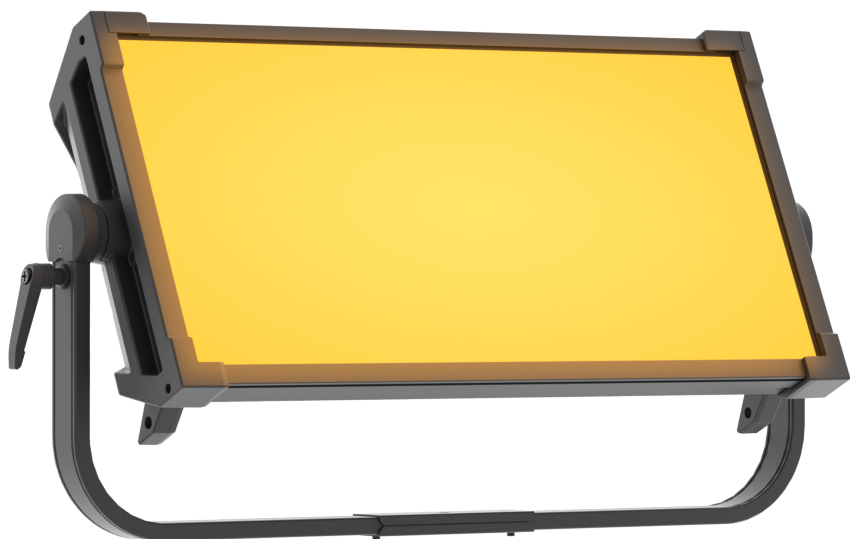




# EclPanel TWC

740W Tunable White and colourful  
LED soft light with pixels and  
lighting effects (driven @ 430W)



---

## USER MANUAL

Version: B

---

## ***Thank you for choosing PROLIGHTS***

Please note that every PROLIGHTS product has been designed in Italy to meet quality and performance requirements for professionals and designed and manufactured for the use and application as shown in this document.

Any other use, if not expressly indicated, could compromise the good condition/operation of the product and/or be a source of danger.

This product is meant for professional use. Therefore, commercial use of this equipment is subject to the respectively applicable national accident prevention rules and regulations.

Features, specifications and appearance are subject to change without notice. Music & Lights S.r.l. and all affiliated companies disclaim liability for any injury, damage, direct or indirect loss, consequential or economic loss or any other loss occasioned by the use of, inability to use or reliance on the information contained in this document.

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.



Visit the download area  
of the product page



The PROLIGHTS Logo, PROLIGHTS names and all other trademark in this document pertaining to PROLIGHTS services or PROLIGHTS product are trademarks OWNED or licensed by Music & Lights S.r.l., its affiliates, and subsidiaries. PROLIGHTS is a registered trademark by Music & Lights S.r.l. All right reserved. Music & Lights – Via A. Olivetti, snc - 04026 - Minturno (LT) ITALY.

# INDEX

<b>SAFETY INFORMATION</b>	<b>02</b>
<b>1 - PACKAGING</b>	<b>05</b>
PACKAGE CONTENT .....	05
OPTIONAL ACCESSORIES .....	05
<b>2 - TECHNICAL DRAWING</b>	<b>06</b>
<b>3 - INSTALLATION</b>	<b>07</b>
MOUNTING .....	07
<b>4 - CONNECTION TO THE MAINS SUPPLY</b>	<b>08</b>
<b>5 - START UP</b>	<b>08</b>
CONNECT AND DISCONNECT POWER FROM THE PRODUCT .....	08
<b>6 - PRODUCT OVERVIEW</b>	<b>09</b>
<b>7 - DMX CONNECTION</b>	<b>10</b>
CONNECTION OF THE CONTROL SIGNAL: DMX LINE .....	10
INSTRUCTIONS FOR A RELIABLE DMX CONNECTION .....	10
CONNECTION DAISY CHAIN .....	10
CONNECTION OF THE DMX LINE .....	10
CONSTRUCTION OF THE DMX TERMINATION .....	11
DMX ADDRESSING .....	11
OPERATION AS A WIRELESS TRANSMITTER .....	11
Unlinking the transmitter .....	12
DMX TO WDMX (TX) .....	12
OPERATION AS A WIRELESS RECEIVER .....	12
Reset the receiver .....	12
WDMX TO DMX (RX) .....	12
<b>8 - CONTROL PANEL</b>	<b>13</b>
DISPLAY AND BUTTONS LAYOUT .....	13
ROTATORY KNOB LAYOUT .....	13
<b>9 - MENU STRUCTURE</b>	<b>14</b>
STARTUP BEHAVIOUR .....	18
FAN MODE .....	18
<b>10 - SHORTCUT</b>	<b>18</b>
<b>11 - DIMMER CURVES</b>	<b>19</b>
<b>12 - RDM FUNCTIONS</b>	<b>20</b>
<b>13 - DMX CHARTS</b>	<b>21</b>
<b>14 - ACCESSORIES INSTALLATION</b>	<b>54</b>
THE POLE OPERATED YOKE (CODE ECLPANELPOYO - OPTIONAL) .....	54
RIGID EGG CRATES (CODES EPTWCEC4C, EPTWCEC30, EPTWCEC60 - OPTIONAL) .....	55
DIFFUSION FILTERS (CODES EPTWCFILTERHD, EPTWCFILTERMD, EPTWCFILTERLD - OPTIONAL) .....	56
BARN DOOR (CODE EPTWCBDR2 - OPTIONAL) .....	57
<b>15 - MAINTENANCE</b>	<b>58</b>
MAINTENANCE AND CLEANING THE PRODUCT .....	58
REPLACING THE FUSE .....	58
VISUAL CHECK OF PRODUCT HOUSING .....	58
TROUBLESHOOTING .....	59

## SAFETY INFORMATION



### WARNING!

- 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 residential and household use, 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 (T<sub>a</sub>)**

- Do not operate the fixture if the ambient temperature (T<sub>a</sub>) 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 (159.8 °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.



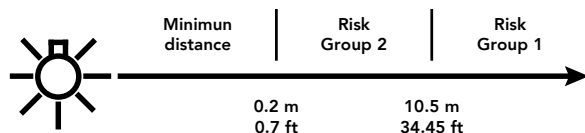
### **Photobiological safety**

- 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 10.5 m (34.44 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).



- UL STD 1573 + CSA C22.2 No. 166 - Stage and Studio Luminaires and Connector Strips.



#### FCC Compliance:

- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
1. This device may not cause harmful interference, and
  2. This device must accept any interference received, including interference that may cause undesired operation.



#### Other approvals

- The product meets the safety requirements of the certification procedures of the market in which it is placed and sold.

# 1 - PACKAGING

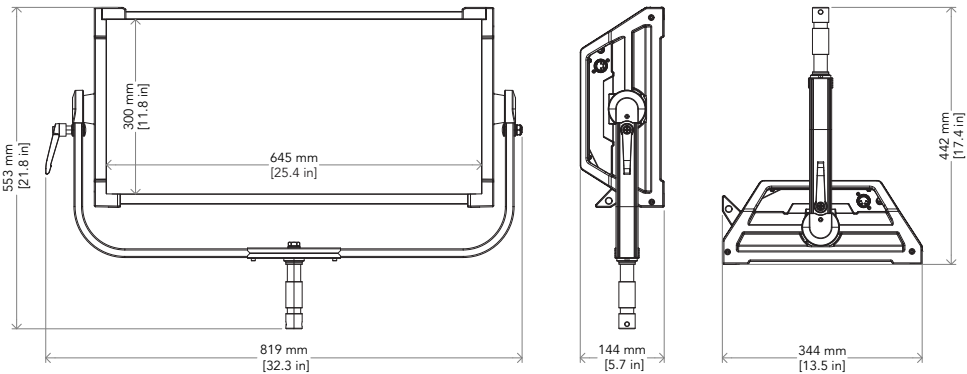
## PACKAGE CONTENT

- 1x ECLPANELTWC;
- 1x 1,5 meters power cable (BARE END - NEUTRIK POWERCON TRUE1 IP65);
- 1x EPTWCFILTERMD: front medium diffusion filter for ECLPANELTWC;
- 1x ECLFRSPG: spigot for PROLIGHTS Fresnel series;
- User manual.

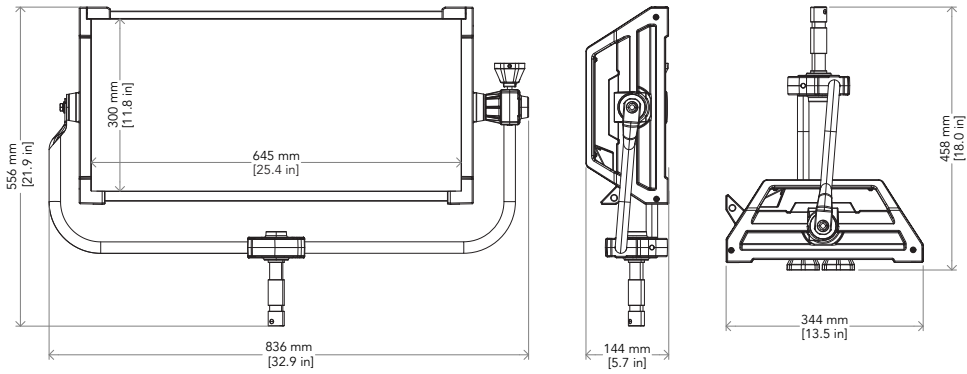
## OPTIONAL ACCESSORIES

- RSR0630A/B: steel security cable for hanging bodies, inox steel shackle, L=60 cm, silver/black;
- 9533FXWL03: ass. 3x2.5mm TH07 cable, SHUKO plug, MENAC3FXW socket, L.3m;
- 958225L03: 3x2.5mm TH07 Cable, 16A 3p PwCon MXW, 16A 3p PwCon FXW, L. 3m;
- FCLPANEL1U: flight case for 1 pc of ECLPANELTWC;
- C6002: slim aluminium clamp, 200 kg loading, 48-51 mm tubes, M10 bolt;
- C6040: aluminum clamp for 28mm spigot, 250kg load, 48-51mm tubes;
- EPTWCBAG1U: trolley bag for 1 pc of ECLPANELTWC;
- 9513FXWL03: ass. 3x2.5mm TH07 cable, 16A 3p 230V CEE plug, MENAC3FXW socket, L.3 m;
- TOUR53415L03BK: dmx cable HC5340. CANC5MXX XLR 5p->CANC5FXX XLR (f) 5p, L.3m;
- WSBBF1G5: blackBox F-1 G5 transmitter, 2,45GHz & 5.2/5.8 GHz, DMX/RDM, 512Ch;
- WSBBF1G6: blackBox F-1 G6 transrec, 512ch, 2.45GHz, DMX&RDM,Bluetooth,G3,G4,G4S, G5, CRMX;
- WSBBR512G5: blackBox R-512 G5 receiver 512Ch, 2.45GHz & 5.8GHz, DMX/RDM optional;
- WSBBR512G6: blackBox R-512 G6 receiver 512Ch, 2.45GHz,DMX&RDM,Bluetooth,G3,G4,G4S,G5,CRMX;
- FCLPANEL3U: flight case for 3 pcs of ECLPANELTWC;
- ECLPANELPOYO: pole operated aluminium yoke bracket for ECLPANELTWC;
- EPTWCFILTERINT: front intensified diffusion filter for ECLPANELTWC;
- EPTWCFILTERHD: front high diffusion filter (less output) for ECLPANELTWC;
- EPTWCFILTERLD: front low diffusion filter (more output) for ECLPANELTWC;
- EPTWCEC30: 30 degree egg crate for ECLPANELTWC;
- EPTWCEC60: 60 degree egg crate for ECLPANELTWC;
- EPTWCEC8C: 8 chamber egg crate for ECLPANELTWC;
- EPTWCBDR2: barn door with 4 directional flaps to adjust the light beam;
- EPTWCBD: barn door with 4 directional flaps to adjust the light beam;
- EPTWCBSB21: snapBag 2x1 for ECLPANELTWC by DoP choice;
- EPTWCSCG4SB2140: 40° SnapGrid for SnapBag, 2x1 for ECLPANELTWC by DoP choice;
- EPTWCSCG2140: 40° SnapGrid, 2x1 for ECLPANELTWC by DoP choice;
- EPSRER: rabbit-Ears 2x1 Rectangular for ECLPANELTWC by DoP choice;
- EPSBRL3: snapbag Lantern 3' for Rabbit-Ears by DoP. Incl. Lantern, Backcovers, Carry Bag;
- EPSBRL3C4: cover for Snapbag Lantern 3' (EPSBRL3) by DoP choice; 4 sides, adj. with zipper;
- EPSBRM: snapBag Medium to be mounted on Rabbit Ears by DoP;
- EPSGCM40: SnapBag Medium to be mounted on Rabbit Ears by DoP;
- EPSBRO3: snapbag Octa 3' to be mounted on Rabbit-Ears by DoP;
- EPSGC3W40: 40° SnapGrid, to be mounted on Snap Bag Octa 3' (EPSBRO3);
- EPSBRO5: snapbag Octa 5' to be mounted on Rabbit-Ears by DoP;
- EPSGC5W40: 40° SnapGrid, to be mounted on Snap Bag Octa 5' (EPSBRO5);
- EPSBRO7: snapbag Octa 7' to be mounted on Rabbit-Ears by DoP;
- EPSGC7W40: 40° SnapGrid, to be mounted on Snap Bag Octa 7' (EPSBRO7);
- EPSBCFNSM: diffusion MAGIC cloth for Snapbag 60x90cm (EPTWCBSB21) by DoP choice;
- EPSBCFNSF: diffusion FULL Grid cloth for Snapbag 60x90cm (EPTWCBSB21) by DoP choice;
- EPSBCFNSH: diffusion HALF Grid cloth for Snapbag 60x90cm (EPTWCBSB21) by DoP choice;
- EPSBCFNSQ: diffusion QUARTER Grid cloth for Snapbag 60x90cm (EPTWCBSB21) by DoP choice;
- EPSBCFNSQFM: diffusion cloth SET(1/4,1/1,MAGIC) for Snapbag 60x90cm (EPTWCBSB21) by DoP choice;
- EPSBCFNSQHF: diffusion cloth SET (1/4, 1/2,1/1) for Snapbag 60x90cm (EPTWCBSB21) by DoP choice;
- EPTWCLANT21: snapbag Lantern for ECLPANELTWC by DoP. Incl. Lantern, Backcovers, Carry Bag;
- SWIT500W2KIT: 24/48V 500W battery (>1.2hrs) KIT including 2\*PBH260S smart power batt.+st.adapt;
- UPBOX1U: firmware uploader kit, USB IN, 3pin XLR DMX OUT, USB OUT.

## 2 - TECHNICAL DRAWING



Weight: 15.3 kg - 33.73 lbs



Weight: 17.1kg - 36.70 lbs

Fig. 01



## 3 - INSTALLATION

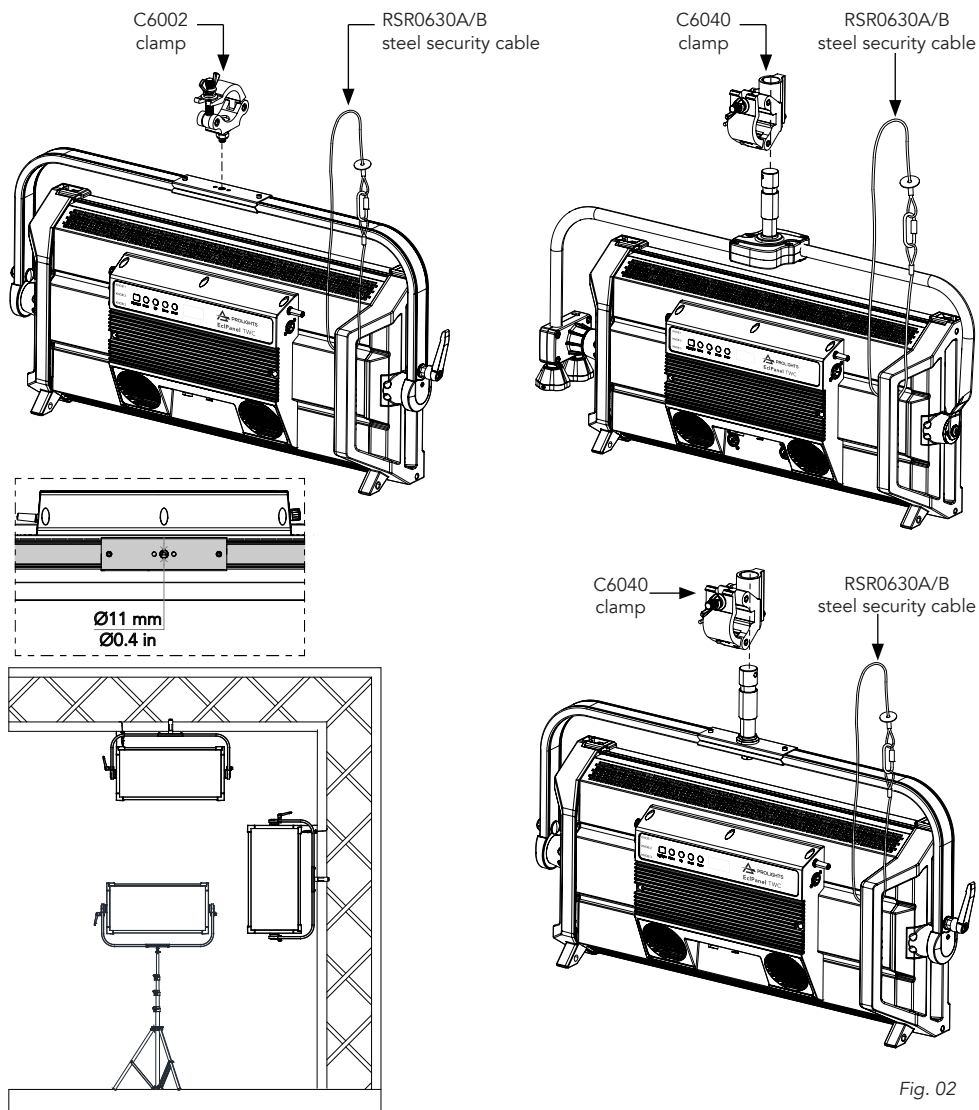
### MOUNTING

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.



