EclSoft LinearIP

IP65, 250W Tunable White and colourful linear LED soft light with pixels and lighting effects

USER MANUAL

REV.01-09/22

English version

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 , 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

INDEX

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 and residential 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.

Max operating ambient temperature (Ta)

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

T_a-20°C

Minimum operating ambient temperature (Ta)

- Do not operate the fixture if the ambient temperature (Ta) is below -20 °C (-4 °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.

IP65

Outdoor (temporary) use

- This product is rated with an IP (Ingress protection) for temporary outdoor use when used and serviced according to the instruction contained in this document.
- 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_c70°C

Temperature of the external surface

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

Maintenance

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

Photobiological safety

- This device emits potentially dangerous optical radiation and is identified in the category of Risk Group 1 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.

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).

The products to which this manual refers comply with:

- UL 1573 + CSA C22.2 No. 166 - Stage and Studio Luminaires and Connector Strips.
- UL 1012 + CSA C22.2 No. 107.1 - Standard for power units other than class 2.

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

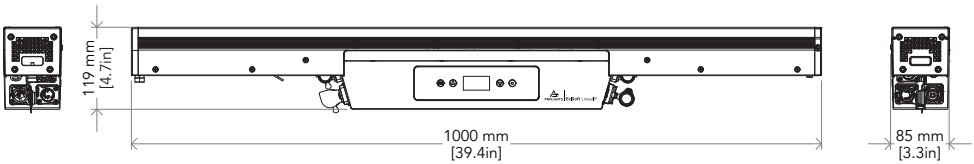
PACKAGE CONTENT

- 1x ECLSOFTLINEARIP.
- 1x 1,5 meters power cable (BARE END - SEETRONIC IP65 power connector).
- User Manual.
- 2x OS27: quick-Lock omega bracket, M10 hole.
- 1x ESLIPFILTERMD: front medium diffusion filter for ECLSOFTLINEARIP.

OPTIONAL ACCESSORIES

- FCLECLSOFTLIP: flight case for 5 pcs of ECLSOFTLINEARIP.
- ESLIPEC60: egg crate for ECLSOFTLINEARIP.
- ESLIPFILTERINT: front intensified diffusion filter for ECLSOFTLINEARIP.
- ESLIPFILTERHD: front high diffusion filter (less output) for ECLSOFTLINEARIP.
- ESLIPFILTERLD: front low diffusion filter (more output) for ECLSOFTLINEARIP.
- ESLIPFY: foot plate kit with tilt for the ECLSOFTLINEARIP (2 pcs).
- EPTWCBHEAD: ball head joint for center mount bracket EPTWCBRK series.
- ESLIPBRK: center mount bracket for ECLSOFTLINEARIP.
- ESLIPSG50: 50° SnapGrid, for ECLSOFTLINEARIP by DoP choice.
- RSR0630A/B: steel security cable for hanging bodies, inox steel shackle, L=60 cm, silver/black.
- C6002: slim aluminium clamp, 200 kg loading, 48-51 mm tubes, M10 bolt.
- IPTESTBOX: portable vacuum and pressure tester for ProLights IP fixtures.
- WSBBR512G5: blackBox R-512 G5 receiver 512Ch, 2.45GHz & 5.8GHz, DMX/RDM optional.
- WSBBF1G6: BlackBox F-1 G6 transrec, 512ch, 2.45GHz, DMX&RDM,Bluetooth,G3,G4,G4S, G5, CRMX.
- WSBBF1G5: blackBox F-1 G5 transmitter, 2,45GHz & 5.2/5,8 GHz, DMX/RDM, 512Ch.
- TOUR53415L03: dmx cable HC5340. CANC5MXX XLR 5p->CANC5FXX XLR (f) 5p, L.3m.
- 958225L03: 3x2.5mm TH07 Cable, 16A 3p PwCon MXW, 16A 3p PwCon FXW, L. 3m.
- 9513FXWL03: ass. 3x2.5mm TH07 cable, 16A 3p 230V CEE plug, MENAC3FXW socket, L.3 m.
- 9533FXWL03: ass. 3x2.5mm TH07 cable, SHUKO plug, MENAC3FXW socket, L.3m.
- WSBBR512G6: blackBox R-512 G6 receiver 512Ch, 2.45GHz,DMX&RDM,Bluetooth,G3,G4,G4S,G5,CRMX.
- UPBOX1UP5: firmware uploader kit, USB IN, 5pin XLR DMX OUT, USB OUT.

2 - TECHNICAL DRAWING



Weight: 7.1 kg - 15.65 lbs

Fig. 01

3 - INSTALLATION

MOUNTING

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

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

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

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

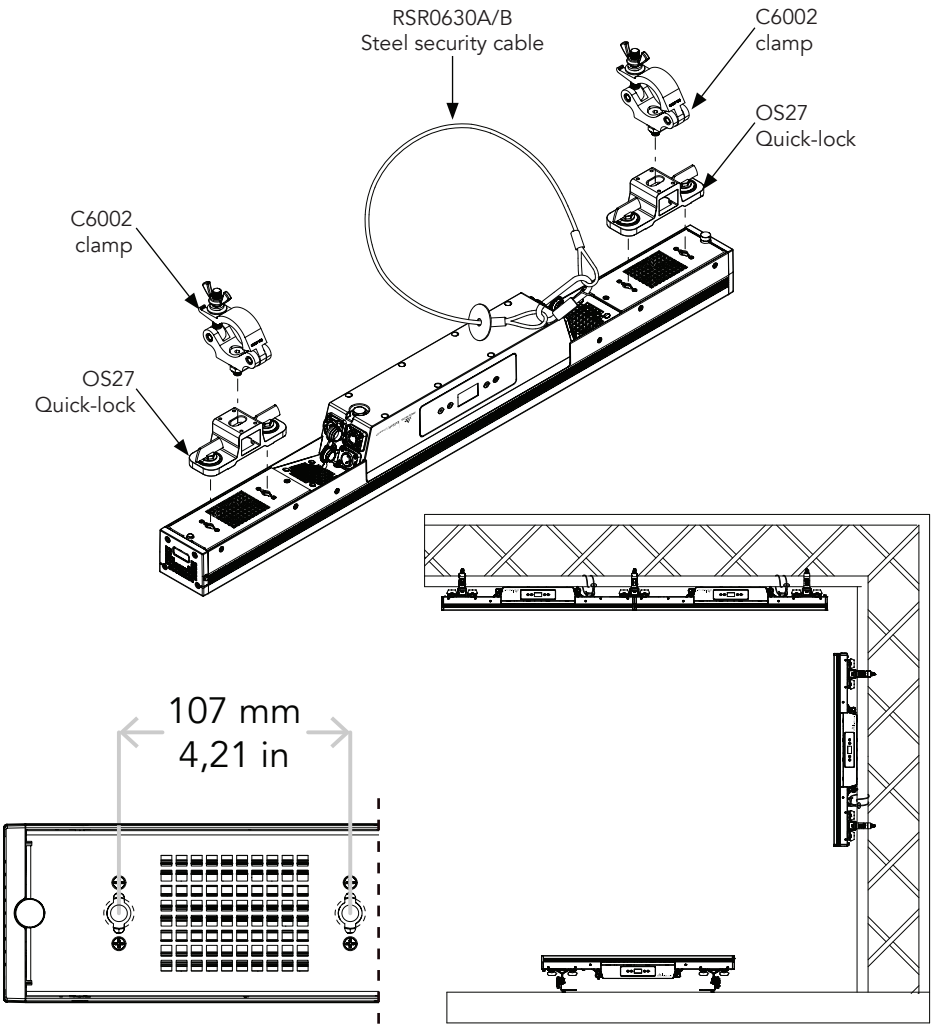
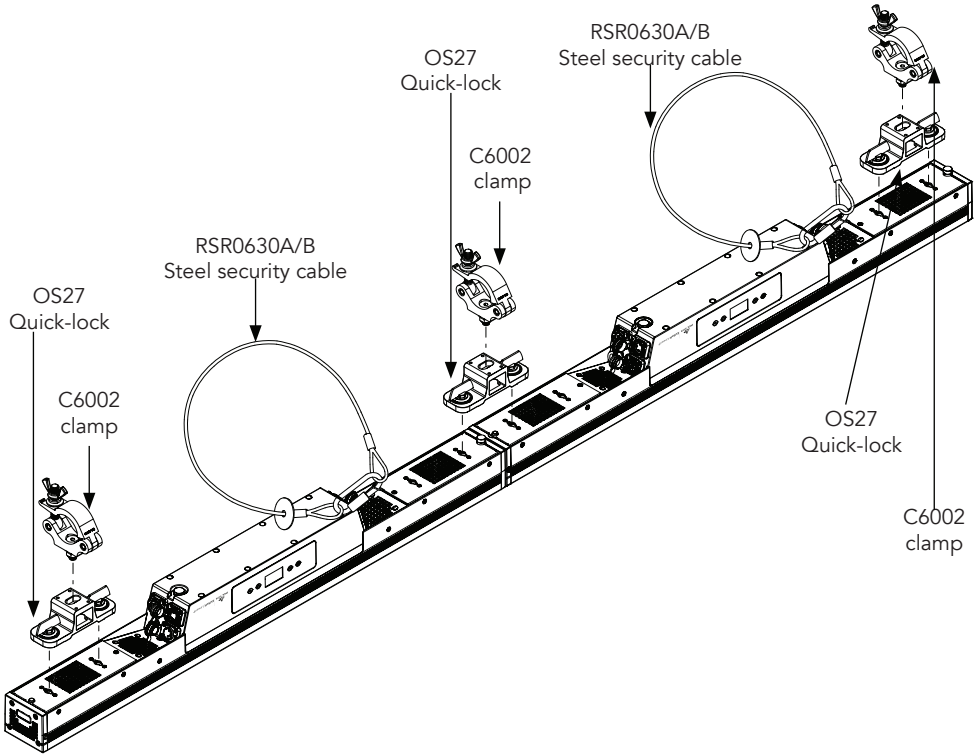


Fig. 02


RSR0630A/B
Steel security cable
OS27
Quick-lock
C6002
clamp
RSR0630A/B
Steel security cable
OS27
Quick-lock
C6002
clamp
OS27
Quick-lock
C6002
clamp

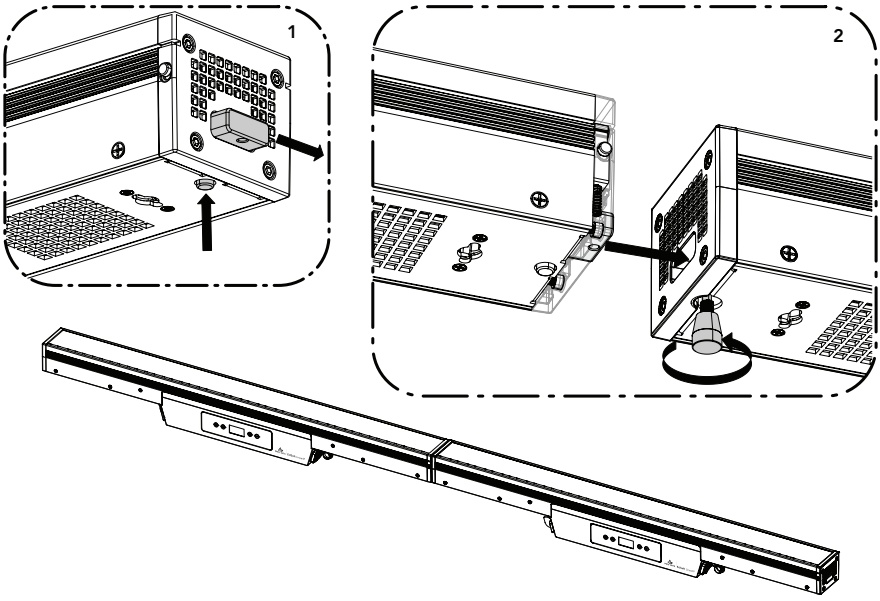

1
2

Fig. 03

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 250W.

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.

6 - PRODUCT OVERVIEW

1. USER INTERFACE with display and buttons for access to the control panel functions.
2. Holes to attach Quick-lock.
3. Button to lock the mounted unit.
4. Button to insert the filter holder.
5. Button to release the lock to mount units in series
6. SAFETY EYE to attach safety cable.
7. ANTENNA.
8. POWER IN: for connection to the Mains 100-240V~/50-60Hz.
9. ETHERCON CONNECTORS IN / OUT signal.
10. DMX IN (5-p XLR): 1 = GND, 2 = sign-, 3 = sign+, 4 N/C, 5 N/C.
11. DMX IN (3-p XLR): 1 = GND, 2 = sign-, 3 = sign+.
12. DMX OUT (5-p XLR): 1 = GND, 2 = sign-, 3 = sign+, 4 N/C, 5 N/C.
13. GORE VALVE.
14. BATTERY 4 pin.
15. POWER OUT: power output for connection of multiple units in series

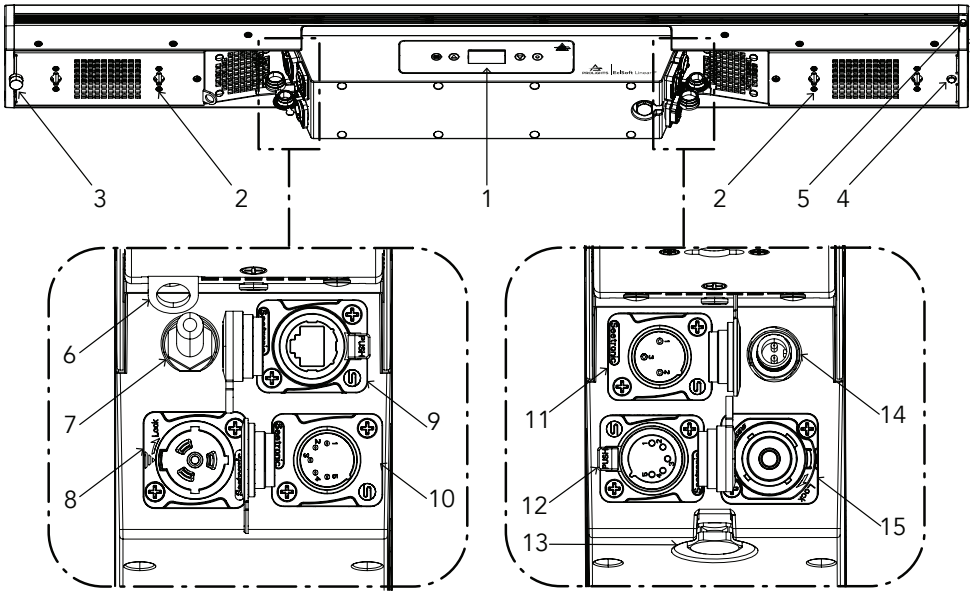


Fig. 04

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

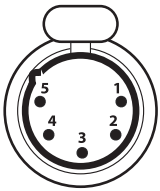


Fig. 05

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:

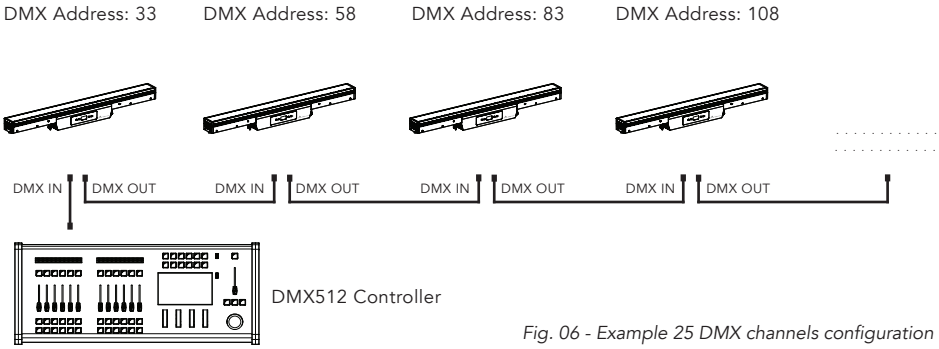
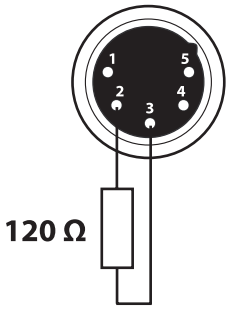
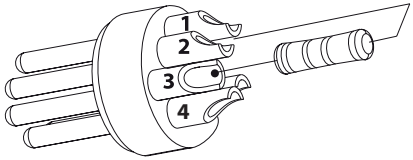


Fig. 06 - Example 25 DMX channels configuration

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. 07

DMX ADDRESSING
In order to start controlling the product via DMX, the first step is to select a DMX address, also known as the start channel, this is the first channel used to receive instructions from a DMX controller. If you wish to control the product individually, it is necessary to assign a different starting address channel to each fixture.
The number of channels occupied from the product depends on the DMX mode selected, so always verify the DMX Mode in the MENU before start addressing.
If you assign two fixtures the same address, they will be executing the same behaviour. Selecting the same address to multiple fixtures can be useful for diagnostic purposes and symmetrical control.
DMX addressing is limited to make it impossible to set the DMX address so high that you are left without enough control channels for the product.
To set the fixture's DMX address:
1. Press ENTER to open the main menu.
2. Reach the addressing menu, then select the DMX ADDRESS settings.
3. Select the address from 1 to 512 using the navigation arrows/buttons and confirm by pressing ENTER.
4. Press Menu to exit and return to the Home screen.

