                                                                                                          |                                                      |                                                                                                                                                                       |
|    |       |          |                        | OFF                 |         |                                                                                                                                                                            |                                                      |                                                                                                                                                                       |
|    |       |          | WDMX MODE              | TRANSMITTER         |         | Allows to choose whether to set the wireless on the Transmitter or Receiver.<br>WDMX mode is unlocked only if WDMX ON / OFF is ON.                                         |                                                      |                                                                                                                                                                       |
|    |       |          |                        | RECEIVER            |         |                                                                                                                                                                            |                                                      |                                                                                                                                                                       |
|    |       |          | TX LINK                |                     |         |                                                                                                                                                                            | TX link unlock when the unit is set as a transmitter |                                                                                                                                                                       |
|    |       |          | TX UNLINK              | ON                  |         | Disconnect the transmitter from all receivers.<br>TX unlink unlocks only if WDMX mode is on transmitter                                                                    |                                                      |                                                                                                                                                                       |
|    |       |          |                        | OFF                 |         |                                                                                                                                                                            |                                                      |                                                                                                                                                                       |
|    |       |          | RX RESET               | ON                  |         | Total reset of the receiver.<br>RX reset unlocks only if WDMX mode is receiver.                                                                                            |                                                      |                                                                                                                                                                       |
|    |       |          |                        | OFF                 |         |                                                                                                                                                                            |                                                      |                                                                                                                                                                       |
|    |       |          | IN TO WDMX (TX)        | ON                  |         | Enable/Disable the transmission of the dmx from the transmitter to the receiver via wdmx.                                                                                  |                                                      |                                                                                                                                                                       |
|    |       |          |                        | OFF                 |         |                                                                                                                                                                            |                                                      |                                                                                                                                                                       |
|    |       |          | WDMX TO DMX (RX)       | ON                  |         | Enable/Disable the retransmission of the DMX from the receiver to the other units connected by cable to the receiver itself.                                               |                                                      |                                                                                                                                                                       |
|    |       |          |                        | OFF                 |         |                                                                                                                                                                            |                                                      |                                                                                                                                                                       |
| 2  | SETUP | SCREEN   | BACKLIGHT              | ON                  |         | Allows you to select the timing after that display will switch automatically off when unactive.                                                                            |                                                      |                                                                                                                                                                       |
|    |       |          |                        | 10S                 |         |                                                                                                                                                                            |                                                      |                                                                                                                                                                       |
|    |       |          |                        | 20S                 |         |                                                                                                                                                                            |                                                      |                                                                                                                                                                       |
|    |       |          |                        | 30S                 |         |                                                                                                                                                                            |                                                      |                                                                                                                                                                       |
|    |       |          | FLIP DISPLAY           | ON                  |         | Allows you to rotate the display by 180°.                                                                                                                                  |                                                      |                                                                                                                                                                       |
|    |       |          |                        | OFF                 |         |                                                                                                                                                                            |                                                      |                                                                                                                                                                       |
|    |       |          | KEY LOCK               | ON                  |         | Allows you lock the buttons on the control panel by a password.<br>Press following combinations (password) in order to access to the user menu: UP, DOWN, UP, DOWN, ENTER. |                                                      |                                                                                                                                                                       |
|    |       |          |                        | OFF                 |         |                                                                                                                                                                            |                                                      |                                                                                                                                                                       |
|    |       |          | TEMPERATURE UNIT       | °C                  |         | Allows you to choose Temperature unit showed in home screen.                                                                                                               |                                                      |                                                                                                                                                                       |
|    |       |          |                        | °F                  |         |                                                                                                                                                                            |                                                      |                                                                                                                                                                       |
|    |       |          | TRANSFER CONFIGURATION | WITHOUT DMX ADDRESS |         |                                                                                                                                                                            |                                                      | To transfer the same menu settings of one fixtures to all the other in the daisy chain, including or not the dmx address. Transfer configuration also works via WDMX. |
|    |       |          |                        | WITH DMX ADDRESS    |         |                                                                                                                                                                            |                                                      |                                                                                                                                                                       |

| N° | MENU        | LEVEL 1           | LEVEL 2                                             | LEVEL 3      | LEVEL 4  | DESCRIPTION                                                 |
|----|-------------|-------------------|-----------------------------------------------------|--------------|----------|-------------------------------------------------------------|
| 3  | ADVANCED    | DIMMER CURVE      | LINEAR                                              |              |          | Select Dimmer curve.                                        |
|    |             |                   | S-CURVE                                             |              |          |                                                             |
|    |             |                   | <b>SQUARE LAW</b>                                   |              |          |                                                             |
|    |             |                   | INVERSE SQUARE LAW                                  |              |          |                                                             |
|    |             | DIMMER SPEED      | <b>AUTO</b>                                         |              |          | Select Dimmer speed.                                        |
|    |             |                   | FAST                                                |              |          |                                                             |
|    |             |                   | MEDIUM                                              |              |          |                                                             |
|    |             |                   | SLOW                                                |              |          |                                                             |
|    |             | LED FREQUENCY     | 600HZ                                               |              |          | Select LED PWM frequency.                                   |
|    |             |                   | <b>1200HZ</b>                                       |              |          |                                                             |
|    |             |                   | 2000HZ                                              |              |          |                                                             |
|    |             |                   | 4000HZ                                              |              |          |                                                             |
|    |             |                   | 6000HZ                                              |              |          |                                                             |
|    |             |                   | 25KHZ                                               |              |          |                                                             |
|    |             |                   | 36KHZ                                               |              |          |                                                             |
|    |             |                   | 40KHZ                                               |              |          |                                                             |
|    |             | DMX FAULT         | HOLD                                                |              |          | Define the behaviour of fixture in case of DMX signal lost. |
|    |             |                   | BLACKOUT                                            |              |          |                                                             |
|    |             |                   | <b>STAND ALONE</b>                                  |              |          |                                                             |
|    |             |                   | EMERGENCY                                           |              |          |                                                             |
|    |             | OUTPUT CONTROL    | CONSTANT                                            |              |          | See table at the end of the Menu for Power behaviour.       |
|    |             |                   | <b>DYNAMIC</b>                                      |              |          |                                                             |
|    |             | FACTORY RELOAD    | ON                                                  |              |          | Reload fixture with Standard settings.                      |
|    |             |                   | <b>OFF</b>                                          |              |          |                                                             |
| 4  | INFORMATION | DEVICE TIME       | FIXTURE HOURS                                       | <99999H>     |          | To check the total working hours of the unit.               |
|    |             |                   | CURRENT HOURS                                       | <99999H>     |          | To check the current working hours of the unit.             |
|    |             |                   | SOURCE HOURS                                        | <99999H>     |          | To see the total operating hours of the LED source.         |
|    |             |                   | AC POWER ON CYCLE                                   | <300>        |          | To see the power cycles of the machine.                     |
|    |             |                   | MAINTENANCE TIME                                    | ELAPSED TIME |          | To choose and reset unit maintenance warning hours.         |
|    |             |                   |                                                     | ALERT PERIOD | 10 - 300 |                                                             |
|    |             | POWER CONSUMPTION |                                                     |              |          | Show actual power consumption.                              |
|    |             | TEMPERATURE       | NEAR SOURCE TEMP, DRIVER PCB TEMP, LED PCB TEMP,... |              |          | To see the unit temperature.                                |
|    |             | WIRELESS QUALITY  |                                                     |              |          | To check the wireless quality.                              |