## 4 - 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.  
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 460W.

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

## 5 - START UP

### 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 connector into the Mains input socket (100-240 VAC-50/60 Hz).
- The product is then ready for its operations and can be controlled through the available input signals on board.
- To disconnect power from the product, disconnect the Mains from the socket.
- In case you wish to run the product through an external battery, then connect the product to an external battery (24-36V) into the dedicated XLR4p socket; to disconnect power, disconnect the Battery from the socket.

## 6 - PRODUCT OVERVIEW

1. ANTENNA of Wireless DMX Receiver internal module.
2. USER INTERFACE with display and buttons for access to the control panel functions.
3. HIGHLIGHT button: turns the fixture temporary on for focusing without data signal.
4. ROTATORY KNOBS for product stand alone control operations.
5. TILT KNOB: for fixture tilt adjustment and fastening.
6. POWER IN: for connection to the Mains 100-240V~/50-60Hz.
7. MAIN FUSE HOLDER: replace a burnt-out fuse by one of the same type only (T6.3 AL 250V).
8. DMX IN (5-p XLR): 1 = GND, 2 = sign-, 3 = sign+, 4 N/C, 5 N/C.
9. DMX OUT (5-p XLR): 1 = GND, 2 = sign-, 3 = sign+, 4 N/C, 5 N/C.
10. POWER OUT: power output for connection of multiple units in series.
11. BATTERY IN (4-pole XLR): for battery within 24-36 V range, 1 = V -, 2 = N/C, 3 = N/C, 4 = V+.

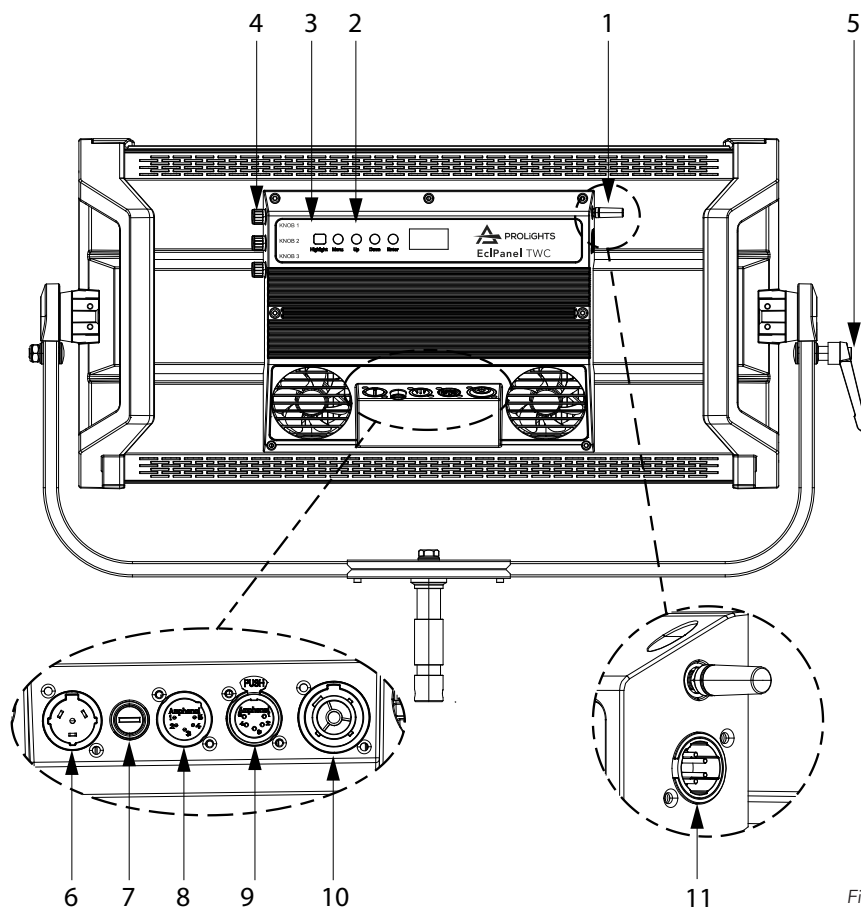


Fig. 03

# 7 - DMX CONNECTION

## 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:

DMX - INPUT  
XLR plug



- Pin1 : GND - Shield
- Pin2 : - Signal
- Pin3 : + Signal
- Pin4 : N/C
- Pin5 : N/C

DMX - OUTPUT  
XLR socket

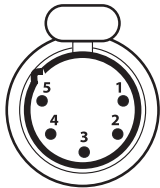


Fig. 04

## 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:

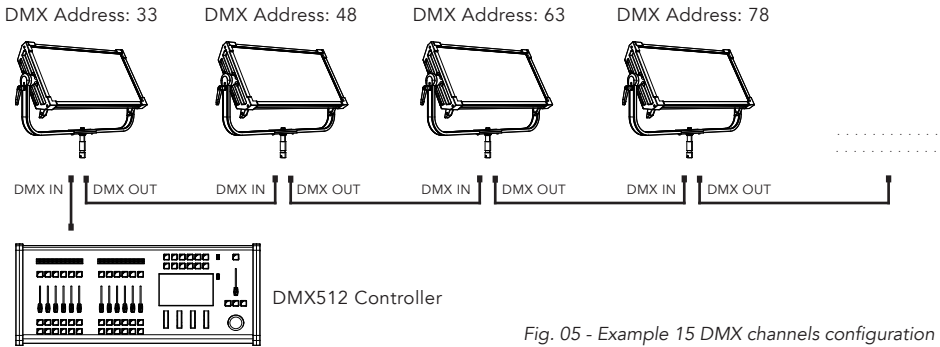
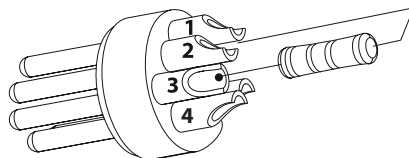
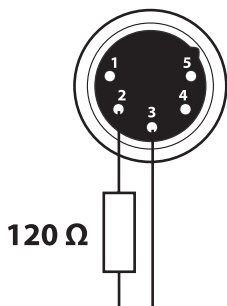


Fig. 05 - Example 15 DMX channels configuration

## 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. 06

## 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 MENU 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.

The product DMX address, as well as other possible user settings through the MENU, can also be set when the product is disconnected from the Main through the internal battery-backup. All that is needed is to press and hold the button ENTER to momentarily enable the display and enter in the settings. Once the required operations have been executed, the display will switch off again after few seconds of being inactive.

## DMX WIRELESS

The device is compatible with The WDMX and LumenRadio standards.

## OPERATION AS A WIRELESS TRANSMITTER

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

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. 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 MENU button until you show CONNECT on display, then press ENTER button to confirm.
2. Use UP/DOWN buttons to 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.

### **DMX TO WDMX (TX)**

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**

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

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

1. Push MENU button until you show CONNECT on display, then press ENTER button to confirm.
2. Use UP/DOWN buttons to 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 to 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.

# 8 - CONTROL PANEL

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

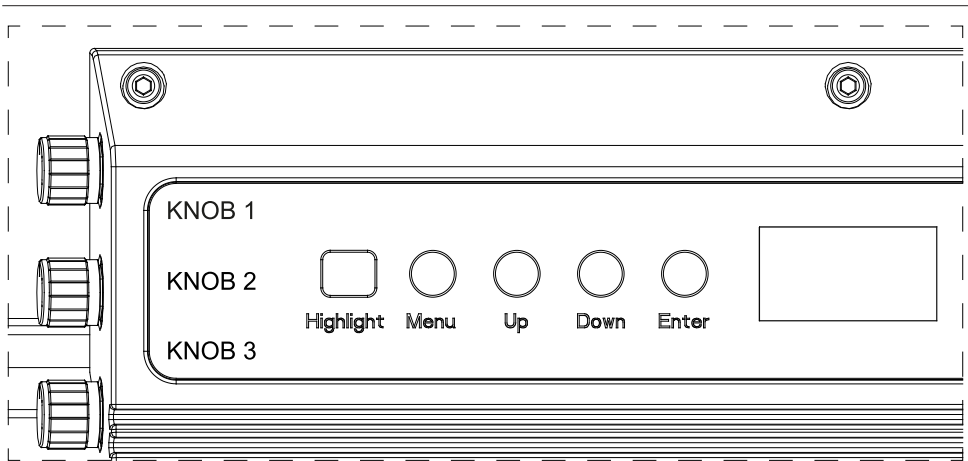


Fig. 07

## DISPLAY AND BUTTONS LAYOUT

- The product has a display and buttons for access to the control panel functions.
- HIGHLIGHT: Press and hold for three seconds to temporary turn ON the product at Full ON for user focusing operations.
- MENU: Used to access the menu tree or to return a previous menu window.
- UP: Browse upwards through the menu list and increases the numeric value displayed.
- DOWN: Browse downwards through the menu list and decreases the numeric value displayed.
- ENTER: Used to confirm the current menu or confirm the current function value or option within a menu.

## ROTATORY KNOB LAYOUT

The product is equipped with rotatory knobs for manual control of the product, those are enabled only in Stand Alone mode and they enable access to control certain attributes according to the selected STAND ALONE mode as indicated below:

MODE	ROTARY KNOB 1	ROTARY KNOB 2	ROTARY KNOB 3
EFFECTS	Dimmer (0 ÷ 255)	Effect	Speed (1 ÷ 100)
CCT	Dimmer (0 ÷ 255)	+/- Green (-25/+25)	Control temperature (CCT): 2800K ÷ 10000K
HSI	Dimmer (0 ÷ 255)	Colors (0 ÷ 255)	Saturation (SAT): 0 ÷ 255

## 9 - MENU STRUCTURE

The following chart describes the MENU tree of the product, the terms shown in **BOLD** indicate the default settings for Standard factory reload, the terms shown in Underlined indicate the default settings for Film factory reload.

MENU									
1	CONNECT	DMX Address	Value (001-512)						
		DMX Mode	Theater	1CH 2CH	Amber Shift On				
					Color Temperature	2800K	6500K	Hue (-025÷025) <b>Hue=0</b>	
						3200K	7000K		
						3500K	7500K		
		4000K	8000K						
		4500K	8500K						
		5000K	9000K						
		5600K	9500K						
		6000K	10000K						
		Manual Color	Red (000÷255) Green (000÷255) Blue (000÷255) White (000÷255)						
				4CH 5CH1 5CH2 6CH 10CH <b>15CH</b> 17CH 21CH					
			Film	1M12CH <b>2M20CH</b> 3M17CH 4M33CH 5M65CH 6M129CH XY 8 Pix Direct 8 Pix Direct MD Special					
		Wireless	WDMX ON/OFF	On-Off	Enable/Disable the wireless card.				
	WDMX mode		Transmitter <b>Receiver</b>	Choose whether to set the wireless card as Transmitter or Receiver. WDMX mode is unlocked only if WDMX ON / OFF is ON.					
TX link	On-Off		TX link unlock when the unit is set as a transmitter.						
TX unlink	On-Off		Disconnect the transmitter from all receivers. TX unlink unlocks only if WDMX mode is on transmitter.						
RX reset	On-Off		Total reset of the receiver. RX reset unlocks only if WDMX mode is receiver.						
DMX to WDMX (TX)	On-Off		Enable/Disable the transmission of the dmx from the transmitter to the receiver via wdmx.						
WDMX to DMX (RX)	On-Off		Enable/Disable the retransmission of the DMX from the receiver to the other units connected by cable to the receiver itself.						
2	SETUP	Screen	Back Light	On <b>10 s</b>	20 s 30 s	Select the timing after that display will switch automatically off when unactive.			
			Flip Display	No-Yes	Allows you to rotate the display by 180°.				
			Key Lock	No-Yes	Lock the buttons on the control panel by a password. Press following combinations (password) in order to access to the user menu : UP, DOWN, UP, DOWN, ENTER.				
			Display Value	Percentage	Choose how to show datas on Stand Alone Modes. In percentage mode values will be shown as 0-100%. In Raw Data mode values will be shown as 0-255.				
		Raw Data							
			Transfer settings	No DMX address With DMX address	To transfer fixture settings with or without DMX.				



3	ADVANCED	Dimmer Curve		Linear S-Curve <b>Square Law</b> Inverse Square Law High Res@Low	To select Dimmer curve.
		Dimmer Speed		<b>Auto</b> Fast Medium Slow Off	To select Dimmer speed.
		Dimmer End		<b>Snap Off @ End</b> <b>Fade Off @ End</b>	If "Factory Reload @STANDARD" is performed, Default: Fade Off @ End If "Factory Reload @FILM" is performed, Default: Snap Off @ End Set Dimmer End behaviour. Snap Off will make fixture snap when dimming out to 0. Fade Off will make fixture fade when dimming out to 0. This selection affects only 004-000 DMX value behaviour.
		Crossfade Type		<b>Standard</b> Subtractive	Standard: Lineary crossfade from CCT to RGBW Subtractive: CCT channel modifies white point when RGBW@Full
		Spektra Calibration		ON <b>Pure Colors</b> OFF	ON: CCT and colors are fully calibrated, working in the common color space definition set by Spektra. This means that output of multiple fixtures will match with no visible differences. Color Saturation is slightly reduced. Pure Colors: CCT is calibrated, giving perfect white matching across multiple fixtures, but primary and secondary colors are calibrated to their native color space which allows maximum color saturation. The closer you move towards white, the more closely multiple fixtures will match each other's output. The further you move away from white and the closer you move towards saturated color, the less closely multiple fixtures will match each other's output. OFF: CCT doesn't guarantee High CRI Values and color output of one fixture may or may not closely match that of other fixtures.
		Calibration Selector		<b>Master LED</b>	
		Startup Behaviour	On encoder touch	S.Alone CCT mode S.Alone RGBW mode S.Alone FX mode	If "Factory Reload @STANDARD" is performed = STANDALONE (CCT@3200K, Tint@Neutral, Dimmer@50%)
			Standalone		If "Factory Reload @FILM" is performed = ON ENCODER TOUCH - STAND ALONE CCT MODE (5600K, Tint@Neutral, Dimmer@50%) <b>NOTE:</b> See pag 18 for further informations.
		DMX Fault		<b>Hold</b> Blackout Standalone	To choose the behaviour of fixture in case of dmx signal lost.
		Led Frequency	600Hz <b>1200 Hz</b> 2000 Hz 4000 Hz 6000Hz 10KHz	12Khz 15KHz 20KHz <b>25kHz</b> 36kHz	If Factory Reload @ STANDARD Default: 1200Hz If Factory Reload @ FILM Default: 25kHz
			Fan Mode	<b>Constant Output</b> <b>Dynamic Output</b>	If Factory Reload @ STANDARD Default: Constant output AUTO  If Factory Reload @ FILM Default: Dynamic output SILENT 1 <b>NOTE:</b> See pag 18 for further informations.
		Factory Reload	Standard	No/Yes	Reload fixture with Standard settings.
			Film	No/Yes	Reload fixture with Film settings.
		Display Luminosity		0-255	<b>Only in INTERNAL MODE:</b> To set Display intensity. To acces Internal mode see SHORTCUT at Pag.18
		LED Curve	LED A	<b>OLD Curve</b> NEW Curve	<b>Only in INTERNAL MODE:</b> To select LED Driver type. To acces Internal mode see SHORTCUT at Pag.18
			LED B	<b>OLD Curve</b> NEW Curve	

4	<b>INFORMATION</b>	Fixture Time	0÷9999	View informations about product operating lifetime.
		Disp Version	VX.X	
		Drv Version	VX.X	
		RDM UID	15D0022F****	View the UID of the product (RDM control).
		Calibration	MASTER/LED	View Calibration used.
		Error messages	DRV1 error, DRV2 error, Calibration1 error, Calibration2 error	
5	<b>STAND ALONE</b>	Master/Slave	Master Master No Dmx <b>Slave</b>	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.
		Effects	Effect 1 Effect 2 Effect 3 Effect 4 Effect 5 Candle Cop Car  Cop Car1 Cop Car2 Cop Car3 Fire Fireworks Paparazzi Television Party Clouds Club Color Chase Strobe Lightning Explosion Fluorescent Process  Pulsing Welding	Parameter list, all effect have dimmer and speed. Effect 1 Effect 2 Effect 3 Effect 4 Effect 5 Candle: CCT Cop Car: color (B RB BW BRW BA BRA RA R A), flash Cop Car 1 Cop Car 2 Cop Car 3 Fire: CCT (Warm, Neutral, Cold) Firework: color (Random, W, CW) Paparazzi: flash type, tint, CCT Television: CCT (Warm, Neutral, Cold) Party: saturation Clouds: offset Club: color number Color chase: saturation, offset Strobe: CCT, tint, x-fade, hue, saturation Lightning: flash, CCT, tint Explosion: CCT, tint, x-fade, hue, saturation Fluorescent: frequency, CCT, tint, x-fade, hue, saturation Process: direction, CCT, tint, x-fade, hue, saturation Pulsing: pulses, CCT, tint, x-fade, hue, saturation Welding: minimum dimmer, CCT, tint, x-fade, hue, saturation, speed
		Source emulation	Dimmer Category Source	Category and source list: INCANDESCENT: Tungsten Bulb, Incandescent, Halogen, Antique Bulb, Warm Antique Bulb, Christmas Lights, Night Light, Infrared Heat Lamp, Grow light FLUORESCENT: CFL Soft White, CFL Bright White, CFL Cool White, CFL Daylight, Cool White 1, Cool White 2, Cool White 3, Warm White, CFL Blacklight DISCHARGE: HMI, High Pressure Sodium, Low Pressure Sodium, Mercury Vapor, Metal Halide Ceramic, Carbon Arc, Xenon OTHER: Candle, Gas Fire, Sun Direct, Sun Overcast, Sun Blue Hour, Mobile Phone, Computer Monitor, Electroluminescence, Blow Torch, Road Flare, Amber Caution, Green Traffic Light, Yellow Traffic Light, Red Traffic Light, Blue Glow Stick, Green Glow Stick, Red Glow Stick, Yellow Glow Stick, Pink Glow Stick, Violet Glow Stick
		CCT	Dimmer (000÷255)	Use the 1st rotary knob to set the Dimmer value
			Tint (-25/+25)	Use the 2nd rotary knob to choose the tint (+/- green) value.
			CCT (2800K ÷ 10000K)	Use the 3rd rotary knob to select the CCT value.
		HSI	Dimmer (000÷255)	Use the 1st rotary knob to set the DImmer value.
			Hue (000÷255)	Use the 2nd rotary knob to choose the color point.
			Saturation (000÷255)	Use the 3rd rotary knob to select the Saturation of the selected color.