ETHERNET CONNECTION
The products is provided with two 8-pin RJ-45 sockets for Ethernet input/output for a simple daisy chain connection to the network.
The product can be controlled with ArtNet (or others available) communication protocol.
Use a network cable category 5 (with four "twisted" wire pairs) and standard RJ-45 plugs.

ETHERNET OPERATION
Please refer to the section MENU STRUCTURE contained in this document for detailed informations about the parameters of setting on the fixture (Protocol, Net, Subnet, Universe, Start Channel and IP Address, Ethernet to DMX No/Yes).
- About the IP addresses is recommended to set 002.xxx.xxx.xxx or 010.xxx.xxx.xxx.
- The submask net is fixed at 255.0.0.0.

ETHERNET TO DMX OPERATIONS

Please refer to the section MENU STRUCTURE contained in this document for detailed informations
This function allow a product receiving an ethernet signal protocol to re-transmit the incoming signal onto a wired DMX line through its onboard XLR-out connector.

- An Ethernet protocol (Artnet, sACN or others available) has to be enabled from Ethernet menu at first fixture. **Please make sure that wireless receiver is switched to OFF if you use Ethernet comunication.**
- Enable the option Ethernet To DMX from the Ethernet menu at the first product (connected to the Ethernet) in the signal chain, next products have standard DMX setting.
- Connect the Ethernet input of the first product in the data chain with the network. Connect the DMX output of this product with the input of the next product until all products are connected to the DMX chain.
- Caution: At the last product, the DMX chain has to be terminated with a terminator. Solder a 120 Ω resistor between Signal (–) and Signal (+) into a XLR-plug and connect it in the DMX-output of the last product.

OPERATION AS A WIRELESS TRANSMITTER

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

1. Push ENTER button untill you show CONNECT on display, then press ENTER button to confirm.
2. Use UP/DOWN buttons for select WIRELESS, then press ENTER to confirm.
3. Push ENTER button on WDMX ON/OFF function and enable it to ON.
4. Select WDMX mode and set it on Transmitter (please note that WDMX mode will be available only if WDMX ON/OFF is set to ON).
5. Ensure that the receiver units are not connected to any other transmitter. Please refer to "Reset the receiver" paragraph.
6. Enable TX LINK to ON to link transmitter to receivers (please note that TX LINK will be available only if WDMX mode is set to Transmitter).

- The transmitter scans for all unlinked receivers for a period of about 5 seconds.
- If the connection fails, check the position of the receiver.
- The wireless icon on the receiver display indicates the received signal strength.

Unlinking the transmitter

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

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

- All connected receivers will be unlinked.

IN TO WDMX

This function enable or disable the transmission throught wireless of the DMX signal from the transmitter side to the receiver.
Any incoming signal (ArtNet, sACN or DMX) is retransmitted throught wireless.
If the ECLSOFTLINEARIP protocol selected is ArtNet / sACN, the WDMX module will retransmit the DMX values contained in the ArtNet / sACN signal received from the ECLSOFTLINEARIP.

NOTE: Artnet and sACN have higher priority on DMX if they are connected to transmitter.

OPERATION AS A WIRELESS RECEIVER

ECLSOFTLINEARIP can be used as wireless receiver connected to a wireless transmitter.
To use ECLSOFTLINEARIP as wireless receiver, please follow the procedure below:

1. Push ENTER button untill 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 the display on the receiver unit will shows the DMX address. If DMX signal is not available, the display will shows "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 untill 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 throught the DMX port on the receiver side.

8 - CONTROL PANEL

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

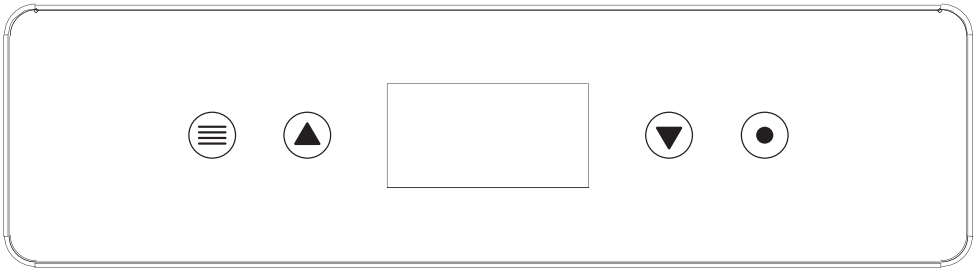


Fig. 08

DISPLAY AND BUTTONS LAYOUT
The product has a display and buttons for access to the control panel functions:

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

9 - MENU STRUCTURE

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

1	CONNECT	DMX ADDRESS	FIXTURE	DMX	1-512			Set DMX Address for Main fixture.
				WDMX				
				ARTNET				
				SACN				
			PIXELS	**FOLLOW FIXTURE**	1-512			Set DMX Address for Pixel Engine.
				DMX				
				WDMX				
				sACN				
				ARTNET				
				KLINGNET				
				sACN+ARTNET				
				sACN+KLINGNET				
				ARTNET+KLINGNET				
		DMX MODE	FIXTURE	UNO	SOURCE EMULATION	REFER TO STATIC MODE INTO STANDALONE		Set DMX mode for fixture Engine.
					COLOR TEMPERATURE	2800K		
						3200K		
						3500K		
						4000K		
						4500K		
						5000K		
						5600K		
						6000K		
						6500K		
						7000K		
						7500K		
						8000K		
						8500K		
						9000K		
						9500K		
						10000K		
					COLOR MACRO	SEE TABLE OF COLOR MACRO		
					MANUAL COLORS	RED	<000-255>	
						GREEN	<000-255>	
						BLUE	<000-255>	
						WARM WHITE	<000-255>	
				DUO	SAME SETTINGS OF "UNO"			
				BASIC	RGBW			
					RGB			
					CMY			
					HSI			
				STANDARD	**RGBW**			
					RGB			
					CMY			
					HSI			
				EXTENDED	RGBW			
					RGB			
					CMY			
					HSI			
				FX	FX CINE			
					FX TOUR			
					FX EXTENDED			
				XY				
				DIRECT 8 BIT				
				DIRECT 16 BIT				
				THEATER	4Ch			
					5Ch1			
					5Ch2			
					6Ch			
					10Ch			

					15Ch			
					17Ch			
					21Ch			
				PIXEL	1 Pix			
					3 Pix			
					5 Pix			
					15Pix			
				FILM	1M12CH			
					2M20CH			
			PIXELS	**OFF**				Set DMX mode for Pixel Engine.
				15PX				
				EXTENDED				
		WIRELESS	WDMX ON/OFF	ON				Enable/Disable the wireless card.
				OFF				
			WDMX MODE	TRANSMITTER				Choose whether to set the wireless card as Transmitter or Receiver. WDMX mode is unlocked only if WDMX ON / OFF is ON.
				RECEIVER				
			TX LINK	ON				TX link unlock when the unit is set as a transmitter.
				OFF				
			TX UNLINK	ON				Disconnect the transmitter from all receivers. TX unlink unlocks only if WDMX mode is on transmitter.
				OFF				
			RX RESET	ON				Total reset of the receiver. RX reset unlocks only if WDMX mode is receiver.
				OFF				
			In To WDMX (TX)	**ON**				Enable/Disable the transmission of the dmx from the transmitter to the receiver via wdmx.
				OFF				
			WDMX To DMX (RX)	**ON**				Enable/Disable the retransmission of the DMX from the receiver to the other units connected by cable to the receiver itself.
				OFF				
		ETHERNET SETTINGS	ARTNET SETTINGS	FIXTURE	IP ADDRESS	xxx.xxx.xxx.xxx		Settings for ArtNet protocol use.
					NET	0-127		
					SUBNET	0-15		
					SUBNET MASK			
					UNIVERSE	0-15		
				PIXELS	IP ADDRESS	xxx.xxx.xxx.xxx		
					NET	0-127		
					SUBNET	0-15		
					SUBNET MASK			
					UNIVERSE	0-15		
			sACN SETTINGS	FIXTURE	IP ADDRESS	xxx.xxx.xxx.xxx		Settings for sACN protocol use.
					UNIVERSE	1-16		
					MERGE MODE	OFF		
						HTP		
						LTP		
				PIXELS	IP ADDRESS	xxx.xxx.xxx.xxx		
					UNIVERSE	1-16		
					MERGE MODE	OFF		
						HTP		
						LTP		
			Ethernet to WDMX	**ON**				Enable / Disable DMX retrasmission from sACN/ ArtNet signal to WDMX (TX mode).
				OFF				
			Ethernet to DMX	**ON**				Enable / Disable DMX retrasmission from sACN/ ArtNet signal to DMX out port.
				OFF				
2	SETUP	SCREEN	Backlight	ON				Select the timing after that display will switch automatically off when unactive.
				10S				
				20S				
				30S				
			FLIP DISPLAY	ON				Allows you to rotate the display by 180°.
				OFF				

			KEY LOCK	ON				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.
				OFF				
			DISPLAY VALUE	RAW DATA				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.
				PERCENTAGE				
			TEMPERATURE UNIT	**°C**				Allows you to choose Temperature unit showed in home screen.
				°F				
		USER SETTINGS	PRESET 1 TO 5	RECALL				
				SAVE				
				MOVE				
				SET AS DEFAULT				
		TRANSFER CONFIGURATION	WITHOUT DMX ADDRESS					To transfer the same menu settings of one fixtures to all the other in the daisy chain, including or not the dmx address.
			WITH DMX ADDRESS					
3	ADVANCED	CALIBRATION	ON					Enable/Disable Spektra Calibration
			OFF					
		DIMMER CURVE	LINEAR					Choose dimmer curve.
			S-CURVE					
			SQUARE LAW					
			INVERSE SQUARE LAW					
			HIGH RES@LOW					
		DIMMER SPEED	AUTO					Set Dimmer Speed. This parameter defines interpolation of DMX Changes for main functions. Off turns off interpolation
			FAST					
			MEDIUM					
			SLOW					
		DIMMER 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.
			SNAP OFF@END					
		LED FREQUENCY	600Hz					Select PWM frequency.
			1200Hz					
			2000Hz					
			4000Hz					
			6000Hz					
			10kHz					
			12kHz					
			15kHz					
			20kHz					
			25kHz					
			36kHz					
			40kHz					
		DMX FAULT	HOLD					
			BLACKOUT					
			STAND ALONE					
			EMERGENCY					
		INVERT MAPPING	ON					
			OFF					
		FAN MODE	CONSTANT OUTPUT	AUTO / HIGH / SILENT 1 / SILENT 2 / OFF				Select the product Fan mode for Standard mode. Constant Output: fixture will decrease immediatly 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	AUTO / HIGH / SILENT 1 / SILENT 2 / OFF				
		TUNGSTEN EMULATION	OFF					
			AUTO					
			FAST					

			MEDIUM					
			SLOW					
		FACTORY RELOAD	STANDARD	ON - OFF				Reload fixture with Standard settings.
			USER PRESET	ON - OFF				Reload fixture with User Preset.
4	INFORMATION	DEVICE TIME	FIXTURE HOURS	<99999H>				
			CURRENT HOURS	<99999H>				
			SOURCE HOURS	<99999H>				
			AC POWER ON CYCLE	<300>				
			MAINTENANCE TIME	ELAPSED TIME				
				ALERT PERIOD	10 - 1000			
		TEMPERATURE						Show temperature for each LED PCB.
		WIRELESS QUALITY						
		CHANNEL VALUE						
		ERROR MESSAGE						Refer to Troubleshooting section for Error details.
		FIXTURE MODEL						
		DEVICE LABEL						
		SOFTWARE VERSION	<V1.0>					Show software version for each PCB.
		RDM UID	15D00228****					View the UID of the product (RDM control).
5	STAND ALONE	MASTER/SLAVE	MASTER DMX					Allow you to link and operating in synk multiple units without a DMX console. Choose a unit to perform as the Master. Master No DMX: fixture is not broadcasting signal
			MASTER NO DMX					
			SLAVE					
		CINE FX	Party Effect					
			Candle					
			Clouds Passing					
			Club Lights					
			Color Chase					
			Cop Car					
			Fire					
			Fireworks					
			Strobe					
			Lightning					
			Paparazzi					
			Pulsing					
			Television					
			Explosion					
			Fluorescent Flicker					
			Process Effect					
			Welding					
		TOUR FX	FX 1-23	PATTERN SPEED				
				PATTERN FADE				
				F.G. INTENSITY				
				F.G. STROBE				
				F.G. RED				
				F.G. GREEN				
				F.G. BLUE				
				F.G. WARM WHITE				
				F.G. INTENSITY				
				F.G. STROBE				
				F.G. RED				
				F.G. GREEN				
				F.G. BLUE				
				F.G. WARM WHITE				

	SOURCE EMULATION	DIMMER	0 - 255				
		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, CCT, Tint					
	HSI	Hue, Saturation, Intensity					
	FIXED COLORS	R G B W RG RB RW GB GW BW RGB 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.
	WHITE PRESETS	2800K 3200K 3500K 4000K 4500K 5000K 5600K 6000K 6500K 7000K 7500K 8000K 8500K 9000K 9500K 10000K					
	COLOR MACRO	DIMMER	0 - 255				