| N°           | MENU        | LEVEL 1          | LEVEL 2                                                                                                                                                         | LEVEL 3 | LEVEL 4             | DESCRIPTION                                                                                                                                                                                           |
|--------------|-------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              |             | CHANNEL VALUE    |                                                                                                                                                                 |         |                     | To see the dmx value of those channels.                                                                                                                                                               |
|              |             | ERROR MESSAGE    |                                                                                                                                                                 |         |                     | To see any error messages.                                                                                                                                                                            |
|              |             | FIXTURE MODEL    |                                                                                                                                                                 |         |                     | View informations about fixture model.                                                                                                                                                                |
|              |             | DEVICE LABEL     |                                                                                                                                                                 |         |                     | Show RDM Device label.                                                                                                                                                                                |
|              |             | SOFTWARE VERSION | <V1.0>                                                                                                                                                          |         |                     | View informations about software version.                                                                                                                                                             |
|              |             | RDM UID          | 15D00228****                                                                                                                                                    |         |                     | View ID for the RDM control.                                                                                                                                                                          |
| 5            | STAND ALONE | MASTER / SLAVE   | MASTER DMX                                                                                                                                                      |         |                     | Allow you to link and operating in synk multiple units without a DMX console. Choose a unit to perform as the Master. This unit must be the first unit in line; Set the successive units to be slave. |
|              |             |                  | MASTER NO DMX                                                                                                                                                   |         |                     |                                                                                                                                                                                                       |
|              |             |                  | SLAVE                                                                                                                                                           |         |                     |                                                                                                                                                                                                       |
|              |             | EFFECTS          | EFFECT 1                                                                                                                                                        | <1-100> |                     | Effects modes allows creation and editing of 5 effects maximum.<br>Each effect contains up to 20 colors, a Main Dimmer and a Main Strobe.                                                             |
|              |             |                  | ...                                                                                                                                                             | <1-100> |                     |                                                                                                                                                                                                       |
|              |             |                  | EFFECT 5                                                                                                                                                        | <1-100> |                     |                                                                                                                                                                                                       |
|              |             | STATIC           | WHITE PRESETS                                                                                                                                                   | 2700K   | DIMMER<br><000-255> | Select of the following predefined color combination and its Dimmer value. After enabled this mode, the unit will be automatically assigned as Master.                                                |
|              |             |                  |                                                                                                                                                                 | 2800K   |                     |                                                                                                                                                                                                       |
|              |             |                  |                                                                                                                                                                 | 3200K   |                     |                                                                                                                                                                                                       |
|              |             |                  |                                                                                                                                                                 | 3500K   |                     |                                                                                                                                                                                                       |
|              |             |                  |                                                                                                                                                                 | 4000K   |                     |                                                                                                                                                                                                       |
|              |             |                  |                                                                                                                                                                 | 4500K   |                     |                                                                                                                                                                                                       |
|              |             |                  |                                                                                                                                                                 | 5000K   |                     |                                                                                                                                                                                                       |
| 5600K        |             |                  |                                                                                                                                                                 |         |                     |                                                                                                                                                                                                       |
| 6000K        |             |                  |                                                                                                                                                                 |         |                     |                                                                                                                                                                                                       |
| 6500K        |             |                  |                                                                                                                                                                 |         |                     |                                                                                                                                                                                                       |
| MANUAL COLOR | WARM WHITE  | <000-255>        | User generated color preset by assigning values to each primary color attribute.<br>After enabled this mode, the unit will be automatically assigned as Master. |         |                     |                                                                                                                                                                                                       |
|              | COLD WHITE  | <000-255>        |                                                                                                                                                                 |         |                     |                                                                                                                                                                                                       |

## 9 - SHORTCUT

| SHORTCUTS                  |              |                                                 |
|----------------------------|--------------|-------------------------------------------------|
| Keys                       | Mode         | Description                                     |
| MENU + ENTER then power on | Clear All    | Clear all value of functions + factory default  |
| UP + DOWN after power on   | Flip Display | Directly flip display without enter inside menu |

# 10 - RDM FUNCTIONS

The product can communicate using RDM (Remote Device Management) protocol over a DMX512 Networks.

RDM is a bi-directional communications protocol for use in DMX512 control systems, it is the open standard for DMX512 device configuration and status monitoring.

The RDM protocol allows data packets to be inserted into a DMX512 data stream without affecting existing non-RDM equipment. It allows a console or dedicated RDM controller to send commands to and receive messages from specific fixtures.

The PIDs in the following tables are supported in the product.

RDM is also available on Wireless and Tiny's Downstead must be enabled in its custom PIDs to work.

| Category                   | Parameter                        | Value  | GET | SET |
|----------------------------|----------------------------------|--------|-----|-----|
| <i>Product Information</i> | SUPPORTED_PARAMETERS             | 0x0050 | x   |     |
|                            | PARAMETER_DESCRIPTION            | 0x0051 | x   |     |
|                            | PRODUCT_DETAIL_ID_LIST           | 0x0070 | x   |     |
|                            | DEVICE_MODEL_DESCRIPTION         | 0x0080 | x   |     |
|                            | MANUFACTURER_LABEL               | 0x0081 | x   |     |
|                            | DEVICE_LABEL                     | 0x0082 | x   | x   |
|                            | FACTORY_DEFAULTS                 | 0x0090 | x   | x   |
| <i>DMX512 Setup</i>        | DMX_PERSONALITY                  | 0x00E0 | x   | x   |
|                            | DMX_PERSONALITY_DESCRIPTION      | 0x00E1 | x   |     |
|                            | DMX_START_ADDRESS                | 0x00F0 | x   | x   |
|                            | SLOT_INFO                        | 0x0120 | x   |     |
|                            | SLOT_DESCRIPTION                 | 0x0121 | x   |     |
|                            | DEFAULT_SLOT_VALUE               | 0x0122 | x   |     |
| <i>Sensors</i>             | SENSOR_DEFINITION                | 0x0200 | x   |     |
|                            | SENSOR_VALUE                     | 0x0201 | x   | x   |
| <i>Dimmer Settings</i>     | DIMMER_INFO                      | 0x0340 | x   |     |
|                            | CURVE                            | 0x0343 | x   | x   |
|                            | CURVE_DESCRIPTION                | 0x0344 | x   | x   |
|                            | OUTPUT_RESPONSE_TIME             | 0x0345 | x   | x   |
|                            | OUTPUT_RESPONSE_TIME_DESCRIPTION | 0x0346 | x   |     |
|                            | MODULATION_FREQUENCY             | 0x0347 | x   | x   |
|                            | MODULATION_FREQUENCY_DESCRIPTION | 0x0348 | x   |     |
| <i>Power/Lamp Settings</i> | DEVICE_HOURS                     | 0x0400 | x   | x   |
|                            | LAMP_HOURS                       | 0x0401 | x   | x   |
|                            | DEVICE_POWER_CYCLES              | 0x0405 | x   | x   |
| <i>Display Settings</i>    | DISPLAY_INVERT                   | 0x0500 | x   | x   |
| <i>Control</i>             | IDENTIFY_MODE                    | 0x1040 | x   | x   |

### Manufacturer Specific PIDs

| Parameter                     | PID    | GET | SET | Value  | Description                                                                                                                 |
|-------------------------------|--------|-----|-----|--------|-----------------------------------------------------------------------------------------------------------------------------|
| DMX FAULT                     | 0x82DD | x   | x   | 0-3    | 0: Hold<br>1: Blackout<br><b>2: Stand Alone</b><br>3: Emergency                                                             |
| MASTER/SLAVE                  | 0x8211 | x   | x   | 0-2    | 0: Master DMX<br>1: Master NO DMX<br><b>2: Slave</b>                                                                        |
| STAND ALONE MODE              | 0x82EC | x   | x   | 0-2    | <b>0: Stand Alone EFFECTS</b><br>1: Stand Alone CCT PRESET<br>2: Stand Alone MANUAL WW/CW                                   |
| EFFECTS                       | 0x8209 | x   | x   | 0-5    | <b>DEFAULT: 5</b>                                                                                                           |
| EFFECTS SPEED                 | 0x8210 | x   | x   | 0-100  | <b>DEFAULT: 100</b>                                                                                                         |
| WHITE PRESETS                 | 0x82BF | x   | x   | 0-9    | 0: 2700K<br>1: 2800K<br><b>2: 3200K</b><br>3: 3500K<br>4: 4000K<br>5: 4500K<br>6: 5000K<br>7: 5600K<br>8: 6000K<br>9: 6500K |
| MANUAL WW                     | 0x82C0 | x   | x   | 0-255  | <b>DEFAULT: 255</b>                                                                                                         |
| MANUAL CW                     | 0x82C1 | x   | x   | 0-255  | <b>DEFAULT: 255</b>                                                                                                         |
| OUTPUT CONTROL                | 0x830C | x   | x   | 0-1    | 0: Constant Output<br><b>1: Dynamic Output</b>                                                                              |
| CURRENT HOURS                 | 0x82C5 | x   |     | 0-1    |                                                                                                                             |
| POWER CONSUMPTION(AC 220V)    | 0x82DE | x   |     | 0-1    |                                                                                                                             |
| MAINTENANCE TIME:ALERT PERIOD | 0x82DF | x   | x   | 10-300 | <b>DEFAULT: 300</b>                                                                                                         |
| MAINTENANCE TIME:ELAPSED TIME | 0x82E0 | x   | x   | 0-1    | <b>DEFAULT: 0</b>                                                                                                           |
| ERROR MESSAGES                | 0x82EA | x   |     | 0-2    | 0: No Error<br>1: Temperature Too High<br>2: LED sensor damaged (open or in short circuit)                                  |
| CLEAN ALL DATA                | 0x82C8 | x   | x   | 0-1    | <b>0: No</b><br>1: Yes                                                                                                      |

