



EclPanel TWC

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



USER MANUAL

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.

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Product user manual can be downloaded from the website www.prolights.it, or can be inquired to the official PROLIGHTS distributors of your territory (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



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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 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.

$T_a 45^{\circ}\text{C}$

Max operating ambient temperature (T_a)

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

$T_a -10^{\circ}\text{C}$

Minimum operating ambient temperature (T_a)

- Do not operate the fixture if the ambient temperature (T_a) 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.

$T_c 70^{\circ}\text{C}$

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.



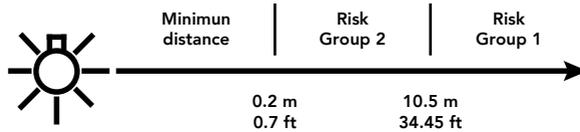
Photobiological safety

- 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.



Other approvals

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

1 - PACKAGING

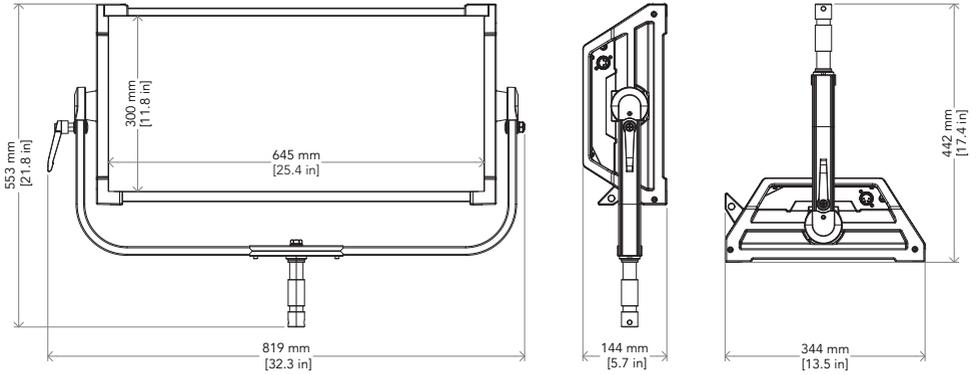
PACKAGE CONTENT

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

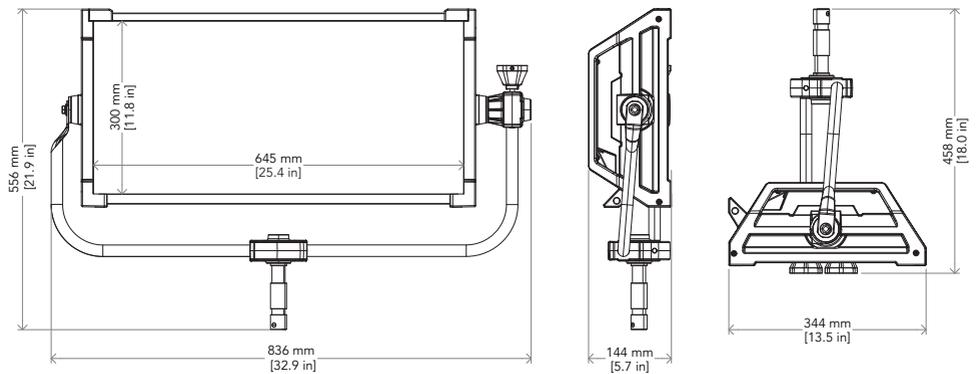
OPTIONAL ACCESSORIES

- 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, 200kg 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. CANCE5MXX XLR 5p->CANCE5FXR 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;
- EPTWCCEC30: 30 degree egg crate for ECLPANELTWC;
- EPTWCCEC60: 60 degree egg crate for ECLPANELTWC;
- EPTWCCEC8C: 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;
- EPTWCSG4SB2140: 40° SnapGrid for SnapBag, 2x1 for ECLPANELTWC by DoP choice;
- EPTWCSG2140: 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);
- EPSBCFNMS: diffusion MAGIC cloth for Snapbag 60x90cm (EPTWCBSB21) by DoP choice;
- EPSBCFNNSF: diffusion FULL Grid cloth for Snapbag 60x90cm (EPTWCBSB21) by DoP choice;
- EPSBCFNNSH: diffusion HALF Grid cloth for Snapbag 60x90cm (EPTWCBSB21) by DoP choice;
- EPSBCFNNSQ: diffusion QUARTER Grid cloth for Snapbag 60x90cm (EPTWCBSB21) by DoP choice;
- EPSBCFNNSQFM: diffusion cloth SET(1/4,1/1,MAGIC) for Snapbag 60x90cm (EPTWCBSB21) by DoP choice;
- EPSBCFNNSQH: diffusion cloth SET (1/4, 1/2,1/1) for Snapbag 60x90cm (EPTWCBSB21) by DoP choice;
- EPTWCCLANT21: 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

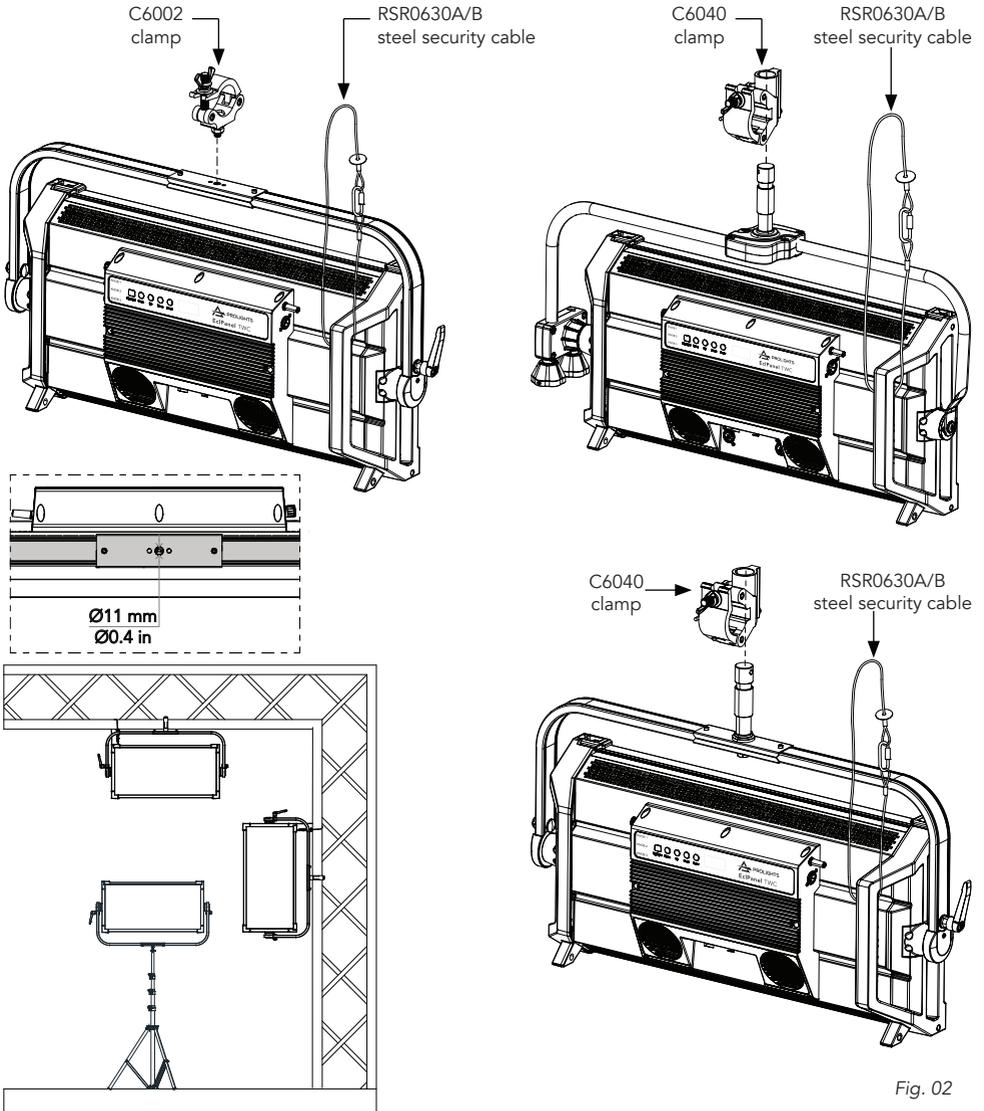
MOUNTING

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+.