		LEE	Color Correction Color Filters 600 Series Cosmetic 700 Series				
		COLOR	Correction CColor SSelection Lux				
	MANUAL COLORS						
	XY						
	USER PRESET						

11 - SHORTCUT

SHORTCUTS		
Keys	**Mode**	**Description**
UP + DOWN after power on	Flip Display	Directly flip display without enter inside menu
ENTER	Standalone Mode	Direct access to Standalone menu

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

RDM PIDs							
Parameter	**Category**	**PID Address**	**GET**	**SET**	**Value**	**Description**	**Default Value**
DEVICE_INFO	Product Information	0x0060	x		---	N/A	
PRODUCT_DETAIL_ID_LIST	Product Information	0x0070	x		---	N/A	
DEVICE_MODEL_DESCRIPTION	Product Information	0x0080	x		---	N/A	x
MANUFACTURER_LABEL	Product Information	0x0081	x		---	N/A	
DEVICE_LABEL	Product Information	0x0082	x	x	---	N/A	
FACTORY_DEFAULTS	Product Information	0x0090	x	x	---	N/A	
SOFTWARE_VERSION_LABEL	Product Information	0x00C0	x		---	N/A	
BOOT_SOFTWARE_VERSION_ID	Product Information	0x00C1	x		---	N/A	
BOOT_SOFTWARE_VERSION_LABEL	Product Information	0x00C2	x		---	N/A	x
DMX_PERSONALITY	DMX512 Setup	0x00E0	x	x	---	N/A	
DMX_PERSONALITY_DESCRIPTION	DMX512 Setup	0x00E1	x		---	N/A	
DMX_START_ADDRESS	DMX512 Setup	0x00F0	x	x	---	N/A	
SLOT_INFO	DMX512 Setup	0x0120	x		---	N/A	
SLOT_DESCRIPTION	DMX512 Setup	0x0121	x		---	N/A	
DEFAULT_SLOT_VALUE	DMX512 Setup	0x0122	x		---	N/A	
DMX_BLOCK_ADDRESS	DMX512 Setup	0x0140	x	x	---	N/A	x*
DMX_FAIL_MODE	DMX512 Setup	0x0141	x	x	---	N/A	
DMX_STARTUP_MODE	DMX512 Setup	0x0142	x	x	---	N/A	

RDM PIDs							
Parameter	Category	PID Address	GET	SET	Value	Description	Default Value
DIMMER_INFO	Dimmer Settings	0x0340	x		---	N/A	
MINIMUM_LEVEL	Dimmer Settings	0x0341	x	x	---	N/A	
MAXIMUM_LEVEL	Dimmer Settings	0x0342	x	x	---	N/A	
CURVE	Dimmer Settings	0x0343	x	x	---	N/A	
CURVE_DESCRIPTION	Dimmer Settings	0x0344	x	x	---	N/A	
OUTPUT_RESPONSE_TIME	Dimmer Settings	0x0345	x	x	---	N/A	
OUTPUT_RESPONSE_TIME_ DESCRIPTION	Dimmer Settings	0x0346	x		---	N/A	
MODULATION_FREQUENCY	Dimmer Settings	0x0347	x	x	---	N/A	
MODULATION_FREQUEN-CY_ DESCRIPTION	Dimmer Settings	0x0348	x		---	N/A	
SENSOR_DEFINITION	Sensors	0x0200	x		---	N/A	
SENSOR_VALUE	Sensors	0x0201	x	x	---	N/A	x*
RECORD_SENSORS	Sensors	0x0202		x	---	N/A	
BURN_IN	Sensors	0x0440	x	x	---	N/A	x*
DEVICE_HOURS	Power/Lamp Settings	0x0400	x	x	---	N/A	
LAMP_HOURS	Power/Lamp Settings	0x0401	x	x	---	N/A	x*
LAMP_STRIKES	Power/Lamp Settings	0x0402	x	x	---	N/A	
LAMP_STATE	Power/Lamp Settings	0x0403	x	x	---	N/A	
LAMP_ON_MODE	Power/Lamp Settings	0x0404	x	x	---	N/A	
DEVICE_POWER_CYCLES	Power/Lamp Settings	0x0405	x	x	---	N/A	
DISPLAY_INVERT	Display Set-tings	0x0500	x	x	---	N/A	
DISPLAY_LEVEL	Display Set-tings	0x0501	x	x	---	N/A	
LOCK_PIN	Configuration	0x0640	x	x	---	N/A	
LOCK_STATE	Configuration	0x0641	x	x	---	N/A	
LOCK_STATE_DESCRIPTION	Configuration	0x0642	x		---	N/A	
IDENTIFY_DEVICE	Control	0x1000	x	x	---	N/A	
RESET_DEVICE	Control	0x1001		x	---	N/A	
POWER_STATE	Control	0x1010	x	x	---	N/A	
PERFORM_SELFTEST	Control	0x1020	x	x	---	N/A	
SELF_TEST_DESCRIPTION	Control	0x1021	x		---	N/A	
CAPTURE_PRESET	Control	0x1030	x	x	---	N/A	
PRESET_PLAYBACK	Control	0x1031	x	x	---	N/A	

RDM PIDs							
Parameter	**Category**	**PID Address**	**GET**	**SET**	**Value**	**Description**	**Default Value**
IDENTIFY_MODE	Control	0x1040	x	x	---	N/A	
PRESET_INFO	Control	0x1041	x		---	N/A	
PRESET_STATUS	Control	0x1042	x	x	---	N/A	
POWER_ON_SELF_TEST	Control	0x1044	x	x	---	N/A	
PIXEL MODE 0:OFF 1:4PX 2:EXT	Manufacturer PIDs		x	x		PIXEL MODE 0:OFF 1:4PX 2:EXT	
0-7 W/DMX-SA-AN-KN-SK-AK-S+A-FF	Manufacturer PIDs		x	x		PIXEL PROT 0:W/DMX 1:SACN 2:ARTN 3:KN 4:SK 5:AK 6:SA 7:FF	
PIXEL ADDR 0-512	Manufacturer PIDs		x	x		PIXEL ADDR 0-512	
INVERT MAPPING 0:OFF 1:ON	Manufacturer PIDs		x	x		INVERT MAPPING 0:OFF 1:ON	DEFAULT: OFF
DMX FAULT	Manufacturer PIDs		x	x		0: HOLD 1: BLCK 2:SA 3:EMGENCY	DEFAU-LT: 2
TUNGSTEN EMULATION	Manufacturer PIDs		x	x		0:OFF: 1:AUTO 2:FAST 3:MED 4:SLW	DEFAU-LT: 0
MASTER/SLAVE	Manufacturer PIDs		x	x		0:MST DMX 1:MST NO DMX 2:SLA-VE	DEFAULT:2
ST. AL. MODE	Manufacturer PIDs		x	x		0-6:FX-CCT-HSI-FIX-WH-MC-MNL	DEFAULT:2
EFFECTS	Manufacturer PIDs		x	x		1 to 26	DEFAULT:1
EFFECTS SPEED	Manufacturer PIDs		x	x		1-60000	
EFFECTS FADE	Manufacturer PIDs		x	x		0-60000	
FIXED COLORS	Manufacturer PIDs		x	x	1-15		DEFAULT: RGBW
COLOR MACRO	Manufacturer PIDs		x	x	1-67		
WHITE PRESETS	Manufacturer PIDs		x	x	1-14		DEFAULT: 5600K
STATIC RED	Manufacturer PIDs		x	x	0-255		DEFAULT: 255
STATIC GREEN	Manufacturer PIDs		x	x	0-255		DEFAULT: 255

RDM PIDs							
Parameter	**Category**	**PID Address**	**GET**	**SET**	**Value**	**Description**	**Default Value**
STATIC BLUE	Manufacturer PIDs		x	x	0-255		DEFAULT: 255
STATIC WHITE	Manufacturer PIDs		x	x	0-255		DEFAULT: 255
CALIBRATION	Manufacturer PIDs		x	x	0-1	0: OFF 1: STD 2: MNL 3: CALIBR	DEFAUL-T:CALIBR
WIRELESS QUALITY	Manufacturer PIDs		x			**%	
ERROR MESSAGE	Manufacturer PIDs		x				
FACTORY DEFAULT 0:STD 1:USER	Manufacturer PIDs		x	x		0:STD 1:USER	DEFAULT: switching
SETTINGS SELECTOR: 1 TO 5	Manufacturer PIDs		x	x		USER SET-TING 0-4	

13 - DMX CHARTS

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

CCT (When CCT Range Selector @ 2800K - 10000K)						
Function		8 bit value		16 bit value		Note
CCT(K) From	CCT (K) To	From	To	From	To	
2800	2900	0	4	0	910	Default @ 0
2900	3000	4	7	910	1820	
3000	3100	7	11	1820	2731	
3100	3200	11	14	2731	3641	
3200	3300	14	18	3641	4551	
3300	3400	18	21	4551	5461	
3400	3500	21	25	5461	6371	
3500	3600	25	28	6371	7282	
3600	3700	28	32	7282	8192	
3700	3800	32	35	8192	9102	
3800	3900	35	39	9102	10012	
3900	4000	39	43	10012	10923	
4000	4100	43	46	10923	11833	
4100	4200	46	50	11833	12743	
4200	4300	50	53	12743	13653	
4300	4400	53	57	13653	14563	
4400	4500	57	60	14563	15474	
4500	4600	60	64	15474	16384	
4600	4700	64	67	16384	17294	
4700	4800	67	71	17294	18204	
4800	4900	71	74	18204	19114	
4900	5000	74	78	19114	20025	
5000	5100	78	81	20025	20935	
5100	5200	81	85	20935	21845	
5200	5300	85	89	21845	22755	
5300	5400	89	92	22755	23665	
5400	5500	92	96	23665	24576	
5500	5600	96	99	24576	25486	
5600	5700	99	103	25486	26396	

CCT (When CCT Range Selector @ 2800K - 10000K)						
Function		8 bit value		16 bit value		Note
CCT(K) From	CCT (K) To	From	To	From	To	
5700	5800	103	106	26396	27306	
5800	5900	106	110	27306	28216	
5900	6000	110	113	28216	29127	
6000	6100	113	117	29127	30037	
6100	6200	117	120	30037	30947	
6200	6300	120	124	30947	31857	
6300	6400	124	128	31857	32768	
6400	6500	128	131	32768	33678	
6500	6600	131	135	33678	34588	
6600	6700	135	138	34588	35498	
6700	6800	138	142	35498	36408	
6800	6900	142	145	36408	37319	
6900	7000	145	149	37319	38229	
7000	7100	149	152	38229	39139	
7100	7200	152	156	39139	40049	
7200	7300	156	159	40049	40959	
7300	7400	159	163	40959	41870	
7400	7500	163	166	41870	42780	
7500	7600	166	170	42780	43690	
7600	7700	170	174	43690	44600	
7700	7800	174	177	44600	45510	
7800	7900	177	181	45510	46421	
7900	8000	181	184	46421	47331	
8000	8100	184	188	47331	48241	
8100	8200	188	191	48241	49151	
8200	8300	191	195	49151	50061	
8300	8400	195	198	50061	50972	
8400	8500	198	202	50972	51882	
8500	8600	202	205	51882	52792	
8600	8700	205	209	52792	53702	
8700	8800	209	213	53702	54613	
8800	8900	213	216	54613	55523	
8900	9000	216	220	55523	56433	
9000	9100	220	223	56433	57343	
9100	9200	223	227	57343	58253	
9200	9300	227	230	58253	59164	
9300	9400	230	234	59164	60074	
9400	9500	234	237	60074	60984	
9500	9600	237	241	60984	61894	
9600	9700	241	244	61894	62804	
9700	9800	244	248	62804	63715	
9800	9900	248	251	63715	64625	
9900	10000	251	255	64625	65535	

	FIXTURE MODE										
PARAMETER	**UNO**	**DUO**	**BA-SIC**	**STAN-DARD**	**EXTENDED**	**FX Cine**	**FX Tour**	**FX ADVANCED**	**DIRECT 8 BIT**	**DI-RECT 16 BIT**	**XY**
DIMMER	1	1	1	1	1	1	1	1	1	1	1
DIMMER FINE	-	2	2	2	2	2	2	2	2	2	2
STROBE	-	-	3	3	3	3	3	3	3	3	3
X 1	-	-	-	-	-	-	-	-	-	-	6
X 1 FINE	-	-	-	-	-	-	-	-	-	-	7
Y 1	-	-	-	-	-	-	-	-	-	-	8
Y 1 FINE	-	-	-	-	-	-	-	-	-	-	9
X 2	-	-	-	-	-	-	-	-	-	-	11
X 2 FINE	-	-	-	-	-	-	-	-	-	-	12
Y 2	-	-	-	-	-	-	-	-	-	-	13
Y 2 FINE	-	-	-	-	-	-	-	-	-	-	14
COLOR 1	-	-	4	4	4	-	-	-	7	7	-
COLOR 1 FINE	-	-	5	5	5	-	-	-	-	8	-
COLOR 2	-	-	6	6	6	-	-	-	8	9	-
COLOR 2 FINE	-	-	7	7	7	-	-	-	-	10	-
COLOR 3	-	-	8	8	8	-	-	-	9	11	-
COLOR 3 FINE	-	-	9	9	9	-	-	-	-	12	-
COLOR 4	-	-	10	10	10	-	-	-	10	13	-
COLOR 4 FINE	-	-	11	11	11	-	-	-	-	14	-
COLOR MACRO BRAND	-	-	12	12	-	-	-	-	11	15	15
COLOR MACRO CATEGORY	-	-	13	13	-	-	-	-	12	16	16
COLOR MACRO	-	-	14	14	-	-	-	-	13	17	17
CCT	-	-	15	15	12	-	-	4	4	4	4
CROSSFADE FROM ETH1 TO ETH2	-	-	16	16	13	-	-	-	-	-	-
CROSSFADE FOR PIXEL ENGINE	-	-	17	17	14	-	-	-	-	-	-
CROSSFADE FROM WHITE TO COLOR	-	-	18	18	15	-	-	6	6	6	-
CROSSFADE FROM X/Y 1 LAYER TO X/Y 2 LAYER	-	-	-	-	-	-	-	-	-	-	10
CONTROL	-	-	19	19	16	4	4	8	14	18	19
CTO ON COLORS	-	-	-	20	17	-	-	7	-	-	18
TINT	-	-	-	21	18	-	-	5	5	5	5
SOURCE EMULATION CATEGORY	-	-	-	22	-	-	-	-	-	-	-
SOURCE EMULATION MACRO	-	-	-	23	-	-	-	-	-	-	-
CONTROL MODE SELECTOR	-	-	-	-	19	5	-	9	-	-	-
CINEMA FX SELECTOR	-	-	-	-	20	6	-	10	-	-	-
PARAMETER 1	-	-	-	-	21	7	-	11	-	-	-
PARAMETER 2	-	-	-	-	22	8	-	12		-	-
PARAMETER 3	-	-	-	-	23	9	-	13	-	-	-
PARAMETER 4	-	-	-	-	24	10	-	14	-	-	-
PARAMETER 5	-	-	-	-	25	11	-	15	-	-	-
PARAMETER 6	-	-	-	-	26	12	-	16	-	-	-
PARAMETER 7	-	-	-	-	27	13	-	17	-	-	-
TOUR FX SELECTOR	-	-	-	-	28	-	5	18	-	-	-
TOUR PATTERN SPEED	-	-	-	-	29	-	6	19	-	-	-
TOUR PATTERN FADE	-	-	-	-	30	-	7	20	-	-	-
TOUR PATTERN TRANSITION	-	-	-	-	31	-	8	21	-	-	-
TOUR FOREGROUND INTENSITY	-	-	-	-	32	-	9	22	-	-	-
TOUR FOREGROUND STROBE	-	-	-	-	33	-	10	23	-	-	-
TOUR FOREGROUND RED	-	-	-	-	34	-	11	24	-	-	-
TOUR FOREGROUND GREEN	-	-	-	-	35	-	12	25	-	-	-
TOUR FOREGROUND BLUE	-	-	-	-	36	-	13	26	-	-	-
TOUR FOREGROUND WARM WHITE	-	-	-	-	37	-	14	27	-	-	-
TOUR BACKGROUND INTENSITY	-	-	-	-	38	-	15	28	-	-	-
TOUR BACKGROUND STROBE	-	-	-	-	39	-	16	29	-	-	-
TOUR BACKGROUND RED	-	-	-	-	40	-	17	30	-	-	-
TOUR BACKGROUND GREEN	-	-	-	-	41	-	18	31	-	-	-