# 11 - DMX CHARTS

RDM Model ID: 0xD121

RDM Personality ID List

| ID | DMX Mode | Footprint |
|----|----------|-----------|
| 1  | UNO      | 1CH       |
| 2  | DUO      | 2CH       |
| 3  | BASIC    | 2CH       |
| 4  | STANDARD | 5CH       |
| 5  | EXTENDED | 9CH       |
| 6  | ADVANCED | 13CH      |

|                 | MODE |     |       |          |          |          |
|-----------------|------|-----|-------|----------|----------|----------|
| PARAMETER       | UNO  | DUO | BASIC | STANDARD | EXTENDED | ADVANCED |
| DIMMER          | 1    | 1   | 1     | 1        | 1        | 1        |
| DIMMER FINE     |      | 2   |       | 2        | 2        | 2        |
| CCT             |      |     | 2     | 3        | 3        | 3        |
| CCT FINE        |      |     |       |          | 4        | 4        |
| CROSSFADE       |      |     |       |          | 5        | 5        |
| WARM WHITE      |      |     |       |          | 6        | 6        |
| WARM WHITE FINE |      |     |       |          |          | 7        |
| COLD WHITE      |      |     |       |          | 7        | 8        |
| COLD WHITE FINE |      |     |       |          |          | 9        |
| EFFECT          |      |     |       |          |          | 10       |
| EFFECT SPEED    |      |     |       |          |          | 11       |
| STROBE          |      |     |       | 4        | 8        | 12       |
| CONTROL         |      |     |       | 5        | 9        | 13       |

| Dimmer   |             |     |              |       |             |
|----------|-------------|-----|--------------|-------|-------------|
| Function | 8 bit value |     | 16 bit value |       | Note        |
|          | From        | To  | From         | To    |             |
| Dimmer   | 0           | 255 | 0            | 65535 | Default @ 0 |

| Strobe                      |             |     |              |    |               |
|-----------------------------|-------------|-----|--------------|----|---------------|
| Function                    | 8 bit value |     | 16 bit value |    | Note          |
|                             | From        | To  | From         | To |               |
| Open                        | 0           | 1   | -            | -  | Default @ 255 |
| Strobe from Slow to Fast    | 2           | 62  | -            | -  |               |
| Open                        | 63          | 64  | -            | -  |               |
| Pulse In from slow to fast  | 65          | 125 | -            | -  |               |
| Open                        | 126         | 127 | -            | -  |               |
| Pulse Out from slow to fast | 128         | 188 | -            | -  |               |
| Open                        | 189         | 190 | -            | -  |               |
| Random from slow to fast    | 191         | 251 | -            | -  |               |
| Open                        | 252         | 255 | -            | -  |               |

| CCT      |        |             |     |              |       |             |
|----------|--------|-------------|-----|--------------|-------|-------------|
| Function |        | 8 bit value |     | 16 bit value |       | Note        |
| CCT From | CCT To | From        | To  | From         | To    |             |
| 2700     | 2800   | 0           | 7   | 0            | 1725  | Default @ 0 |
| 2800     | 2900   | 7           | 13  | 1725         | 3449  |             |
| 2900     | 3000   | 13          | 20  | 3449         | 5174  |             |
| 3000     | 3100   | 20          | 27  | 5174         | 6898  |             |
| 3100     | 3200   | 27          | 34  | 6898         | 8623  |             |
| 3200     | 3300   | 34          | 40  | 8623         | 10348 |             |
| 3300     | 3400   | 40          | 47  | 10348        | 12072 |             |
| 3400     | 3500   | 47          | 54  | 12072        | 13797 |             |
| 3500     | 3600   | 54          | 60  | 13797        | 15521 |             |
| 3600     | 3700   | 60          | 67  | 15521        | 17246 |             |
| 3700     | 3800   | 67          | 74  | 17246        | 18971 |             |
| 3800     | 3900   | 74          | 81  | 18971        | 20695 |             |
| 3900     | 4000   | 81          | 87  | 20695        | 22420 |             |
| 4000     | 4100   | 87          | 94  | 22420        | 24144 |             |
| 4100     | 4200   | 94          | 101 | 24144        | 25869 |             |
| 4200     | 4300   | 101         | 107 | 25869        | 27594 |             |
| 4300     | 4400   | 107         | 114 | 27594        | 29318 |             |
| 4400     | 4500   | 114         | 121 | 29318        | 31043 |             |
| 4500     | 4600   | 121         | 128 | 31043        | 32768 |             |
| 4600     | 4700   | 128         | 134 | 32768        | 34492 |             |
| 4700     | 4800   | 134         | 141 | 34492        | 36217 |             |
| 4800     | 4900   | 141         | 148 | 36217        | 37941 |             |
| 4900     | 5000   | 148         | 154 | 37941        | 39666 |             |
| 5000     | 5100   | 154         | 161 | 39666        | 41391 |             |
| 5100     | 5200   | 161         | 168 | 41391        | 43115 |             |
| 5200     | 5300   | 168         | 174 | 43115        | 44840 |             |
| 5300     | 5400   | 174         | 181 | 44840        | 46564 |             |
| 5400     | 5500   | 181         | 188 | 46564        | 48289 |             |
| 5500     | 5600   | 188         | 195 | 48289        | 50014 |             |
| 5600     | 5700   | 195         | 201 | 50014        | 51738 |             |

| CCT      |        |             |     |              |       |      |
|----------|--------|-------------|-----|--------------|-------|------|
| Function |        | 8 bit value |     | 16 bit value |       | Note |
| CCT From | CCT To | From        | To  | From         | To    |      |
| 5700     | 5800   | 201         | 208 | 51738        | 53463 |      |
| 5800     | 5900   | 208         | 215 | 53463        | 55187 |      |
| 5900     | 6000   | 215         | 221 | 55187        | 56912 |      |
| 6000     | 6100   | 221         | 228 | 56912        | 58637 |      |
| 6100     | 6200   | 228         | 235 | 58637        | 60361 |      |
| 6200     | 6300   | 235         | 242 | 60361        | 62086 |      |
| 6300     | 6400   | 242         | 248 | 62086        | 63810 |      |
| 6400     | 6500   | 248         | 255 | 63810        | 65535 |      |

| Crossfade from CCT to WW/CW |             |     |              |    |               |
|-----------------------------|-------------|-----|--------------|----|---------------|
| Function                    | 8 bit value |     | 16 bit value |    | Note          |
|                             | From        | To  | From         | To |               |
| Linear Crossfade            | 0           | 255 | -            | -  | Default @ 255 |

| Warm White |             |     |              |       |                       |
|------------|-------------|-----|--------------|-------|-----------------------|
| Function   | 8 bit value |     | 16 bit value |       | Note                  |
|            | From        | To  | From         | To    |                       |
| 0 - 100%   | 0           | 255 | 0            | 65535 | Default @ 255 / 65535 |

| Cold White |             |     |              |       |                       |
|------------|-------------|-----|--------------|-------|-----------------------|
| Function   | 8 bit value |     | 16 bit value |       | Note                  |
|            | From        | To  | From         | To    |                       |
| 0 - 100%   | 0           | 255 | 0            | 65535 | Default @ 255 / 65535 |

| Effects        |             |     |              |    |             |
|----------------|-------------|-----|--------------|----|-------------|
| Function       | 8 bit value |     | 16 bit value |    | Note        |
|                | From        | To  | From         | To |             |
| No Function    | 0           | 10  | -            | -  | Default @ 0 |
| FX 1           | 11          | 60  | -            | -  |             |
| FX 2           | 61          | 110 | -            | -  |             |
| FX 3           | 111         | 160 | -            | -  |             |
| FX 4           | 161         | 210 | -            | -  |             |
| FX 5 (FX 1 -4) | 211         | 255 | -            | -  |             |

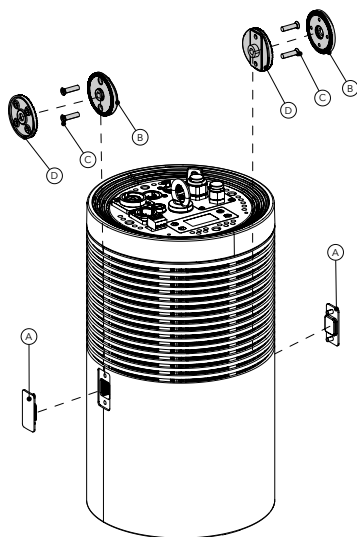
| Effect Speed      |             |     |              |    |               |
|-------------------|-------------|-----|--------------|----|---------------|
| Function          | 8 bit value |     | 16 bit value |    | Note          |
|                   | From        | To  | From         | To |               |
| From slow to fast | 0           | 255 | -            | -  | Default @ 128 |