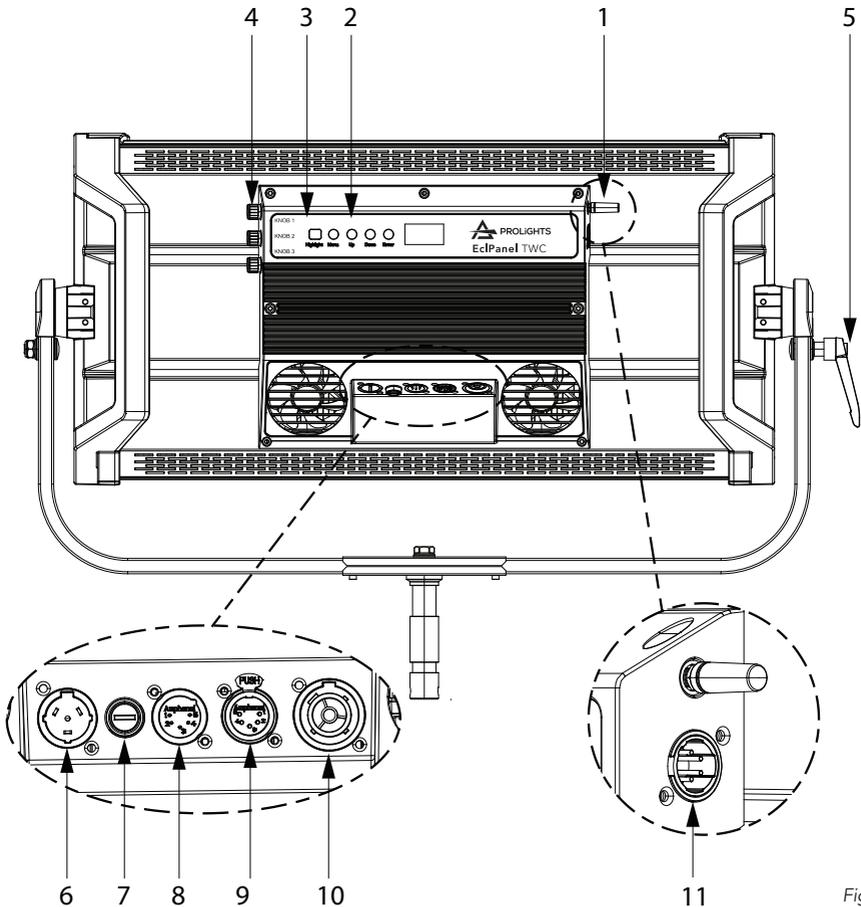


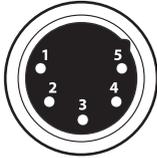
Fig. 03

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:

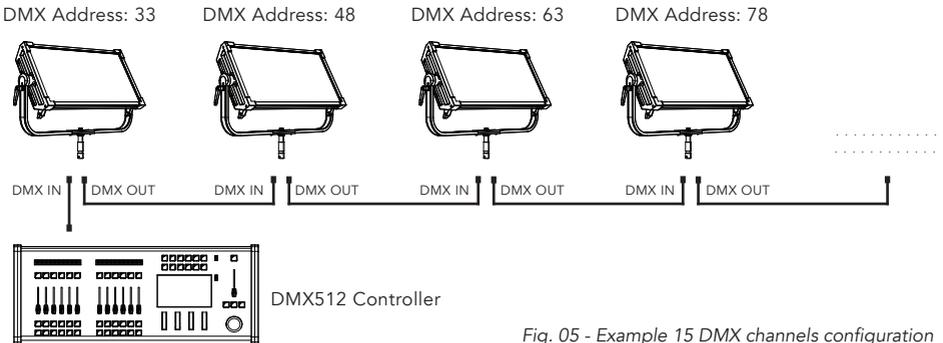


Fig. 05 - Example 15 DMX channels configuration

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.

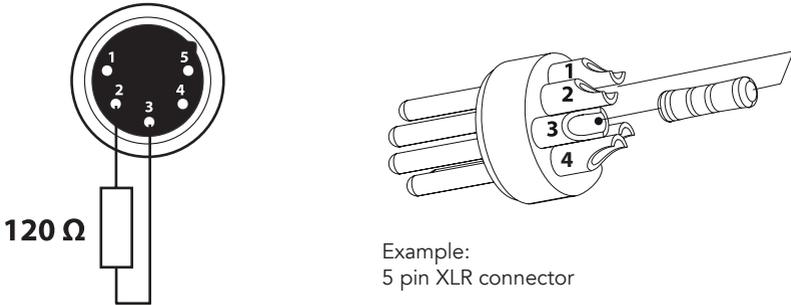


Fig. 06

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 for select Wireless, then press ENTER to confirm.
3. Enable TX UNLINK to ON 8 (please note that TX UNLINK will be available only if WDMX mode is set to Transmitter).
 - All connected receivers will be unlinked.

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

Reset the receiver

Follow the procedure below to reset the receiver.

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

WDMX TO DMX (RX)

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

8 - CONTROL PANEL

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

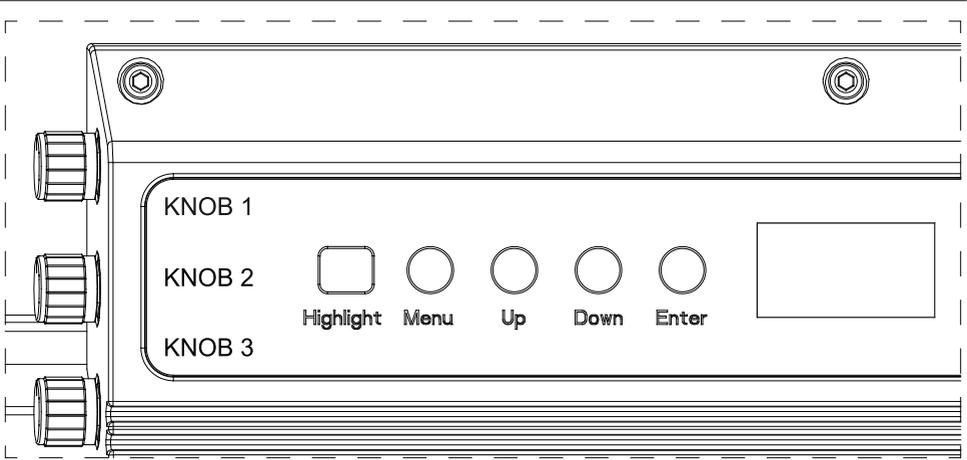


Fig. 07

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		DMX Address	Value (001-512)											
1	CONNECT	DMX Mode	Theater	1CH	<table border="1"> <tr> <td colspan="2">Amber Shift On</td> <td rowspan="2">Hue (-025÷025) Hue=0</td> </tr> <tr> <td>Color Temperature</td> <td> 2800K 3200K 3500K 4000K 4500K 5000K 5600K 6000K </td> <td> 6500K 7000K 7500K 8000K 8500K 9000K 9500K 10000K </td> </tr> <tr> <td>Manual Color</td> <td> Red (000÷255) Green (000÷255) Blue (000÷255) White (000÷255) </td> <td></td> </tr> </table>	Amber Shift On		Hue (-025÷025) Hue=0	Color Temperature	2800K 3200K 3500K 4000K 4500K 5000K 5600K 6000K	6500K 7000K 7500K 8000K 8500K 9000K 9500K 10000K	Manual Color	Red (000÷ 255) Green (000÷ 255) Blue (000÷ 255) White (000÷ 255)	
				Amber Shift On		Hue (-025÷025) Hue=0								
			Color Temperature	2800K 3200K 3500K 4000K 4500K 5000K 5600K 6000K			6500K 7000K 7500K 8000K 8500K 9000K 9500K 10000K							
			Manual Color	Red (000÷ 255) Green (000÷ 255) Blue (000÷ 255) White (000÷ 255)										
			2CH											
			4CH											
			5CH1											
			5CH2											
			6CH											
			10CH											
	15CH													
	17CH													
	21CH													
	Tour	4CH												
	6CH													
	10CH													
	11CH													
	15CH													
Pixel	1													
	2H													
	2V													
	4H													
	4V													
	8													
Film	12CH													
	<u>20CH</u>													
	17CH													
	33CH													
	65CH													
	129CH													
	XY													
Wireless	WDMX ON/OFF	On- Off	Enable/Disable the wireless card.											
	WDMX mode	Transmitter Receiver	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 10 s 20 s 30 s	Select the timing after that display will switch automatically off when inactive.	
			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					
3	ADVANCED	Full On Mode	HB Studio		HB - High Brightness Mode, delivering the full output on every primary color Studio - Calibrated white output at 6000K, when all primary colors are set to full.	
		Dimmer Curve	Linear S-Curve Square Law Inverse Square Law High Res@Low			
		Dimmer Mode	Off Dimmer 1 Dimmer 2 Dimmer 3		Dimmer Mode defines speed of the dimmer. Dimmer 1 is fastest, Dimmer 3 is slowest.	
		Dimmer End	Snap Off @ End Fade 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.	
		Color Calibration	White Balance	Off		Disable the White Calibration at full.
				Adjust	Red Green Blue White	Manually adjust color calibration.
			Calibrated			Manufacturer calibration to grant performance and color consistency.
		Led Frequency	600Hz 1200 Hz 2000 Hz 4000 Hz 6000Hz 25kHz 36kHz			Select PWM frequency.
		Fan Mode (Standard)	Constant Output	Auto On Off Silent1 Silent2		Select the product Fan mode for Standard mode. Constant Output: fixture will decrease immediately light output. Note: fixture will lower light output in case of Silent1, Silent2 and OFF. Dynamic Output: fixture will have variable light output in order to keep a safe running temperature.
			Dynamic Output			
Fan Mode (Film)	Auto On Off Silent1 Silent2 Quiet1 Quiet2 Turbo			Select the product Fan mode for Film mode. Quiet1 and Quiet2 start to dim light down only when fixture gets near to the thermal protection threshold. Fan speeds are constant.		
Factory Reload	Standard	No/Yes		Reload fixture with Standard settings.		
	Film	No/Yes		Reload fixture with Film settings.		
4	INFORMATION	Fixture Time	0+9999		View informations about product operating lifetime.	
		Disp Version	V2.8			
		Drv Version	V2.8			
		RDM UID	15D0022F****		View the UID of the product (RDM control).	
		Calibration	MASTER/LED		View Calibration used.	