	XY	Dimmer (000÷255)		Use the 1st rotary knob to set the Dimmer value
		X (0.00÷0.85)		Use the 2nd rotary knob to set the X coordinate value.
		Y (0.00÷0.85)		Use the 3rd rotary knob to set the Y coordinate value.
	Color Macro	Dimmer Macro		Color gel list: Open, Red, Green, Blue, Cyan, Magenta, Yellow, Dirty White, Alice Blue, Congo Blue, Dark Steel Blue, Deep Lavender, Lilac Ting, Daylight Blue, Flame Red, Bastard Amber, Deep Orange, Pale Gold, Apricot, Bright Blue, Primary Green, Special Lavender, Pale Lavender, Deep Golden Amber, Medium Blue, Bright Pink, Mauve, Dark Green, Lee Green, Dark Blue, Light Blue, Steel Blue, Medium Blue-Green, Peacock Blue, Magenta, Dark Pink, Middle Rose, Light Salmon, English Rose, Light Rose, Orange, Deep Amber, Straw, Light Amber, Spring Yellow, Dark Yellow Green, Just Blue, Sky Blue, Lavender, Light Lavender, Pink Carnation, Medium Pink, Light Pink, Sunset Red, Dark Amber, Gold Amber, Medium Amber, Fire, Surprise Peach, Straw Tint, Medium Yellow, Lee Minus Green, Pale Gold, Orange, Deep Straw, Rose Purple, Deep Purple, Soft Green
	Color Temperature	2800K 3200K 3500K 4000K 4500K 5000K 5600K 6000K 6500K 7000K 7500K 8000K 8500K 9000K 9500K 10000K	Hue (-025÷025) Dimmer (000÷255)	Select a predefined White CCT output from the list.
	Fixed Color	R G B W GB RB RG RGB RW GW BW RGW RBW GBW RGBW		Select of the following predefined color combination and its Dimmer value. After enabled this mode, the unit will be automatically assigned as Master.
	Manual Color	Red Green Blue White		User generated color preset by assigning values to each primary color attribute. After enabled this mode, the unit will be automatically assigned as Master

STARTUP BEHAVIOUR

ON ENCODER TOUCH

If ECLPANELTWC is powered ON without DMX signal, it is necessary to scroll a knob (Fig.07 pag.13) to enter in the Standalone mode selected from the menu.

STANDALONE

If ECLPANELTWC is powered ON without DMX signal, the fixture automatically enters in the selected Standalone mode.

FAN MODE

FAN MODE		MAX POWER	FAN SPEED
Constant Output	Auto	100%	Variable from 0% to 100% according to the led temperature to keep constant output.
	On	100%	Fixed Speed: 1760 RPM
	Off	35%	Fixed Speed: 0 RPM
	Silent 1	70%	Fixed Speed: 1280 RPM
	Silent 2	60%	Fixed Speed: 1100 RPM
Dynamic Output	Auto	100%	Variable from 0% to 100% according to the led temperature to keep constant output.
	On	Up to 100%	Fixed Speed: 1760 RPM
	Off	Starts from 100% Max drop -65%	Fixed Speed: 0 RPM
	Silent 1	Starts from 100% Max drop -30%	Fixed Speed: 1280 RPM
	Silent 2	Starts from 100% Max drop -40%	Fixed Speed: 1100 RPM

NOTE

Fan settings through the "Control Channel" are saved permanently on the device. They can be changed again via the "Control Channel" or through the menu;  
The "Fan Control" channel operates as long as that value is being sent to the fixture. At a value of 0, the fixture's fans operate as set in the menu.

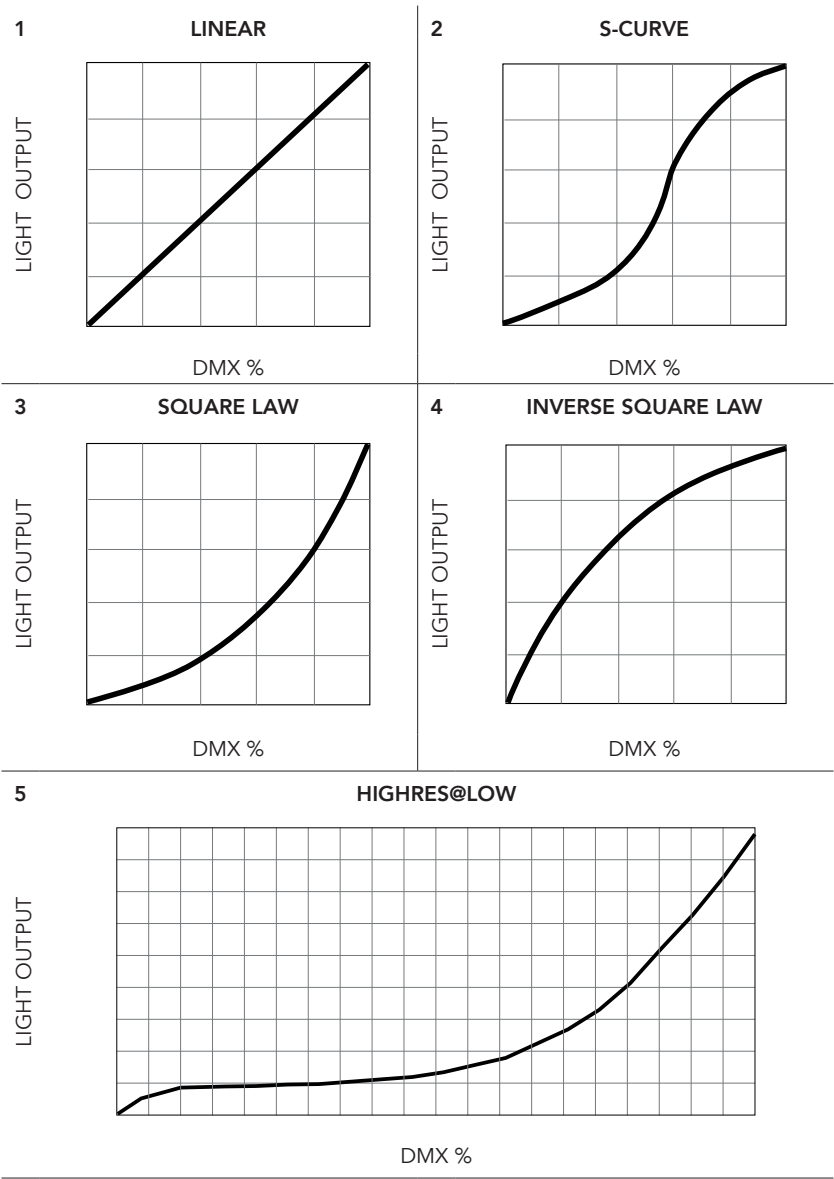
10 - SHORTCUT

KEYS	MODE	DESCRIPTION
UP + DOWN after power on	Flip Display	Directly flip display and knob order without enter inside menu.
DOWN + ENTER then power on	Internal Mode	To select LED Curve in Advanced Menu.
DOWN + ENTER after power on	Enter Standalone Mode	Enter Stand Alone Mode when DMX signal is absent.
UP / DOWN using Stand Alone mode	Stand Alone mode	Scroll through different Stand Alone modes.
ENTER using Stand Alone mode	Stand Alone mode	Scroll through different parameters of the selected mode.

# 11 - DIMMER CURVES

Five dimming modes are available:

- 1. **LINEAR** - The increase in light intensity appears to be linear as DMX value is increased.
- 2. **S-CURVE** - Light intensity control is finer at low levels and high levels and coarser at medium levels.
- 3. **SQUARE LAW** - Light intensity control is finer at low levels and coarser at high levels.
- 4. **INVERSE SQUARE LAW** - Light intensity control is coarser at low levels and finer at high levels.
- 5. **HIGHRES@LOW** - Very Fine control at low light intensity and coarser at medium and high levels.



# 12 - 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.

Category	Parameter	Value	GET	SET
<i>Product Information</i>	SUPPORTED_PARAMETERS	0x0050	x	
	PARAMETER_DESCRIPTION	0x0051	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
<i>Sensors</i>	SENSOR_DEFINITION	0x0200	x	
	SENSOR_VALUE	0x0201	x	x
<i>Dimmer Settings</i>	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
<i>Display Settings</i>	DISPLAY_INVERT	0x0500	x	x

## Manufacturer Specific PIDs

Parameter	PID	GET	SET	Value	Description
SPEKTRA CALIBRATION	0x822F	x	x	0-2	0: ON <b>1:Pure Colors</b> 2:OFF
FACTORY RELOAD	0x8300		x	0-1	0:Standard 1:Film
DIMMER END	0x8302	x	x	0-1	0:Snap OFF <b>1:Fade OFF</b>

# 13 - DMX CHARTS

## THEATER

CH	1 Ch	2 Ch	4 Ch	5 Ch "1"	5 Ch "2"	6 Ch	10 Ch	15 Ch	17 Ch	21 Ch
1	DIMMER	DIMMER	DIMMER	DIMMER	DIMMER	DIMMER	DIMMER	DIMMER	DIMMER	DIMMER
2		DIMMER FADE	CCT	DIMMER FINE	CCT	CCT	RED	DIMMER FINE	DIMMER FINE	DIMMER FINE
3			HUE	CCT	HUE	HUE	GREEN	RED	STROBE	STROBE
4			DIMMER FADE	HUE	STROBE	STROBE	BLUE	RED FINE	CCT	CCT
5				DIMMER FADE	DIMMER FADE	COLOR MACRO	WHITE	GREEN	HUE	HUE
6						DIMMER FADE	CCT	GREEN FINE	CROSSFADE FROM CCT TO COLOR	CROSSFADE FROM CCT TO COLOR
7							HUE	BLUE	RED	RED
8							STROBE	BLUE FINE	RED FINE	RED FINE
9							COLOR MACRO	WHITE	GREEN	GREEN
10							DIMMER FADE	WHITE FINE	GREEN FINE	GREEN FINE
11								CCT	BLUE	BLUE
12								HUE	BLUE FINE	BLUE FINE
13								STROBE	WHITE	WHITE
14								COLOR MACRO	WHITE FINE	WHITE FINE
15								DIMMER FADE	COLOR MACRO	COLOR MACRO
16									CTO ON COLORS	CTO ON COLORS
17									DIMMER FADE	DIMMER FADE
18										FX SELECTION
19										FX SPEED
20										FX FADE
21										CONTROL

## THEATER

1 Ch	2 Ch	4 Ch	5 Ch "1"	5 Ch "2"	6 Ch	10 Ch	15 Ch	17 Ch	21 Ch	FUNCTION	DMX Value	Default
1	1	1	1	1	1	1	1	1	1	<b>DIMMER</b> 0÷100%	000 ÷ 255	000
			2				2	2	2	<b>DIMMER FINE</b> 0÷100%	000 ÷ 255	000
								5	5	<b>HUE</b> 25 to 0 0 0 to +25	000 ÷ 126 127 ÷ 127 128 ÷ 255	127
								6	6	<b>CROSSFADE FROM CCT TO COLOR</b> 0÷100%	000 ÷ 255	000
						2	3	7	7	<b>RED</b> 0÷100%	000 ÷ 255	000
							4	8	8	<b>RED FINE</b> 0÷100%	000 ÷ 255	000
						3	5	9	9	<b>GREEN</b> 0÷100%	000 ÷ 255	000
							6	10	10	<b>GREEN FINE</b> 0÷100%	000 ÷ 255	000
						4	7	11	11	<b>BLUE</b> 0÷100%	000 ÷ 255	000
							8	12	12	<b>BLUE FINE</b> 0÷100%	000 ÷ 255	000
						5	9	13	13	<b>WHITE</b> 0÷100%	000 ÷ 255	000
							10	14	14	<b>WHITE FINE</b> 0÷100%	000 ÷ 255	000
		2	3	2	2			4	4	<b>CCT</b> 2800K - 3200K 3200K - 3500K 3500K - 4000K 4000K - 4500K 4500K - 5000K 5000K - 5600K 5600K - 6000K 6000K - 6500K	000 ÷ 031 032 ÷ 063 064 ÷ 095 096 ÷ 127 128 ÷ 159 160 ÷ 191 192 ÷ 223 224 ÷ 255	000
						6	11			<b>CCT</b> 2800K - 3200K 3200K - 3500K 3500K - 4000K 4000K - 4500K 4500K - 5000K 5000K - 5600K 5600K - 6000K 6000K - 6500K No Function	000 ÷ 030 031 ÷ 060 061 ÷ 090 091 ÷ 120 121 ÷ 150 151 ÷ 180 181 ÷ 210 211 ÷ 240 241 ÷ 255	000
		3	4	3	3	7	12			<b>HUE</b> 0 -25°÷25°	000 ÷ 000 001 ÷ 255	000
				4	4	8	13	3	3	<b>STROBE</b> Closed Strobe slow to fast Open Random slow to fast Open	000 ÷ 030 031 ÷ 100 101 ÷ 130 131 ÷ 200 201 ÷ 255	255
					5	9	14	15		<b>COLOR MACRO</b> No Function Amber Shift on Color Macro	000 ÷ 002 003 ÷ 005 006 ÷ 255	000



1 Ch	2 Ch	4 Ch	5 Ch "1"	5 Ch "2"	6 Ch	10 Ch	15 Ch	17 Ch	21 Ch	FUNCTION	DMX Value	Default
								16	16	<b>CTO ON COLORS</b> 0÷100%	000 ÷ 255	000
	2	4	5	5	6	10	15	17	17	<b>DIMMER FADE</b> Read from menu 0÷100%	000 ÷ 000 001 ÷ 255	000
									18	<b>FX SELECTION</b> No Function Effect 1 Effect 2 Effect 3 Effect 4 Effect 5 Candle Cop Car1 Cop Car2 Cop Car3 Fire Fireworks Paparazzi Television Party Clouds Club Color Chase Strobe Lighting Explosion Fluorescent Process Pulsing Welding	000 ÷ 010 011 ÷ 020 021 ÷ 030 031 ÷ 040 041 ÷ 050 051 ÷ 060 061 ÷ 070 071 ÷ 080 081 ÷ 090 091 ÷ 100 101 ÷ 110 111 ÷ 120 121 ÷ 130 131 ÷ 140 141 ÷ 150 151 ÷ 160 161 ÷ 170 171 ÷ 180 181 ÷ 190 191 ÷ 200 201 ÷ 210 211 ÷ 220 221 ÷ 230 231 ÷ 240 241 ÷ 255	000
									19	<b>FX SPEED</b> 0÷100%	000 ÷ 255	000
									20	<b>FX FADE</b> 0÷100%	000 ÷ 255	000
									21	<b>FUNCTION CHANNEL</b> No Function FAN MODE AUTO CONST. OUT. FAN MODE ON CONST. OUT. FAN MODE OFF CONST. OUT. FAN MODE SILENT 1 CONST. OUT. FAN MODE SILENT 2 CONST. OUT. LED FREQUENCY 600HZ LED FREQUENCY 1200HZ LED FREQUENCY 2000HZ LED FREQUENCY 4000HZ LED FREQUENCY 6000HZ LED FREQUENCY 25KHZ LED FREQUENCY 36KHZ FAN MODE AUTO DYNAMIC OUT. FAN MODE ON DYNAMIC OUT. FAN MODE OFF DYNAMIC OUT. FAN MODE SILENT 1 DYNAMIC OUT. FAN MODE SILENT 2 DYNAMIC OUT. DIMMER SPEED AUTO DIMMER SPEED FAST DIMMER SPEED MEDIUM DIMMER SPEED SLOW DIMMER CURVE LINEAR DIMMER CURVE S-CURVE DIMMER CURVE SQUARE LAW DIMMER CURVE INV. SQUARE LAW DIMMER CURVE HIGH RES@LOW DIMMER END SNAP OFF @ END DIMMER END FADE OFF @ END LED FREQUENCY 10KHZ LED FREQUENCY 12KHZ LED FREQUENCY 15KHZ LED FREQUENCY 20KHZ DIMMER SPEED OFF SPEKTRA CALIBRATION ON SPEKTRA CALIBRATION PURE COLORS SPEKTRA CALIBRATION OFF RESERVED RESET ALL CHANNELS CONTROLLED	000 ÷ 001 002 ÷ 003 004 ÷ 005 006 ÷ 007 008 ÷ 009 010 ÷ 011 012 ÷ 013 014 ÷ 015 016 ÷ 017 018 ÷ 019 020 ÷ 021 022 ÷ 023 024 ÷ 025 026 ÷ 027 028 ÷ 029 030 ÷ 031 032 ÷ 033 034 ÷ 035 036 ÷ 037 038 ÷ 039 040 ÷ 041 042 ÷ 043 044 ÷ 045 046 ÷ 047 048 ÷ 049 050 ÷ 051 052 ÷ 053 054 ÷ 055 056 ÷ 057 058 ÷ 059 060 ÷ 061 062 ÷ 063 064 ÷ 065 066 ÷ 067 068 ÷ 069 070 ÷ 071 072 ÷ 073 074 ÷ 253 254 ÷ 255	000