| Control Channel                 |             |     |              |    |                                             |
|---------------------------------|-------------|-----|--------------|----|---------------------------------------------|
| Function                        | 8 bit value |     | 16 bit value |    | Note                                        |
|                                 | From        | To  | From         | To |                                             |
| No Functon                      | 0           | 1   | -            | -  | Default @ 0<br><br>Hold 3s to take function |
| DIMMER CURVE LINEAR             | 2           | 3   | -            | -  |                                             |
| DIMMER CURVE S-CURVE            | 4           | 5   | -            | -  |                                             |
| DIMMER CURVE SQUARE LAW         | 6           | 7   | -            | -  |                                             |
| DIMMER CURVE INVERSE SQUARE LAW | 8           | 9   | -            | -  |                                             |
| DIMMER SPEED AUTO               | 10          | 11  | -            | -  |                                             |
| DIMMER SPEED FAST               | 12          | 13  | -            | -  |                                             |
| DIMMER SPEED MEDIUM             | 14          | 15  | -            | -  |                                             |
| DIMMER SPEED SLOW               | 16          | 17  | -            | -  |                                             |
| LED FREQUENCY 600HZ             | 18          | 19  | -            | -  |                                             |
| LED FREQUENCY 1200HZ            | 20          | 21  | -            | -  |                                             |
| LED FREQUENCY 2000HZ            | 22          | 23  | -            | -  |                                             |
| LED FREQUENCY 4000HZ            | 24          | 25  | -            | -  |                                             |
| LED FREQUENCY 6000HZ            | 26          | 27  | -            | -  |                                             |
| LED FREQUENCY 25KHZ             | 28          | 29  | -            | -  |                                             |
| LED FREQUENCY 36KHZ             | 30          | 31  | -            | -  |                                             |
| LED FREQUENCY 40KHZ             | 32          | 33  | -            | -  |                                             |
| DMX FAULT HOLD                  | 34          | 35  | -            | -  |                                             |
| DMX FAULT BLACKOUT              | 36          | 37  | -            | -  |                                             |
| DMX FAULT STAND ALONE           | 38          | 39  | -            | -  |                                             |
| DMX FAULT EMERGENCY             | 40          | 41  | -            | -  |                                             |
| STAND ALONE MASTER DMX          | 42          | 43  | -            | -  |                                             |
| STAND ALONE MASTER NO DMX       | 44          | 45  | -            | -  |                                             |
| STAND ALONE SLAVE               | 46          | 47  | -            | -  |                                             |
| STAND ALONE EFFECTS             | 48          | 49  | -            | -  |                                             |
| STAND ALONE CCT PRESETS         | 50          | 51  | -            | -  |                                             |
| STAND ALONE MANUAL WW/CW        | 52          | 53  | -            | -  |                                             |
| OUTPUT CONTROL CONSTANT         | 54          | 55  | -            | -  |                                             |
| OUTPUT CONTROL DYNAMIC          | 56          | 57  | -            | -  |                                             |
| Reserved                        | 58          | 253 | -            | -  |                                             |
| Reset all channel controlled    | 254         | 255 | -            | -  |                                             |

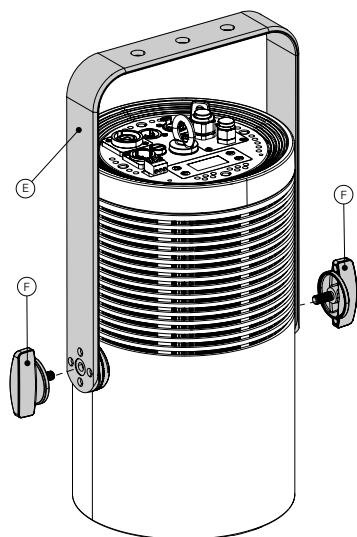
## 12 - ACCESSORIES INSTALLATION

### HANGING BRACKET (CODE ECLPENDJRHGBRKBK/WH - OPTIONAL)

1



2



Place fixture on a stable surface.

1. Remove rubber caps (A). Fix spacer disks (B) using the M5 screws (C), in the holes of the unit.
2. Align inner mounting disc (D) and hanging bracket (E) with the previously mounted spacer disks and then insert and rotate knobs (F) clockwise to secure hanging bracket in desired position.

Please turn!



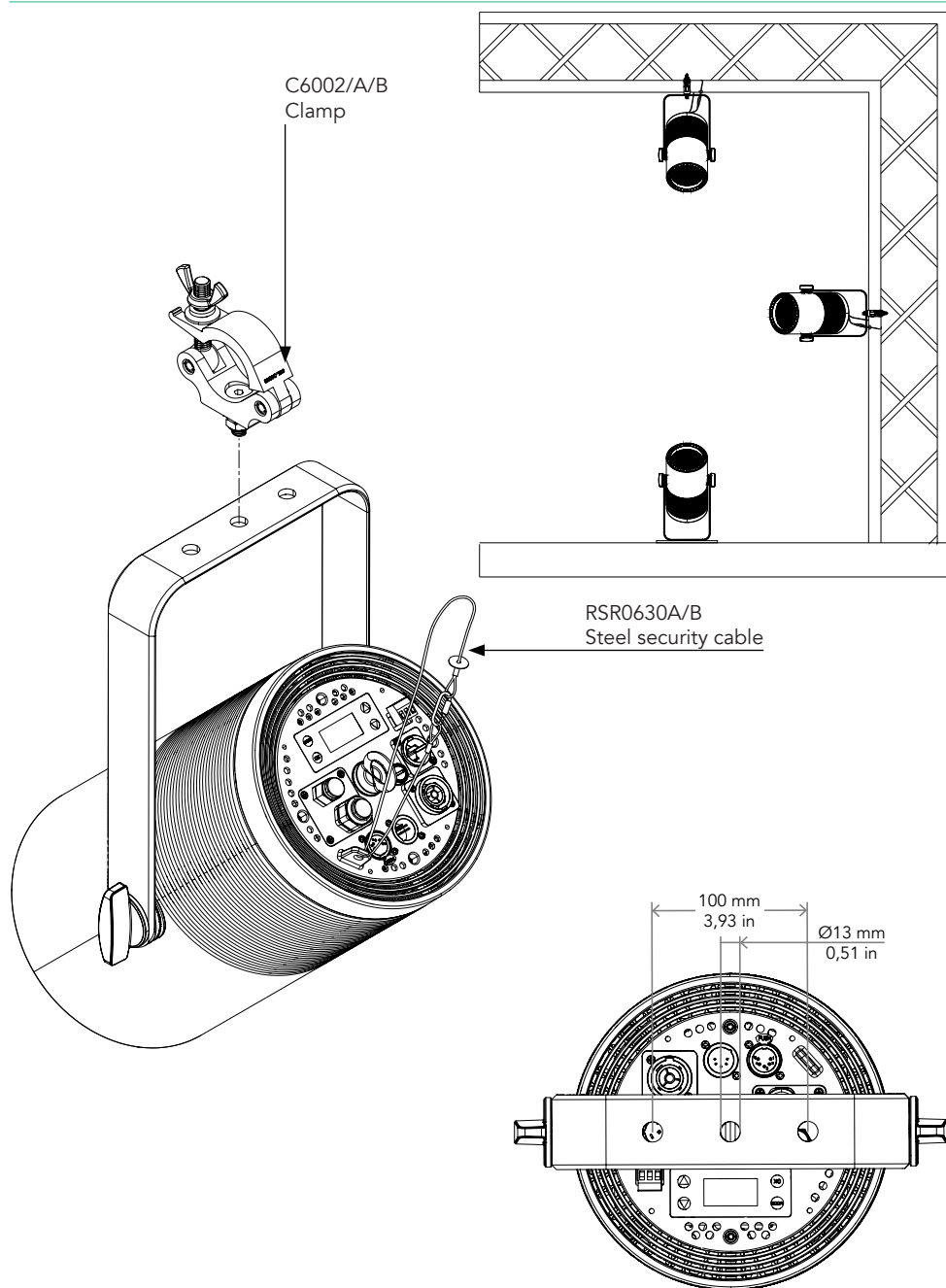
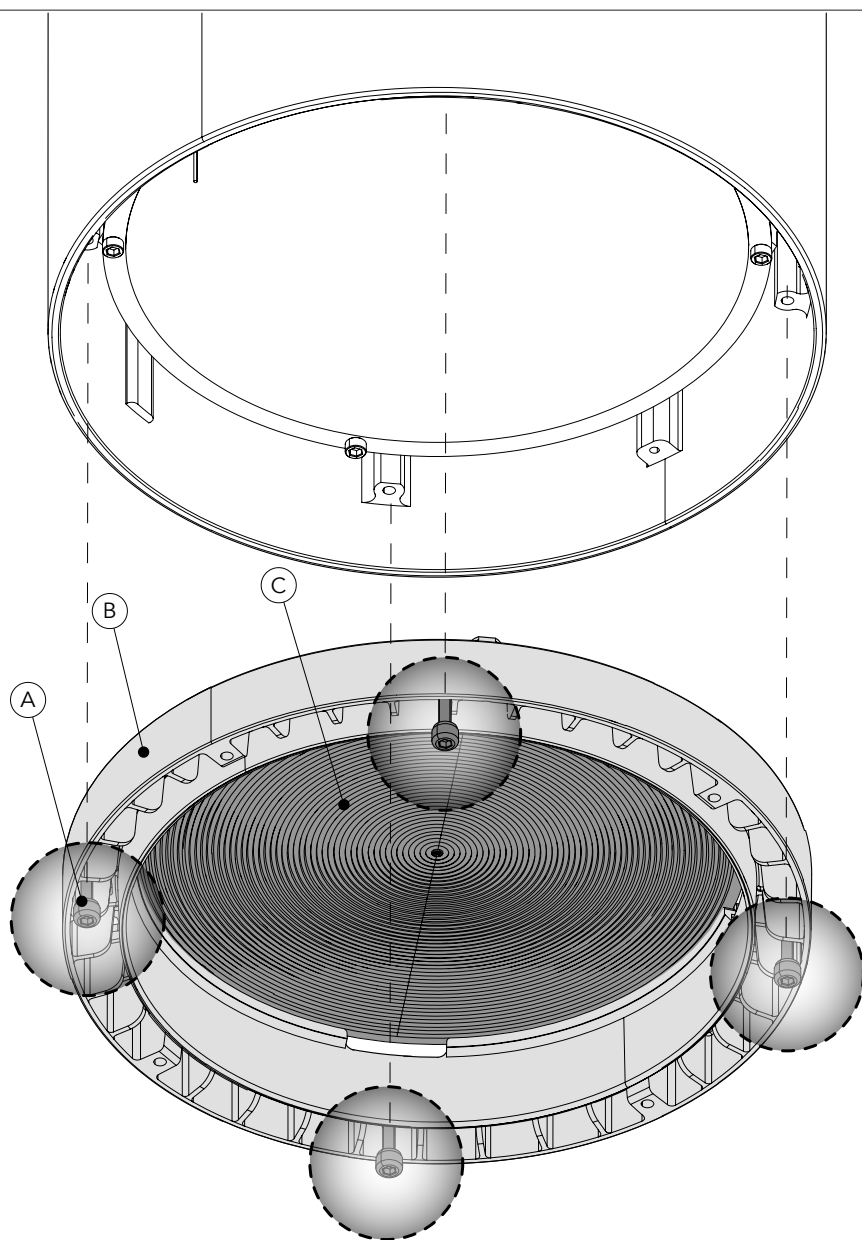