5	STAND ALONE	Master/Slave	Master Master No Dmx Slave	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.
		Effect	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 Matching	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

STANDALONE BEHAVIOUR

Fixture will have two different behaviour between Standard or Film factory reload.

STANDARD

If no Standalone mode selected, after unplugging DMX signal fixture will keep last DMX frame.

If a Standalone mode was previously selected, after unplugging DMX signal fixture will go into Standalone mode selected.

If fixture is booted up without DMX signal plugged in it will go into selected Standalone Mode.

FILM

If no Standalone mode selected, after unplugging DMX signal fixture will keep last DMX frame.

If a Standalone mode was previously selected, after unplugging DMX signal fixture will keep last DMX frame, as soon as knobs are touched fixture will activate selected standalone.

If fixture is booted up without DMX signal plugged in it will stay in Blackout also if a Standalone mode was selected previously, as soon as knobs are touched fixture will activate selected standalone.

10 - SHORTCUT

KEYS	MODE	DESCRIPTION
UP + DOWN after power on	Flip Display	Directly flip display and knob order without enter inside 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.
ENTER + UP then power on	Bootloader	Force firmware upgrade.

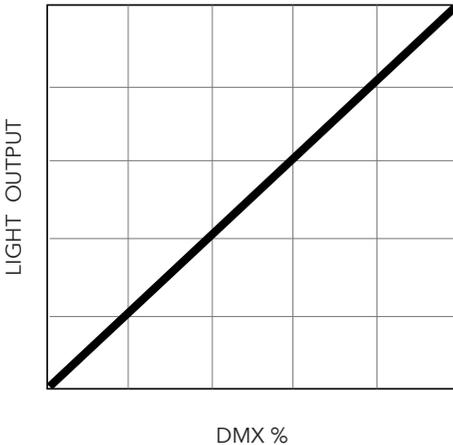
11 - DIMMER CURVES

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.

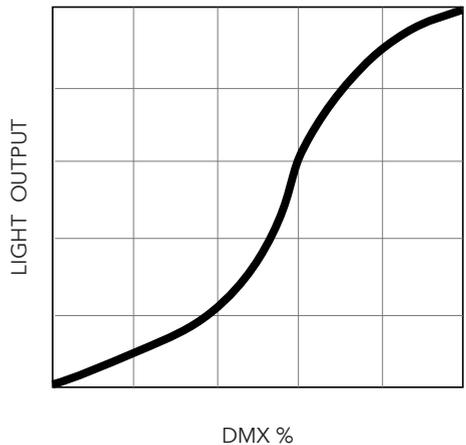
1

LINEAR



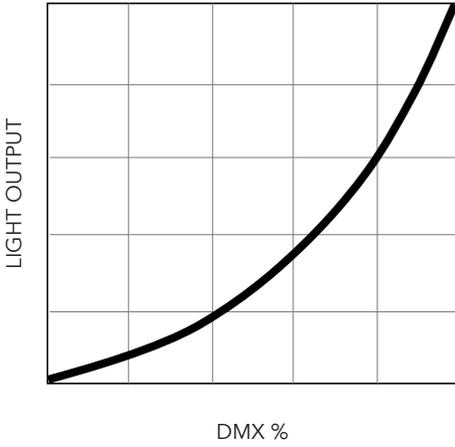
2

S-CURVE



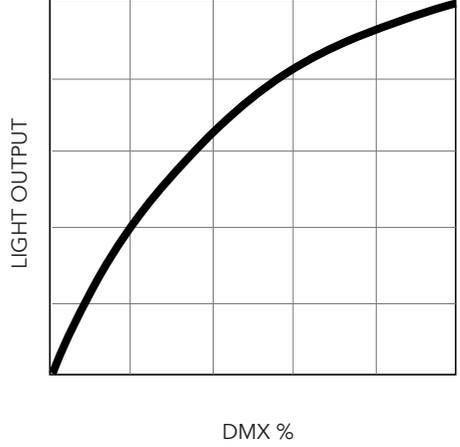
3

SQUARE LAW



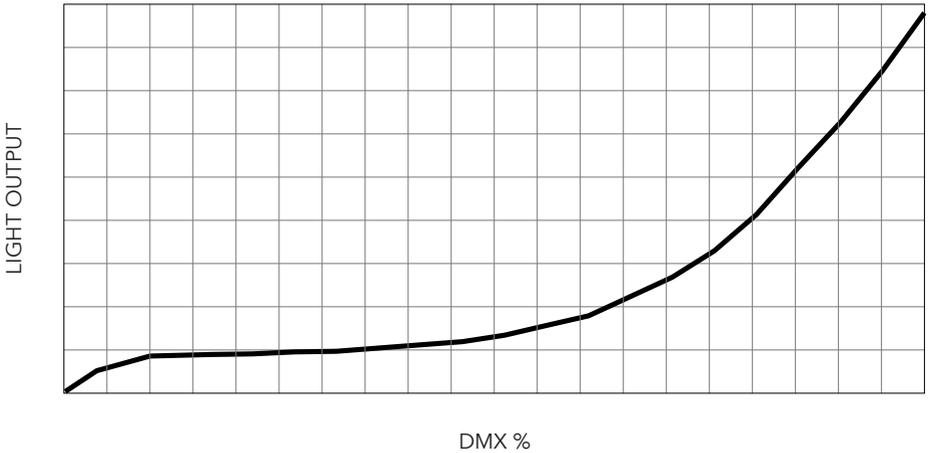
4

INVERSE SQUARE LAW



5

HIGHRES@LOW



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.

PARAMETER	PID	GET	SET
DEVICE_MODEL_DESCRIPTION	0x0080	x	
MANUFACTURER_LABEL	0x0081	x	
DEVICE_LABEL	0x0082	x	x
FACTORY_DEFAULTS	0x0090	x	x
SOFTWARE_VERSION_LABEL	0x00C0	x	
DMX_PERSONALITY	0x00E0	x	x
DMX_PERSONALITY_DESCRIPTION	0x00E1	x	
DMX_START_ADDRESS	0x00F0	x	x
SENSOR_DEFINITION (<i>LED temperature sensor</i>)	0x0200	x	
CURVE	0x0343	x	x
CURVE_DESCRIPTION	0x0344	x	
OUTPUT_RESPONSE_TIME	0x0345	x	x
OUTPUT_RESPONSE_TIME_DESCRIPTION	0x0346	x	
MODULATION_FREQUENCY	0x0347	x	x
MODULATION_FREQUENCY_DESCRIPTION	0x0348	x	
DEVICE_HOURS	0x0400	x	
DISPLAY_INVERT	0x0500	x	x
IDENTIFY_DEVICE	0x1000	x	x
Full On Mode 0:HB 1:Studio (<i>Custom</i>)	0x8217	x	x
Factory Reload 0: Standard 1:Film (<i>Custom</i>)	0x8300	x	x
Calibration: Off, Adjust, Calibrated	0x822F	x	x

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 SELEC- TION
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	DIMMER 0÷100%	000 ÷ 255	000
			2				2	2	2	DIMMER FINE 0÷100%	000 ÷ 255	000
								5	5	HUE 25 to 0 0 0 to +25	000 ÷ 126 127 ÷ 127 128 ÷ 255	127
								6	6	CROSSFADE FROM CCT TO COLOR 0÷100%	000 ÷ 255	000
						2	3	7	7	RED 0÷100%	000 ÷ 255	000
							4	8	8	RED FINE 0÷100%	000 ÷ 255	000
						3	5	9	9	GREEN 0÷100%	000 ÷ 255	000
							6	10	10	GREEN FINE 0÷100%	000 ÷ 255	000
						4	7	11	11	BLUE 0÷100%	000 ÷ 255	000
							8	12	12	BLUE FINE 0÷100%	000 ÷ 255	000
						5	9	13	13	WHITE 0÷100%	000 ÷ 255	000
							10	14	14	WHITE FINE 0÷100%	000 ÷ 255	000
		2	3	2	2			4	4	CCT 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			CCT 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			HUE 0 -25°÷25°	000 ÷ 000 001 ÷ 255	000
				4	4	8	13	3	3	STROBE 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	15	COLOR MACRO 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	CTO ON COLORS 0+100%	000 ÷ 255	000
	2	4	5	5	6	10	15	17	17	DIMMER FADE Read from menu 0+100%	000 ÷ 000 001 ÷ 255	000
									18	FX SELECTION 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	FX SPEED 0+100%	000 ÷ 255	000
									20	FX FADE 0+100%	000 ÷ 255	000
									21	CONTROL CHANNEL 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 MODE OFF DIMMER MODE 1 DIMMER MODE 2 DIMMER MODE 3 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 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 ÷ 253 254 ÷ 255	000

* Color Macro for 21CH: please refer to next list for values.