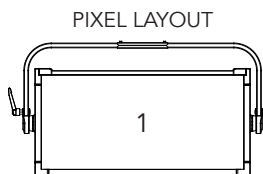
1 Ch	2 Ch	4 Ch	5 Ch "1"	5 Ch "2"	6 Ch	10 Ch	15 Ch	17 Ch	21 Ch	FUNCTION	DMX Value	Default
										<b>COLOR MACRO</b>		
										Open	000 ÷ 001	
										Red	002 ÷ 003	
										Green	004 ÷ 005	
										Blue	006 ÷ 007	
										Cyan	008 ÷ 009	
										Magenta	010 ÷ 011	
										Yellow	012 ÷ 013	
										Dirty White	014 ÷ 015	
										Alice Blue	016 ÷ 017	
										Congo Blue	018 ÷ 019	
										Dark Steel Blue	020 ÷ 021	
										Deep Lavender	022 ÷ 023	
										Lilac Ting	024 ÷ 025	
										Daylight Blue	026 ÷ 027	
										Flame Red	028 ÷ 029	
										Bastard Amber	030 ÷ 031	
										Deep Orange	032 ÷ 033	
										Pale Gold	034 ÷ 035	
										Apricot	036 ÷ 037	
										Bright Blue	038 ÷ 039	
										Primary Green	040 ÷ 041	
										Special Lavender	042 ÷ 043	
										Pale Lavender	044 ÷ 045	
										Deep Golden Amber	046 ÷ 047	
										Medium Blue	048 ÷ 049	
										Bright Pink	050 ÷ 051	
									15	Mauve	052 ÷ 053	
										Dark Green	054 ÷ 055	000
										Lee Green	056 ÷ 057	
										Dark Blue	058 ÷ 059	
										Light Blue	060 ÷ 061	
										Steel Blue	062 ÷ 063	
										Medium Blue-Green	064 ÷ 065	
										Peacock Blue	066 ÷ 067	
										Magenta	068 ÷ 069	
										Dark Pink	070 ÷ 071	
										Middle Rose	072 ÷ 073	
										Light Salmon	074 ÷ 075	
										English Rose	076 ÷ 077	
										Light Rose	078 ÷ 079	
										Orange	080 ÷ 081	
										Deep Amber	082 ÷ 083	
										Straw	084 ÷ 085	
										Light Amber	086 ÷ 087	
										Spring Yellow	088 ÷ 089	
										Dark Yellow Green	090 ÷ 091	
										Just Blue	092 ÷ 093	
										Sky Blue	094 ÷ 095	
										Lavender	096 ÷ 097	
										Light Lavender	098 ÷ 099	
										Pink Carnation	100 ÷ 101	
										Medium Pink	102 ÷ 103	
										Light Pink	104 ÷ 105	
										Sunset Red	106 ÷ 107	
										Dark Amber	108 ÷ 109	
										Gold Amber	110 ÷ 111	

1 Ch	2 Ch	4 Ch	5 Ch "1"	5 Ch "2"	6 Ch	10 Ch	15 Ch	17 Ch	21 Ch	FUNCTION	DMX Value	Default
										Medium Amber	112 ÷ 113	
										Fire	114 ÷ 115	
										Surprise Peach	116 ÷ 117	
										Straw Tint	118 ÷ 119	
										Medium Yellow	120 ÷ 121	
										Lee Minus Green	122 ÷ 123	
										Pale Gold	124 ÷ 125	
										Orange	126 ÷ 127	
										Deep Straw	128 ÷ 129	
										Rose Purple	130 ÷ 131	
										Deep Purple	132 ÷ 133	
										Soft Green	134 ÷ 135	
										Reserved	136 ÷ 211	
										2800K	212 ÷ 213	
										3000K	214 ÷ 215	
										3200K	216 ÷ 217	
										3400K	218 ÷ 219	
									15	3600K	220 ÷ 221	000
										3800K	222 ÷ 223	
										4000K	224 ÷ 225	
										4200K	226 ÷ 227	
										4400K	228 ÷ 229	
										4600K	230 ÷ 231	
										4800K	232 ÷ 233	
										5000K	234 ÷ 235	
										5200K	236 ÷ 237	
										5400K	238 ÷ 239	
										5600K	240 ÷ 241	
										6000K	242 ÷ 243	
										6500K	244 ÷ 245	
										7000K	246 ÷ 247	
										8000K	248 ÷ 249	
										9000K	250 ÷ 251	
										10000K	252 ÷ 253	
										Full On	254 ÷ 255	

## FILM

Ch	12Ch	20Ch	17Ch	33Ch	XY
1	DIMMER	DIMMER	PIXEL 1 DIMMER	PIXEL 1 DIMMER	DIMMER
2	CCT	DIMMER FINE	PIXEL 1 CCT	PIXEL 1 DIMMER FINE	DIMMER FINE
3	HUE	CCT	PIXEL 1 HUE	PIXEL 1 CCT	STROBE
4	CROSSFADE FROM CCT TO COLOR	CCT FINE	PIXEL 1 CROSSFADE FROM CCT TO COLOR	PIXEL 1 CCT FINE	CCT
5	RED	HUE	PIXEL 1 RED	PIXEL 1 HUE	TINT
6	GREEN	HUE FINE	PIXEL 1 GREEN	PIXEL 1 HUE FINE	X 1
7	BLUE	CROSSFADE FROM CCT TO COLOR	PIXEL 1 BLUE	PIXEL 1 CROSSFADE FROM CCT TO COLOR	X 1 FINE
8	WHITE	CROSSFADE FROM CCT TO COLOR FINE	PIXEL 1 WHITE	PIXEL 1 CROSSFADE FROM CCT TO COLOR FINE	Y 1
9	FAN CONTROL	RED	PIXEL 2 DIMMER	PIXEL 1 RED	Y 1 FINE
10	COLOR MACRO	RED FINE	PIXEL 2 CCT	PIXEL 1 RED FINE	CROSSFADE FROM LAYER 1 TO LAYER 2
11	STROBE	GREEN	PIXEL 2 HUE	PIXEL 1 GREEN	X 2
12	CONTROL	GREEN FINE	PIXEL 2 CROSSFADE FROM CCT TO COLOR	PIXEL 1 GREEN FINE	X 2 FINE
13		BLUE	PIXEL 2 RED	PIXEL 1 BLUE	Y 2
14		BLUE FINE	PIXEL 2 GREEN	PIXEL 1 BLUE FINE	Y 2 FINE
15		WHITE	PIXEL 2 BLUE	PIXEL 1 WHITE	COLOR MACRO
16		WHITE FINE	PIXEL 2 WHITE	PIXEL 1 WHITE FINE	CTO ON COLORS
17		FAN CONTROL	CONTROL	PIXEL 2 DIMMER	CONTROL
18		COLOR MACRO		PIXEL 2 DIMMER FINE	
19		STROBE		PIXEL 2 CCT	
20		CONTROL		PIXEL 2 CCT FINE	
21				PIXEL 2 HUE	
22				PIXEL 2 HUE FINE	
23				PIXEL 2 CROSSFADE FROM CCT TO COLOR	
24				PIXEL 2 CROSSFADE FROM CCT TO COLOR FINE	
25				PIXEL 2 RED	
26				PIXEL 2 RED FINE	
27				PIXEL 2 GREEN	
28				PIXEL 2 GREEN FINE	
29				PIXEL 2 BLUE	
30				PIXEL 2 BLUE FINE	
31				PIXEL 2 WHITE	
32				PIXEL 2 WHITE FINE	
33				CONTROL	

**FILM**  
**1M12CH**

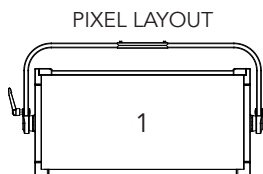


12Ch	FUNCTION	DMX Value	Default
1	<b>DIMMER</b> 0÷100%	000 ÷ 255	000
2	<b>CCT</b> 2800K - 3000K 3000K - 3200K 3200K - 3400K 3400K - 3600K 3600K - 3800K 3800K - 4000K 4000K - 4200K 4200K - 4400K 4400K - 4600K 4600K - 4800K 4800K - 5000K 5000K - 5200K 5200K - 5400K 5400K - 5600K 5600K - 5800K 5800K - 6000K 6000K - 6200K 6200K - 6400K 6400K - 6600K 6600K - 6800K 6800K - 7000K 7000K - 7200K 7200K - 7400K 7400K - 7600K 7600K - 7800K 7800K - 8000K 8000K - 8200K 8200K - 8400K 8400K - 8600K 8600K - 8800K 8800K - 9000K 9000K - 9200K 9200K - 9400K 9400K - 9600K 9600K - 9800K 9800K - 10000K	000 ÷ 007 007 ÷ 014 014 ÷ 021 021 ÷ 028 028 ÷ 035 035 ÷ 042 042 ÷ 049 049 ÷ 056 056 ÷ 063 063 ÷ 070 070 ÷ 077 077 ÷ 084 084 ÷ 091 091 ÷ 098 098 ÷ 105 105 ÷ 112 112 ÷ 119 119 ÷ 126 126 ÷ 133 133 ÷ 140 140 ÷ 147 147 ÷ 154 154 ÷ 161 161 ÷ 168 168 ÷ 175 175 ÷ 182 182 ÷ 189 189 ÷ 196 196 ÷ 203 203 ÷ 210 210 ÷ 217 217 ÷ 224 224 ÷ 231 231 ÷ 238 238 ÷ 245 245 ÷ 255	000
3	<b>HUE</b> Neutral / no effect Full minus green -99% --> -1% Neutral / no effect 1% --> 99% Full plus green	000 ÷ 010 011 ÷ 020 021 ÷ 119 120 ÷ 145 146 ÷ 244 245 ÷ 255	000
4	<b>CROSSFADE FROM CCT TO COLOR</b> 0÷100%	000 ÷ 255	000
5	<b>RED</b> 0÷100%	000 ÷ 255	000
6	<b>GREEN</b> 0÷100%	000 ÷ 255	000
7	<b>BLUE</b> 0÷100%	000 ÷ 255	000
8	<b>WHITE</b> 0÷100%	000 ÷ 255	000

12Ch	FUNCTION	DMX Value	Default
9	<b>FAN CONTROL</b>		
	Use Fan Mode setting of fixture menu	000 ÷ 009	000
	SILENT 1 Mode (Dynamic Output)	010 ÷ 057	
	AUTO Mode (Dynamic Output)	058 ÷ 105	
	ON Mode (Dynamic Output)	106 ÷ 153	
	Not Used	154 ÷ 201	
	SILENT 2 Mode (Dynamic Output)	202 ÷ 249	
10	OFF Mode (Dynamic Output)	250 ÷ 255	000
	<b>COLOR MACRO</b>		
	Open	000 ÷ 001	
	Red	002 ÷ 003	
	Green	004 ÷ 005	
	Blue	006 ÷ 007	
	Cyan	008 ÷ 009	
	Magenta	010 ÷ 011	
	Yellow	012 ÷ 013	
	Dirty White	014 ÷ 015	
	Alice Blue	016 ÷ 017	
	Congo Blue	018 ÷ 019	
	Dark Steel Blue	020 ÷ 021	
	Deep Lavender	022 ÷ 023	
	Lilac Ting	024 ÷ 025	
	Daylight Blue	026 ÷ 027	
	Flame Red	028 ÷ 029	
	Bastard Amber	030 ÷ 031	
	Deep Orange	032 ÷ 033	
	Pale Gold	034 ÷ 035	
	Apricot	036 ÷ 037	
	Bright Blue	038 ÷ 039	
	Primary Green	040 ÷ 041	
	Special Lavender	042 ÷ 043	
	Pale Lavender	044 ÷ 045	
	Deep Golden Amber	046 ÷ 047	
	Medium Blue	048 ÷ 049	
	Bright Pink	050 ÷ 051	
	Mauve	052 ÷ 053	
	Dark Green	054 ÷ 055	
	Lee Green	056 ÷ 057	
	Dark Blue	058 ÷ 059	
	Light Blue	060 ÷ 061	
	Steel Blue	062 ÷ 063	
	Medium Blue-Green	064 ÷ 065	
	Peacock Blue	066 ÷ 067	
	Magenta	068 ÷ 069	
	Dark Pink	070 ÷ 071	
	Middle Rose	072 ÷ 073	
	Light Salmon	074 ÷ 075	
	English Rose	076 ÷ 077	
	Light Rose	078 ÷ 079	
	Orange	080 ÷ 081	
	Deep Amber	082 ÷ 083	
	Straw	084 ÷ 085	
	Light Amber	086 ÷ 087	
	Spring Yellow	088 ÷ 089	
	Dark Yellow Green	090 ÷ 091	
	Just Blue	092 ÷ 093	
	Sky Blue	094 ÷ 095	
	Lavender	096 ÷ 097	
	Light Lavender	098 ÷ 099	

12Ch	FUNCTION	DMX Value	Default
10	Pink Carnation	100 ÷ 101	000
	Medium Pink	102 ÷ 103	
	Light Pink	104 ÷ 105	
	Sunset Red	106 ÷ 107	
	Dark Amber	108 ÷ 109	
	Gold Amber	110 ÷ 111	
	Medium Amber	112 ÷ 113	
	Fire	114 ÷ 115	
	Surprise Peach	116 ÷ 117	
	Straw Tint	118 ÷ 119	
	Medium Yellow	120 ÷ 121	
	Lee Minus Green	122 ÷ 123	
	Pale Gold	124 ÷ 125	
	Orange	126 ÷ 127	
	Deep Straw	128 ÷ 129	
	Rose Purple	130 ÷ 131	
	Deep Purple	132 ÷ 133	
	Soft Green	134 ÷ 135	
	Reserved	136 ÷ 211	
	2800K	212 ÷ 213	
	3000K	214 ÷ 215	
	3200K	216 ÷ 217	
	3400K	218 ÷ 219	
	3600K	220 ÷ 221	
	3800K	222 ÷ 223	
	4000K	224 ÷ 225	
	4200K	226 ÷ 227	
	4400K	228 ÷ 229	
	4600K	230 ÷ 231	
	4800K	232 ÷ 233	
	5000K	234 ÷ 235	
	5200K	236 ÷ 237	
	5400K	238 ÷ 239	
	5600K	240 ÷ 241	
	6000K	242 ÷ 243	
	6500K	244 ÷ 245	
	7000K	246 ÷ 247	
	8000K	248 ÷ 249	
	9000K	250 ÷ 251	
	10000K	252 ÷ 253	
	Full On	254 ÷ 255	
11	<b>STROBE</b>		000
	Open 1 flash/s -> 25 flashes/s	000-019 020-255	
12	<b>FUNCTION CHANNEL</b>		000
	SAFE	000-001	
	FAN MODE AUTO(Constant Output)	002-003	
	FAN MODE ON(Constant Output)	004-005	
	FAN MODE OFF(Constant Output)	006-007	
	FAN MODE SILENT 1(Constant Output)	008-009	
	FAN MODE SILENT 2(Constant Output)	010-011	
	LED FREQUENCY 600HZ	012-013	
	LED FREQUENCY 1200HZ	014-015	
	LED FREQUENCY 2000HZ	016-017	
	LED FREQUENCY 4000HZ	018-019	
	LED FREQUENCY 6000HZ	020-021	
	LED FREQUENCY 25KHZ	022-023	
	LED FREQUENCY 36KHZ	024-025	
	FAN MODE AUTO(Dynamic Output)	026-027	
	FAN MODE ON(Dynamic Output)	028-029	
	FAN MODE OFF(Dynamic Output)	030-031	
	FAN MODE SILENT 1(Dynamic Output)	032-033	
	FAN MODE SILENT 2(Dynamic Output)	034-035	
	DIMMER SPEED AUTO	036-037	
	DIMMER SPEED FAST	038-039	
	DIMMER SPEED MEDIUM	040-041	
	DIMMER SPEED SLOW	042-043	
	DIMMER CURVE LINEAR	044-045	
	DIMMER CURVE S-CURVE	046-047	
	DIMMER CURVE SQUARE LAW	048-049	
	DIMMER CURVE INV. SQUARE LAW	050-051	
	DIMMER CURVE HIGH RES @LOW	052-053	
	DIMMER END SNAP OFF @ END	054-055	
	DIMMER END FADE OFF @ END	056-057	
	LED FREQUENCY 10KHZ	058-059	
	LED FREQUENCY 12KHZ	060-061	
	LED FREQUENCY 15KHZ	062-063	
	LED FREQUENCY 20KHZ	064-065	
	DIMMER SPEED OFF	066-067	
	SPEKTRA CALIBRATION ON	068-069	
	SPEKTRA CALIBRATION PURE COLORS	070-071	
	SPEKTRA CALIBRATION OFF	072-073	
	RESERVED	074-253	
	RESET ALL CHANNELS CONTROLLED	254-255	

**FILM**  
**2M20CH**



20Ch	FUNCTION	DMX Value	Default
1	<b>DIMMER</b> 0÷100%	000 ÷ 255	000
2	<b>DIMMER FINE</b>	000 ÷ 255	000
3	<b>CCT</b> 2800K - 3000K 3000K - 3200K 3200K - 3400K 3400K - 3600K 3600K - 3800K 3800K - 4000K 4000K - 4200K 4200K - 4400K 4400K - 4600K 4600K - 4800K 4800K - 5000K 5000K - 5200K 5200K - 5400K 5400K - 5600K 5600K - 5800K 5800K - 6000K 6000K - 6200K 6200K - 6400K 6400K - 6600K 6600K - 6800K 6800K - 7000K 7000K - 7200K 7200K - 7400K 7400K - 7600K 7600K - 7800K 7800K - 8000K 8000K - 8200K 8200K - 8400K 8400K - 8600K 8600K - 8800K 8800K - 9000K 9000K - 9200K 9200K - 9400K 9400K - 9600K 9600K - 9800K 9800K - 10000K	000 ÷ 007 007 ÷ 014 014 ÷ 021 021 ÷ 028 028 ÷ 035 035 ÷ 042 042 ÷ 049 049 ÷ 056 056 ÷ 063 063 ÷ 070 070 ÷ 077 077 ÷ 084 084 ÷ 091 091 ÷ 098 098 ÷ 105 105 ÷ 112 112 ÷ 119 119 ÷ 126 126 ÷ 133 133 ÷ 140 140 ÷ 147 147 ÷ 154 154 ÷ 161 161 ÷ 168 168 ÷ 175 175 ÷ 182 182 ÷ 189 189 ÷ 196 196 ÷ 203 203 ÷ 210 210 ÷ 217 217 ÷ 224 224 ÷ 231 231 ÷ 238 238 ÷ 245 245 ÷ 255	000
4	<b>CCT FINE</b>	000 ÷ 255	000
5	<b>HUE</b> Neutral / no effect Full minus green -99% --> -1% Neutral / no effect 1% --> 99% Full plus green	000 ÷ 010 011 ÷ 020 021 ÷ 119 120 ÷ 145 146 ÷ 244 245 ÷ 255	000
6	<b>HUE FINE</b>	000 ÷ 255	000
7	<b>CROSSFADE FROM CCT TO COLOR</b> 0÷100%	000 ÷ 255	000
8	<b>CROSSFADE FROM CCT TO COLOR FINE</b>	000 ÷ 255	000
9	<b>RED</b> 0÷100%	000 ÷ 255	000
10	<b>RED FINE</b>	000 ÷ 255	000