Fig. 11

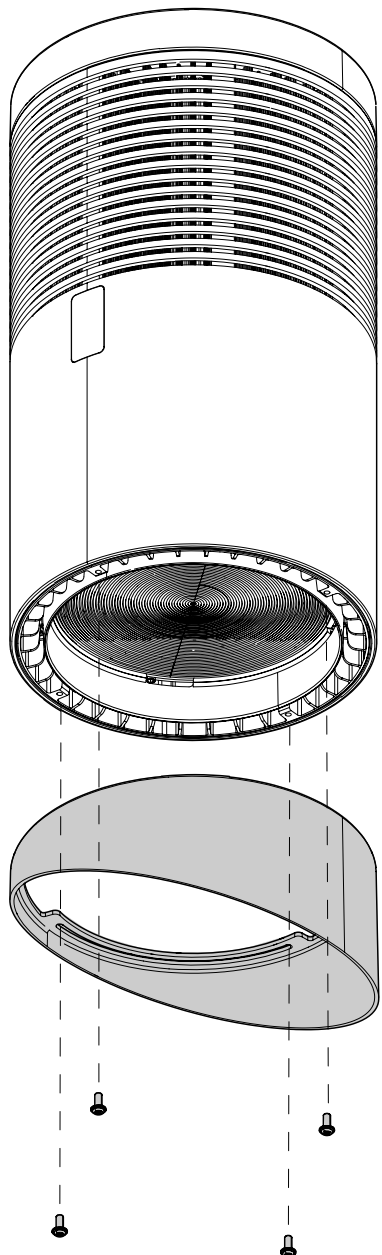


Place fixture on a stable surface.

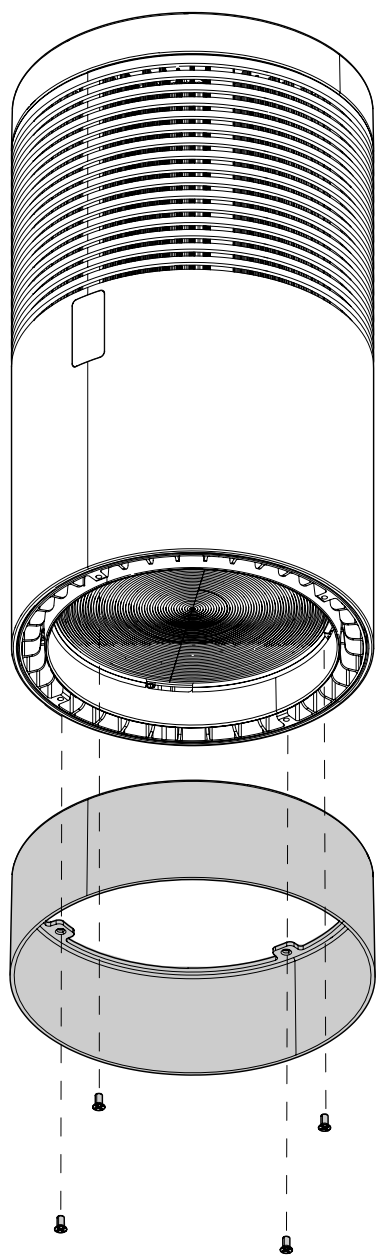
- Loosen the three M4 (A) screws and remove the lens holder frame (B).
- Remove the lens (C) and its reflect cup to insert the desired one.
- Check lens is positioned correctly and then secure lens holder frame.

Fig. 12

1 - HALF SNOOT



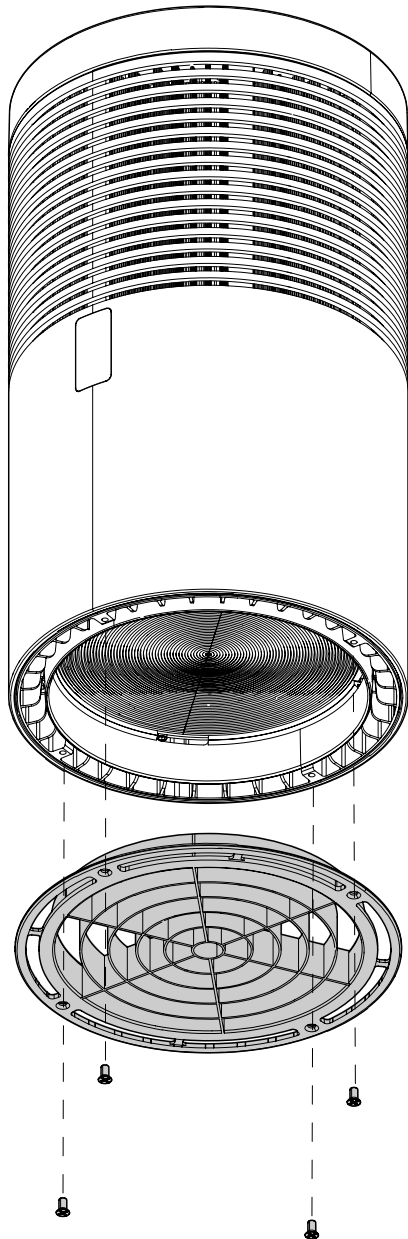
2 - FULL SNOOT



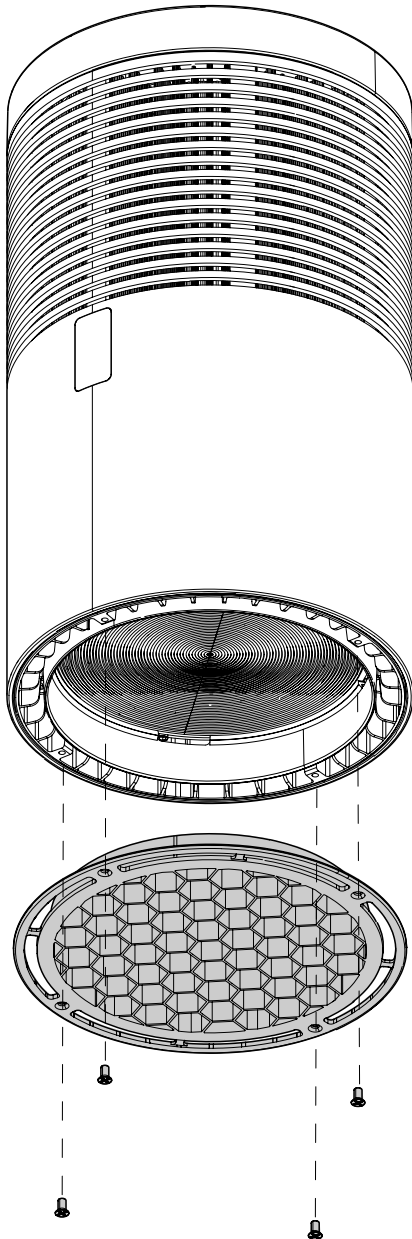
Attach half / full snoot to the fixture lens holder frame and secure with the four M4 screws.