	FIXTURE										
	MODE										
PARAMETER	UNO	DUO	BA-SIC	STAN-DARD	EXTENDED	FX Cine	FX Tour	FX ADVANCED	DIRECT 8 BIT	DI-RECT 16 BIT	XY
TOUR BACKGROUND BLUE	-	-	-	-	42	-	19	32	-	-	-
TOUR BACKGROUND WARM WHITE	-	-	-	-	43	-	20	33	-	-	-

THEATHER

4CH	Function	Value	Percent/Setting	Remark
1	Dimmer	000-255	0~100%	
2	CCT	000-031 032-063 064-095 096-127 128-159 160-191 192-223 224-255	2800K - 3200K 3200K - 3500K 3500K - 4000K 4000K - 4500K 4500K - 5000K 5000K - 5600K 5600K - 6000K 6000K - 6500K	
3	HUE	000-000 001-255	0 -25~25	
4	Dimmer Fade	000-000 001-255	Read from menu 0~100%	

5CH1	Function	Value	Percent/Setting	Remark
1	Dimmer	000-255	0~100%	
2	Dimmer Fine	000-255	0~100%	
3	CCT	000-031 032-063 064-095 096-127 128-159 160-191 192-223 224-255	2800K - 3200K 3200K - 3500K 3500K - 4000K 4000K - 4500K 4500K - 5000K 5000K - 5600K 5600K - 6000K 6000K - 6500K	
4	HUE	000-000 001-255	0 -25~25	
5	Dimmer Fade	000-000 001-255	Read from menu 0~100%	

5CH2	Function	Value	Percent/Setting	Remark
1	Dimmer	000-255	0~100%	
2	CCT	000-031 032-063 064-095 096-127 128-159 160-191 192-223 224-255	2800K - 3200K 3200K - 3500K 3500K - 4000K 4000K - 4500K 4500K - 5000K 5000K - 5600K 5600K - 6000K 6000K - 6500K	
3	HUE	000-000 001-255	0 -25~25	
4	Strobe	000-030 031-100 101-130 131-200 201-255	Closed Strobe slow to fast Open Random slow to fast Open	
5	Dimmer Fade	000-000 001-255	Read from menu 0~100%	

6CH	Function	Value	Percent/Setting	Remark

1	Dimmer	000-255	0~100%	
2	CCT	000-031 032-063 064-095 096-127 128-159 160-191 192-223 224-255	2800K - 3200K 3200K - 3500K 3500K - 4000K 4000K - 4500K 4500K - 5000K 5000K - 5600K 5600K - 6000K 6000K - 6500K	
3	HUE	000-000 001-255	0 -25~25	
4	Strobe	000-030 031-100 101-130 131-200 201-255	Closed Strobe slow to fast Open Random slow to fast Open	
5	Color Macro	000-002 003-005 006-255	No Function Amber Shift on Color Macro	
6	Dimmer Fade	000-000 001-255	Read from menu 0~100%	

10CH	Function	Value	Percent/Setting	Remark
1	Dimmer	000-255	0~100%	
2	Red	000-255	0~100%	
3	Green	000-255	0~100%	
4	Blue	000-255	0~100%	
5	White	000-255	0~100%	
6	CCT	000-030 031-060 061-090 091-120 121-150 151-180 181-210 211-240 241-255	2800K - 3200K 3200K - 3500K 3500K - 4000K 4000K - 4500K 4500K - 5000K 5000K - 5600K 5600K - 6000K 6000K - 6500K No Function	
7	HUE	000-000 001-255	0 -25~25	
8	Strobe	000-030 031-100 101-130 131-200 201-255	Closed Strobe slow to fast Open Random slow to fast Open	
9	Color Macro	000-002 003-005 006-255	No Function Amber Shift on Color Macro	
10	Dimmer Fade	000-000 001-255	Read from menu 0~100%	

15CH	Function	Value	Percent/Setting	Remark
1	Dimmer	000-255	0~100%	
2	Dimmer Fine	000-255	0~100%	

3	Red	000-255	0~100%	
4	Red Fine	000-255	0~100%	
5	Green	000-255	0~100%	
6	Green Fine	000-255	0~100%	
7	Blue	000-255	0~100%	
8	Blue Fine	000-255	0~100%	
9	White	000-255	0~100%	
10	White Fine	000-255	0~100%	
11	CCT	000-030 031-060 061-090 091-120 121-150 151-180 181-210 211-240 241-255	2800K - 3200K 3200K - 3500K 3500K - 4000K 4000K - 4500K 4500K - 5000K 5000K - 5600K 5600K - 6000K 6000K - 6500K No Function	
12	HUE	000-000 001-255	0 -25~25	
13	Strobe	000-030 031-100 101-130 131-200 201-255	Closed Strobe slow to fast Open Random slow to fast Open	
14	Color Macro	000-002 003-005 006-255	No Function Amber Shift on Color Macro	
15	Dimmer Fade	000-000 001-255	Read from menu 0~100%	

17CH	Function	Value	Percent/Setting	Remark
1	Dimmer	000-255	0~100%	
2	Dimmer Fine	000-255	0~100%	
3	Strobe	000-030 031-100 101-130 131-200 201-255	Closed Strobe slow to fast Open Random slow to fast Open	
4	CCT	000-031 032-063 064-095 096-127 128-159 160-191 192-223 224-255	2800K - 3200K 3200K - 3500K 3500K - 4000K 4000K - 4500K 4500K - 5000K 5000K - 5600K 5600K - 6000K 6000K - 6500K	(Layer1)
5	HUE	000-126 127-127 128-255	-25 to 0 No Function 0 to +25	
6	Crossfade	000-255	0~100%	For lineary switch between layer1 and layer2

7	Red	000-255	0~100%	Layer2
8	Red Fine	000-255	0~100%	
9	Green	000-255	0~100%	
10	Green Fine	000-255	0~100%	
11	Blue	000-255	0~100%	
12	Blue Fine	000-255	0~100%	
13	White	000-255	0~100%	
14	White Fine	000-255	0~100%	
15	Color Macro	000-002 003-005 006-255	No Function Amber Shift on Color Macro	Layer2
16	CTO On Colors	000-255	0~100%	Layer2 (when Crossfade is 255)
17	Dimmer Fade	000-000 001-255	Read from menu 0~100%	

21CH	Function	Value	Percent/Setting	Remark
1	Dimmer	000-255	0~100%	
2	Dimmer Fine	000-255	0~100%	
3	Strobe	000-030 031-100 101-130 131-200 201-255	Closed Strobe slow to fast Open Random slow to fast Open	
4	CCT	000-031 032-063 064-095 096-127 128-159 160-191 192-223 224-255	2800K - 3200K 3200K - 3500K 3500K - 4000K 4000K - 4500K 4500K - 5000K 5000K - 5600K 5600K - 6000K 6000K - 6500K	(Layer1)
5	HUE	000-126 127-127 128-255	-25 to 0 No Function 0 to +25	
6	Crossfade	000-255	0~100%	For lineary switch between layer1 and layer2
7	Red	000-255	0~100%	Layer2
8	Red Fine	000-255	0~100%	
9	Green	000-255	0~100%	
10	Green Fine	000-255	0~100%	
11	Blue	000-255	0~100%	
12	Blue Fine	000-255	0~100%	
13	White	000-255	0~100%	
14	White Fine	000-255	0~100%	
15	Color Macro	CHECK COLOR MACRO DEDICATED PAGE		
16	CTO On Colors	000-255	0~100%	Layer2 (when Crossfade is 255)
17	Dimmer Fade	000-000 001-255	Read from menu 0~100%	

18	fx selection	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	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	
19	fx speed	000-255	0~100%	
20	fx fade	000-255	0~100%	
21	FUNCTION CHANNEL	CHECK CONTROL CHANNEL PAGE		

1 PIX		
CH	NAME	VALUE
1	RED ALL	0-255
2	GREEN ALL	0-255
3	BLUE ALL	0-255
4	WHITE ALL	0-255

3 PIX		
CH	NAME	VALUE
1	RED 1	0-255
2	GREEN 1	0-255
3	BLUE 1	0-255
4	WHITE 1	0-255
5	RED 2	0-255
6	GREEN 2	0-255
7	BLUE 2	0-255
8	WHITE 2	0-255
9	RED 3	0-255
10	GREEN 3	0-255
11	BLUE 3	0-255
12	WHITE 3	0-255

5 PIX		
CH	NAME	VALUE
1	RED 1	0-255
2	GREEN 1	0-255
3	BLUE 1	0-255
4	WHITE 1	0-255
5	RED 2	0-255
6	GREEN 2	0-255
7	BLUE 2	0-255
8	WHITE 2	0-255
9	RED 3	0-255
10	GREEN 3	0-255
11	BLUE 3	0-255
12	WHITE 3	0-255
13	RED 4	0-255
14	GREEN 4	0-255
15	BLUE 4	0-255
16	WHITE 4	0-255
17	RED 5	0-255
18	GREEN 5	0-255
19	BLUE 5	0-255
20	WHITE 5	0-255

15 PIX		
CH	NAME	VALUE
1	RED 1	0-255
2	GREEN 1	0-255
3	BLUE 1	0-255
4	WHITE 1	0-255
5	RED 2	0-255
6	GREEN 2	0-255
7	BLUE 2	0-255
8	WHITE 2	0-255
9	RED 3	0-255
10	GREEN 3	0-255
11	BLUE 3	0-255
12	WHITE 3	0-255
13	RED 4	0-255
14	GREEN 4	0-255
15	BLUE 4	0-255
16	WHITE 4	0-255
17	RED 5	0-255
18	GREEN 5	0-255
19	BLUE 5	0-255
20	WHITE 5	0-255
21	RED 6	0-255
22	GREEN 6	0-255
23	BLUE 6	0-255
24	WHITE 6	0-255
25	RED 7	0-255
26	GREEN 7	0-255
27	BLUE 7	0-255
28	WHITE 7	0-255
29	RED 8	0-255
30	GREEN 8	0-255
31	BLUE 8	0-255
32	WHITE 8	0-255
33	RED 9	0-255
34	GREEN 9	0-255
35	BLUE 9	0-255
36	WHITE 9	0-255
37	RED 10	0-255
…	…	…
57	RED 15	0-255
58	GREEN 15	0-255
59	BLUE 15	0-255
60	WHITE 15	0-255

FILM				
1M12CH	**2M20CH**	**Channel**	**Value**	
1	1	Dimmer	000-255	0~100%
	2	Dimmer Fine	000-255	0~100%
2	3	CCT	000-007	2800K - 3000K
			007-014	3000K - 3200K
			014-021	3200K - 3400K
			021-028	3400K - 3600K
			028-035	3600K - 3800K
			035-042	3800K - 4000K
			042-049	4000K - 4200K
			049-056	4200K - 4400K
			056-063	4400K - 4600K
			063-070	4600K - 4800K
			070-077	4800K - 5000K
			077-084	5000K - 5200K
			084-091	5200K - 5400K
			091-098	5400K - 5600K
			098-105	5600K - 5800K
			105-112	5800K - 6000K
			112-119	6000K - 6200K
			119-126	6200K - 6400K
			126-133	6400K - 6600K
			133-140	6600K - 6800K
			140-147	6800K - 7000K
			147-154	7000K - 7200K
			154-161	7200K - 7400K
			161-168	7400K - 7600K
			168-175	7600K - 7800K
			175-182	7800K - 8000K
			182-189	8000K - 8200K
			189-196	8200K - 8400K
			196-203	8400K - 8600K
			203-210	8600K - 8800K
			210-217	8800K - 9000K
			217-224	9000K - 9200K
			224-231	9200K - 9400K
			231-238	9400K - 9600K
			238-245	9600K - 9800K
			245-255	9800K - 10000K
	4	CCT Fine	000-255	0~100%
3	5	HUE	000-010	Neutral / no effect
			011-020	full minus green
			021-119	-99% --> -1%
			120-145	Neutral / no effect
			146-244	1% --> 99%
			245-255	full plus green
	6	HUE Fine	000-255	0~100%
4	7	Crossfade To Color	000-255	0~100%
	8	Crossfade To Color Fine	000-255	0~100%
5	9	Red	000-255	0~100%
	10	Red Fine	000-255	0~100%
6	11	Green	000-255	0~100%

FILM				
1M12CH	2M20CH	Channel	Value	
	12	Green Fine	000-255	0~100%
7	13	Blue	000-255	0~100%
	14	Blue Fine	000-255	0~100%
8	15	White	000-255	0~100%
	16	White Fine	000-255	0~100%
9	17	Fan Control		
10	18	Color Macro	Refer to Color Macro (Theater and Film modes only)	
11	19	Strobe	000-019 020-255	Open 1 flash/s -> 25 flashes/s
12	20	Control	Refer to Control Channel	

	PIXEL		
	MODE		
PARAMETER	OFF	15PX	EXTENDED
RED 1	-	1	1
GREEN 1	-	2	2
BLUE 1	-	3	3
WARM WHITE 1	-	4	4
CROSSFADE PIXEL 1	-	-	5
CCT PIXEL 1	-	-	6
TINT PIXEL 1	-	-	7
…	…	…	…
RED 15	-	57	99
GREEN 15	-	58	100
BLUE 15	-	59	101
WARM WHITE 15	-	60	102
CROSSFADE PIXEL 15	-	-	103
CCT PIXEL 15	-	-	104
TINT PIXEL 15	-	-	105

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

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

Color 1					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
RED in RGBW mode RED in RGB mode CYAN in CMY mode HUE in HSI mode	0	255	0	65535	Linear 0 - 100% Default @ 255 / 65535

Color 2					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
GREEN in RGBW mode GREEN in RGB mode MAGENTA in CMY mode SATURATION in HSI mode	0	255	0	65535	Linear 0 - 100% Default @ 255 / 65535

Color 3					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
BLUE in RGBW mode BLUE in RGB mode YELLOW in CMY mode INTENSITY in HSI mode	0	255	0	65535	Linear 0 - 100% Default @ 255 / 65535