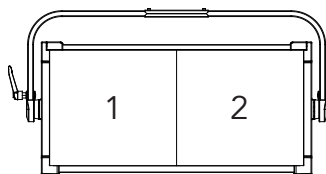


20Ch	FUNCTION	DMX Value	Default
11	<b>GREEN</b> 0÷100%	000 ÷ 255	000
12	<b>GREEN FINE</b>	000 ÷ 255	000
13	<b>BLUE</b> 0÷100%	000 ÷ 255	000
14	<b>BLUE FINE</b>	000 ÷ 255	000
15	<b>WHITE</b> 0÷100%	000 ÷ 255	000
16	<b>WHITE FINE</b>	000 ÷ 255	000
17	<b>FAN CONTROL</b> Use Fan Mode setting of fixture menu SILENT 1 Mode (Dynamic Output) AUTO Mode (Dynamic Output) ON Mode (Dynamic Output) Not Used SILENT 2 Mode (Dynamic Output) OFF Mode (Dynamic Output)	000 ÷ 009 010 ÷ 057 058 ÷ 105 106 ÷ 153 154 ÷ 201 202 ÷ 249 250 ÷ 255	000
18	<b>COLOR MACRO</b> Open Red Green Blue Cyan Magenta Yellow Dirty White Alice Blue Congo Blue Dark Steel Blue Deep Lavender Lilac Ting Daylight Blue Flame Red Bastard Amber Deep Orange Pale Gold Apricot Bright Blue Primary Green Special Lavender Pale Lavender Deep Golden Amber Medium Blue Bright Pink Mauve Dark Green Lee Green Dark Blue Light Blue Steel Blue Medium Blue-Green Peacock Blue Magenta Dark Pink Middle Rose Light Salmon English Rose Light Rose Orange Deep Amber Straw Light Amber Spring Yellow Dark Yellow Green Just Blue Sky Blue Lavender Light Lavender	000 ÷ 001 002 ÷ 003 004 ÷ 005 006 ÷ 007 008 ÷ 009 010 ÷ 011 012 ÷ 013 014 ÷ 015 016 ÷ 017 018 ÷ 019 020 ÷ 021 022 ÷ 023 024 ÷ 025 026 ÷ 027 028 ÷ 029 030 ÷ 031 032 ÷ 033 034 ÷ 035 036 ÷ 037 038 ÷ 039 040 ÷ 041 042 ÷ 043 044 ÷ 045 046 ÷ 047 048 ÷ 049 050 ÷ 051 052 ÷ 053 054 ÷ 055 056 ÷ 057 058 ÷ 059 060 ÷ 061 062 ÷ 063 064 ÷ 065 066 ÷ 067 068 ÷ 069 070 ÷ 071 072 ÷ 073 074 ÷ 075 076 ÷ 077 078 ÷ 079 080 ÷ 081 082 ÷ 083 084 ÷ 085 086 ÷ 087 088 ÷ 089 090 ÷ 091 092 ÷ 093 094 ÷ 095 096 ÷ 097 098 ÷ 099	000

20Ch	FUNCTION	DMX Value	Default
18	Pink Carnation	100 ÷ 101	000
	Medium Pink	102 ÷ 103	
	Light Pink	104 ÷ 105	
	Sunset Red	106 ÷ 107	
	Dark Amber	108 ÷ 109	
	Gold Amber	110 ÷ 111	
	Medium Amber	112 ÷ 113	
	Fire	114 ÷ 115	
	Surprise Peach	116 ÷ 117	
	Straw Tint	118 ÷ 119	
	Medium Yellow	120 ÷ 121	
	Lee Minus Green	122 ÷ 123	
	Pale Gold	124 ÷ 125	
	Orange	126 ÷ 127	
	Deep Straw	128 ÷ 129	
	Rose Purple	130 ÷ 131	
	Deep Purple	132 ÷ 133	
	Soft Green	134 ÷ 135	
	Reserved	136 ÷ 211	
	2800K	212 ÷ 213	
	3000K	214 ÷ 215	
	3200K	216 ÷ 217	
	3400K	218 ÷ 219	
	3600K	220 ÷ 221	
	3800K	222 ÷ 223	
	4000K	224 ÷ 225	
	4200K	226 ÷ 227	
	4400K	228 ÷ 229	
	4600K	230 ÷ 231	
	4800K	232 ÷ 233	
	5000K	234 ÷ 235	
	5200K	236 ÷ 237	
	5400K	238 ÷ 239	
	5600K	240 ÷ 241	
	6000K	242 ÷ 243	
	6500K	244 ÷ 245	
	7000K	246 ÷ 247	
	8000K	248 ÷ 249	
	9000K	250 ÷ 251	
	10000K	252 ÷ 253	
	Full On	254 ÷ 255	
19	<b>STROBE</b>		000
	Open 1 flash/s -> 25 flashes/s	000-019 020-255	
20	<b>FUNCTION CHANNEL</b>		000
	SAFE	000-001	
	FAN MODE AUTO(Constant Output)	002-003	
	FAN MODE ON(Constant Output)	004-005	
	FAN MODE OFF(Constant Output)	006-007	
	FAN MODE SILENT 1(Constant Output)	008-009	
	FAN MODE SILENT 2(Constant Output)	010-011	
	LED FREQUENCY 600HZ	012-013	
	LED FREQUENCY 1200HZ	014-015	
	LED FREQUENCY 2000HZ	016-017	
	LED FREQUENCY 4000HZ	018-019	
	LED FREQUENCY 6000HZ	020-021	
	LED FREQUENCY 25KHZ	022-023	
	LED FREQUENCY 36KHZ	024-025	
	FAN MODE AUTO(Dynamic Output)	026-027	
	FAN MODE ON(Dynamic Output)	028-029	
	FAN MODE OFF(Dynamic Output)	030-031	
	FAN MODE SILENT 1(Dynamic Output)	032-033	
	FAN MODE SILENT 2(Dynamic Output)	034-035	
	DIMMER SPEED AUTO	036-037	
	DIMMER SPEED FAST	038-039	
	DIMMER SPEED MEDIUM	040-041	
	DIMMER SPEED SLOW	042-043	
	DIMMER CURVE LINEAR	044-045	
	DIMMER CURVE S-CURVE	046-047	
	DIMMER CURVE SQUARE LAW	048-049	
	DIMMER CURVE INV. SQUARE LAW	050-051	
	DIMMER CURVE HIGH RES @LOW	052-053	
	DIMMER END SNAP OFF @ END	054-055	
	DIMMER END FADE OFF @ END	056-057	
	LED FREQUENCY 10KHZ	058-059	
	LED FREQUENCY 12KHZ	060-061	
	LED FREQUENCY 15KHZ	062-063	
	LED FREQUENCY 20KHZ	064-065	
	DIMMER SPEED OFF	066-067	
	SPEKTRA CALIBRATION ON	068-069	
	SPEKTRA CALIBRATION PURE COLORS	070-071	
	SPEKTRA CALIBRATION OFF	072-073	
	CROSSFADE TYPE STANDARD	074-075	
	CROSSFADE TYPE SUBTRACTIVE	076-077	
	RESERVED	078-253	
	RESET ALL CHANNELS CONTROLLED	254-255	

**FILM**  
**3M17CH**

PIXEL LAYOUT



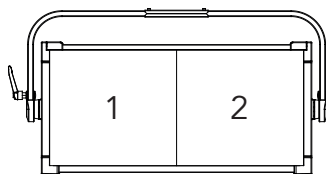
17Ch	FUNCTION	DMX Value	Default
1	<b>PIXEL 1 DIMMER</b> 0÷100%	000 ÷ 255	000
2	<b>PIXEL 1 CCT</b> 2800K - 3000K 3000K - 3200K 3200K - 3400K 3400K - 3600K 3600K - 3800K 3800K - 4000K 4000K - 4200K 4200K - 4400K 4400K - 4600K 4600K - 4800K 4800K - 5000K 5000K - 5200K 5200K - 5400K 5400K - 5600K 5600K - 5800K 5800K - 6000K 6000K - 6200K 6200K - 6400K 6400K - 6600K 6600K - 6800K 6800K - 7000K 7000K - 7200K 7200K - 7400K 7400K - 7600K 7600K - 7800K 7800K - 8000K 8000K - 8200K 8200K - 8400K 8400K - 8600K 8600K - 8800K 8800K - 9000K 9000K - 9200K 9200K - 9400K 9400K - 9600K 9600K - 9800K 9800K - 10000K	000 ÷ 007 007 ÷ 014 014 ÷ 021 021 ÷ 028 028 ÷ 035 035 ÷ 042 042 ÷ 049 049 ÷ 056 056 ÷ 063 063 ÷ 070 070 ÷ 077 077 ÷ 084 084 ÷ 091 091 ÷ 098 098 ÷ 105 105 ÷ 112 112 ÷ 119 119 ÷ 126 126 ÷ 133 133 ÷ 140 140 ÷ 147 147 ÷ 154 154 ÷ 161 161 ÷ 168 168 ÷ 175 175 ÷ 182 182 ÷ 189 189 ÷ 196 196 ÷ 203 203 ÷ 210 210 ÷ 217 217 ÷ 224 224 ÷ 231 231 ÷ 238 238 ÷ 245 245 ÷ 255	000
3	<b>PIXEL 1 HUE</b> Neutral / no effect Full minus green -99% --> -1% Neutral / no effect 1% --> 99% Full plus green	000 ÷ 010 011 ÷ 020 021 ÷ 119 120 ÷ 145 146 ÷ 244 245 ÷ 255	000
4	<b>PIXEL 1 CROSSFADE FROM CCT TO COLOR</b> 0÷100%	000 ÷ 255	000
5	<b>PIXEL 1 RED</b> 0÷100%	000 ÷ 255	000

17Ch	FUNCTION	DMX Value	Default
6	<b>PIXEL 1 GREEN</b> 0÷100%	000 ÷ 255	000
7	<b>PIXEL 1 BLUE</b> 0÷100%	000 ÷ 255	000
8	<b>PIXEL 1 WHITE</b> 0÷100%	000 ÷ 255	000
9	<b>PIXEL 2 DIMMER</b> 0÷100%	000 ÷ 255	000
10	<b>PIXEL 2 CCT</b> 2800K - 3000K 3000K - 3200K 3200K - 3400K 3400K - 3600K 3600K - 3800K 3800K - 4000K 4000K - 4200K 4200K - 4400K 4400K - 4600K 4600K - 4800K 4800K - 5000K 5000K - 5200K 5200K - 5400K 5400K - 5600K 5600K - 5800K 5800K - 6000K 6000K - 6200K 6200K - 6400K 6400K - 6600K 6600K - 6800K 6800K - 7000K 7000K - 7200K 7200K - 7400K 7400K - 7600K 7600K - 7800K 7800K - 8000K 8000K - 8200K 8200K - 8400K 8400K - 8600K 8600K - 8800K 8800K - 9000K 9000K - 9200K 9200K - 9400K 9400K - 9600K 9600K - 9800K 9800K - 10000K	000 ÷ 007 007 ÷ 014 014 ÷ 021 021 ÷ 028 028 ÷ 035 035 ÷ 042 042 ÷ 049 049 ÷ 056 056 ÷ 063 063 ÷ 070 070 ÷ 077 077 ÷ 084 084 ÷ 091 091 ÷ 098 098 ÷ 105 105 ÷ 112 112 ÷ 119 119 ÷ 126 126 ÷ 133 133 ÷ 140 140 ÷ 147 147 ÷ 154 154 ÷ 161 161 ÷ 168 168 ÷ 175 175 ÷ 182 182 ÷ 189 189 ÷ 196 196 ÷ 203 203 ÷ 210 210 ÷ 217 217 ÷ 224 224 ÷ 231 231 ÷ 238 238 ÷ 245 245 ÷ 255	000
11	<b>PIXEL 2 HUE</b> Neutral / no effect Full minus green -99% --> -1% Neutral / no effect 1% --> 99% Full plus green	000 ÷ 010 011 ÷ 020 021 ÷ 119 120 ÷ 145 146 ÷ 244 245 ÷ 255	000
12	<b>PIXEL 2 CROSSFADE FROM CCT TO COLOR</b> 0÷100%	000 ÷ 255	000
13	<b>PIXEL 2 RED</b> 0÷100%	000 ÷ 255	000
14	<b>PIXEL 2 GREEN</b> 0÷100%	000 ÷ 255	000
15	<b>PIXEL 2 BLUE</b> 0÷100%	000 ÷ 255	000
16	<b>PIXEL 2 WHITE</b> 0÷100%	000 ÷ 255	000

17Ch	FUNCTION	DMX Value	Default
17	<b>FUNCTION CHANNEL</b>		
	USE FAN MODE SETTING OF FIXTURE MENU	000-009	
	FAN MODE SILENT 1 (Dynamic Output)	010-057	
	FAN MODE AUTO (Dynamic Output)	058-105	
	FAN MODE ON (Dynamic Output)	106-153	
	FAN MODE AUTO (Constant Output)	154-155	
	FAN MODE SILENT 1 (Constant Output)	156-157	
	FAN MODE SILENT 2 (Constant Output)	158-159	
	FAN MODE ON (Constant Output)	160-161	
	FAN MODE OFF (Constant Output)	162-163	
	DIMMER SPEED AUTO	164-165	
	DIMMER SPEED FAST	166-167	
	DIMMER SPEED MEDIUM	168-169	
	DIMMER SPEED SLOW	170-171	
	DIMMER CURVE LINEAR	172-173	
	DIMMER CURVE S-CURVE	174-175	
	DIMMER CURVE SQUARE LAW	176-177	
	DIMMER CURVE INV. SQUARE LAW	178-179	
	DIMMER CURVE HIGH RES@LOW	180-181	
	LED FREQUENCY 600HZ	182-183	
	LED FREQUENCY 1200HZ	184-185	
	LED FREQUENCY 2000HZ	186-187	
	LED FREQUENCY 4000HZ	188-189	
	LED FREQUENCY 6000HZ	190-191	
	LED FREQUENCY 25KHZ	192-193	
	LED FREQUENCY 36KHZ	194-195	
	DIMMER END SNAP OFF @ END	196-197	
	RESET ALL CHANNELS CONTROLLED	198-199	
	DIMMER END FADE OFF @ END	200-201	
	FAN MODE SILENT 2 (Dynamic Output)	202-203	
	LED FREQUENCY 10KHZ	204-205	
	LED FREQUENCY 12KHZ	206-207	
	LED FREQUENCY 15KHZ	208-209	
	LED FREQUENCY 20KHZ	210-211	
	DIMMER SPEED OFF	212-213	
	SPEKTRA CALIBRATION ON	214-215	
	SPEKTRA CALIBRATION PURE COLORS	216-217	
	SPEKTRA CALIBRATION OFF	218-219	
	RESERVED	220-249	
	FAN MODE OFF (Dynamic Output)	250-255	

**FILM**  
**4M33CH**

PIXEL LAYOUT



33Ch	FUNCTION	DMX Value	Default
1	<b>PIXEL 1 DIMMER</b> 0÷100%	000 ÷ 255	000
2	<b>PIXEL 1 DIMMER FINE</b>	000 ÷ 255	000
3	<b>PIXEL 1 CCT</b> 2800K - 3000K 3000K - 3200K 3200K - 3400K 3400K - 3600K 3600K - 3800K 3800K - 4000K 4000K - 4200K 4200K - 4400K 4400K - 4600K 4600K - 4800K 4800K - 5000K 5000K - 5200K 5200K - 5400K 5400K - 5600K 5600K - 5800K 5800K - 6000K 6000K - 6200K 6200K - 6400K 6400K - 6600K 6600K - 6800K 6800K - 7000K 7000K - 7200K 7200K - 7400K 7400K - 7600K 7600K - 7800K 7800K - 8000K 8000K - 8200K 8200K - 8400K 8400K - 8600K 8600K - 8800K 8800K - 9000K 9000K - 9200K 9200K - 9400K 9400K - 9600K 9600K - 9800K 9800K - 10000K	000 ÷ 007 007 ÷ 014 014 ÷ 021 021 ÷ 028 028 ÷ 035 035 ÷ 042 042 ÷ 049 049 ÷ 056 056 ÷ 063 063 ÷ 070 070 ÷ 077 077 ÷ 084 084 ÷ 091 091 ÷ 098 098 ÷ 105 105 ÷ 112 112 ÷ 119 119 ÷ 126 126 ÷ 133 133 ÷ 140 140 ÷ 147 147 ÷ 154 154 ÷ 161 161 ÷ 168 168 ÷ 175 175 ÷ 182 182 ÷ 189 189 ÷ 196 196 ÷ 203 203 ÷ 210 210 ÷ 217 217 ÷ 224 224 ÷ 231 231 ÷ 238 238 ÷ 245 245 ÷ 255	000
4	<b>PIXEL 1 CCT FINE</b>	000 ÷ 255	000
5	<b>PIXEL 1 HUE</b> Neutral / no effect Full minus green -99% --> -1% Neutral / no effect 1% --> 99% Full plus green	000 ÷ 010 011 ÷ 020 021 ÷ 119 120 ÷ 145 146 ÷ 244 245 ÷ 255	000
6	<b>PIXEL 1 HUE FINE</b>	000 ÷ 255	000
7	<b>PIXEL 1 CROSSFADE FROM CCT TO COLOR</b> 0÷100%	000 ÷ 255	000
8	<b>PIXEL 1 CROSSFADE FROM CCT TO COLOR FINE</b>	000 ÷ 255	000
9	<b>PIXEL 1 RED</b> 0÷100%	000 ÷ 255	000