Fig. 13

1 - LOUVRE



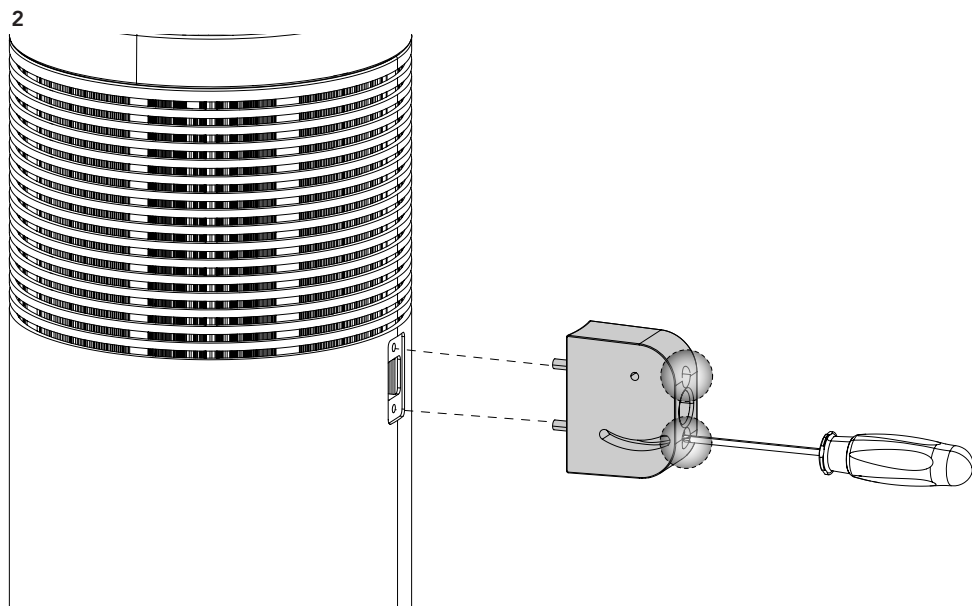
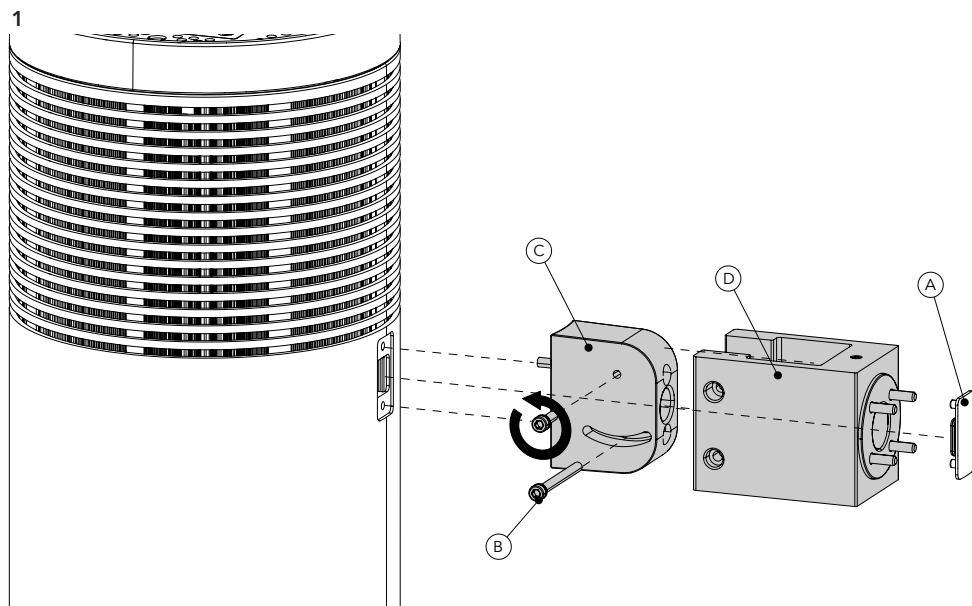
2 - HONEYCOMB



Attach louvre / honeycomb accessory to the fixture lens holder frame and secure with the four M4 screws.

Fig. 14

## WALL MOUNTING BRACKET (CODE ECLPENDWALLBRKBK/WH - OPTIONAL)



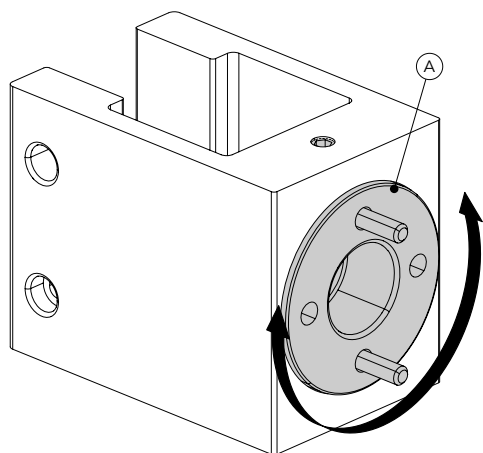
Remove the rubber from the desired side (A).

1. Remove the rubber (A) from the fixture.
2. Unscrew the screws (B) to remove the body (C) from the body (D). Attach the body to the fixture and secure it with the two screws.

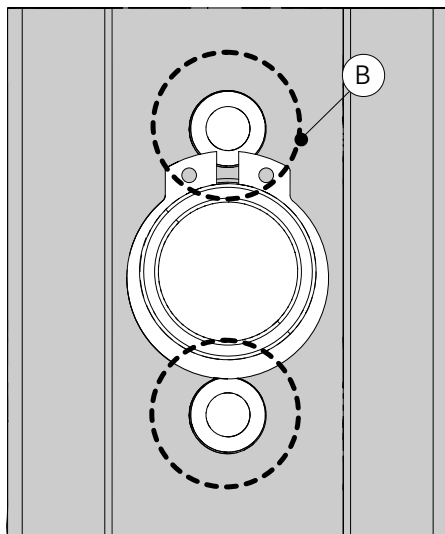
Please turn!



3

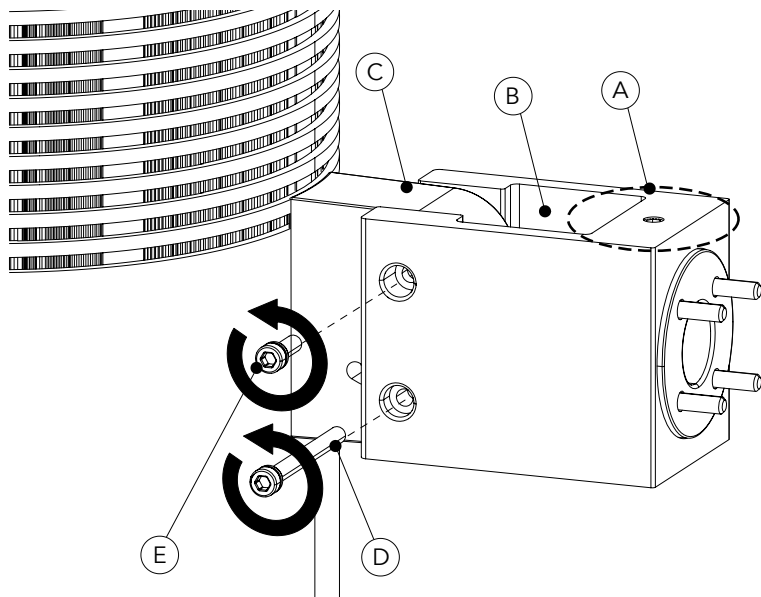


4



Rotate the disc (A) and align the two holes (B). Then insert the screws for wall fixing, and rotate it  $90^\circ$  again and insert the other two screws. Tighten the four screws in total.

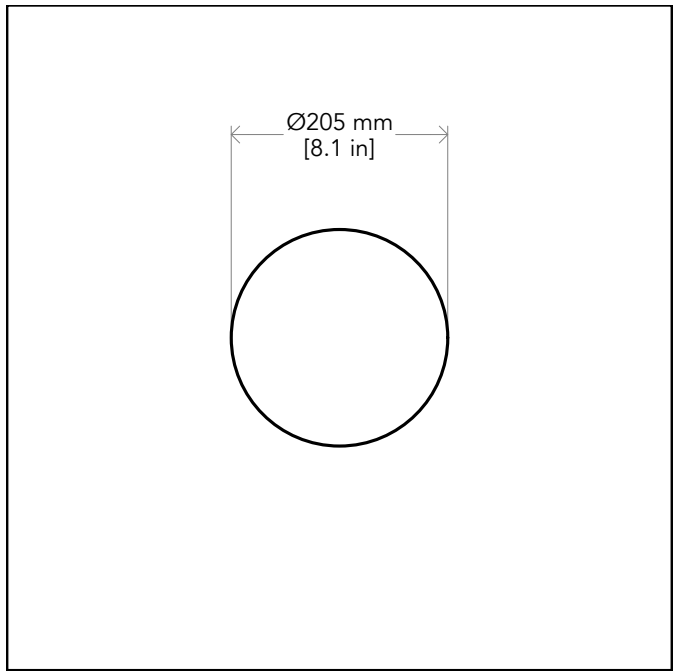
5



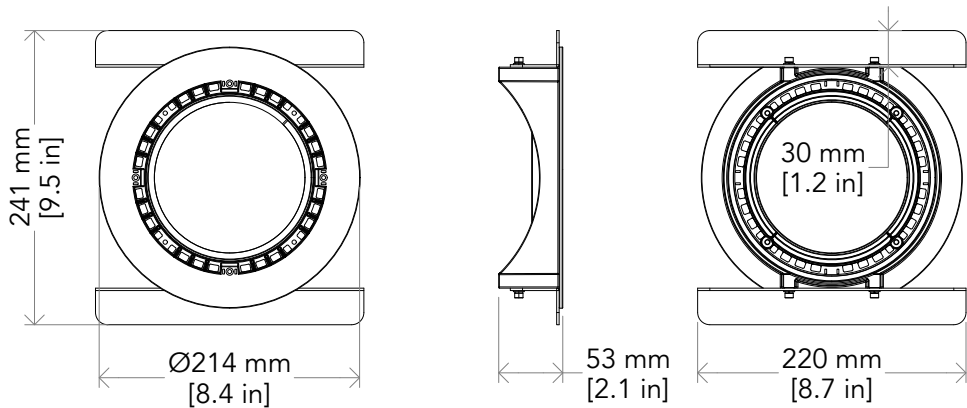
- Tighten the screw (A) to block the horizontal tilt.
  - Attach the two bodies (B-C) and secure it with the two screws (D-E).
- NOTE: use the screw (D) to fix the vertical tilt.