Color 4					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
WHITE in RGBW mode RESERVED in RGB mode RESERVED in CMY mode RESERVED in HSI mode	0	255	0	65535	Linear 0 - 100% Default @ 255 / 65535

X 1 - X 2					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
0.0000 - 0.8500	0	255	0	65535	X1 used on Layer 1, X2 used on Layer 2

Y 1 - Y 2					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
0.0000 - 0.8500	0	255	0	65535	Y1 used on Layer 1, Y2 used on Layer 2

CCT						
Function		8 bit value		16 bit value		Note
CCT From	CCT To	From	To	From	To	
2800	2900	0	4	0	910	Default @ 0
2900	3000	4	7	910	1820	
3000	3100	7	11	1820	2731	
3100	3200	11	14	2731	3641	
3200	3300	14	18	3641	4551	
3300	3400	18	21	4551	5461	
3400	3500	21	25	5461	6371	
3500	3600	25	28	6371	7282	
3600	3700	28	32	7282	8192	
3700	3800	32	35	8192	9102	
3800	3900	35	39	9102	10012	
3900	4000	39	43	10012	10923	
4000	4100	43	46	10923	11833	
4100	4200	46	50	11833	12743	
4200	4300	50	53	12743	13653	
4300	4400	53	57	13653	14563	
4400	4500	57	60	14563	15474	
4500	4600	60	64	15474	16384	
4600	4700	64	67	16384	17294	
4700	4800	67	71	17294	18204	
4800	4900	71	74	18204	19114	
4900	5000	74	78	19114	20025	
5000	5100	78	81	20025	20935	
5100	5200	81	85	20935	21845	
5200	5300	85	89	21845	22755	
5300	5400	89	92	22755	23665	
5400	5500	92	96	23665	24576	
5500	5600	96	99	24576	25486	
5600	5700	99	103	25486	26396	
5700	5800	103	106	26396	27306	
5800	5900	106	110	27306	28216	
5900	6000	110	113	28216	29127	
6000	6100	113	117	29127	30037	
6100	6200	117	120	30037	30947	
6200	6300	120	124	30947	31857	
6300	6400	124	128	31857	32768	
6400	6500	128	131	32768	33678	
6500	6600	131	135	33678	34588	
6600	6700	135	138	34588	35498	
6700	6800	138	142	35498	36408	
6800	6900	142	145	36408	37319	
6900	7000	145	149	37319	38229	
7000	7100	149	152	38229	39139	
7100	7200	152	156	39139	40049	
7200	7300	156	159	40049	40959	
7300	7400	159	163	40959	41870	

CCT						
Function		8 bit value		16 bit value		Note
CCT From	CCT To	From	To	From	To	
7400	7500	163	166	41870	42780	
7500	7600	166	170	42780	43690	
7600	7700	170	174	43690	44600	
7700	7800	174	177	44600	45510	
7800	7900	177	181	45510	46421	
7900	8000	181	184	46421	47331	
8000	8100	184	188	47331	48241	
8100	8200	188	191	48241	49151	
8200	8300	191	195	49151	50061	
8300	8400	195	198	50061	50972	
8400	8500	198	202	50972	51882	
8500	8600	202	205	51882	52792	
8600	8700	205	209	52792	53702	
8700	8800	209	213	53702	54613	
8800	8900	213	216	54613	55523	
8900	9000	216	220	55523	56433	
9000	9100	220	223	56433	57343	
9100	9200	223	227	57343	58253	
9200	9300	227	230	58253	59164	
9300	9400	230	234	59164	60074	
9400	9500	234	237	60074	60984	
9500	9600	237	241	60984	61894	
9600	9700	241	244	61894	62804	
9700	9800	244	248	62804	63715	
9800	9900	248	251	63715	64625	
9900	10000	251	255	64625	65535	

Tint					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
-25% to 0	0	127	-	-	Default @ 128 Linear tint correction from -0.25 to +0.25
Neutral	128	128	-	-	
0 to 25%	129	255	-	-	

Crossfade Hierarchy					
Following order must be read from bottom to top. First Level is CCT, Second level is Color Mix, Third level is Pixel Engine (ETH1 in case of double Protocol used), Fourth level is Pixel Engine (ETH2)					
ETH1 to ETH2	0	255	0	65535	Fixture must be running a Pixel Engine using two protocols (Pixel Address -> Artnet+sAcn) Crossfade is inhibited in any other case.
Color to Pixel Engine	0	255	0	65535	Fixture must be running a Pixel Engine. Pixel Engine is allocated on separated DMX Address. Crossfade is inhibited in any other case.
CCT to Color Mix	0	255	0	65535	Crossfade running on Fixture Engine. Crossfades from CCT to Color Mix level. FXs and Tour FXs are running on Color Mix level.
ETH1 to ETH2	0	255	0	65535	Default @ 0 Crossfade from Pixel Engine running on first ETH protocol to second Pixel Engine running on second ETH protocol

Crossfade from ETH1 to ETH2					
Function	**8 bit value**		**16 bit value**		**Note**
	From	**To**	**From**	**To**	
Linear Crossfade	0	255	0	65535	Default @ 0 Crossfade from Pixel Engine running on first ETH protocol to second Pixel Engine running on second ETH protocol

Crossfade from Color to Pixel Engine					
Function	**8 bit value**		**16 bit value**		**Note**
	From	**To**	**From**	**To**	
Linear Crossfade	0	255	0	65535	Default @ 0 Crossfade from Color Layer to Pixel Engine

Crossfade from X/Y Layer 1 to X/Y Layer 2					
Function	**8 bit value**		**16 bit value**		**Note**
	From	**To**	**From**	**To**	
Linear Crossfade	0	255	0	65535	Default @ 0 Crossfade from X/Y Layer 1 to X/Y Layer2

CTO on Colors					
Function	**8 bit value**		**16 bit value**		**Note**
	From	**To**	**From**	**To**	
Linear CTO 0 - 100%	0	255	0	65535	Default @ 0

Color Macro (Theater and Film modes only)					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
No Function	0	1	-	-	Default @ 0
RED	2	3	-	-	
GREEN	4	5	-	-	
BLUE	6	7	-	-	
CYAN	8	9	-	-	
MAGENTA	10	11	-	-	
YELLOW	12	13	-	-	
DIRTY WHITE	14	15	-	-	
ALICE BLLUE	16	17	-	-	
CONGO BLUE	18	19	-	-	
DARK STEEL BLUE	20	21	-	-	
DEEP LAVENDER	22	23	-	-	
LILAC TING	24	25	-	-	
DAYLIGHT BLUE	26	27	-	-	
FLAME RED	28	29	-	-	
BASTARD AMBER	30	31	-	-	
DEEP ORANGE	32	33	-	-	
PALE GOLD	34	35	-	-	
APRICOT	36	37	-	-	
BRIGHT BLUE	38	39	-	-	
PRIMARY GREEN	40	41	-	-	
SPECIAL LAVENDER	42	43	-	-	
PALE LAVENDER	44	45	-	-	
DEEP GOLDEN AMBER	46	47	-	-	
MEDIUM BLUE	48	49	-	-	
BRIGHT PINK	50	51	-	-	
MAUVE	52	53	-	-	
DARK GREEN	54	55	-	-	
LEE GREEN	56	57	-	-	
DARK BLUE	58	59	-	-	
LIGHT BLUE	60	61	-	-	
STEEL BLUE	62	63	-	-	
MEDIUM BLUE-GRE-EN	64	65	-	-	
PEACOCK BLUE	66	67	-	-	
MAGENTA	68	69	-	-	
DARK PINK	70	71	-	-	
MIDDLE ROSE	72	73	-	-	
LIGHT SALMON	74	75	-	-	
ENGLISH ROSE	76	77	-	-	
LIGHT ROSE	78	79	-	-	
ORANGE	80	81	-	-	
DEEP AMBER	82	83	-	-	
STRAW	84	85	-	-	
LIGHT AMBER	86	87	-	-	

Color Macro (Theater and Film modes only)					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
SPRING YELLOW	88	89	-	-	
DARK YELLOW GREEN	90	91	-	-	
JUST BLUE	92	93	-	-	
SKY BLUE	94	95	-	-	
LAVENDER	96	97	-	-	
LIGHT LAVENDER	98	99	-	-	
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 for future use	136	209	-	-	
2700K	210	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	-	-	

Color Macro (Theater and Film modes only)					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
8000K	248	249	-	-	
9000K	250	251	-	-	
10000K	252	253	-	-	
FULL ON	254	255	-	-	

Color Macro Brand					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
No Function	0	0	-	-	Default @ 0
LEE Gels	1	50	-	-	
Color Gels	51	100	-	-	
RESERVED	101	255	-	-	

Color Macro Category (when Color Macro Brand @ LEE Gels)					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Color Correction	0	50	-	-	Default @ 0
Color Filters	51	100	-	-	
600 Series	101	150	-	-	
Cosmetic Filters	151	200	-	-	
700 Series	201	255	-	-	

Color Macro Category (when Color Macro Brand @ Color Gels)					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Color Correction	0	50	-	-	Default @ 0
CColor	51	100	-	-	
SSelection	101	150	-	-	
Lux	151	200	-	-	
Reserved	201	255	-	-	

Gel (when Gel Category @ LEE: Color Correction)					
Function	8 bit value		16 bit value		Gel Number
	From	To	From	To	
Full CTB	0	1	-	-	3202
3/4 CTB	2	3	-	-	3203
1/2 CTB	4	5	-	-	3204
1/3 CTB	6	7	-	-	3206
1/4 CTB	8	9	-	-	3208
1/8 CTB	10	11	-	-	3216
Double CTB	12	13	-	-	3220
Full CTO	14	15	-	-	3407
3/4 CTO	16	17	-	-	3411
1/2 CTO	18	19	-	-	3408
1/4 CTO	20	21	-	-	3409
1/8 CTO	22	23	-	-	3410
Double CTO	24	25	-	-	3420
Full CTS	26	27	-	-	3441
1/2 CTS	28	29	-	-	3442
1/4 CTS	30	31	-	-	3443
1/8 CTS	32	33	-	-	3444
Full Plusgreen	34	35	-	-	3304
1/2 Plusgreen	36	37	-	-	3315
1/4 Plusgreen	38	39	-	-	3316
1/8 Plusgreen	40	41	-	-	3317
Full Minusgreen	42	43	-	-	3308
3/4 Minusgreen	44	45	-	-	3309
1/2 Minusgreen	46	47	-	-	3313
1/4 Minusgreen	48	49	-	-	3314
1/8 Minusgreen	50	51	-	-	3318
Fluorofilter	52	53	-	-	3310
Industrial Vapor	54	55	-	-	3150
Urban Vapor	56	57	-	-	3152
Tough Y-1	58	59	-	-	3107
Tough MT 54	60	61	-	-	3134
Tough MTY	62	63	-	-	3106
Tough MT2	64	65	-	-	3102
Reserved for Future Use	66	255	-	-	-

Gel (when Gel Category @ Color: C.Color)					
Function	8 bit value		16 bit value		Gel Number
	From	To	From	To	
15 Blue	0	1	-	-	4215
30 Blue	2	3	-	-	4230
60 Blue	4	5	-	-	4260
90 Blue	6	7	-	-	4290
7 Cyan	8	9	-	-	4307
15 Cyan	10	11	-	-	4315
30 Cyan	12	13	-	-	4330
60 Cyan	14	15	-	-	4360
90 Cyan	16	17	-	-	4390
15 Green	18	19	-	-	4415
30 Green	20	21	-	-	4430
60 Green	22	23	-	-	4460
90 Green	24	25	-	-	4490
15 Yellow	26	27	-	-	4515
30 Yellow	28	29	-	-	4530
60 Yellow	30	31	-	-	4560
90 Yellow	32	33	-	-	4590
15 Red	34	35	-	-	4615
30 Red	36	37	-	-	4630
60 Red	38	39	-	-	4660
90 Red	40	41	-	-	4690
15 Magenta	42	43	-	-	4715
30 Magenta	44	45	-	-	4730
60 Magenta	46	47	-	-	4760
90 Magenta	48	49	-	-	4790
15 Pink	50	51	-	-	4815
30 Pink	52	53	-	-	4830
60 Pink	54	55	-	-	4860
90 Pink	56	57	-	-	4890
15 Lavender	58	59	-	-	4915
30 Lavender	60	61	-	-	4930
60 Lavender	62	63	-	-	4960
90 Lavender	64	65	-	-	4990
Reserved for Future Use	66	255	-	-	-

Gel (when Gel Category @ Color: C.Color)					
Function	8 bit value		16 bit value		Gel Number
	From	To	From	To	
VS Red	0	1	-	-	2001
VS Orange	2	3	-	-	2202
VS Yellow	4	5	-	-	2003
VS Green	6	7	-	-	2004
VS Cyan	8	9	-	-	2005
VS Azure	10	11	-	-	2006
VS Blue	12	13	-	-	2007
VS Indigo	14	15	-	-	2008
VS Violet	16	17	-	-	2009
VS Magenta	18	19	-	-	2010
Reserved for Future Use	20	255	-	-	-

Gel (when Gel Category @ Color: C.Color)					
Function	8 bit value		16 bit value		Gel Number
	From	To	From	To	
Bastard Amber	0	1	-	-	2
Pale Bastard Amber	2	3	-	-	302
No Color Straw	4	5	-	-	6
Pale Gold	6	7	-	-	8
Daffodil	8	9	-	-	310
Straw	10	11	-	-	12
Light Amber	12	13	-	-	16
Gallo Gold	14	15	-	-	316
Light Flame	16	17	-	-	17
Flame	18	19	-	-	18
Mayan Sun	20	21	-	-	318
Golden Amber	22	23	-	-	21
Soft Golden Amber	24	25	-	-	321
Orange	26	27	-	-	23
Henny Sky	28	29	-	-	325
Light Red	30	31	-	-	26
No Color Pink	32	33	-	-	33
Blush Pink	34	35	-	-	333
Flesh Pink	36	37	-	-	34
Pale Rose Pink	38	39	-	-	37
Salmon	40	41	-	-	41
Deep Salmon	42	43	-	-	42
Middle Rose	44	45	-	-	44
Light Rose Purple	46	47	-	-	47
Surprise Pink	48	49	-	-	51
No Color Blue	50	51	-	-	60
Clearwater	52	53	-	-	360
Booster Blue	54	55	-	-	62
Tipton Blue	56	57	-	-	362
Blue Bell	58	59	-	-	364

Gel (when Gel Category @ Color: C.Color)					
Function	8 bit value		16 bit value		Gel Number
	From	To	From	To	
Daylight Blue	60	61	-	-	65
Tharon Delft Blue	62	63	-	-	365
Cerulean Blue	64	65	-	-	375
Bermuda Blue	66	67	-	-	376
Green Blue	68	69	-	-	77
Alice Blue	70	71	-	-	378
Primary Blue	72	73	-	-	80
Baldassari Blue	74	75	-	-	381
Medium Blue	76	77	-	-	83
Pale Yellow Green	78	79	-	-	87
Light Green	80	81	-	-	88
Moss Green	82	83	-	-	89
Primary Green	84	85	-	-	91
Turquoise	86	87	-	-	92
Blue Green	88	89	-	-	93
Chocolate	90	91	-	-	99
Reserved for Future Use	92	255	-	-	-