COLOR MACRO 21CH			
Open	000 ÷ 001	Dark Yellow Green	090 ÷ 091
Red	002 ÷ 003	Just Blue	092 ÷ 093
Green	004 ÷ 005	Sky Blue	094 ÷ 095
Blue	006 ÷ 007	Lavender	096 ÷ 097
Cyan	008 ÷ 009	Light Lavender	098 ÷ 099
Magenta	010 ÷ 011	Pink Carnation	100 ÷ 101
Yellow	012 ÷ 013	Medium Pink	102 ÷ 103
Dirty White	014 ÷ 015	Light Pink	104 ÷ 105
Alice Blue	016 ÷ 017	Sunset Red	106 ÷ 107
Congo Blue	018 ÷ 019	Dark Amber	108 ÷ 109
Dark Steel Blue	020 ÷ 021	Gold Amber	110 ÷ 111
Deep Lavender	022 ÷ 023	Medium Amber	112 ÷ 113
Lilac Ting	024 ÷ 025	Fire	114 ÷ 115
Daylight Blue	026 ÷ 027	Surprise Peach	116 ÷ 117
Flame Red	028 ÷ 029	Straw Tint	118 ÷ 119
Bastard Amber	030 ÷ 031	Medium Yellow	120 ÷ 121
Deep Orange	032 ÷ 033	Lee Minus Green	122 ÷ 123
Pale Gold	034 ÷ 035	Pale Gold	124 ÷ 125
Apricot	036 ÷ 037	Orange	126 ÷ 127
Bright Blue	038 ÷ 039	Deep Straw	128 ÷ 129
Primary Green	040 ÷ 041	Rose Purple	130 ÷ 131
Special Lavender	042 ÷ 043	Deep Purple	132 ÷ 133
Pale Lavender	044 ÷ 045	Soft Green	134 ÷ 135
Deep Golden Amber	046 ÷ 047	Reserved	136 ÷ 211
Medium Blue	048 ÷ 049	2800K	212 ÷ 213
Bright Pink	050 ÷ 051	3000K	214 ÷ 215
Mauve	052 ÷ 053	3200K	216 ÷ 217
Dark Green	054 ÷ 055	3400K	218 ÷ 219
Lee Green	056 ÷ 057	3600K	220 ÷ 221
Dark Blue	058 ÷ 059	3800K	222 ÷ 223
Light Blue	060 ÷ 061	4000K	224 ÷ 225
Steel Blue	062 ÷ 063	4200K	226 ÷ 227
Medium Blue-Green	064 ÷ 065	4400K	228 ÷ 229
Peacock Blue	066 ÷ 067	4600K	230 ÷ 231
Magenta	068 ÷ 069	4800K	232 ÷ 233
Dark Pink	070 ÷ 071	5000K	234 ÷ 235
Middle Rose	072 ÷ 073	5200K	236 ÷ 237
Light Salmon	074 ÷ 075	5400K	238 ÷ 239
English Rose	076 ÷ 077	5600K	240 ÷ 241
Light Rose	078 ÷ 079	6000K	242 ÷ 243
Orange	080 ÷ 081	6500K	244 ÷ 245
Deep Amber	082 ÷ 083	7000K	246 ÷ 247
Straw	084 ÷ 085	8000K	248 ÷ 249
Light Amber	086 ÷ 087	9000K	250 ÷ 251
Spring Yellow	088 ÷ 089	10000K	252 ÷ 253
		Full On	254 ÷ 255

TOUR

Channel	4 Ch	6 Ch	10 Ch	11 Ch	15 Ch
1	RED	DIMMER	DIMMER	DIMMER	DIMMER
2	GREEN	RED	RED	DIMMER FINE	DIMMER FINE
3	BLUE	GREEN	GREEN	RED	RED
4	WHITE	BLUE	BLUE	RED FINE	RED FINE
5		WHITE	WHITE	GREEN	GREEN
6		STROBE	STROBE	GREEN FINE	GREEN FINE
7			CCT	BLUE	BLUE
8			EFFECTS	BLUE FINE	BLUE FINE
9			EFFECTS SPEED	WHITE	WHITE
10			DIMMER FADE	WHITE FINE	WHITE FINE
11				STROBE	STROBE
12					CCT
13					EFFECTS
14					EFFECTS SPEED
15					DIMMER FADE

TOUR

4 Ch	6 Ch	10 Ch	11 Ch	15 Ch	FUNCTION	DMX Value	Default
	1	1	1	1	DIMMER 0÷100%	000 ÷ 255	000
			2	2	DIMMER FINE 0÷100%	000 ÷ 255	000
1	2	2	3	3	RED 0÷100%	000 ÷ 255	255
			4	4	RED FINE 0÷100%	000 ÷ 255	255
2	3	3	5	5	GREEN 0÷100%	000 ÷ 255	255
			6	6	GREEN FINE 0÷100%	000 ÷ 255	255
3	4	4	7	7	BLUE 0÷100%	000 ÷ 255	255
			8	8	BLUE FINE 0÷100%	000 ÷ 255	255
4	5	5	9	9	WHITE 0÷100%	000 ÷ 255	255
			10	10	WHITE FINE 0÷100%	000 ÷ 255	255
	6	6	11	11	STROBE Closed Strobe slow to fast Open Random slow to fast Open	000 ÷ 030 031 ÷ 100 101 ÷ 130 131 ÷ 200 201 ÷ 255	255
		7		12	CCT No Function 2800K 3200K 3500K 4000K 4500K 5000K 5600K 6000K 6500K No Function	000 ÷ 005 006 ÷ 030 031 ÷ 055 056 ÷ 080 081 ÷ 105 106 ÷ 130 131 ÷ 155 156 ÷ 180 181 ÷ 205 206 ÷ 230 231 ÷ 255	000
				13	EFFECTS 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	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	000

4 Ch	6 Ch	10 Ch	11 Ch	15 Ch	FUNCTION	DMX Value	Default
		8		13	Lighting Explosion Fluorescent Process Pulsing Welding	191 ÷ 200 201 ÷ 210 211 ÷ 220 221 ÷ 230 231 ÷ 240 241 ÷ 255	
		9		14	EFFECTS SPEED Speed slow to fast	000 ÷ 255	128
		10		15	DIMMER FADE Read from menu 0÷100%	000 ÷ 000 001 ÷ 255	000

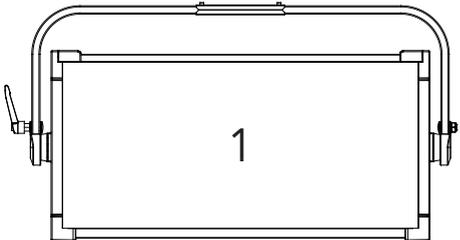
PIXEL

Channel	1	2V	2H	4V	4H	8
1	DIMMER	DIMMER	DIMMER	DIMMER	DIMMER	DIMMER
2	STROBE	STROBE	STROBE	STROBE	STROBE	STROBE
3	DIMMER FADE	DIMMER FADE	DIMMER FADE	DIMMER FADE	DIMMER FADE	DIMMER FADE
4	RED	RED1	RED1	RED1	RED1	RED1
5	GREEN	GREEN1	GREEN1	GREEN1	GREEN1	GREEN1
6	BLUE	BLUE1	BLUE1	BLUE1	BLUE1	BLUE1
7	WHITE	WHITE1	WHITE1	WHITE1	WHITE1	WHITE1
8		RED2	RED2	RED2	RED2	RED2
9		GREEN2	GREEN2	GREEN2	GREEN2	GREEN2
10		BLUE2	BLUE2	BLUE2	BLUE2	BLUE2
11		WHITE2	WHITE2	WHITE2	WHITE2	WHITE2
12				RED3	RED3	RED3
13				GREEN3	GREEN3	GREEN3
14				BLUE3	BLUE3	BLUE3
15				WHITE3	WHITE3	WHITE3
16				RED4	RED4	RED4
17				GREEN4	GREEN4	GREEN4
18				BLUE4	BLUE4	BLUE4
19				WHITE4	WHITE4	WHITE4
20						RED5
21						GREEN5

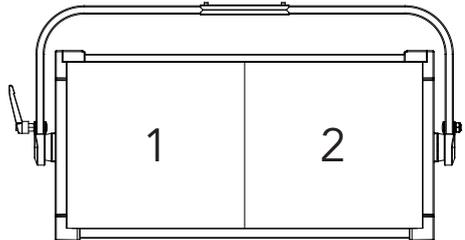
Channel	1	2V	2H	4V	4H	8
22						BLUE5
23						WHITE5
24						RED6
25						GREEN6
26						BLUE6
27						WHITE6
28						RED7
29						GREEN7
30						BLUE7
31						WHITE7
32						RED8
33						GREEN8
34						BLUE8
35						WHITE8

PIXEL LAYOUT

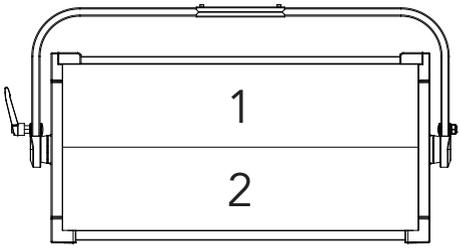
The following drawing describes the pixels distribution and their position on the product light emitting surface. Check the DMX mode selected to identify the related Pixel layout.