Fig. 15

A

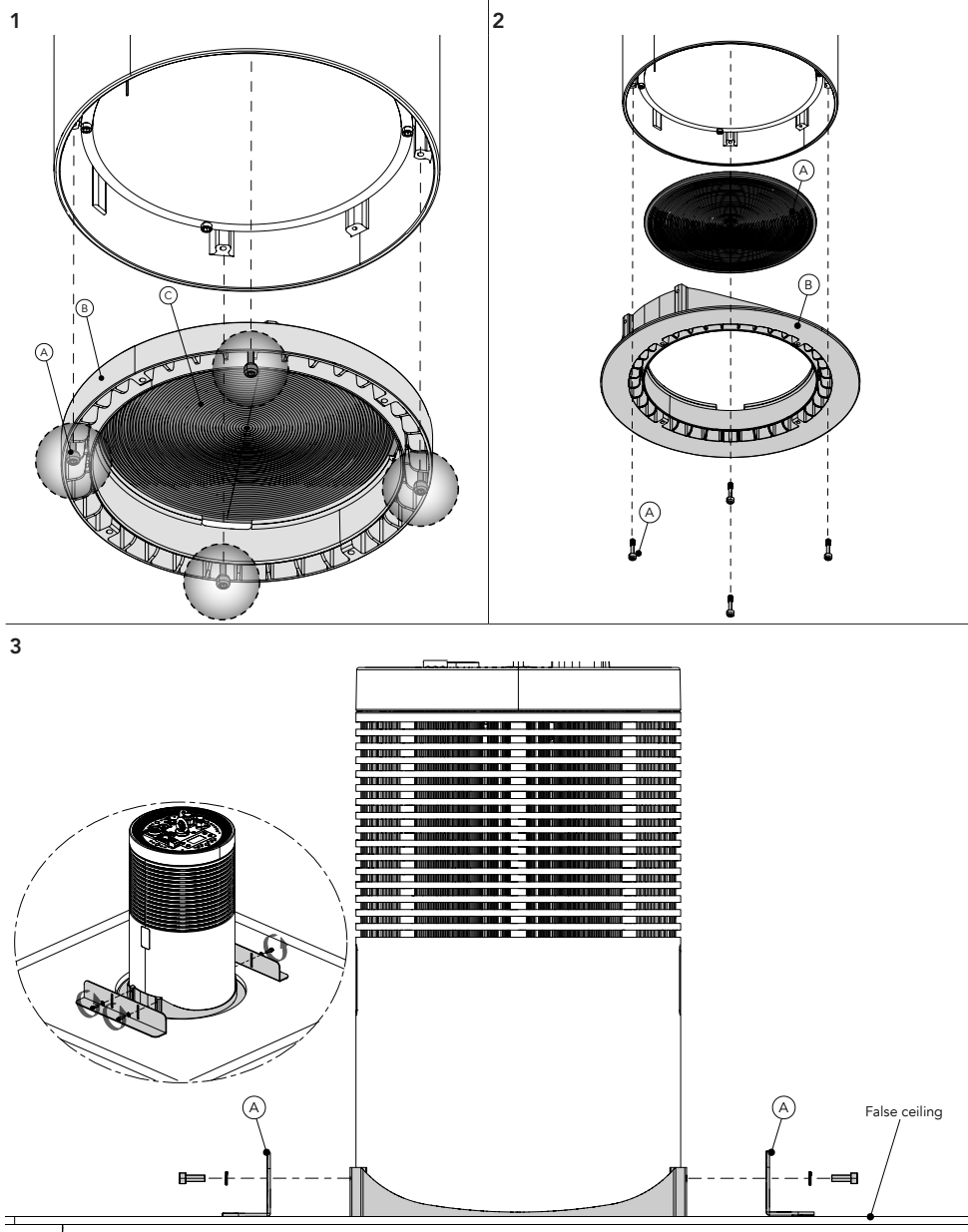


B



Measurements for cuts on the panels (1) and of Ceiling Recessed kit (2).

Please turn! ➡

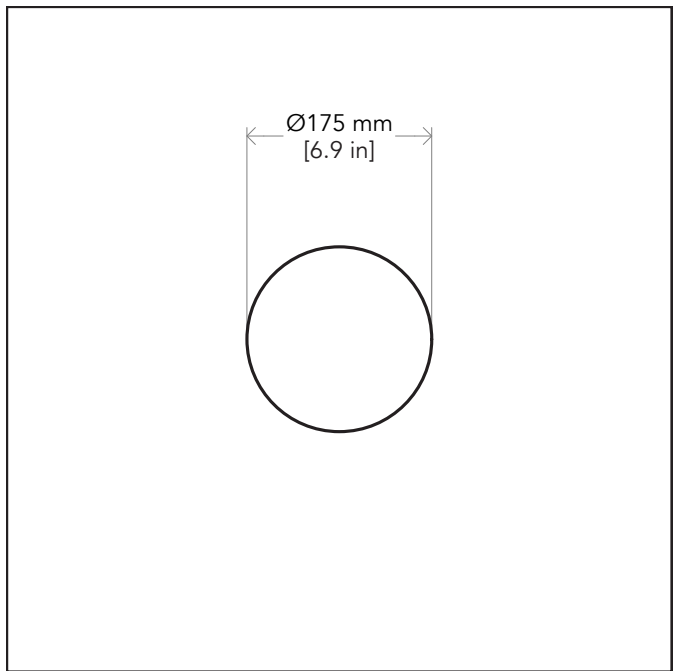


Place fixture on a stable surface.

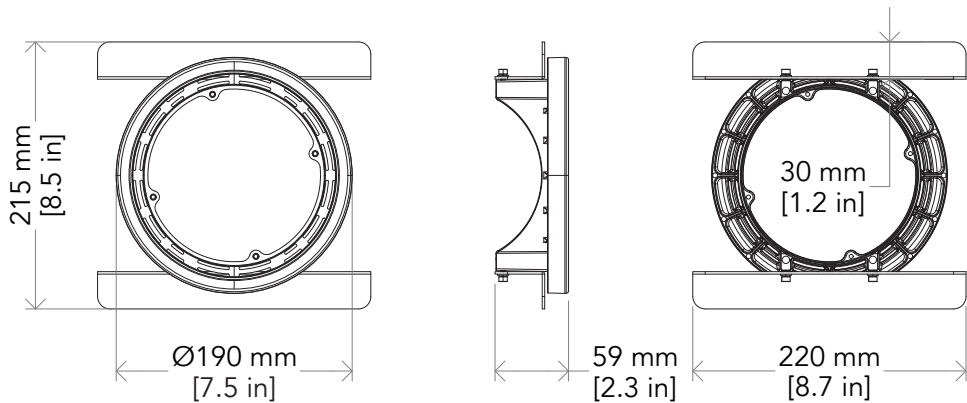
1. Loosen the four M4 screws (A) and remove the lens holder frame (B), lens (C) and its filter.
2. Mount the lens (A) on the accessory flange Ceiling Recessed kit (B). Attach the accessory flange (B) to the fixture and secure it with the four M4 screws (C).
3. Fix the two parts (A) on the panel and tighten using the screws (B).