Gel (when Gel Category @ LEE: Color Correction)					
Function	8 bit value		16 bit value		Gel Number
	From	To	From	To	
Double CTB	0	1	-	-	200
Full CTB	2	3	-	-	201
3/4 CTB	4	5	-	-	281
1/2 CTB	6	7	-	-	202
1/4 CTB	8	9	-	-	203
1/8 CTB	10	11	-	-	218
Double CTO	12	13	-	-	287
Full CTO	14	15	-	-	204
3/4 CTO	16	17	-	-	285
1/2 CTO	18	19	-	-	205
1/4 CTO	20	21	-	-	206
1/8 CTO	22	23	-	-	223
1 1/2 CTB	24	25	-	-	283
1 1/2 CTO	26	27	-	-	286
Full CTS	28	29	-	-	441
1/2 CTS	30	31	-	-	442
1/4 CTS	32	33	-	-	443
1/8 CTS	34	35	-	-	444
Full CTO + .3 ND	36	37	-	-	207
Full CTO + .6 ND	38	39	-	-	208
L.C.T. Yellow (Y1)	40	41	-	-	212
White Flame Green	42	43	-	-	213
LEE Fluorescent Green	44	45	-	-	219
Super Correction L.C.T. Yellow	46	47	-	-	230
Super Correction W.F. Green	48	49	-	-	232
H.M.I. (to Tungsten)	50	51	-	-	236
C.I.D. (to Tungsten)	52	53	-	-	237
C.S.I. (to Tungsten)	54	55	-	-	238
LEE Fluorescent 5700 Kelvin	56	57	-	-	241
LEE Fluorescent 4300 Kelvin	58	59	-	-	242
LEE Fluorescent 3600 Kelvin	60	61	-	-	243
LEE Plus Green	62	63	-	-	244
1/2 Plus Green	64	65	-	-	245
1/4 Plus Green	66	67	-	-	246
1/8 Plus Green	68	69	-	-	278
Lee Minus Green	70	71	-	-	247
1/2 Minus Green	72	73	-	-	248
1/4 Minus Green	74	75	-	-	249
1/8 Minus Green	76	77	-	-	279
Reserved for future Use	78	255	-	-	

Gel (when Gel Category @ LEE: Color Filters)					
Function	8 bit value		16 bit value		Gel Number
	From	To	From	To	
Rose Pink	0	1	-	-	2
Lavender Tint	2	3	-	-	3
Medium Bastard Amber	4	5	-	-	4
Pale Yellow	6	7	-	-	7
Dark Salmon	8	9	-	-	8
Pale Amber Gold	10	11	-	-	9
Medium Yellow	12	13	-	-	10
Straw Tint	14	15	-	-	13
Surprise Peach	16	17	-	-	17
Fire	18	19	-	-	19
Medium Amber	20	21	-	-	20
Gold Amber	22	23	-	-	21
Dark Amber	24	25	-	-	22
Scarlet	26	27	-	-	24
Sunset Red	28	29	-	-	25
Bright Red	30	31	-	-	26
Light Pink	32	33	-	-	35
Medium Pink	34	35	-	-	36
Dark Magenta	36	37	-	-	46
Rose Purple	38	39	-	-	48
Light Lavender	40	41	-	-	52
Paler Lavender	42	43	-	-	53
Lavender	44	45	-	-	58
Mist Blue	46	47	-	-	61
Pale Blue	48	49	-	-	63
Sky Blue	50	51	-	-	68
Evening Blue	52	53	-	-	75
Just Blue	54	55	-	-	79
Deeper Blue	56	57	-	-	85
Lime Green	58	59	-	-	88
Moss Green	60	61	-	-	89
Dark Yellow Green	62	63	-	-	90
Spring Yellow	64	65	-	-	100
Yellow	66	67	-	-	101
Light Amber	68	69	-	-	102
Straw	70	71	-	-	103
Deep Amber	72	73	-	-	104
Primary Red	74	75	-	-	106
Light Rose	76	77	-	-	107
English Rose	78	79	-	-	108
Light Salmon	80	81	-	-	109
Middle Rose	82	83	-	-	110
Dark Pink	84	85	-	-	111
Magenta	86	87	-	-	113
Peacock Blue	88	89	-	-	115
Steel Blue	90	91	-	-	117

Gel (when Gel Category @ LEE: Color Filters)					
Function	8 bit value		16 bit value		Gel Number
	From	To	From	To	
Light Blue	92	93	-	-	118
Deep Blue	94	95	-	-	120
LEE Green	96	97	-	-	121
Fern Green	98	99	-	-	122
Dark Green	100	101	-	-	124
Smokey Pink	102	103	-	-	127
Bright Pink	104	105	-	-	128
Marine Blue	106	107	-	-	131
Golden Amber	108	109	-	-	134
Deep Golden Amber	110	111	-	-	135
Pale Lavender	112	113	-	-	136
Special Lavender	114	115	-	-	137
Pale Green	116	117	-	-	138
Summer Blue	118	119	-	-	140
Pale Violet	120	121	-	-	142
Pale Navy Blue	122	123	-	-	143
No Color Blue	124	125	-	-	144
Apricot	126	127	-	-	147
Bright Rose	128	129	-	-	148
Gold Tint	130	131	-	-	151
Pale Gold	132	133	-	-	152
Pale Salmon	134	135	-	-	153
Pale Rose	136	137	-	-	154
Chocolate	138	139	-	-	156
Pink	140	141	-	-	157
No Color Straw	142	143	-	-	159
Slate Blue	144	145	-	-	161
Bastard Amber	146	147	-	-	162
Flame Red	148	149	-	-	164
Daylight Blue	150	151	-	-	165
Lilac Tint	152	153	-	-	169
Deep Lavender	154	155	-	-	170
Dark Steel Blue	156	157	-	-	174
Loving Amber	158	159	-	-	176
Dark Lavender	160	161	-	-	180
Light Red	162	163	-	-	182
Flesh Pink	164	165	-	-	192
Surprise Pink	166	167	-	-	194
Zenith Blue	168	169	-	-	195
True Blue	170	171	-	-	196
Alice Blue	172	173	-	-	197
Palace Blue	174	175	-	-	198
Regal Blue	176	177	-	-	199
Reserved for future Use	178	255	-	-	

Gel (when Gel Category @ LEE: 600 series)					
Function	8 bit value		16 bit value		Gel Number
	From	To	From	To	
Arctic White	0	1	-	-	600
Silver	2	3	-	-	601
Platinum	4	5	-	-	602
Moonlight White	6	7	-	-	603
Full CT 85	8	9	-	-	604
Industry Sodium	10	11	-	-	650
HI Sodium	12	13	-	-	651
Urban Sodium	14	15	-	-	652
LO Sodium	16	17	-	-	653
Reserved	18	255	-	-	-

Gel (when Gel Category @ LEE: Cosmetic Series)					
Function	8 bit value		16 bit value		Gel Number
	From	To	From	To	
Cosmetic Peach	0	1	-	-	184
Cosmetic Silver Rose	2	3	-	-	186
Cosmetic Rouge	4	5	-	-	187
Cosmetic Highlight	6	7	-	-	188
Cosmetic Silver Moss	8	9	-	-	189
Cosmetic Aqua Blue	10	11	-	-	191
Lily Frost	12	13	-	-	705
Shanklin Frost	14	15	-	-	717
Half Shanklin Frost	16	17	-	-	718
Durham Daylight Frost	18	19	-	-	720
Hampshire Rose	20	21	-	-	749
Durham Frost	22	23	-	-	750
Soft Amber Key 1	24	25	-	-	774
Soft Amber Key 2	26	27	-	-	775
Moroccan Frost	28	29	-	-	791
Blue Diffusion	30	31	-	-	217
Blue Frost	32	33	-	-	221
Daylight Blue Frost	34	35	-	-	224
Reserved for Future Use	36	255	-	-	-

Gel (when Gel Category @ LEE: Color Filters)					
Function	8 bit value		16 bit value		Gel Number
	From	To	From	To	
Perfect Lavender	0	1	-	-	700
Provence	2	3	-	-	701
Special Pale Lavender	4	5	-	-	702
Cold Lavender	6	7	-	-	703
Lily	8	9	-	-	704
King Fals Lavender	10	11	-	-	706
Cool Lavender	12	13	-	-	708
Electric Lilac	14	15	-	-	709
Spir Special Blue	16	17	-	-	710
Cold Blue	18	19	-	-	711
Bedford Blue	20	21	-	-	712
Elysian Blue	22	23	-	-	714
Cabana Blue	24	25	-	-	715
Mikkel Blue	26	27	-	-	716
Colour Wash Blue	28	29	-	-	719
Berry Blue	30	31	-	-	721
Virgin Blue	32	33	-	-	723
Ocean Blue	34	35	-	-	724
Old Steel Blue	36	37	-	-	725
Steel Green	38	39	-	-	728
Liberty Green	40	41	-	-	730
Dirty Ice	42	43	-	-	731
Damp Squib	44	45	-	-	733
JAS Green	46	47	-	-	738
Bram Brown	48	49	-	-	742
Dirty White	50	51	-	-	744
Brown	52	53	-	-	746
Easy White	54	55	-	-	747
Seedy Pink	56	57	-	-	748
Wheat	58	59	-	-	763
Sun Colour Straw	60	61	-	-	764
LEE Yellow	62	63	-	-	765
Cardbox Amber	64	65	-	-	773
Nectarine	66	67	-	-	776
Millenium Gold	68	69	-	-	778
Bastard Pink	70	71	-	-	779
Terry Red	72	73	-	-	781
Blood Red	74	75	-	-	789
Moroccan Pink	76	77	-	-	790
Pretty n'Pink	78	79	-	-	794
Magical Magenta	80	81	-	-	795
Reserved for Future Use	82	255	-	-	-

Source Emulation Category Selector					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
No Function	0	0	-	-	Default @ 0
Incandescent	1	50	-	-	
Fluorescent	51	100	-	-	
Discharge	101	150	-	-	
Other	151	200	-	-	
Reserved	201	255	-	-	

Source Emulation Macro (when Source Emulation Category @ Incandescent)					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Tungsten Bulb	0	1	-	-	Default @ 0
Incandescent	2	3	-	-	
Halogen	4	5	-	-	
Antique Bulb	6	7	-	-	
Warm Antique Bulb	8	9	-	-	
Christmas Light	10	11	-	-	
Night Light	12	13	-	-	
Infrared Heat Lamp	14	15	-	-	
Grow Light	16	17	-	-	
Reserved	18	255	-	-	

Source Emulation Macro (when Source Emulation Category @ Fluorescent)					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Tungsten Bulb	0	1	-	-	Default @ 0
Incandescent	2	3	-	-	
Halogen	4	5	-	-	
Antique Bulb	6	7	-	-	
Warm Antique Bulb	8	9	-	-	
Christmas Light	10	11	-	-	
Night Light	12	13	-	-	
Infrared Heat Lamp	14	15	-	-	
Grow Light	16	17	-	-	
Reserved	18	255	-	-	

Source Emulation Macro (when Source Emulation Category @ Discharge)					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
HMI	0	1	-	-	Default @ 0
High Pressure Sodium	2	3	-	-	
Low Pressure Sodium	4	5	-	-	
Mercury Vapor	6	7	-	-	
Metal Halide	8	9	-	-	
Ceramic	10	11	-	-	
Carbon Arc	12	13	-	-	
Xenon	14	15	-	-	
Reserved	16	255	-	-	

Source Emulation Macro (when Source Emulation Category @ Other)					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Candle	0	1	-	-	Default @ 0
Gas Fire	2	3	-	-	
Sun Direct	4	5	-	-	
Sun Overcast	6	7	-	-	
Sun Blue Hour	8	9	-	-	
Mobile Phone	10	11	-	-	
Computer Monitor	12	13	-	-	
Electroluminescence	14	15	-	-	
Blow Torch	16	17	-	-	
Road Flare	18	19	-	-	
Amber Caution	20	21	-	-	
Green Traffic Light	22	23	-	-	
Yellow Traffic Light	24	25	-	-	
Red Traffic Light	26	27	-	-	
Blue Glow Stick	28	29	-	-	
Green Glow Stick	30	31	-	-	
Red Glow Stick	32	33	-	-	
Yellow Glow Stick	34	35	-	-	
Pink Glow Stick	36	37	-	-	
Violet Glow Stick	38	39	-	-	
Reserved	40	255	-	-	

Control Mode Selector					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Cinema FX	0	12	-	-	Default @ 0
Source Emulation	13	24	-	-	
CCT	25	36	-	-	
HSI	37	48	-	-	
Fixed Colors	49	60	-	-	
White Presets	61	72	-	-	
Color Macro	73	84	-	-	
Manual Colors	85	96	-	-	
XY	97	108	-	-	
User Preset	109	120	-	-	
Reserved	121	255	-	-	

Control Mode Selector										
Following table is defining usage of Parameter Channels. Blank cells means that channel is Reserved / Not being used.										
Mode Selected	**Cinema FX**	**Source Emulation**	**CCT**	**HSI**	**Fixed Colors**	**White Presets**	**Color Macro**	**Manual Colors**	**XY**	**User Preset**
Cinema FX Selector	FX Selector	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
Parameter 1	FX Parameter 1	Source Emulation Category Selector	CCT	Hue	Color Macros	White Presets	COLOR MACRO BRAND	RED	X	PRESET
Parameter 2	FX Parameter 2	Source Emulation Macro Selector	TINT	Saturation	CTO on Colors	Tint	COLOR MACRO CATEGORY	GREEN	Y	
Parameter 3	FX Parameter 3						COLOR MACRO	BLUE		
Parameter 4	FX Parameter 4							WHITE		
Parameter 5	FX Parameter 5									
Parameter 6	FX Parameter 6									
Parameter 7	FX Parameter 7									

Cinema FX Selector					
Function	**8 bit value**		**16 bit value**		**Note**
	From	**To**	**From**	**To**	
No Function	0	1	-	-	Default @ 0
Party Effect	2	3	-	-	
Candle	4	5	-	-	
Clouds Passing	6	7	-	-	
Club Lights	8	9	-	-	
Color Chase	10	11	-	-	
Cop Car	12	13	-	-	
Fire	14	15	-	-	
Fireworks	16	17	-	-	
Strobe	18	19	-	-	
Lightning	20	21	-	-	
Paparazzi	22	23	-	-	
Pulsing	24	25	-	-	
Television	26	27	-	-	
Explosion	28	29	-	-	
Fluorescent Flicker	30	31	-	-	
Process Effect	32	33	-	-	
Welding	34	35	-	-	
Reserved for Future Use	36	255	-	-	