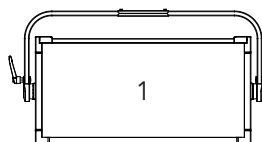
33Ch	FUNCTION	DMX Value	Default
10	PIXEL 1 RED FINE	000 ÷ 255	000
11	PIXEL 1 GREEN 0÷100%	000 ÷ 255	000
12	PIXEL 1 GREEN FINE	000 ÷ 255	000
13	PIXEL 1 BLUE 0÷100%	000 ÷ 255	000
14	PIXEL 1 BLUE FINE	000 ÷ 255	000
15	PIXEL 1 WHITE 0÷100%	000 ÷ 255	000
16	PIXEL 1 WHITE FINE	000 ÷ 255	000
17	PIXEL 2 DIMMER 0÷100%	000 ÷ 255	000
18	PIXEL 2 DIMMER FINE	000 ÷ 255	000
19	PIXEL 2 CCT 2800K - 3000K 3000K - 3200K 3200K - 3400K 3400K - 3600K 3600K - 3800K 3800K - 4000K 4000K - 4200K 4200K - 4400K 4400K - 4600K 4600K - 4800K 4800K - 5000K 5000K - 5200K 5200K - 5400K 5400K - 5600K 5600K - 5800K 5800K - 6000K 6000K - 6200K 6200K - 6400K 6400K - 6600K 6600K - 6800K 6800K - 7000K 7000K - 7200K 7200K - 7400K 7400K - 7600K 7600K - 7800K 7800K - 8000K 8000K - 8200K 8200K - 8400K 8400K - 8600K 8600K - 8800K 8800K - 9000K 9000K - 9200K 9200K - 9400K 9400K - 9600K 9600K - 9800K 9800K - 10000K	000 ÷ 007 007 ÷ 014 014 ÷ 021 021 ÷ 028 028 ÷ 035 035 ÷ 042 042 ÷ 049 049 ÷ 056 056 ÷ 063 063 ÷ 070 070 ÷ 077 077 ÷ 084 084 ÷ 091 091 ÷ 098 098 ÷ 105 105 ÷ 112 112 ÷ 119 119 ÷ 126 126 ÷ 133 133 ÷ 140 140 ÷ 147 147 ÷ 154 154 ÷ 161 161 ÷ 168 168 ÷ 175 175 ÷ 182 182 ÷ 189 189 ÷ 196 196 ÷ 203 203 ÷ 210 210 ÷ 217 217 ÷ 224 224 ÷ 231 231 ÷ 238 238 ÷ 245 245 ÷ 255	000
20	PIXEL 2 CCT FINE	000 ÷ 255	000
21	PIXEL 2 HUE Neutral / no effect Full minus green -99% --> -1% Neutral / no effect 1% --> 99% Full plus green	000 ÷ 010 011 ÷ 020 021 ÷ 119 120 ÷ 145 146 ÷ 244 245 ÷ 255	000
22	PIXEL 2 HUE FINE	000 ÷ 255	000
23	PIXEL 2 CROSSFADE FROM CCT TO COLOR 0÷100%	000 ÷ 255	000
24	PIXEL 2 CROSSFADE FROM CCT TO COLOR FINE	000 ÷ 255	000

33Ch	FUNCTION	DMX Value	Default
25	<b>PIXEL 2 RED</b> 0÷100%	000 ÷ 255	000
26	<b>PIXEL 2 RED FINE</b>	000 ÷ 255	000
27	<b>PIXEL 2 GREEN</b> 0÷100%	000 ÷ 255	000
28	<b>PIXEL 2 GREEN FINE</b>	000 ÷ 255	000
29	<b>PIXEL 2 BLUE</b> 0÷100%	000 ÷ 255	000
30	<b>PIXEL 2 BLUE FINE</b>	000 ÷ 255	000
31	<b>PIXEL 2 WHITE</b> 0÷100%	000 ÷ 255	000
32	<b>PIXEL 2 WHITE FINE</b>	000 ÷ 255	000
33	<b>FUNCTION CHANNEL</b>		
	USE FAN MODE SETTING OF FIXTURE MENU	000-009	
	FAN MODE SILENT 1 (Dynamic Output)	010-057	
	FAN MODE AUTO (Dynamic Output)	058-105	
	FAN MODE ON (Dynamic Output)	106-153	
	FAN MODE AUTO (Constant Output)	154-155	
	FAN MODE SILENT 1 (Constant Output)	156-157	
	FAN MODE SILENT 2 (Constant Output)	158-159	
	FAN MODE ON (Constant Output)	160-161	
	FAN MODE OFF (Constant Output)	162-163	
	DIMMER SPEED AUTO	164-165	
	DIMMER SPEED FAST	166-167	
	DIMMER SPEED MEDIUM	168-169	
	DIMMER SPEED SLOW	170-171	
	DIMMER CURVE LINEAR	172-173	
	DIMMER CURVE S-CURVE	174-175	
	DIMMER CURVE SQUARE LAW	176-177	
	DIMMER CURVE INV. SQUARE LAW	178-179	
	DIMMER CURVE HIGH RES@LOW	180-181	
	LED FREQUENCY 600HZ	182-183	
	LED FREQUENCY 1200HZ	184-185	
	LED FREQUENCY 2000HZ	186-187	
	LED FREQUENCY 4000HZ	188-189	
	LED FREQUENCY 6000HZ	190-191	
	LED FREQUENCY 25KHZ	192-193	
	LED FREQUENCY 36KHZ	194-195	
	DIMMER END SNAP OFF @ END	196-197	
	RESET ALL CHANNELS CONTROLLED	198-199	
	DIMMER END FADE OFF @ END	200-201	
	FAN MODE SILENT 2 (Dynamic Output)	202-203	
	LED FREQUENCY 10KHZ	204-205	
	LED FREQUENCY 12KHZ	206-207	
	LED FREQUENCY 15KHZ	208-209	
	LED FREQUENCY 20KHZ	210-211	
	DIMMER SPEED OFF	212-213	
	SPEKTRA CALIBRATION ON	214-215	
	SPEKTRA CALIBRATION PURE COLORS	216-217	
	SPEKTRA CALIBRATION OFF	218-219	
	RESERVED	220-249	
	FAN MODE OFF (Dynamic Output)	250-255	



**FILM**  
XY Mode

PIXEL LAYOUT



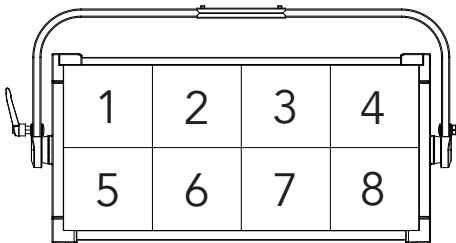
XY	FUNCTION	DMX Value	Default
1	<b>DIMMER</b> 0 ÷ 100%	000 ÷ 255	000
2	<b>DIMMER FINE</b>	000 ÷ 255	000
3	<b>STROBE</b> Closed Strobe slow to fast Open Random slow to fast Open	000 ÷ 030 031 ÷ 100 101 ÷ 130 131 ÷ 200 201 ÷ 255	255
3	<b>CCT</b> Open 2800K - 3000K 3000K - 3200K 3200K - 3400K 3400K - 3600K 3600K - 3800K 3800K - 4000K 4000K - 4200K 4200K - 4400K 4400K - 4600K 4600K - 4800K 4800K - 5000K 5000K - 5200K 5200K - 5400K 5400K - 5600K 5600K - 5800K 5800K - 6000K 6000K - 6200K 6200K - 6400K 6400K - 6600K 6600K - 6800K 6800K - 7000K 7000K - 7200K 7200K - 7400K 7400K - 7600K 7600K - 7800K 7800K - 8000K 8000K - 8200K 8200K - 8400K 8400K - 8600K 8600K - 8800K 8800K - 9000K 9000K - 9200K 9200K - 9400K 9400K - 9600K 9600K - 9800K 9800K - 10000K	000 ÷ 001 002 ÷ 009 009 ÷ 016 016 ÷ 023 023 ÷ 030 030 ÷ 037 037 ÷ 044 044 ÷ 051 051 ÷ 058 058 ÷ 065 065 ÷ 072 072 ÷ 079 079 ÷ 086 086 ÷ 093 093 ÷ 100 100 ÷ 107 107 ÷ 114 114 ÷ 121 121 ÷ 128 128 ÷ 135 135 ÷ 142 142 ÷ 149 149 ÷ 156 156 ÷ 163 163 ÷ 170 170 ÷ 177 177 ÷ 184 184 ÷ 191 191 ÷ 198 198 ÷ 205 205 ÷ 212 212 ÷ 219 219 ÷ 226 226 ÷ 233 233 ÷ 240 240 ÷ 247 247 ÷ 255	000
5	<b>HUE</b> Neutral / no effect Full minus green -99% --> -1% Neutral / no effect 1% --> 99% Full plus green	000 ÷ 010 011 ÷ 020 021 ÷ 119 120 ÷ 145 146 ÷ 244 245 ÷ 255	000
6	<b>X 1</b> 0.00 ÷ 0.85	000 ÷ 255	000
7	<b>X 1 FINE</b>	000 ÷ 255	000

XY	FUNCTION	DMX Value	Default
8	<b>Y 1</b> 0.00 ÷ 0.85	000 ÷ 255	000
9	<b>Y 1 FINE</b>	000 ÷ 255	000
10	<b>CROSSFADE FROM LAYER 1 TO LAYER 2</b> 0÷100%	000 ÷ 255	000
11	<b>X 2</b> 0.00 ÷ 0.85	000 ÷ 255	000
12	<b>X 2 FINE</b>	000 ÷ 255	000
13	<b>Y 2</b> 0.00 ÷ 0.85	000 ÷ 255	000
14	<b>Y 2 FINE</b>	000 ÷ 255	000
15	<b>COLOR MACRO</b> Open Red Green Blue Cyan Magenta Yellow Dirty White Alice Blue Congo Blue Dark Steel Blue Deep Lavender Lilac Ting Daylight Blue Flame Red Bastard Amber Deep Orange Pale Gold Apricot Bright Blue Primary Green Special Lavender Pale Lavender Deep Golden Amber Medium Blue Bright Pink Mauve Dark Green Lee Green Dark Blue Light Blue Steel Blue Medium Blue-Green Peacock Blue Magenta Dark Pink Middle Rose Light Salmon English Rose Light Rose Orange Deep Amber Straw Light Amber Spring Yellow Dark Yellow Green Just Blue Sky Blue Lavender Light Lavender Pink Carnation Medium Pink Light Pink Sunset Red Dark Amber Gold Amber Medium Amber Fire	000 ÷ 001 002 ÷ 003 004 ÷ 005 006 ÷ 007 008 ÷ 009 010 ÷ 011 012 ÷ 013 014 ÷ 015 016 ÷ 017 018 ÷ 019 020 ÷ 021 022 ÷ 023 024 ÷ 025 026 ÷ 027 028 ÷ 029 030 ÷ 031 032 ÷ 033 034 ÷ 035 036 ÷ 037 038 ÷ 039 040 ÷ 041 042 ÷ 043 044 ÷ 045 046 ÷ 047 048 ÷ 049 050 ÷ 051 052 ÷ 053 054 ÷ 055 056 ÷ 057 058 ÷ 059 060 ÷ 061 062 ÷ 063 064 ÷ 065 066 ÷ 067 068 ÷ 069 070 ÷ 071 072 ÷ 073 074 ÷ 075 076 ÷ 077 078 ÷ 079 080 ÷ 081 082 ÷ 083 084 ÷ 085 086 ÷ 087 088 ÷ 089 090 ÷ 091 092 ÷ 093 094 ÷ 095 096 ÷ 097 098 ÷ 099 100 ÷ 101 102 ÷ 103 104 ÷ 105 106 ÷ 107 108 ÷ 109 110 ÷ 111 112 ÷ 113 114 ÷ 115	000

XY	FUNCTION	DMX Value	Default
	Surprise Peach Straw Tint Medium Yellow Lee Minus Green Pale Gold Orange Deep Straw Rose Purple Deep Purple Soft Green Reserved 2800K 3000K 3200K 3400K 3600K 3800K 4000K 4200K 4400K 4600K 4800K 5000K 5200K 5400K 5600K 6000K 6500K 7000K 8000K 9000K 10000K Full On	116 ÷ 117 118 ÷ 119 120 ÷ 121 122 ÷ 123 124 ÷ 125 126 ÷ 127 128 ÷ 129 130 ÷ 131 132 ÷ 133 134 ÷ 135 136 ÷ 211 212 ÷ 213 214 ÷ 215 216 ÷ 217 218 ÷ 219 220 ÷ 221 222 ÷ 223 224 ÷ 225 226 ÷ 227 228 ÷ 229 230 ÷ 231 232 ÷ 233 234 ÷ 235 236 ÷ 237 238 ÷ 239 240 ÷ 241 242 ÷ 243 244 ÷ 245 246 ÷ 247 248 ÷ 249 250 ÷ 251 252 ÷ 253 254 ÷ 255	000
16	<b>CTO ON COLORS</b> 0÷100%	000 ÷ 255	000
17	<b>FUNCTION CHANNEL</b> SAFE FAN MODE AUTO (Constant Output) FAN MODE ON (Constant Output) FAN MODE OFF (Constant Output) FAN MODE SILENT 1 (Constant Output) FAN MODE SILENT 2 (Constant Output) LED FREQUENCY 600HZ LED FREQUENCY 1200HZ LED FREQUENCY 2000HZ LED FREQUENCY 4000HZ LED FREQUENCY 6000HZ LED FREQUENCY 25KHZ LED FREQUENCY 36KHZ FAN MODE AUTO (Dynamic Output) FAN MODE ON (Dynamic Output) FAN MODE OFF (Dynamic Output) FAN MODE SILENT 1 (Dynamic Output) FAN MODE SILENT 2 (Dynamic Output) DIMMER SPEED AUTO DIMMER SPEED FAST DIMMER SPEED MEDIUM DIMMER SPEED SLOW DIMMER CURVE LINEAR DIMMER CURVE S-CURVE DIMMER CURVE SQUARE LAW DIMMER CURVE INV. SQUARE LAW DIMMER CURVE HIGH RES @LOW DIMMER END SNAP OFF @ END DIMMER END FADE OFF @ END LED FREQUENCY 10KHZ LED FREQUENCY 12KHZ LED FREQUENCY 15KHZ LED FREQUENCY 20KHZ DIMMER SPEED OFF SPEKTRA CALIBRATION ON SPEKTRA CALIBRATION PURE COLORS SPEKTRA CALIBRATION OFF RESERVED RESET ALL CHANNELS CONTROLLED.	000-001 002-003 004-005 006-007 008-009 010-011 012-013 014-015 016-017 018-019 020-021 022-023 024-025 026-027 028-029 030-031 032-033 034-035 036-037 038-039 040-041 042-043 044-045 046-047 048-049 050-051 052-053 054-055 056-057 058-059 060-061 062-063 064-065 066-067 068-069 070-071 072-073 074-253 254-255	000

**FILM**  
5M65CH

Ch	FILM 65Ch
1	CONTROL
2	PIXEL 1 DIMMER
3	PIXEL 1 CCT
4	PIXEL 1 HUE
5	PIXEL 1 CROSSFADE FROM CCT TO COLOR
6	PIXEL 1 RED
7	PIXEL 1 GREEN
8	PIXEL 1 BLUE
9	PIXEL 1 WHITE
10	PIXEL 2 DIMMER
	...
58	PIXEL 8 DIMMER
59	PIXEL 8 CCT
60	PIXEL 8 HUE
61	PIXEL 8 CROSSFADE FROM CCT TO COLOR
62	PIXEL 8 RED
63	PIXEL 8 GREEN
64	PIXEL 8 BLUE
65	PIXEL 8 WHITE
PIXEL LAYOUT	