Fig. 16

A



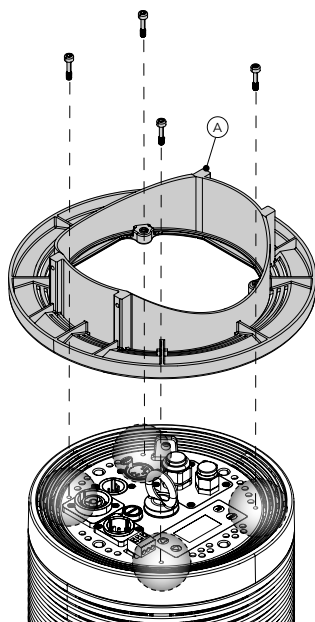
B



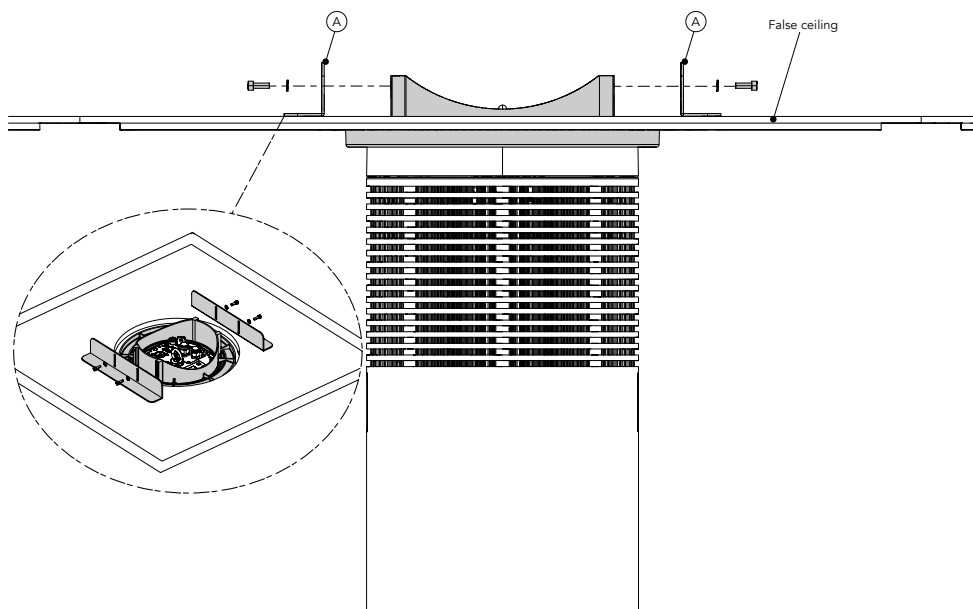
Measurements for cuts on the panels (1) and of Ceiling Mounted kit (2).

Please turn! ➡

1



2



Place fixture on a stable surface.

1. Attach the accessory flange (A) to the fixture and secure it with the four M4 screws.
2. Fix the two parts (A) on the panel and tighten using the screws.

Fig. 17

## 13 - MAINTENANCE

### MAINTENANCE AND CLEANING THE PRODUCT

**WARNING:** Disconnect from the mains before starting any maintenance work

It is recommended to clean the front at regular intervals, from impurities caused by dust, smoke, or other particles to ensure that the light is radiated at maximum brightness.

- For cleaning, disconnect the main plug from the socket. Use a soft, clean cloth moistened with a mild detergent. Then carefully wipe the part dry. For cleaning other housing parts use only a soft, clean cloth. Never use a liquid, it might penetrate the unit and cause damage to it.
- The user must clean the product periodically to maintain optimum performance and cooling. The user may also upload firmware (product software) to the fixture via the DMX signal input port or USB port using firmware and instructions from PROLIGHTS.
- The frequency of such maintenance operations is to be performed according to various factors, such as the amount of the use and the condition of the installation environment (air humidity, presence of dust, salinity, etc.). It is recommended that the product is subject to annual service by a qualified technician for special maintenance involving at least the following procedures:
  - General cleaning of internal parts.
  - For all the parts subject to friction, using lubricants specifically supplied by PROLIGHTS.
  - General visual check of the internal components, cabling, mechanical parts, etc.
  - Electrical, photometric and functional checks; eventual repairs.
  - Cleaning the lenses. Only use neutral soap and water to clean the lenses, then dry it carefully with a soft, non-abrasive cloth.

**WARNING:** the use of alcohol or any other detergent could damage the lenses.

- All other service operations on the product must be carried out by PROLIGHTS, its approved service agents or trained and qualified personnel.
- It is PROLIGHTS policy to apply the strictest possible calibration procedures and use the best quality materials available to ensure optimum performance and the longest possible component lifetimes. However, optical components are subject to wear and tear over the life of the product, resulting in gradual changes in colours over many thousands of hours of use. The extent of wear and tear depends heavily on operating conditions and environment, so it is impossible to specify precisely whether and to what extent performance will be affected. However, you may eventually need to replace optical components if their characteristics are affected by wear and tear after an extended period of use and if you require fixtures to perform within very precise optical and colour parameters.
- Do not apply filters, lenses or other materials on lenses or other optical components. Use only accessories approved by PROLIGHTS.

### VISUAL CHECK OF PRODUCT HOUSING

- The parts of the product cover/housing should be checked for eventual damages and breaking start at least every two months. In addition, especially the parts of the front lens holder have to be checked mechanically (by means of movement by the part) if it is firmly fastened to the fixture. If hint of a crack is found on some plastic part, do not use the product until the damaged part will be replaced.
- Cracks or another damages of the cover/housing parts can be caused by the product transportation or manipulation and also ageing process may influence materials.
- This checking is necessary for both fixed installations and preparing product for renting. Any free moving parts inside of the product, cracked cover/housing or any part of front lens not sitting properly in place need to be immediately replaced.

## TROUBLESHOOTING

| Problems                                                                  | Possible causes                                                                                                                                 | Checks and remedies                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product doesn't power ON.                                                 | <ul style="list-style-type: none"> <li>No power to the product.</li> </ul>                                                                      | <ul style="list-style-type: none"> <li>Check that power is switched ON and cables are plugged in.</li> </ul>                                                                                                                                                                                                                                                                                              |
|                                                                           | <ul style="list-style-type: none"> <li>Fuse blown or internal fault.</li> </ul>                                                                 | <ul style="list-style-type: none"> <li>Check if the Fuse is intact and eventually replace it if necessary.</li> <li>Contact the PROLIGHTS Service or authorized service partner. Do not remove parts and/or covers, or carry out any repairs or service that are not described in this Safety and User Manual unless you have both authorization from PROLIGHTS and the service documentation.</li> </ul> |
| Product reset correctly but does not respond correctly to the controller. | <ul style="list-style-type: none"> <li>Bad signal connection.</li> </ul>                                                                        | <ul style="list-style-type: none"> <li>Inspect connections and cables. Fix eventual bad connections. Repair or replace damaged cables.</li> </ul>                                                                                                                                                                                                                                                         |
|                                                                           | <ul style="list-style-type: none"> <li>Signal connection not terminated.</li> </ul>                                                             | <ul style="list-style-type: none"> <li>Insert DMX termination plug in signal output socket of the last product on the signal line.</li> </ul>                                                                                                                                                                                                                                                             |
|                                                                           | <ul style="list-style-type: none"> <li>Incorrect addressing of the product.</li> </ul>                                                          | <ul style="list-style-type: none"> <li>Check the product address and control settings.</li> </ul>                                                                                                                                                                                                                                                                                                         |
|                                                                           | <ul style="list-style-type: none"> <li>One of the product is defective and is corrupting the signal transmission on the signal line.</li> </ul> | <ul style="list-style-type: none"> <li>Unplug the XLR in and out connectors and connect them directly together to bypass one product at a time until normal operation is regained. Once found the error, have that fixture serviced by a qualified technician.</li> </ul>                                                                                                                                 |
| Timeout error after fixture reset.                                        | <ul style="list-style-type: none"> <li>One or more hardware components requires mechanical adjustments.</li> </ul>                              | <ul style="list-style-type: none"> <li>Check product stored error messages for more information. Contact PROLIGHTS Service or an authorized service partner.</li> </ul>                                                                                                                                                                                                                                   |
| Mechanical effect loses position.                                         | <ul style="list-style-type: none"> <li>Mechanical hardware require cleaning, adjustment or lubrication.</li> </ul>                              | <ul style="list-style-type: none"> <li>Check product stored error messages for more information. Contact PROLIGHTS Service or an authorized service partner.</li> </ul>                                                                                                                                                                                                                                   |
| Light output turn OFF Intermittently.                                     | <ul style="list-style-type: none"> <li>Fixture is too hot.</li> </ul>                                                                           | <ul style="list-style-type: none"> <li>Check product stored error messages.</li> <li>Allow product to cool.</li> <li>Clean the product and airflow filters.</li> <li>Reduce ambient temperature.</li> </ul>                                                                                                                                                                                               |
|                                                                           | <ul style="list-style-type: none"> <li>Hardware failure (temperature sensor, fans, Light source...).</li> </ul>                                 | <ul style="list-style-type: none"> <li>Check product stored error messages for more information. Contact PROLIGHTS Service or an authorized service partner.</li> </ul>                                                                                                                                                                                                                                   |
| General low light intensity.                                              | <ul style="list-style-type: none"> <li>Dirty lens assembly.</li> </ul>                                                                          | <ul style="list-style-type: none"> <li>Clean the fixture regularly.</li> </ul>                                                                                                                                                                                                                                                                                                                            |
|                                                                           | <ul style="list-style-type: none"> <li>Dirty or damaged filters.</li> </ul>                                                                     | <ul style="list-style-type: none"> <li>Install lens assembly properly.</li> </ul>                                                                                                                                                                                                                                                                                                                         |

Contact an authorized service center in case of technical problems or not reported in the table can not be resolved by the procedure given in the table.

[illegible]

## This image shows a full page of blank, lined paper. It features approximately 20 evenly spaced horizontal grey lines across its entire width, providing a guide for handwriting or typing. The paper itself is a clean, off-white color.