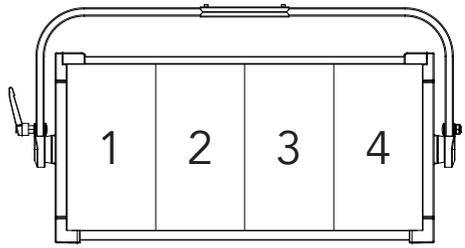
1 Pixel



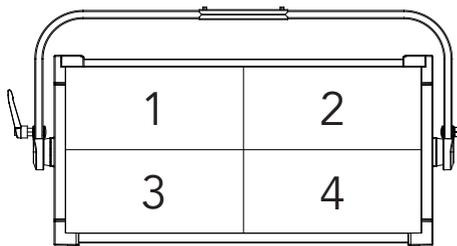
2V Pixel



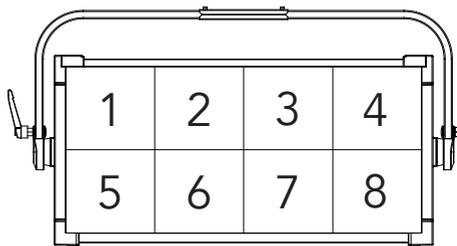
2H Pixel



4V Pixel



4H Pixel



8 Pixel

PIXEL

1	2V	2H	4H	4V	8	FUNCTION	DMX Value	Default
1	1	1	1	1	1	DIMMER 0÷100%	000 ÷ 255	000
2	2	2	2	2	2	STROBE Closed Strobe slow to fast Open Random slow to fast Open	000 ÷ 030 031 ÷ 100 101 ÷ 130 131 ÷ 200 201 ÷ 255	255
3	3	3	3	3	3	DIMMER FADE Read from menu 0÷100%	000 ÷ 000 001 ÷ 255	000
4						RED 0÷100%	000 ÷ 255	255
5						GREEN 0÷100%	000 ÷ 255	255
6						BLUE 0÷100%	000 ÷ 255	255
7						WHITE 0÷100%	000 ÷ 255	255
	4	4	4	4	4	RED1 0÷100%	000 ÷ 255	255
	5	5	5	5	5	GREEN1 0÷100%	000 ÷ 255	255
	6	6	6	6	6	BLUE1 0÷100%	000 ÷ 255	255
	7	7	7	7	7	WHITE1 0÷100%	000 ÷ 255	255
	8	8	8	8	8	RED2 0÷100%	000 ÷ 255	255
	9	9	9	9	9	GREEN2 0÷100%	000 ÷ 255	255
	10	10	10	10	10	BLUE2 0÷100%	000 ÷ 255	255
	11	11	11	11	11	WHITE2 0÷100%	000 ÷ 255	255
			12	12	12	RED3 0÷100%	000 ÷ 255	255
			13	13	13	GREEN3 0÷100%	000 ÷ 255	255
			14	14	14	BLUE3 0÷100%	000 ÷ 255	255

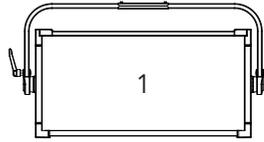
1	2V	2H	4H	4V	8	FUNCTION	DMX Value	Default
			15	15	15	WHITE3 0÷100%	000 ÷ 255	255
			16	16	16	RED4 0÷100%	000 ÷ 255	255
			17	17	17	GREEN4 0÷100%	000 ÷ 255	255
			18	18	18	BLUE4 0÷100%	000 ÷ 255	255
			19	19	19	WHITE4 0÷100%	000 ÷ 255	255
					20	RED5 0÷100%	000 ÷ 255	255
					21	GREEN5 0÷100%	000 ÷ 255	255
					22	BLUE5 0÷100%	000 ÷ 255	255
					23	WHITE5 0÷100%	000 ÷ 255	255
					24	RED6 0÷100%	000 ÷ 255	255
					25	GREEN6 0÷100%	000 ÷ 255	255
					26	BLUE6 0÷100%	000 ÷ 255	255
					27	WHITE6 0÷100%	000 ÷ 255	255
					28	RED7 0÷100%	000 ÷ 255	255
					29	GREEN7 0÷100%	000 ÷ 255	255
					30	BLUE7 0÷100%	000 ÷ 255	255
					31	WHITE7 0÷100%	000 ÷ 255	255
					32	RED8 0÷100%	000 ÷ 255	255
					33	GREEN6 0÷100%	000 ÷ 255	255
					34	BLUE6 0÷100%	000 ÷ 255	255
					35	WHITE6 0÷100%	000 ÷ 255	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
12Ch and 20Ch

PIXEL LAYOUT

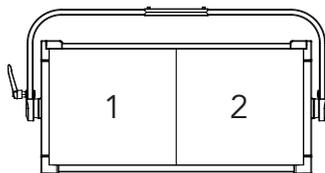


12Ch	20Ch	FUNCTION	DMX Value	Default
1	1	DIMMER 0÷100%	000 ÷ 255	000
	2	DIMMER FINE	000 ÷ 255	000
	3	CCT 2800K - 3000K 3000K - 3200K 3200K - 3400K 3400K - 3600K 3600K - 3800K 3800K - 4000K 4000K - 4200K 4200K - 4400K 4400K - 4600K 4600K - 4800K 4800K - 5000K 5000K - 5200K 5200K - 5400K 5400K - 5600K 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
	4	CCT FINE	000 ÷ 255	000
	5	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
	6	HUE FINE	000 ÷ 255	000
	7	CROSSFADE FROM CCT TO COLOR 0÷100%	000 ÷ 255	000
	8	CROSSFADE FROM CCT TO COLOR FINE	000 ÷ 255	000
	9	RED 0÷100%	000 ÷ 255	000
	10	RED FINE	000 ÷ 255	000

12Ch	20Ch	FUNCTION	DMX Value	Default
6	11	GREEN 0÷100%	000 ÷ 255	000
	12	GREEN FINE	000 ÷ 255	000
7	13	BLUE 0÷100%	000 ÷ 255	000
	14	BLUE FINE	000 ÷ 255	000
8	15	WHITE 0÷100%	000 ÷ 255	000
	16	WHITE FINE	000 ÷ 255	000
9	17	FAN CONTROL Use Fan Mode setting of fixture menu	000 ÷ 009	000
		QUIET 1 Mode AUTO Mode TURBO Mode Not Used QUIET 2 Mode Off Mode	010 ÷ 057 058 ÷ 105 106 ÷ 153 154 ÷ 201 202 ÷ 249 250 ÷ 255	
10	18	COLOR MACRO 21CH	000 ÷ 001	
		Open	002 ÷ 003	
Red	004 ÷ 005			
Green	006 ÷ 007			
Blue	008 ÷ 009			
Cyan	010 ÷ 011			
Magenta	012 ÷ 013			
Yellow	014 ÷ 015			
Dirty White	016 ÷ 017			
Alice Blue	018 ÷ 019			
Congo Blue	020 ÷ 021			
Dark Steel Blue	022 ÷ 023			
Deep Lavender	024 ÷ 025			
Lilac Ting	026 ÷ 027			
Daylight Blue	028 ÷ 029			
Flame Red	030 ÷ 031			
Bastard Amber	032 ÷ 033			
Deep Orange	034 ÷ 035			
Pale Gold	036 ÷ 037			
Apricot	038 ÷ 039			
Bright Blue	040 ÷ 041			
Primary Green	042 ÷ 043			
Special Lavender	044 ÷ 045			
Pale Lavender	046 ÷ 047			
Deep Golden Amber	048 ÷ 049			
Medium Blue	050 ÷ 051			
Bright Pink	052 ÷ 053			
Mauve	054 ÷ 055			
Dark Green	056 ÷ 057			
Lee Green	058 ÷ 059			
Dark Blue	060 ÷ 061			
Light Blue	062 ÷ 063			
Steel Blue	064 ÷ 065			
Medium Blue-Green	066 ÷ 067			
Peacock Blue	068 ÷ 069			
Magenta	070 ÷ 071			
Dark Pink	072 ÷ 073			
Middle Rose	074 ÷ 075			
Light Salmon	076 ÷ 077			
English Rose	078 ÷ 079			
Light Rose	080 ÷ 081			
Orange	082 ÷ 083			
Deep Amber	084 ÷ 085			
Straw	086 ÷ 087			
Light Amber	088 ÷ 089			
Spring Yellow	090 ÷ 091			
Dark Yellow Green	092 ÷ 093			
Just Blue	094 ÷ 095			
Sky Blue	096 ÷ 097			
Lavender	098 ÷ 099			
Light Lavender				

12Ch	20Ch	FUNCTION	DMX Value	Default
10	18	Pink Carnation	100 + 101	
		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	19	STROBE		000
		Open 1 flash/s -> 25 flashes/s	000-019 020-255	
12	20	CONTROL CHANNEL		000
		No Function	000 + 001	
		FAN MODE AUTO CONST. OUT.	002 + 003	
		FAN MODE ON CONST. OUT.	004 + 005	
		FAN MODE OFF CONST. OUT.	006 + 007	
		FAN MODE SILENT 1 CONST. OUT.	008 + 009	
		FAN MODE SILENT 2 CONST. OUT.	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 OUT.	026 + 027	
		FAN MODE ON DYNAMIC OUT.	028 + 029	
		FAN MODE OFF DYNAMIC OUT.	030 + 031	
		FAN MODE SILENT 1 DYNAMIC OUT.	032 + 033	
		FAN MODE SILENT 2 DYNAMIC OUT.	034 + 035	
		DIMMER MODE OFF	036 + 037	
		DIMMER MODE 1	038 + 039	
		DIMMER MODE 2	040 + 041	
		DIMMER MODE 3	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			
RESERVED	058 + 253			
RESET ALL CHANNELS CONTROLLED	254 + 255			