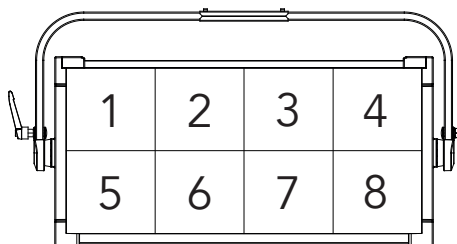
65Ch	FUNCTION	DMX Value	Default
1	<b>FUNCTION CHANNEL</b>		
	SAFE	000-001	
	FAN MODE AUTO (Constant Output)	002-003	
	FAN MODE ON (Constant Output)	004-005	
	FAN MODE OFF (Constant Output)	006-007	
	FAN MODE SILENT 1 (Constant Output)	008-009	
	FAN MODE SILENT 2 (Constant Output)	010-011	
	LED FREQUENCY 600HZ	012-013	
	LED FREQUENCY 1200HZ	014-015	
	LED FREQUENCY 2000HZ	016-017	
	LED FREQUENCY 4000HZ	018-019	
	LED FREQUENCY 6000HZ	020-021	
	LED FREQUENCY 25KHZ	022-023	
	LED FREQUENCY 36KHZ	024-025	
	FAN MODE AUTO (Dynamic Output)	026-027	
	FAN MODE ON (Dynamic Output)	028-029	
	FAN MODE OFF (Dynamic Output)	030-031	
	FAN MODE SILENT 1 (Dynamic Output)	032-033	
	FAN MODE SILENT 2 (Dynamic Output)	034-035	
	DIMMER SPEED AUTO	036-037	
	DIMMER SPEED FAST	038-039	
	DIMMER SPEED MEDIUM	040-041	000
	DIMMER SPEED SLOW	042-043	
	DIMMER CURVE LINEAR	044-045	
	DIMMER CURVE S-CURVE	046-047	
	DIMMER CURVE SQUARE LAW	048-049	
	DIMMER CURVE INV. SQUARE LAW	050-051	
	DIMMER CURVE HIGH RES @LOW	052-053	
	DIMMER END SNAP OFF @ END	054-055	
	DIMMER END FADE OFF @ END	056-057	
	LED FREQUENCY 10KHZ	058-059	
	LED FREQUENCY 12KHZ	060-061	
	LED FREQUENCY 15KHZ	062-063	
	LED FREQUENCY 20KHZ	064-065	
	DIMMER SPEED OFF	066-067	
	SPEKTRA CALIBRATION ON	068-069	
	SPEKTRA CALIBRATION PURE COLORS	070-071	
	SPEKTRA CALIBRATION OFF	072-073	
	CROSSFADE TYPE STANDARD	074-075	
	CROSSFADE TYPE SUBTRACTIVE	076-077	
	RESERVED	078-253	
	RESET ALL CHANNELS CONTROLLED	254-255	
2	<b>PIXEL 1 DIMMER</b>		
	0÷100%	000 ÷ 255	000
	<b>PIXEL 1 DIMMER FINE</b>	000 ÷ 255	000
3	<b>PIXEL 1 CCT</b>		
	2200K - 2400K	000 ÷ 004	
	2400K - 2600K	004 ÷ 007	
	2600K - 2800K	007 ÷ 011	
	2800K - 3000K	011 ÷ 015	
	3000K - 3200K	015 ÷ 019	
	3200K - 3400K	019 ÷ 023	
	3400K - 3600K	023 ÷ 027	
	3600K - 3800K	027 ÷ 031	
	3800K - 4000K	031 ÷ 035	
	4000K - 4200K	035 ÷ 039	
	4200K - 4400K	039 ÷ 043	
	4400K - 4600K	043 ÷ 047	
	4600K - 4800K	047 ÷ 051	
	4800K - 5000K	051 ÷ 055	
	5000K - 5200K	055 ÷ 059	
	5200K - 5400K	059 ÷ 063	
	5400K - 5600K	063 ÷ 067	
	5600K - 5800K	067 ÷ 071	
	5800K - 6000K	071 ÷ 075	
	6000K - 6200K	075 ÷ 079	
	6200K - 6400K	079 ÷ 083	
	6400K - 6600K	083 ÷ 087	
	6600K - 6800K	087 ÷ 091	
	6800K - 7000K	091 ÷ 095	
	7000K - 7200K	095 ÷ 099	
	7200K - 7400K	099 ÷ 103	
	7400K - 7600K	103 ÷ 107	
	7600K - 7800K	107 ÷ 111	
	7800K - 8000K	111 ÷ 115	
	8000K - 8200K	115 ÷ 119	
	8200K - 8400K	119 ÷ 123	
	8400K - 8600K	123 ÷ 127	
	8600K - 8800K	127 ÷ 131	

65Ch	FUNCTION	DMX Value	Default
3	8800K - 9000K	131 ÷ 135	000
	9000K - 9200K	135 ÷ 139	
	9200K - 9400K	139 ÷ 143	
	9400K - 9600K	143 ÷ 147	
	9600K - 9800K	147 ÷ 151	
	9800K - 10000K	151 ÷ 155	
	10000K - 10200K	155 ÷ 159	
	10200K - 10400K	159 ÷ 163	
	10400K - 10600K	163 ÷ 167	
	10600K - 10800K	167 ÷ 171	
	10800K - 11000K	171 ÷ 175	
	11000K - 11200K	175 ÷ 179	
	11200K - 11400K	179 ÷ 183	
	11400K - 11600K	183 ÷ 187	
	11600K - 11800K	187 ÷ 191	
	11800K - 12000K	191 ÷ 195	
	12000K - 12200K	195 ÷ 199	
	12200K - 12400K	199 ÷ 203	
	12400K - 12600K	203 ÷ 207	
	12600K - 12800K	207 ÷ 211	
	12800K - 13000K	211 ÷ 215	
	13000K - 13200K	215 ÷ 219	
	13200K - 13400K	219 ÷ 223	
	13400K - 13600K	223 ÷ 227	
	13600K - 13800K	227 ÷ 231	
	13800K - 14000K	231 ÷ 235	
	14000K - 14200K	235 ÷ 239	
	14200K - 14400K	239 ÷ 243	
	14400K - 14600K	243 ÷ 247	
	14600K - 14800K	247 ÷ 251	
	14800K - 15000K	251 ÷ 255	
	<b>PIXEL 1 CCT FINE</b>	000 ÷ 255	000
4	<b>PIXEL 1 HUE</b>		000
	Neutral	000 ÷ 010	
	-100 to -1 Green	011 ÷ 133	
	Neutral	134	
	+1 to +100 Green	135 ÷ 255	
	<b>PIXEL 1 HUE FINE</b>	000 ÷ 255	000
5	<b>PIXEL 1 CROSSFADE FROM CCT TO COLOR</b>		000
	0+100%	000 ÷ 255	
	<b>PIXEL 1 CROSSFADE FROM CCT TO COLOR FINE</b>	000 ÷ 255	000
6	<b>PIXEL 1 RED</b>		000
	0+100%	000 ÷ 255	
	<b>PIXEL 1 RED FINE</b>	000 ÷ 255	000
7	<b>PIXEL 1 GREEN</b>		000
	0+100%	000 ÷ 255	
	<b>PIXEL 1 GREEN FINE</b>	000 ÷ 255	000
8	<b>PIXEL 1 BLUE</b>		000
	0+100%	000 ÷ 255	
	<b>PIXEL 1 BLUE FINE</b>	000 ÷ 255	000
9	<b>PIXEL 1 WHITE</b>		000
	0+100%	000 ÷ 255	
	<b>PIXEL 1 WHITE FINE</b>	000 ÷ 255	000
10	<b>PIXEL 2 DIMMER</b>		000
	0+100%	000 ÷ 255	
...	...		
58	<b>PIXEL 8 DIMMER</b>		000
	0+100%	000 ÷ 255	

65Ch	FUNCTION	DMX Value	Default
	PIXEL 8 DIMMER FINE	000 ÷ 255	000
59	PIXEL 8 CCT (refer to PIXEL 1 CCT for CCT range) 2200÷15000K	000 ÷ 255	000
	PIXEL 8 CCT FINE	000 ÷ 255	000
60	PIXEL 8 HUE Neutral -100 to -1 Green Neutral +1 to +100 Green	000 ÷ 010 011 ÷ 133 134 135 ÷ 255	000
	PIXEL 8 HUE FINE	000 ÷ 255	000
61	PIXEL 8 CROSSFADE FROM CCT TO COLOR 0÷100%	000 ÷ 255	000
	PIXEL 8 CROSSFADE FROM CCT TO COLOR FINE	000 ÷ 255	000
62	PIXEL 8 RED 0÷100%	000 ÷ 255	000
	PIXEL 8 RED FINE	000 ÷ 255	000
63	PIXEL 8 GREEN 0÷100%	000 ÷ 255	000
	PIXEL 8 GREEN FINE	000 ÷ 255	000
64	PIXEL 8 BLUE 0÷100%	000 ÷ 255	000
	PIXEL 8 BLUE FINE	000 ÷ 255	000
65	PIXEL 8 WHITE 0÷100%	000 ÷ 255	000
	PIXEL 8 WHITE FINE	000 ÷ 255	000

**FILM**  
6M129CH

Ch	FILM 129Ch
1	CONTROL
2	PIXEL 1 DIMMER
3	PIXEL 1 DIMMER FINE
4	PIXEL 1 CCT
5	PIXEL 1 CCT FINE
6	PIXEL 1 HUE
7	PIXEL 1 HUE FINE
8	PIXEL 1 CROSSFADE FROM CCT TO COLOR
9	PIXEL 1 CROSSFADE FROM CCT TO COLOR FINE
10	PIXEL 1 RED
11	PIXEL 1 RED FINE
12	PIXEL 1 GREEN
13	PIXEL 1 GREEN FINE
14	PIXEL 1 BLUE
15	PIXEL 1 BLUE FINE
16	PIXEL 1 WHITE
17	PIXEL 1 WHITE FINE
18	PIXEL 2 DIMMER
...	...
114	PIXEL 8 DIMMER
115	PIXEL 8 DIMMER FINE
116	PIXEL 8 CCT
117	PIXEL 8 CCT FINE
118	PIXEL 8 HUE
119	PIXEL 8 HUE FINE
120	PIXEL 8 CROSSFADE FROM CCT TO COLOR
121	PIXEL 8 CROSSFADE FROM CCT TO COLOR FINE
122	PIXEL 8 RED
123	PIXEL 8 RED FINE
124	PIXEL 8 GREEN
125	PIXEL 8 GREEN FINE
126	PIXEL 8 BLUE
127	PIXEL 8 BLUE FINE
128	PIXEL 8 WHITE
129	PIXEL 8 WHITE FINE





129Ch	FUNCTION	DMX Value	Default
1	<b>FUNCTION CHANNEL</b>		
	SAFE	000-001	
	FAN MODE AUTO(Constant Output)	002-003	
	FAN MODE ON(Constant Output)	004-005	
	FAN MODE OFF(Constant Output)	006-007	
	FAN MODE SILENT 1(Constant Output)	008-009	
	FAN MODE SILENT 2(Constant Output)	010-011	
	LED FREQUENCY 600HZ	012-013	
	LED FREQUENCY 1200HZ	014-015	
	LED FREQUENCY 2000HZ	016-017	
	LED FREQUENCY 4000HZ	018-019	
	LED FREQUENCY 6000HZ	020-021	
	LED FREQUENCY 25KHZ	022-023	
	LED FREQUENCY 36KHZ	024-025	
	FAN MODE AUTO(Dynamic Output)	026-027	
	FAN MODE ON(Dynamic Output)	028-029	
	FAN MODE OFF(Dynamic Output)	030-031	
	FAN MODE SILENT 1(Dynamic Output)	032-033	
	FAN MODE SILENT 2(Dynamic Output)	034-035	
	DIMMER SPEED AUTO	036-037	
	DIMMER SPEED FAST	038-039	
	DIMMER SPEED MEDIUM	040-041	000
	DIMMER SPEED SLOW	042-043	
	DIMMER CURVE LINEAR	044-045	
	DIMMER CURVE S-CURVE	046-047	
	DIMMER CURVE SQUARE LAW	048-049	
	DIMMER CURVE INV. SQUARE LAW	050-051	
	DIMMER CURVE HIGH RES @LOW	052-053	
	DIMMER END SNAP OFF @ END	054-055	
	DIMMER END FADE OFF @ END	056-057	
	LED FREQUENCY 10KHZ	058-059	
	LED FREQUENCY 12KHZ	060-061	
	LED FREQUENCY 15KHZ	062-063	
	LED FREQUENCY 20KHZ	064-065	
	DIMMER SPEED OFF	066-067	
	SPEKTRA CALIBRATION ON	068-069	
	SPEKTRA CALIBRATION PURE COLORS	070-071	
	SPEKTRA CALIBRATION OFF	072-073	
	CROSSFADE TYPE STANDARD	074-075	
	CROSSFADE TYPE SUBRACTIVE	076-077	
	RESERVED	078-253	
	RESET ALL CHANNELS CONTROLLED	254-255	
2	<b>PIXEL 1 DIMMER</b> 0÷100%	000 ÷ 255	000
3	<b>PIXEL 1 DIMMER FINE</b>	000 ÷ 255	000
4	<b>PIXEL 1 CCT</b>		
	2200K - 2400K	000 ÷ 004	
	2400K - 2600K	004 ÷ 007	
	2600K - 2800K	007 ÷ 011	
	2800K - 3000K	011 ÷ 015	
	3000K - 3200K	015 ÷ 019	
	3200K - 3400K	019 ÷ 023	
	3400K - 3600K	023 ÷ 027	
	3600K - 3800K	027 ÷ 031	
	3800K - 4000K	031 ÷ 035	
	4000K - 4200K	035 ÷ 039	
	4200K - 4400K	039 ÷ 043	
	4400K - 4600K	043 ÷ 047	
	4600K - 4800K	047 ÷ 051	
	4800K - 5000K	051 ÷ 055	
	5000K - 5200K	055 ÷ 059	
	5200K - 5400K	059 ÷ 063	
	5400K - 5600K	063 ÷ 067	000
	5600K - 5800K	067 ÷ 071	
	5800K - 6000K	071 ÷ 075	
	6000K - 6200K	075 ÷ 079	
	6200K - 6400K	079 ÷ 083	
	6400K - 6600K	083 ÷ 087	
	6600K - 6800K	087 ÷ 091	
	6800K - 7000K	091 ÷ 095	
	7000K - 7200K	095 ÷ 099	
	7200K - 7400K	099 ÷ 103	
	7400K - 7600K	103 ÷ 107	
	7600K - 7800K	107 ÷ 111	
	7800K - 8000K	111 ÷ 115	
	8000K - 8200K	115 ÷ 119	
	8200K - 8400K	119 ÷ 123	
	8400K - 8600K	123 ÷ 127	
	8600K - 8800K	127 ÷ 131	

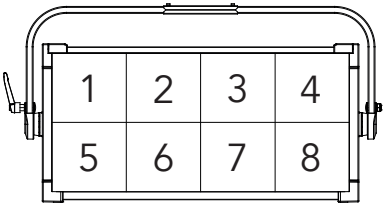
129Ch	FUNCTION	DMX Value	Default
4	8800K - 9000K 9000K - 9200K 9200K - 9400K 9400K - 9600K 9600K - 9800K 9800K - 10000K 10000K - 10200K 10200K - 10400K 10400K - 10600K 10600K - 10800K 10800K - 11000K 11000K - 11200K 11200K - 11400K 11400K - 11600K 11600K - 11800K 11800K - 12000K 12000K - 12200K 12200K - 12400K 12400K - 12600K 12600K - 12800K 12800K - 13000K 13000K - 13200K 13200K - 13400K 13400K - 13600K 13600K - 13800K 13800K - 14000K 14000K - 14200K 14200K - 14400K 14400K - 14600K 14600K - 14800K 14800K - 15000K	131 ÷ 135 135 ÷ 139 139 ÷ 143 143 ÷ 147 147 ÷ 151 151 ÷ 155 155 ÷ 159 159 ÷ 163 163 ÷ 167 167 ÷ 171 171 ÷ 175 175 ÷ 179 179 ÷ 183 183 ÷ 187 187 ÷ 191 191 ÷ 195 195 ÷ 199 199 ÷ 203 203 ÷ 207 207 ÷ 211 211 ÷ 215 215 ÷ 219 219 ÷ 223 223 ÷ 227 227 ÷ 231 231 ÷ 235 235 ÷ 239 239 ÷ 243 243 ÷ 247 247 ÷ 251 251 ÷ 255	000
5	PIXEL 1 CCT FINE	000 ÷ 255	000
6	PIXEL 1 HUE Neutral -100 to -1 Green Neutral +1 to +100 Green	000 ÷ 010 011 ÷ 133 134 135 ÷ 255	000
7	PIXEL 1 HUE FINE	000 ÷ 255	000
8	PIXEL 1 CROSSFADE FROM CCT TO COLOR 0+100%	000 ÷ 255	000
9	PIXEL 1 CROSSFADE FROM CCT TO COLOR FINE	000 ÷ 255	000
10	PIXEL 1 RED 0+100%	000 ÷ 255	000
11	PIXEL 1 RED FINE	000 ÷ 255	000
12	PIXEL 1 GREEN 0+100%	000 ÷ 255	000
13	PIXEL 1 GREEN FINE	000 ÷ 255	000
14	PIXEL 1 BLUE 0+100%	000 ÷ 255	000
15	PIXEL 1 BLUE FINE	000 ÷ 255	000
16	PIXEL 1 WHITE 0+100%	000 ÷ 255	000
17	PIXEL 1 WHITE FINE	000 ÷ 255	000
18	PIXEL 2 DIMMER 0+100%	000 ÷ 255	000
...	...		
114	PIXEL 8 DIMMER 0+100%	000 ÷ 255	000

129Ch	FUNCTION	DMX Value	Default
115	PIXEL 8 DIMMER FINE	000 ÷ 255	000
116	PIXEL 8 CCT (refer to PIXEL 1 CCT for CCT range) 2200÷15000K	000 ÷ 255	000
117	PIXEL 8 CCT FINE	000 ÷ 255	000
118	PIXEL 8 HUE Neutral -100 to -1 Green Neutral +1 to +100 Green	000 ÷ 010 011 ÷ 133 134 135 ÷ 255	000
119	PIXEL 8 HUE FINE	000 ÷ 255	000
120	PIXEL 8 CROSSFADE FROM CCT TO COLOR 0+100%	000 ÷ 255	000
121	PIXEL 8 CROSSFADE FROM CCT TO COLOR FINE	000 ÷ 255	000
122	PIXEL 8 RED 0+100%	000 ÷ 255	000
123	PIXEL 8 RED FINE	000 ÷ 255	000
124	PIXEL 8 GREEN 0+100%	000 ÷ 255	000
125	PIXEL 8 GREEN FINE	000 ÷ 255	000
126	PIXEL 8 BLUE 0+100%	000 ÷ 255	000
127	PIXEL 8 BLUE FINE	000 ÷ 255	000
128	PIXEL 8 WHITE 0+100%	000 ÷ 255	000
129	PIXEL 8 WHITE FINE	000 ÷ 255	000

**FILM**  
8 Pix Direct

Ch	8 Pix Direct
1	PIXEL 1 RED
2	PIXEL 1 GREEN
3	PIXEL 1 BLUE
4	PIXEL 1 WHITE
	...
29	PIXEL 8 RED
30	PIXEL 8 GREEN
31	PIXEL 8 BLUE
32	PIXEL 8 WHITE

PIXEL LAYOUT

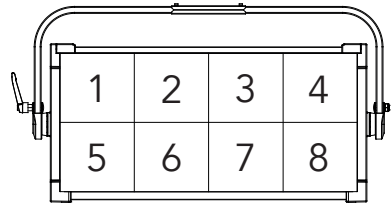


8 Pix Direct	FUNCTION	DMX Value	Default
1	PIXEL 1 RED 0÷100%	000 ÷ 255	000
2	PIXEL 1 GREEN 0÷100%	000 ÷ 255	000
3	PIXEL 1 BLUE 0÷100%	000 ÷ 255	000
4	PIXEL 1 WHITE 0÷100%	000 ÷ 255	000
...	...		000
29	PIXEL 8 RED 0÷100%	000 ÷ 255	000
30	PIXEL 8 GREEN 0÷100%	000 ÷ 255	000
31	PIXEL 8 BLUE 0÷100%	000 ÷ 255	000
32	PIXEL 8 WHITE 0÷100%	000 ÷ 255	000