CCT (Used via Extended Mode @ 2200K - 15000K)						
Function		8 bit value		16 bit value		Note
CCT From	CCT To	From	To	From	To	
2200	2300	0	2	0	512	Default @ 0
2300	2400	2	4	512	1024	
2400	2500	4	6	1024	1536	
2500	2600	6	8	1536	2048	
2600	2700	8	10	2048	2560	
2700	2800	10	12	2560	3072	
2800	2900	12	14	3072	3584	
2900	3000	14	16	3584	4096	
3000	3100	16	18	4096	4608	
3100	3200	18	20	4608	5120	
3200	3300	20	22	5120	5632	
3300	3400	22	24	5632	6144	
3400	3500	24	26	6144	6656	
3500	3600	26	28	6656	7168	
3600	3700	28	30	7168	7680	
3700	3800	30	32	7680	8192	
3800	3900	32	34	8192	8704	
3900	4000	34	36	8704	9216	
4000	4100	36	38	9216	9728	
4100	4200	38	40	9728	10240	
4200	4300	40	42	10240	10752	
4300	4400	42	44	10752	11264	
4400	4500	44	46	11264	11776	
4500	4600	46	48	11776	12288	
4600	4700	48	50	12288	12800	
4700	4800	50	52	12800	13312	
4800	4900	52	54	13312	13824	
4900	5000	54	56	13824	14336	
5000	5100	56	58	14336	14848	
5100	5200	58	60	14848	15360	
5200	5300	60	62	15360	15872	
5300	5400	62	64	15872	16384	
5400	5500	64	66	16384	16896	
5500	5600	66	68	16896	17408	
5600	5700	68	70	17408	17920	
5700	5800	70	72	17920	18432	
5800	5900	72	74	18432	18944	
5900	6000	74	76	18944	19456	
6000	6100	76	78	19456	19968	
6100	6200	78	80	19968	20480	
6200	6300	80	82	20480	20992	
6300	6400	82	84	20992	21504	
6400	6500	84	86	21504	22016	
6500	6600	86	88	22016	22528	
6600	6700	88	90	22528	23040	
6700	6800	90	92	23040	23552	

CCT (Used via Extended Mode @ 2200K - 15000K)						
Function		8 bit value		16 bit value		Note
CCT From	CCT To	From	To	From	To	
6800	6900	92	94	23552	24064	
6900	7000	94	96	24064	24576	
7000	7100	96	98	24576	25088	
7100	7200	98	100	25088	25600	
7200	7300	100	102	25600	26112	
7300	7400	102	104	26112	26624	
7400	7500	104	106	26624	27136	
7500	7600	106	108	27136	27648	
7600	7700	108	110	27648	28160	
7700	7800	110	112	28160	28672	
7800	7900	112	114	28672	29184	
7900	8000	114	116	29184	29696	
8000	8100	116	118	29696	30208	
8100	8200	118	120	30208	30720	
8200	8300	120	122	30720	31232	
8300	8400	122	124	31232	31744	
8400	8500	124	126	31744	32256	
8500	8600	126	128	32256	32768	
8600	8700	128	129	32768	33279	
8700	8800	129	131	33279	33791	
8800	8900	131	133	33791	34303	
8900	9000	133	135	34303	34815	
9000	9100	135	137	34815	35327	
9100	9200	137	139	35327	35839	
9200	9300	139	141	35839	36351	
9300	9400	141	143	36351	36863	
9400	9500	143	145	36863	37375	
9500	9600	145	147	37375	37887	
9600	9700	147	149	37887	38399	
9700	9800	149	151	38399	38911	
9800	9900	151	153	38911	39423	
9900	10000	153	155	39423	39935	
10000	10100	155	157	39935	40447	
10100	10200	157	159	40447	40959	
10200	10300	159	161	40959	41471	
10300	10400	161	163	41471	41983	
10400	10500	163	165	41983	42495	
10500	10600	165	167	42495	43007	
10600	10700	167	169	43007	43519	
10700	10800	169	171	43519	44031	
10800	10900	171	173	44031	44543	
10900	11000	173	175	44543	45055	
11000	11100	175	177	45055	45567	
11100	11200	177	179	45567	46079	
11200	11300	179	181	46079	46591	
11300	11400	181	183	46591	47103	

CCT (Used via Extended Mode @ 2200K - 15000K)						
Function		8 bit value		16 bit value		Note
CCT From	CCT To	From	To	From	To	
11400	11500	183	185	47103	47615	
11500	11600	185	187	47615	48127	
11600	11700	187	189	48127	48639	
11700	11800	189	191	48639	49151	
11800	11900	191	193	49151	49663	
11900	12000	193	195	49663	50175	
12000	12100	195	197	50175	50687	
12100	12200	197	199	50687	51199	
12200	12300	199	201	51199	51711	
12300	12400	201	203	51711	52223	
12400	12500	203	205	52223	52735	
12500	12600	205	207	52735	53247	
12600	12700	207	209	53247	53759	
12700	12800	209	211	53759	54271	
12800	12900	211	213	54271	54783	
12900	13000	213	215	54783	55295	
13000	13100	215	217	55295	55807	
13100	13200	217	219	55807	56319	
13200	13300	219	221	56319	56831	
13300	13400	221	223	56831	57343	
13400	13500	223	225	57343	57855	
13500	13600	225	227	57855	58367	
13600	13700	227	229	58367	58879	
13700	13800	229	231	58879	59391	
13800	13900	231	233	59391	59903	
13900	14000	233	235	59903	60415	
14000	14100	235	237	60415	60927	
14100	14200	237	239	60927	61439	
14200	14300	239	241	61439	61951	
14300	14400	241	243	61951	62463	
14400	14500	243	245	62463	62975	
14500	14600	245	247	62975	63487	
14600	14700	247	249	63487	63999	
14700	14800	249	251	63999	64511	
14800	14900	251	253	64511	65023	
14900	15000	253	255	65023	65535	

Fixed Color - Macro					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
R	0	1	-	-	Default @ 0
G	2	3	-	-	
B	4	5	-	-	
W	6	7	-	-	
GB	8	9	-	-	
RB	10	11	-	-	
RG	12	13	-	-	
RGB	14	15	-	-	
RW	16	17	-	-	
GW	18	19	-	-	
BW	20	21	-	-	
RGW	22	23	-	-	
RBW	24	25	-	-	
GBW	26	27	-	-	
RGBW	28	29	-	-	
Reserved for Future Use	30	255	-	-	

White Presets - White Presets					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
2800K	0	1	-	-	Default @ 0
3200K	2	3	-	-	
3500K	4	5	-	-	
4000K	6	7	-	-	
4500K	8	9	-	-	
5000K	10	11	-	-	
5600K	12	13	-	-	
6000K	14	15	-	-	
6500K	16	17	-	-	
7000K	18	19	-	-	
7500K	20	21	-	-	
8000K	22	23	-	-	
8500K	24	25	-	-	
9000K	26	27	-	-	
9500K	28	29	-	-	
10000K	30	31	-	-	
Reserved for Future Use	32	255	-	-	

White Presets - White Presets					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Preset 1	0	1	-	-	Default @ 0
Preset 2	2	3	-	-	
Preset 3	4	5	-	-	
Preset 4	6	7	-	-	
Preset 5	8	9	-	-	
Preset 6	10	11	-	-	
Preset 7	12	13	-	-	
Preset 8	14	15	-	-	
Preset 9	16	17	-	-	
Preset 10	18	19	-	-	
Reserved for Future Use	20	255	-	-	

Tour FX Selector					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
No FX	0	25	-	-	Default @ 0
FX 1	26	35	-	-	
FX 2	36	45	-	-	
FX 3	46	55	-	-	
FX 4	56	65	-	-	
FX 5	66	75	-	-	
FX 6	76	85	-	-	
FX 7	86	95	-	-	
FX 8	96	105	-	-	
FX 9	106	115	-	-	
FX 10	116	125	-	-	
FX 11	126	135	-	-	
FX 12	136	145	-	-	
FX 13	146	155	-	-	
FX 14	156	165	-	-	
FX 15	166	175	-	-	
FX 16	176	185	-	-	
FX 17	186	195	-	-	
FX 18	196	205	-	-	
FX 19	206	215	-	-	
FX 20	216	225	-	-	
FX 21	226	235	-	-	
FX 22	236	245	-	-	
FX 23	246	255	-	-	

Tour Pattern Speed					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Indexing	0	127	-	-	Default @ 0
CW from fast to slow	128	190	-	-	
Stop	191	192	-	-	
CCW from slow to fast	193	255	-	-	

Tour Pattern Fade					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
0% - 100%	0	255	-	-	Default @ 0

Tour Pattern Transition					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
0% - 100%	0	255	-	-	Default @ 0

Tour Foreground Intensity					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
0% - 100%	0	255	-	-	Default @ 0

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

Tour Foreground Red					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
0 - 100%	0	255	0	65535	Linear 0 - 100% Default @ 255 / 65535

Tour Foreground Green					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
0 - 100%	0	255	0	65535	Linear 0 - 100% Default @ 255 / 65535

Tour Foreground Blue					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
0 - 100%	0	255	0	65535	Linear 0 - 100% Default @ 255 / 65535

Tour Foreground White					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
0 - 100%	0	255	0	65535	Linear 0 - 100% Default @ 255 / 65535

Tour Background Intensity					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
0% - 100%	0	255	-	-	Default @ 0

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

Tour Background Red					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
0 - 100%	0	255	0	65535	Linear 0 - 100% Default @ 255 / 65535

Tour Background Green					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
0 - 100%	0	255	0	65535	Linear 0 - 100% Default @ 255 / 65535

Tour Background Blue					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
0 - 100%	0	255	0	65535	Linear 0 - 100% Default @ 255 / 65535

Tour Background White					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
0 - 100%	0	255	0	65535	Linear 0 - 100% Default @ 255 / 65535

Party Effect - P1: Saturation					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
CCT 2800K - 10000K	0	0	0	255	Default @ 0
Saturation 0 - 1	1	255	256	65535	

Party Effect - P2: Speed					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Slow to fast	0	255	0	65535	Default @ 0

Candle - P1: CCT Range					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
CCT 1400K - 1700K	0	84	0	21759	Default @ 0
CCT 1700K - 2000K	85	170	21760	43775	
CCT 2000K - 2300K	171	255	43776	65535	

Candle - P2: Speed					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Slow to fast	0	255	0	65535	Default @ 0

Clouds Passing - P1: Offset					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
0 to 50	0	255	0	65535	Default @ 0

Clouds Passing - P2: Speed					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Slow to fast	0	255	0	65535	Default @ 0

Clouds Passing - P3: Trigger					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Reserved	0	254	0	65279	Default @ 0
Reset Loop	255	255	65280	65535	

Club Lights - P1: Colors					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
3 Colors	0	31	0	8191	Default @ 0
6 Colors	32	63	8192	16383	
9 Colors	64	95	16384	24575	
12 Colors	96	127	24576	32767	
15 Colors	128	159	32768	40959	
18 Colors	160	191	40960	49151	
21 Colors	192	223	49152	57343	
24 Colors	224	255	57344	65535	

Club Lights - P2: Speed					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Slow to fast	0	255	0	65535	Default @ 0

Color Chase - P3: Saturation					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
CCT 2800K - 10000K	0	0	0	255	Default @ 0
Saturation 0 - 1	1	255	256	65535	

Color Chase - P4: Trigger					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Reserved	0	254	0	65279	Default @ 0
Reset Loop	255	255	65280	65535	

Cop Car - P1: Color Combinations					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Just Blue	0	27	0	7167	Default @ 0
Blue and Red	28	55	7168	14335	
Blue and White	56	83	14336	21503	
Blue, Red and White	84	111	21504	28671	
Blue and Amber	112	139	28672	35839	
Blue, Red and Amber	140	167	35840	43007	
Red and Amber	168	195	43008	50175	
Amber	196	223	50176	57343	
Red	224	255	57344	65535	

Cop Car - P2: Flash Pattern					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Single Flash	0	31	0	8191	Default @ 0
Double Flash	32	63	8192	16383	
Quint All Flash	64	95	16384	24575	
Quint Flash	96	127	24576	32767	
Quad Flash	128	159	32768	40959	
Cycle All	160	191	40960	49151	
Reserved	192	255	49152	65535	

Cop Car - P3: Speed					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Slow to fast	0	255	0	65535	Default @ 0

Fire - P1: CCT Range					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
CCT 1800K - 2200K	0	84	0	21759	Default @ 0
CCT 2200K - 2600K	85	170	21760	43775	
CCT 2600K - 3000K	171	255	43776	65535	

Fire - P2: Speed					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Slow to fast	0	255	0	65535	Default @ 0

Fireworks - P1: Color Combinations					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Colors	0	63	0	16128	Default @ 0
White	64	127	16129	32767	
Colors and White	128	191	32768	48896	
Reserved	192	255	48897	65535	

Fireworks - P2: Speed					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Slow to fast	0	255	0	65535	Default @ 0

Strobe - P1: Speed					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Slow to fast	0	255	0	65535	Default @ 0

Strobe - P2: CCT					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
CCT 2800K - 10000K	0	255	0	65535	Default @ 0

Strobe - P3: Green Magenta Point					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Neutral / No Effect	0	1	0	511	Default @ 128
Full Minus Green	2	3	512	1023	
-99% to -1%	4	126	1024	32511	
Neutral / No Effect	127	128	32512	33023	
1% to 99%	129	251	33024	64511	
Full Plus Green	252	253	64512	65023	
Neutral / No Effect	254	255	65024	65535	

Strobe - P4: Crossfade from CCT to Color					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Linear Crossfade	0	255	0	65535	Default @ 0

Strobe - P5: Hue					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
0 - 360°	0	255	0	65535	Default @ 0

Strobe - P6: Saturation					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
0 - 100%	0	255	0	65535	Default @ 0

Lightning - P1: Frequency					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
2 - 14 lightning strikes set	0	254	0	65279	Default @ 0
Random	255	255	65280	65535	

Lightning - P2: Speed					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
0 - 10 flashes / second	0	254	0	65279	Default @ 0
Random	255	255	65280	65535	

Lightning - P3: CCT					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
CCT 2800K - 10000K	0	255	0	65535	Default @ 0

Lightning - P4: Green Magenta Point					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Neutral / No Effect	0	1	0	511	Default @ 128
Full Minus Green	2	3	512	1023	
-99% to -1%	4	126	1024	32511	
Neutral / No Effect	127	128	32512	33023	
1% to 99%	129	251	33024	64511	
Full Plus Green	252	253	64512	65023	
Neutral / No Effect	254	255	65024	65535	

Lightning - P4: Green Magenta Point					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Neutral / No Effect	0	1	0	511	Default @ 128
Full Minus Green	2	3	512	1023	
-99% to -1%	4	126	1024	32511	
Neutral / No Effect	127	128	32512	33023	
1% to 99%	129	251	33024	64511	
Full Plus Green	252	253	64512	65023	
Neutral / No Effect	254	255	65024	65535	

Lightning - P5: Trigger					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Reserved	0	254	0	65279	Default @ 0
Reset Loop	255	255	65280	65535	

Paparazzi - P1: Frequency					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
6 to 120 Flashes / min	0	255	0	65535	Default @ 0

Paparazzi - P2: Flash Type					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Flash Bulb	0	127	0	32767	Default @ 0
Modern Flash	128	255	32768	65535	

Paparazzi - P3: CCT					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
CCT 2800K - 10000K	0	255	0	65535	Default @ 0

Paparazzi - P4: Green Magenta Point					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Neutral / No Effect	0	1	0	511	Default @ 128
Full Minus Green	2	3	512	1023	
-99% to -1%	4	126	1024	32511	
Neutral / No Effect	127	128	32512	33023	
1% to 99%	129	251	33024	64511	
Full Plus Green	252	253	64512	65023	
Neutral / No Effect	254	255	65024	65535	

Pulsing - P1: Frequency					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
5 to 90 Pulses/minute	0	255	0	65535	Default @ 0