PIXEL LAYOUT



FILM

17Ch and 33Ch

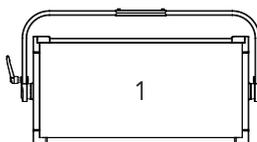
17Ch	33Ch	FUNCTION	DMX Value	Default
1	1	PIXEL 1 DIMMER 0÷100%	000 ÷ 255	000
	2	PIXEL 1 DIMMER FINE	000 ÷ 255	000
2	3	PIXEL 1 CCT 2800K - 3000K 3000K - 3200K 3200K - 3400K 3400K - 3600K 3600K - 3800K 3800K - 4000K 4000K - 4200K 4200K - 4400K 4400K - 4600K 4600K - 4800K 4800K - 5000K 5000K - 5200K 5200K - 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
	4	PIXEL 1 CCT FINE	000 ÷ 255	000
3	5	PIXEL 1 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
	6	PIXEL 1 HUE FINE	000 ÷ 255	000
4	7	PIXEL 1 CROSSFADE FROM CCT TO COLOR 0÷100%	000 ÷ 255	000
	8	PIXEL 1 CROSSFADE FROM CCT TO COLOR FINE	000 ÷ 255	000
5	9	PIXEL 1 RED 0÷100%	000 ÷ 255	000

17Ch	33Ch	FUNCTION	DMX Value	Default
	10	PIXEL 1 RED FINE	000 ÷ 255	000
6	11	PIXEL 1 GREEN 0÷100%	000 ÷ 255	000
	12	PIXEL 1 GREEN FINE	000 ÷ 255	000
7	13	PIXEL 1 BLUE 0÷100%	000 ÷ 255	000
	14	PIXEL 1 BLUE FINE	000 ÷ 255	000
8	15	PIXEL 1 WHITE 0÷100%	000 ÷ 255	000
	16	PIXEL 1 WHITE FINE	000 ÷ 255	000
9	17	PIXEL 2 DIMMER 0÷100%	000 ÷ 255	000
	18	PIXEL 2 DIMMER FINE	000 ÷ 255	000
10	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
11	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
12	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

17Ch	33Ch	FUNCTION	DMX Value	Default
13	25	PIXEL 2 RED 0÷100%	000 ÷ 255	000
	26	PIXEL 2 RED FINE	000 ÷ 255	000
14	27	PIXEL 2 GREEN 0÷100%	000 ÷ 255	000
	28	PIXEL 2 GREEN FINE	000 ÷ 255	000
15	29	PIXEL 2 BLUE 0÷100%	000 ÷ 255	000
	30	PIXEL 2 BLUE FINE	000 ÷ 255	000
16	31	PIXEL 2 WHITE 0÷100%	000 ÷ 255	000
	32	PIXEL 2 WHITE FINE	000 ÷ 255	000
17	33	CONTROL Use Fan Mode setting of fixture menu QUIET 1 Mode AUTO Mode TURBO Mode AUTO Mode (AUTO CO) SILENT 1 Mode (SILENT 1 CO) SILENT 2 Mode (SILENT 2 CO) HIGH Mode (HIGH CO) OFF Mode (OFF CO) DIMMER MODE OFF DIMMER MODE 1 DIMMER MODE 2 DIMMER MODE 3 DIMMER CURVE LINEAR DIMMER CURVE S-CURVE DIMMER CURVE SQUARE LAW DIMMER CURVE INV. SQUARE LAW DIMMER CURVE HIGH RES@LOW LED FREQUENCY 600HZ LED FREQUENCY 1200HZ LED FREQUENCY 2000HZ LED FREQUENCY 4000HZ LED FREQUENCY 6000HZ LED FREQUENCY 25KHZ LED FREQUENCY 36KHZ DIMMER END SNAP OFF @ END RESET ALL CHANNELS CONTROLLED DIMMER END FADE OFF @ END QUIET 2 Mode Off Mode	000 ÷ 009 010 ÷ 057 058 ÷ 105 106 ÷ 153 154 ÷ 155 156 ÷ 157 158 ÷ 159 160 ÷ 161 162 ÷ 163 164 ÷ 165 166 ÷ 167 168 ÷ 169 170 ÷ 171 172 ÷ 173 174 ÷ 175 176 ÷ 177 178 ÷ 179 180 ÷ 181 182 ÷ 183 184 ÷ 185 186 ÷ 187 188 ÷ 189 190 ÷ 191 192 ÷ 193 194 ÷ 195 196 ÷ 197 198 ÷ 199 200 ÷ 201 202 ÷ 249 250 ÷ 255	000

FILM
XY Mode

PIXEL LAYOUT



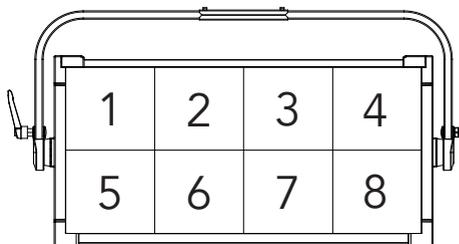
XY	FUNCTION	DMX Value	Default
1	DIMMER 0÷100%	000 ÷ 255	000
2	DIMMER FINE	000 ÷ 255	000
3	STROBE Closed Strobe slow to fast Open Random slow to fast Open	000 ÷ 030 031 ÷ 100 101 ÷ 130 131 ÷ 200 201 ÷ 255	255
3	CCT Open 2800K - 3000K 3000K - 3200K 3200K - 3400K 3400K - 3600K 3600K - 3800K 3800K - 4000K 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	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
6	X 1 0.00 ÷ 0.85	000 ÷ 255	000
7	X 1 FINE	000 ÷ 255	000

XY	FUNCTION	DMX Value	Default
8	Y 1 0.00 ÷ 0.85	000 ÷ 255	000
9	Y 1 FINE	000 ÷ 255	000
10	CROSSFADE FROM LAYER 1 TO LAYER 2 0÷100%	000 ÷ 255	000
11	X 2 0.00 ÷ 0.85	000 ÷ 255	000
12	X 2 FINE	000 ÷ 255	000
13	Y 2 0.00 ÷ 0.85	000 ÷ 255	000
14	Y 2 FINE	000 ÷ 255	000
15	COLOR MACRO 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	CTO ON COLORS 0÷100%	000 ÷ 255	000
17	CONTROL CHANNEL 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 MODE OFF DIMMER MODE 1 DIMMER MODE 2 DIMMER MODE 3 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 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 ÷ 253 254 ÷ 255	000

FILM
65Ch and 129Ch

Ch	FILM 65Ch	Ch	FILM 129Ch
1	CONTROL	1	CONTROL
2	PIXEL 1 DIMMER	2	PIXEL 1 DIMMER
3	PIXEL 1 CCT	3	PIXEL 1 DIMMER FINE
4	PIXEL 1 HUE	4	PIXEL 1 CCT
5	PIXEL 1 CROSSFADE FROM CCT TO COLOR	5	PIXEL 1 CCT FINE
6	PIXEL 1 RED	6	PIXEL 1 HUE
7	PIXEL 1 GREEN	7	PIXEL 1 HUE FINE
8	PIXEL 1 BLUE	8	PIXEL 1 CROSSFADE FROM CCT TO COLOR
9	PIXEL 1 WHITE	9	PIXEL 1 CROSSFADE FROM CCT TO COLOR FINE
10	PIXEL 2 DIMMER	10	PIXEL 1 RED
	...	11	PIXEL 1 RED FINE
58	PIXEL 8 DIMMER	12	PIXEL 1 GREEN
59	PIXEL 8 CCT	13	PIXEL 1 GREEN FINE
60	PIXEL 8 HUE	14	PIXEL 1 BLUE
61	PIXEL 8 CROSSFADE FROM CCT TO COLOR	15	PIXEL 1 BLUE FINE
62	PIXEL 8 RED	16	PIXEL 1 WHITE
63	PIXEL 8 GREEN	17	PIXEL 1 WHITE FINE
64	PIXEL 8 BLUE	18	PIXEL 2 DIMMER
65	PIXEL 8 WHITE
PIXEL LAYOUT		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		