**FILM**  
8 Pix Direct MD

Ch	8 Pix Direct MD
1	DIMMER (MASTER)
2	DIMMER (MASTER) FINE
3	PIXEL 1 RED
4	PIXEL 1 GREEN
5	PIXEL 1 BLUE
6	PIXEL 1 WHITE
	...
31	PIXEL 8 RED
32	PIXEL 8 GREEN
33	PIXEL 8 BLUE
34	PIXEL 8 WHITE

PIXEL LAYOUT

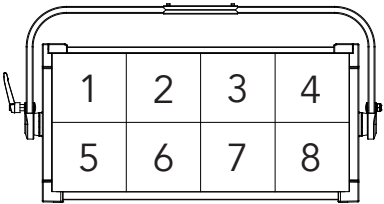


8 Pix Direct MD	FUNCTION	DMX Value	Default
1	DIMMER (MASTER) 0÷100%	000 ÷ 255	000
2	DIMMER (MASTER) FINE 0÷100%	000 ÷ 255	000
3	PIXEL 1 RED 0÷100%	000 ÷ 255	000
4	PIXEL 1 GREEN 0÷100%	000 ÷ 255	000
5	PIXEL 1 BLUE 0÷100%	000 ÷ 255	000
6	PIXEL 1 WHITE 0÷100%	000 ÷ 255	000
...	...	...	000
31	PIXEL 8 RED 0÷100%	000 ÷ 255	000
32	PIXEL 8 GREEN 0÷100%	000 ÷ 255	000
33	PIXEL 8 BLUE 0÷100%	000 ÷ 255	000
34	PIXEL 8 WHITE 0÷100%	000 ÷ 255	000

# **FILM** **SPECIAL**

Ch	SPECIAL
1	DIMMER PIXEL 1
2	X PIXEL 1
3	Y PIXEL 1
	...
22	DIMMER PIXEL 8
23	X PIXEL 8
24	Y PIXEL 8
25	FAN CONTROL
26	FUNCTION CHANNEL

PIXEL LAYOUT



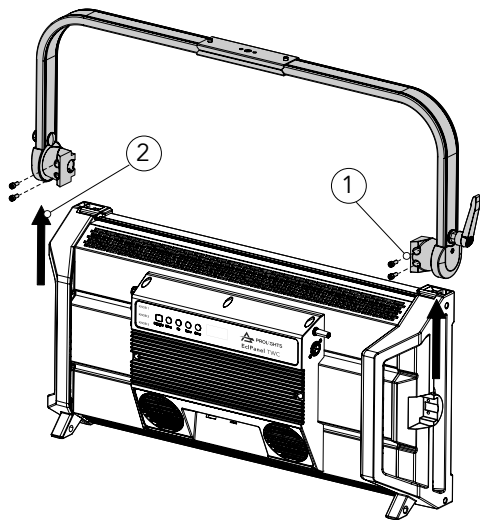
SPECIAL	FUNCTION	DMX Value	Default
1	<b>DIMMER PIXEL 1</b> 0÷100%	000 ÷ 255	000
2	<b>X PIXEL 1</b> 0÷100%	000 ÷ 255	000
3	<b>Y PIXEL 1</b> 0÷100%	000 ÷ 255	000
...	...		000
22	<b>DIMMER PIXEL 8</b> 0÷100%	000 ÷ 255	000
23	<b>X PIXEL 8</b> 0÷100%	000 ÷ 255	000
24	<b>Y PIXEL 8</b> 0÷100%	000 ÷ 255	000
25	<b>FAN CONTROL</b> Use Fan Mode setting of fixture menu SILENT 1 Mode (Dynamic Output) AUTO Mode (Dynamic Output) ON Mode (Dynamic Output) Not Used SILENT 2 Mode (Dynamic Output) OFF Mode (Dynamic Output)	000 ÷ 009 010 ÷ 057 058 ÷ 105 106 ÷ 153 154 ÷ 201 202 ÷ 249 250 ÷ 255	000

SPECIAL	FUNCTION	DMX Value	Default
26	<b>FUNCTION CHANNEL</b>		
	SAFE	000-001	
	FAN MODE AUTO(Constant Output)	002-003	
	FAN MODE ON(Constant Output)	004-005	
	FAN MODE OFF(Constant Output)	006-007	
	FAN MODE SILENT 1(Constant Output)	008-009	
	FAN MODE SILENT 2(Constant Output)	010-011	
	LED FREQUENCY 600HZ	012-013	
	LED FREQUENCY 1200HZ	014-015	
	LED FREQUENCY 2000HZ	016-017	
	LED FREQUENCY 4000HZ	018-019	
	LED FREQUENCY 6000HZ	020-021	
	LED FREQUENCY 25KHZ	022-023	
	LED FREQUENCY 36KHZ	024-025	
	FAN MODE AUTO(Dynamic Output)	026-027	
	FAN MODE ON(Dynamic Output)	028-029	
	FAN MODE OFF(Dynamic Output)	030-031	
	FAN MODE SILENT 1(Dynamic Output)	032-033	
	FAN MODE SILENT 2(Dynamic Output)	034-035	
	DIMMER SPEED AUTO	036-037	
	DIMMER SPEED FAST	038-039	
	DIMMER SPEED MEDIUM	040-041	
	DIMMER SPEED SLOW	042-043	
	DIMMER CURVE LINEAR	044-045	
	DIMMER CURVE S-CURVE	046-047	
	DIMMER CURVE SQUARE LAW	048-049	
	DIMMER CURVE INV. SQUARE LAW	050-051	
	DIMMER CURVE HIGH RES @LOW	052-053	
	DIMMER END SNAP OFF @ END	054-055	
	DIMMER END FADE OFF @ END	056-057	
	LED FREQUENCY 10KHZ	058-059	
	LED FREQUENCY 12KHZ	060-061	
	LED FREQUENCY 15KHZ	062-063	
	LED FREQUENCY 20KHZ	064-065	
	DIMMER SPEED OFF	066-067	
	RESERVED	068-253	
	RESET ALL CHANNELS CONTROLLED	254-255	

# 14 - ACCESSORIES INSTALLATION

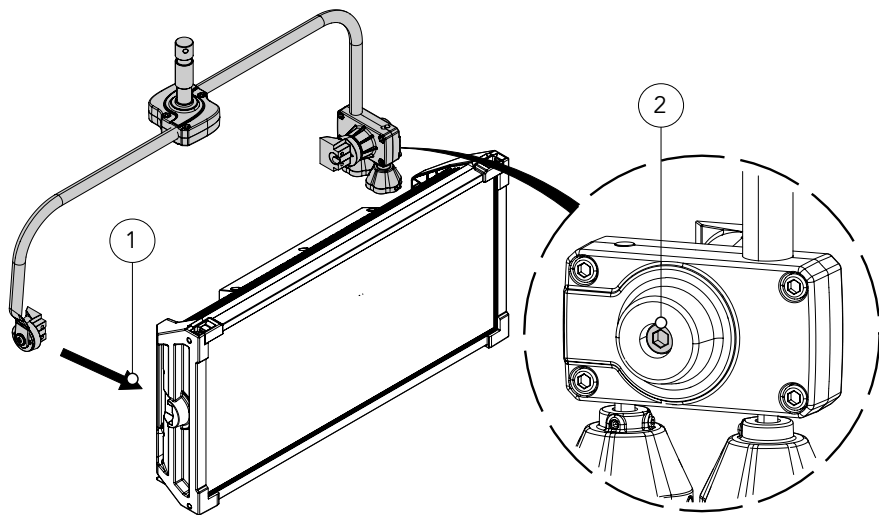
## THE POLE OPERATED YOKE (CODE ECLPANELPOYO - OPTIONAL)

1



Loosen and remove the four M5 screws (1). Then remove the bracket (2).

2



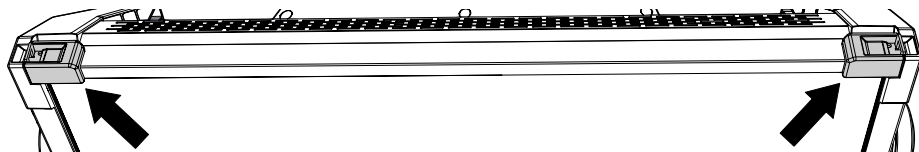
Mount the Pole Operated bracket Yoke (1) and tighten the four M5 screws removed earlier (point 1 of the image above). Then tighten the M8 screw (2).  
NOTE: to adjust the holding torque of the clutch system of the TILT movement, please tight the indicated M8 screw (2) with 6 mm allen key.

Fig. 08

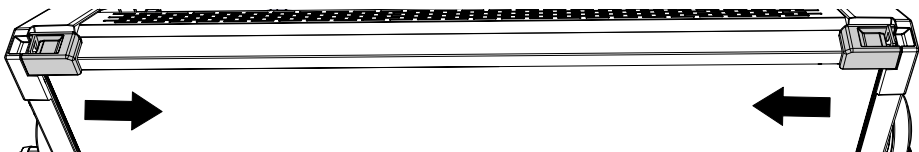


RIGID EGG CRATES (CODES EPTWCEC4C, EPTWCEC30, EPTWCEC60 - OPTIONAL)

1

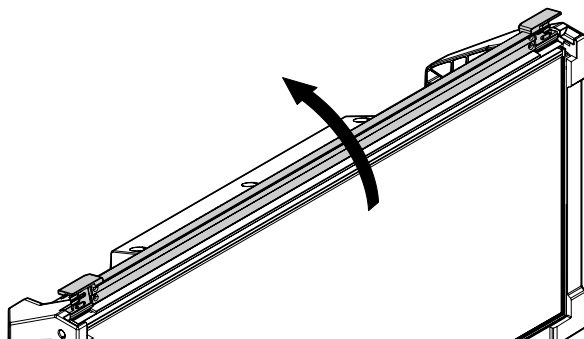


2



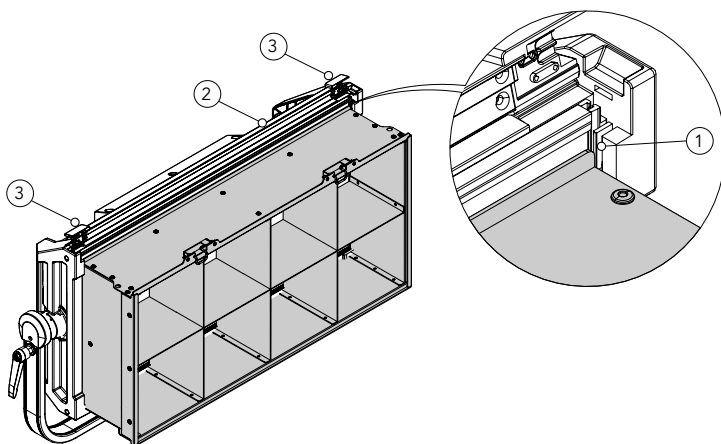
Slide the tabs placed on the top (1), inward the product (2).

3



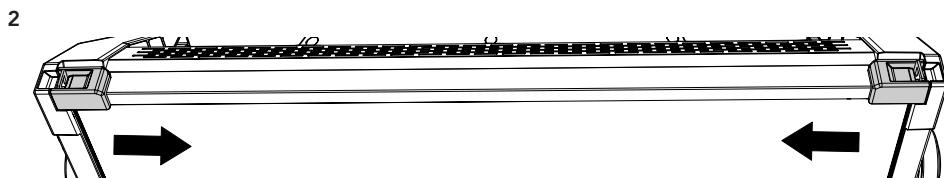
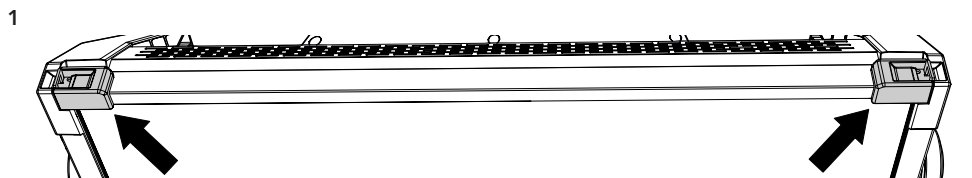
Open the holder plate by turning it upwards (3).

4

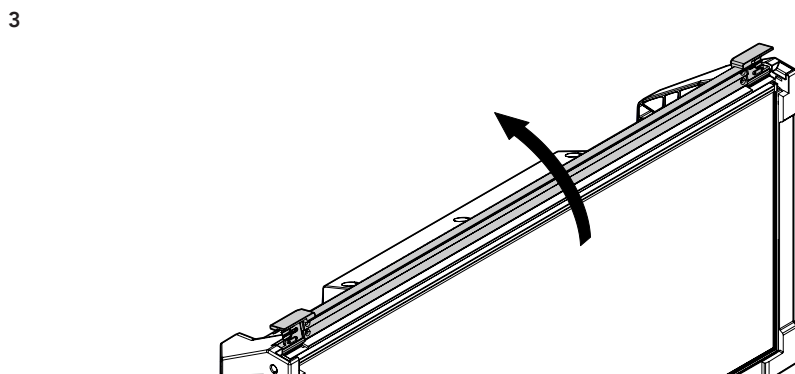


Insert the egg crate, inside the track guides (1). Then close the plate (2) and re-position the tabs outwards (3).

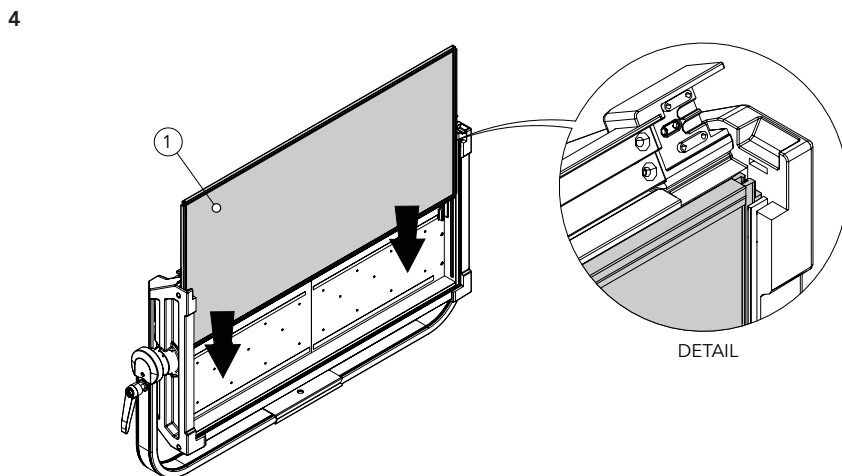
Fig. 09



Slide the tabs placed on the top, inward the product.



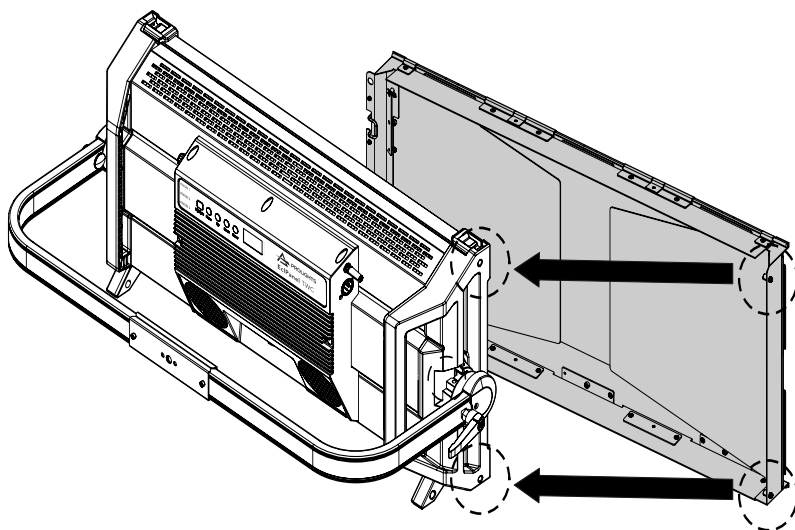
Open the holder plate by turning it upwards (3).



Insert the diffuser filter, inside the track guides (1). Then close the plate and re-position the tabs outwards.

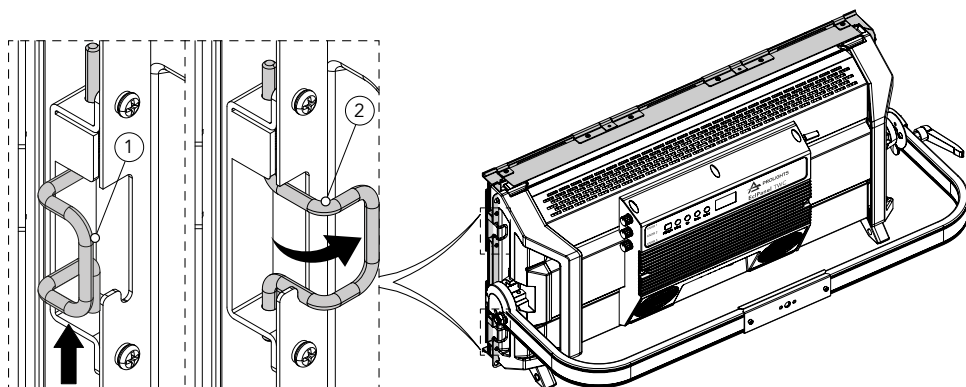
Fig. 10

1



Insert the two positioning and fixing pins on the hardware into the holes provided on the left side edge of the product.

2



Hook the 2 clips (1) on the right edges (2), by rotating the head of the pin towards the body of the product. Then adjust the angle of the four leaves to focus the beam.

NOTE: To remove the accessory, reverse the procedure.

Fig.11

## 15 - 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.
- Restoring lubrication of all 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.

### REPLACING THE FUSE

**WARNING:** Before replacing the fuse, unplug the product from the mains.

- Remove the old fuse from the housing with a suitable screwdriver (anticlockwise) and replace it with one of the same type and of the same classification (T6.3 AL 250V).

### 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.

## This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