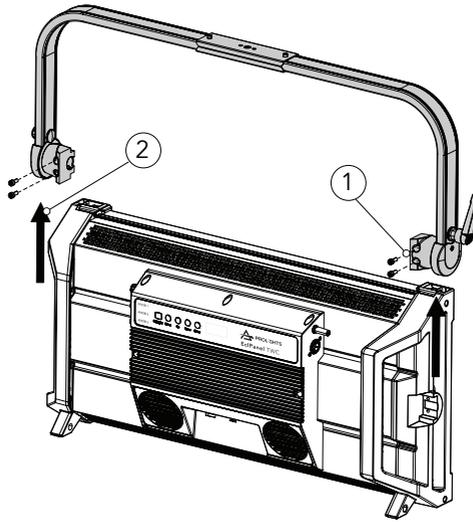
65Ch	129Ch	FUNCTION	DMX Value	Default
1	1	CONTROL CHANNEL		
		No Function	000 ÷ 001	
		FAN MODE AUTO CONST. OUT.	002 ÷ 003	
		FAN MODE ON CONST. OUT.	004 ÷ 005	
		FAN MODE OFF CONST. OUT.	006 ÷ 007	
		FAN MODE SILENT 1 CONST. OUT.	008 ÷ 009	
		FAN MODE SILENT 2 CONST. OUT.	010 ÷ 011	
		LED FREQUENCY 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 OUT.	026 ÷ 027	
		FAN MODE ON DYNAMIC OUT.	028 ÷ 029	
		FAN MODE OFF DYNAMIC OUT.	030 ÷ 031	
		FAN MODE SILENT 1 DYNAMIC OUT.	032 ÷ 033	
		FAN MODE SILENT 2 DYNAMIC OUT.	034 ÷ 035	
		DIMMER MODE OFF	036 ÷ 037	
		DIMMER MODE 1	038 ÷ 039	
DIMMER MODE 2	040 ÷ 041			
DIMMER MODE 3	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			
RESERVED	058 ÷ 253			
RESET ALL CHANNELS CONTROLLED	254 ÷ 255			
2	2	PIXEL 1 DIMMER 0÷100%	000 ÷ 255	000
	3	PIXEL 1 DIMMER FINE	000 ÷ 255	000
3	4	PIXEL 1 CCT 2200÷15000K	000 ÷ 255	000
	5	PIXEL 1 CCT FINE	000 ÷ 255	000
4	6	PIXEL 1 HUE Neutral -100 to -1 Green Neutral +1 to +100 Green	000 ÷ 010 011 to 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
5	9	PIXEL 1 CROSSFADE FROM CCT TO COLOR FINE	000 ÷ 255	000
	10	PIXEL 1 RED 0÷100%	000 ÷ 255	000
6	11	PIXEL 1 RED FINE	000 ÷ 255	000
	12	PIXEL 1 GREEN 0÷100%	000 ÷ 255	000
7	13	PIXEL 1 GREEN FINE	000 ÷ 255	000
	14	PIXEL 1 BLUE 0÷100%	000 ÷ 255	000
8	15	PIXEL 1 BLUE FINE	000 ÷ 255	000
	16	PIXEL 1 WHITE 0÷100%	000 ÷ 255	000
9	17	PIXEL 1 WHITE FINE	000 ÷ 255	000
	18	PIXEL 2 DIMMER 0÷100%	000 ÷ 255	000

65Ch	129Ch	FUNCTION	DMX Value	Default
...		
58	114	PIXEL 8 DIMMER 0÷100%	000 ÷ 255	000
	115	PIXEL 8 DIMMER FINE	000 ÷ 255	000
59	116	PIXEL 8 CCT 2200÷15000K	000 ÷ 255	000
	117	PIXEL 8 CCT FINE	000 ÷ 255	000
60	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
61	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
62	122	PIXEL 8 RED 0÷100%	000 ÷ 255	000
	123	PIXEL 8 RED FINE	000 ÷ 255	000
63	124	PIXEL 8 GREEN 0÷100%	000 ÷ 255	000
	125	PIXEL 8 GREEN FINE	000 ÷ 255	000
64	126	PIXEL 8 BLUE 0÷100%	000 ÷ 255	000
	127	PIXEL 8 BLUE FINE	000 ÷ 255	000
65	128	PIXEL 8 WHITE 0÷100%	000 ÷ 255	000
	129	PIXEL 8 WHITE FINE	000 ÷ 255	000

14 - ACCESSORIES INSTALLATION

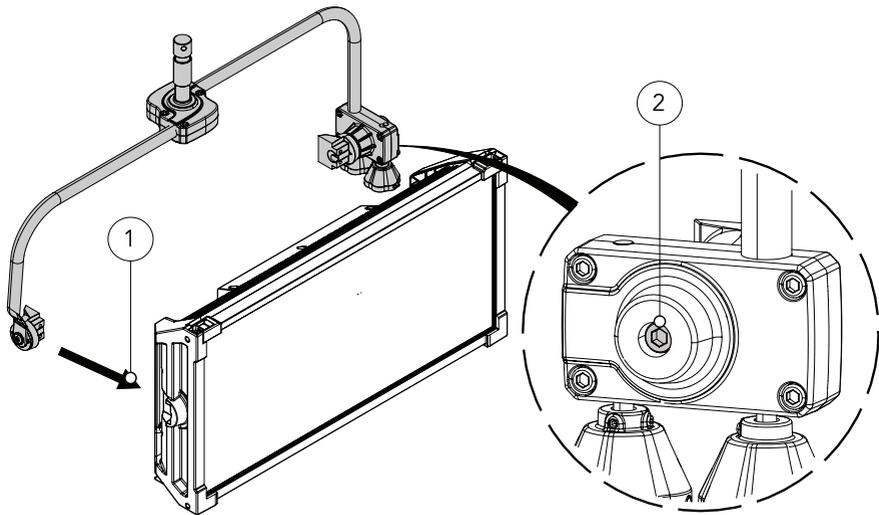
THE POLE OPERATED YOKE (CODE ECLPANELPOYO - OPTIONAL)

1



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

2

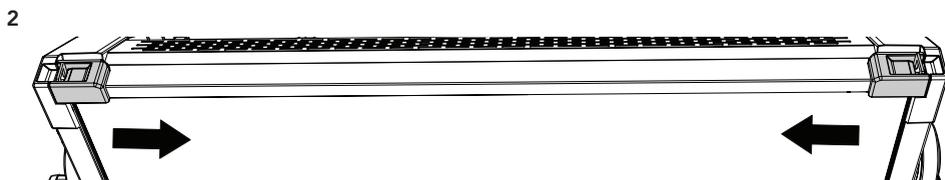
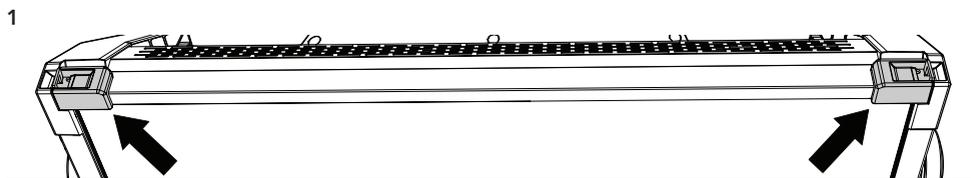


Mount the Pole Operated bracket Yoke (1) and tighten the four M5 screws removed earlier (point 1 of the image above). Then tighten the M8 screw (2).

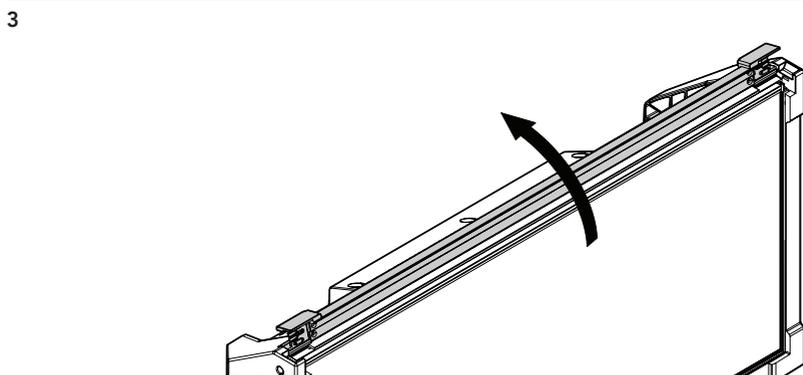
NOTE: to adjust the holding torque of the clutch system of the TILT movement, please tight the indicated M8 screw (2) with 6 mm allen key.

Fig. 08

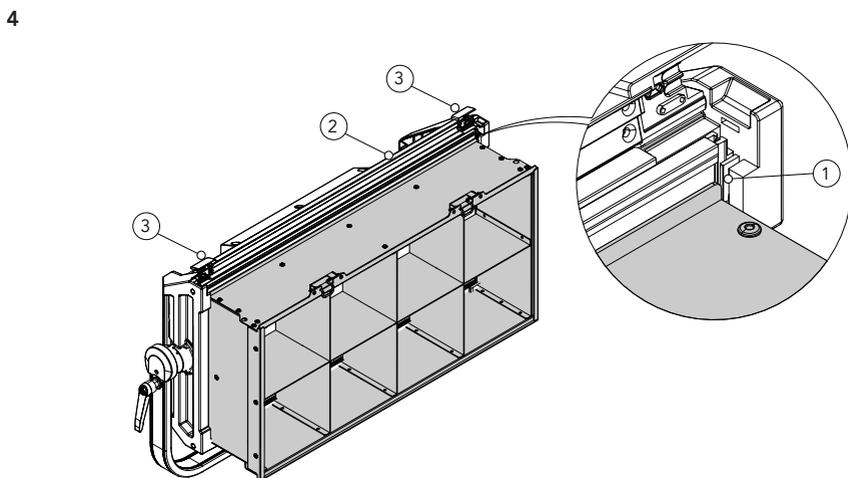
RIGID EGG CRATES (CODES EPTWCEC4C, EPTWCEC30, EPTWCEC60 - OPTIONAL)



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



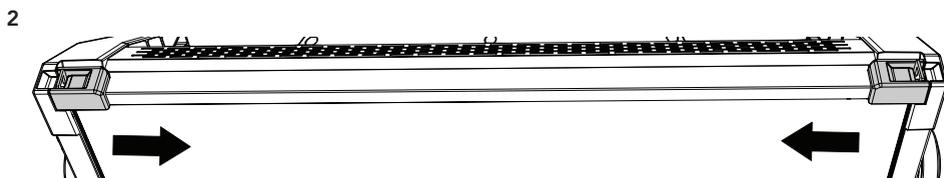
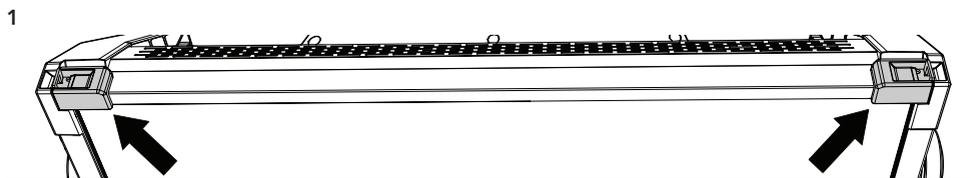
Open the holder plate by turning it upwards (3).



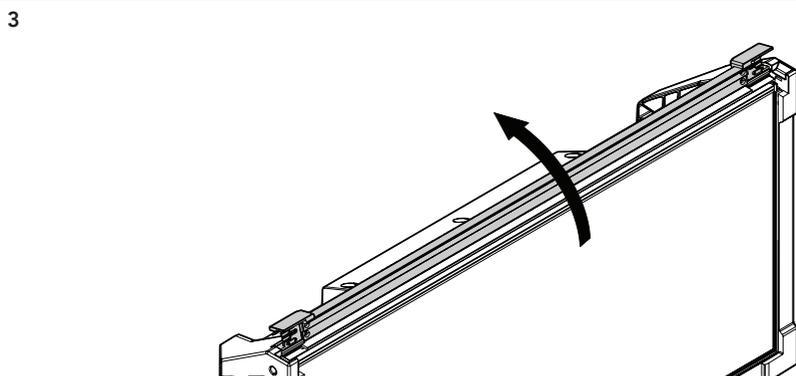
Insert the egg crate, inside the track guides (1). Then close the plate (2) and re-position the tabs outwards (3).

Fig. 09

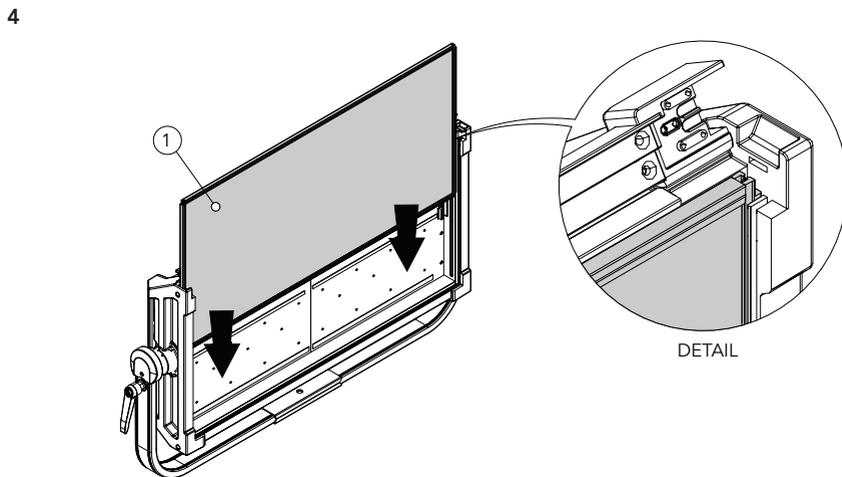
DIFFUSION FILTERS (CODES EPTWCFILTERHD, EPTWCFILTERMD, EPTWCFILTERLD - OPTIONAL)



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



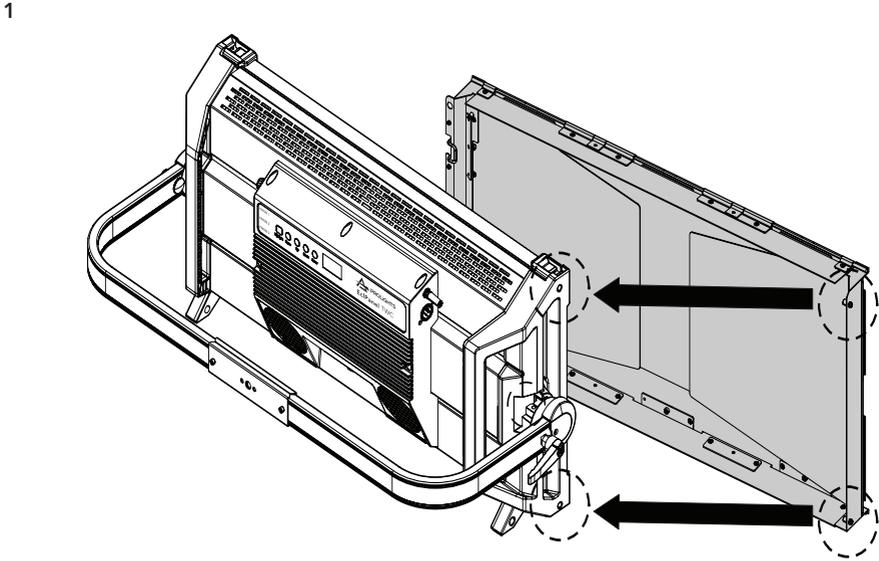
Open the holder plate by turning it upwards (3).



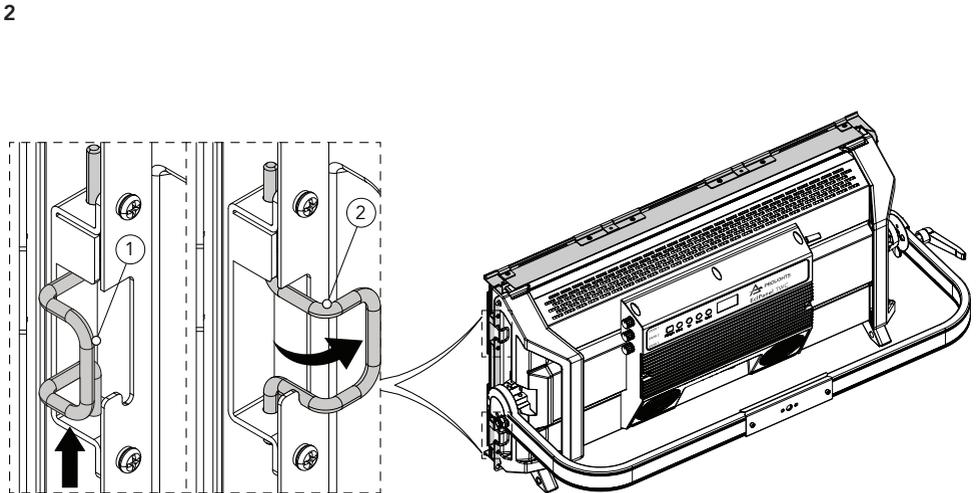
Insert the diffuser filter, inside the track guides (1). Then close the plate and re-position the tabs outdoors.

Fig. 10

BARN DOOR (CODE EPTWCBDR2 - OPTIONAL)



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



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"> No power to the product. 	<ul style="list-style-type: none"> Check that power is switched ON and cables are plugged in.
	<ul style="list-style-type: none"> Fuse blown or internal fault. 	<ul style="list-style-type: none"> Check if the Fuse is intact and eventually replace it if necessary. 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.
Product reset correctly but does not respond correctly to the controller.	<ul style="list-style-type: none"> Bad signal connection. 	<ul style="list-style-type: none"> Inspect connections and cables. Fix eventual bad connections. Repair or replace damaged cables.
	<ul style="list-style-type: none"> Signal connection not terminated. 	<ul style="list-style-type: none"> Insert DMX termination plug in signal output socket of the last product on the signal line.
	<ul style="list-style-type: none"> Incorrect addressing of the product. 	<ul style="list-style-type: none"> Check the product address and control settings.
	<ul style="list-style-type: none"> One of the product is defective and is corrupting the signal transmission on the signal line. 	<ul style="list-style-type: none"> 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.
Timeout error after fixture reset.	<ul style="list-style-type: none"> One or more hardware components requires mechanical adjustments. 	<ul style="list-style-type: none"> Check product stored error messages for more information. Contact PROLIGHTS Service or an authorized service partner.
Mechanical effect loses position	<ul style="list-style-type: none"> Mechanical hardware require cleaning, adjustment or lubrication. 	<ul style="list-style-type: none"> Check product stored error messages for more information. Contact PROLIGHTS Service or an authorized service partner.
Light output turn OFF Intermittently	<ul style="list-style-type: none"> Fixture is too hot. 	<ul style="list-style-type: none"> Check product stored error messages. Allow product to cool. Clean the product and airflow filters. Reduce ambient temperature.
	<ul style="list-style-type: none"> Hardware failure (temperature sensor, fans, Light source...). 	<ul style="list-style-type: none"> Check product stored error messages for more information. Contact PROLIGHTS Service or an authorized service partner.
General low light intensity	<ul style="list-style-type: none"> Dirty lens assembly 	<ul style="list-style-type: none"> Clean the fixture regularly.
	<ul style="list-style-type: none"> Dirty or damaged filters 	<ul style="list-style-type: none"> Install lens assembly properly.

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.



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