Pulsing - P2: Pulse Duration					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
4s to 0.25s	0	255	0	65535	Default @ 0

Pulsing - P3: CCT					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
CCT 2800K - 10000K	0	255	0	65535	Default @ 0

Pulsing - P4: Green Magenta Point					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Neutral / No Effect	0	1	0	511	Default @ 128
Full Minus Green	2	3	512	1023	
-99% to -1%	4	126	1024	32511	
Neutral / No Effect	127	128	32512	33023	
1% to 99%	129	251	33024	64511	
Full Plus Green	252	253	64512	65023	
Neutral / No Effect	254	255	65024	65535	

Pulsing - P5: Crossfade from CCT to Color					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Linear Crossfade	0	255	0	65535	Default @ 0

Pulsing - P6: Hue					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
0 - 360°	0	255	0	65535	Default @ 0

Pulsing - P7: Saturation					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
0 - 100%	0	255	0	65535	Default @ 0

Television - P1: CCT Range					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
CCT 2800K - 4700K	0	84	0	21759	Default @ 0
CCT 4700K - 6500K	85	170	21760	43775	
CCT 6500K - 10000K	171	255	43776	65535	

Television - P2: Speed					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Slow to fast	0	255	0	65535	Default @ 0

Explosion - P1: Frequency					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
5 to 90 Pulses/minute	0	255	0	65535	Default @ 0

Explosion - P2: Trigger					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Auto	0	250	0	64255	Default @ 0
Manual Explosion	251	255	64256	65535	

Explosion - P3: CCT					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
CCT 2800K - 10000K	0	255	0	65535	Default @ 0

Explosion - P4: Green Magenta Point					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Neutral / No Effect	0	1	0	511	Default @ 128
Full Minus Green	2	3	512	1023	
-99% to -1%	4	126	1024	32511	
Neutral / No Effect	127	128	32512	33023	
1% to 99%	129	251	33024	64511	
Full Plus Green	252	253	64512	65023	
Neutral / No Effect	254	255	65024	65535	

Explosion - P5: Crossfade from CCT to Color					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Linear Crossfade	0	255	0	65535	Default @ 0

Explosion - P6: Hue					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
0 - 360°	0	255	0	65535	Default @ 0

Explosion - P7: Saturation					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
0 - 100%	0	255	0	65535	Default @ 0

Fluorescent Flicker - P1: Speed					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Slow to fast	0	255	0	65535	Default @ 0

Fluorescent Flicker - P2: Frequency					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
3 to 10 flickers per second	0	255	0	65535	Default @ 0

Fluorescent Flicker - P3: CCT					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
CCT 2800K - 10000K	0	255	0	65535	Default @ 0

Fluorescent Flicker - P4: Green Magenta Point					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Neutral / No Effect	0	1	0	511	Default @ 128
Full Minus Green	2	3	512	1023	
-99% to -1%	4	126	1024	32511	
Neutral / No Effect	127	128	32512	33023	
1% to 99%	129	251	33024	64511	
Full Plus Green	252	253	64512	65023	
Neutral / No Effect	254	255	65024	65535	

Fluorescent Flicker - P5: Crossfade from CCT to Color					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Linear Crossfade	0	255	0	65535	Default @ 0

Fluorescent Flicker - P6: Hue					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
0 - 360°	0	255	0	65535	Default @ 0

Fluorescent Flicker - P7: Saturation					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
0 - 100%	0	255	0	65535	Default @ 0

Process Effect - P1: Speed					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Slow to fast	0	255	0	65535	Default @ 0

Process Effect - P2: Direction					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Left to Right	0	127	0	32767	Default @ 0
Right to Left	128	255	32768	65535	

Process Effect - P3: CCT					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
CCT 2800K - 10000K	0	255	0	65535	Default @ 0

Process Effect - P4: Green Magenta Point					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Neutral / No Effect	0	1	0	511	Default @ 128
Full Minus Green	2	3	512	1023	
-99% to -1%	4	126	1024	32511	
Neutral / No Effect	127	128	32512	33023	
1% to 99%	129	251	33024	64511	
Full Plus Green	252	253	64512	65023	
Neutral / No Effect	254	255	65024	65535	

Process Effect - P5: Crossfade from CCT to Color					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Linear Crossfade	0	255	0	65535	Default @ 0

Process Effect - P6: Hue					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
0 - 360°	0	255	0	65535	Default @ 0

Process Effect - P7: Saturation					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
0 - 100%	0	255	0	65535	Default @ 0

Fluorescent Flicker - P1: Speed					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Slow to fast	0	255	0	65535	Default @ 0

Welding - P2: Minimum Intensity					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
0% to 75% minimum intensity level	0	255	0	65535	Default @ 0

Welding - P3: CCT					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
CCT 2800K - 10000K	0	255	0	65535	Default @ 0

Welding - P4: Green Magenta Point					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Neutral / No Effect	0	1	0	511	Default @ 128
Full Minus Green	2	3	512	1023	
-99% to -1%	4	126	1024	32511	
Neutral / No Effect	127	128	32512	33023	
1% to 99%	129	251	33024	64511	
Full Plus Green	252	253	64512	65023	
Neutral / No Effect	254	255	65024	65535	

Welding - P5: Crossfade from CCT to Color					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
Linear Crossfade	0	255	0	65535	Default @ 0

Welding - P6: Hue					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
0 - 360°	0	255	0	65535	Default @ 0

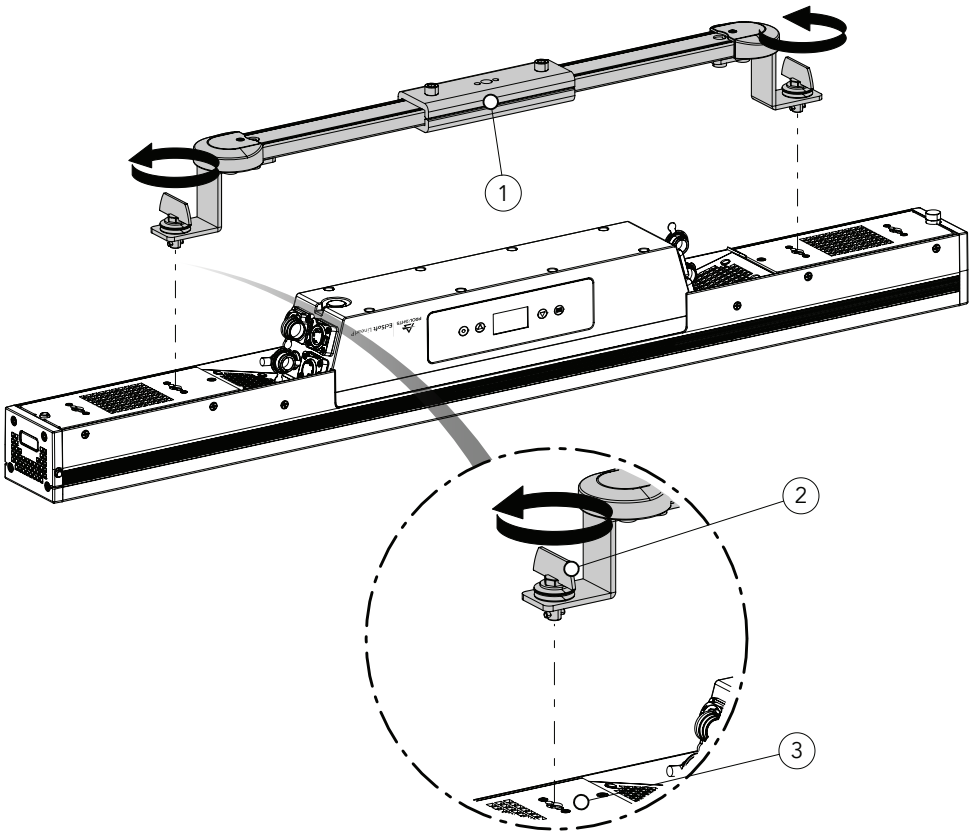
Welding - P7: Saturation					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
0 - 100%	0	255	0	65535	Default @ 0

Control Channel					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
SAFE	0	1	-	-	Default @ 0
RGBW MODE	2	3	-	-	Hold 3s to take function
RGB MODE	4	5	-	-	
CMY MODE	6	7	-	-	
HSI MODE	8	9	-	-	
Backlight ON	10	11	-	-	
Backlight 10S	12	13	-	-	
Backlight 20S	14	15	-	-	
Backlight 30S	16	17	-	-	
Flip Display On	18	19	-	-	
Flip Display Off	20	21	-	-	
Key Lock On	22	23	-	-	
Key Lock Off	24	25	-	-	
Calibration On	26	27	-	-	
Calibration Off	28	29	-	-	
Dimmer Curve Linear	30	31	-	-	
Dimmer Curve S-Curve	32	33	-	-	
Dimmer Curve Square Law	34	35	-	-	
Dimmer Curve Inv. Square Law	36	37	-	-	
Dimmer Curve High Res@Low	38	39	-	-	
Dimmer Speed Auto	40	41	-	-	
Dimmer Speed Fast	42	43	-	-	
Dimmer Speed Medium	44	45	-	-	
Dimmer Speed Slow	46	47	-	-	
Dimmer End Fade Off@End	48	49	-	-	
Dimmer End Snap Off@End	50	51	-	-	
Led Frequency 600 Hz	52	53	-	-	
Led Frequency 1200 Hz	54	55	-	-	
Led Frequency 2000 Hz	56	57	-	-	
Led Frequency 4000 Hz	58	59	-	-	
Led Frequency 6000 Hz	60	61	-	-	
Led Frequency 10 kHz	62	63	-	-	
Led Frequency 12 kHz	64	65	-	-	
Led Frequency 15 kHz	66	67	-	-	
Led Frequency 20 kHz	68	69	-	-	
Led Frequency 25 kHz	70	71	-	-	
Led Frequency 36 kHz	72	73	-	-	
Led Frequency 40 kHz	74	75	-	-	
Reserved	76	77	-	-	
Reserved	78	79	-	-	
Reserved	80	81	-	-	
Reserved	82	83	-	-	
Reserved	84	85	-	-	
Reserved	86	87	-	-	
Reserved	88	89	-	-	

Control Channel					
Function	8 bit value		16 bit value		Note
	From	To	From	To	
DMX Fault Hold	90	91	-	-	
DMX Fault Blackout	92	93	-	-	
DMX Fault Standalone	94	95	-	-	
DMX Fault Emergency	96	97	-	-	
Reserved	98	99	-	-	
Reserved	100	101	-	-	
Reserved	102	103	-	-	
Reserved	104	105	-	-	
Reserved	106	107	-	-	
Reserved	108	109	-	-	
Reserved	110	111	-	-	
Reserved	112	113	-	-	
Tungsten Emulation On	114	115	-	-	
Tungsten Emulation Off	116	117	-	-	
Reserved	118	119	-	-	
Reserved	120	121	-	-	
Invert Mapping Off	122	123	-	-	
Invert Mapping On	124	125	-	-	
Standalone MASTER	126	127	-	-	
Standalone MASTER NO DMX	128	129	-	-	
Standalone SLAVE	130	131	-	-	
Standalone CINE FX	132	133	-	-	
Standalone SOURCE EMULATION	134	135	-	-	
Standalone CCT	136	137	-	-	
Standalone HSI	138	139	-	-	
Standalone FIXED COLORS	140	141	-	-	
Standalone WHITE PRESETS	142	143	-	-	
Standalone COLOR MACRO	144	145	-	-	
Standalone MANUAL COLORS	146	147	-	-	
Standalone XY	148	149	-	-	
Standalone USER PRESETS	150	151	-	-	
Standalone TOUR FX	152	153	-	-	
Fan Mode CO AUTO	154	155	-	-	
Fan Mode CO HIGH	156	157	-	-	
Fan Mode CO SILENT 1	158	159	-	-	
Fan Mode CO SILENT 2	160	161	-	-	
Fan Mode CO OFF	162	163	-	-	
Fan Mode DO AUTO	164	165	-	-	
Fan Mode DO HIGH	166	167	-	-	
Fan Mode DO SILENT 1	168	169	-	-	
Fan Mode DO SILENT 2	170	171	-	-	
Fan Mode DO OFF	172	173	-	-	
Reserved	174	253	-	-	
Reset all channel controlled	254	255	-	-	

14 - ACCESSORIES INSTALLATION

CENTER MOUNT BRACKET (CODE ESLIPBRK - OPTIONAL)

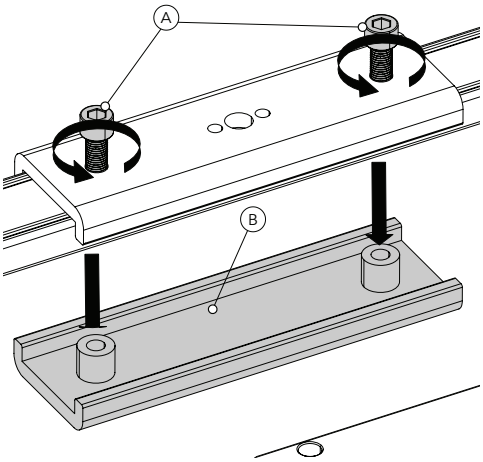


Mount the accessory center mount bracket (1) by screwing the quick-locks into the holes provided on the product hardware.

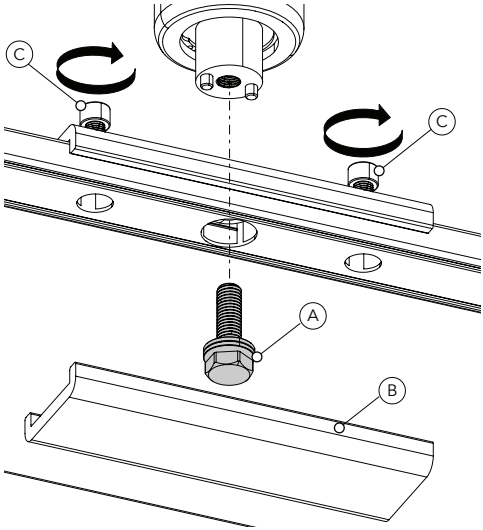
Fig. 09

BALL HEAD JOINT (CODE EPTWCBHEAD - OPTIONAL)

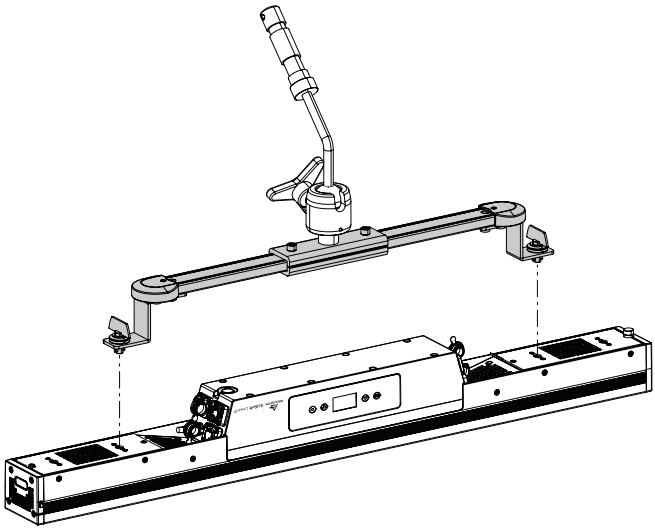
1



2

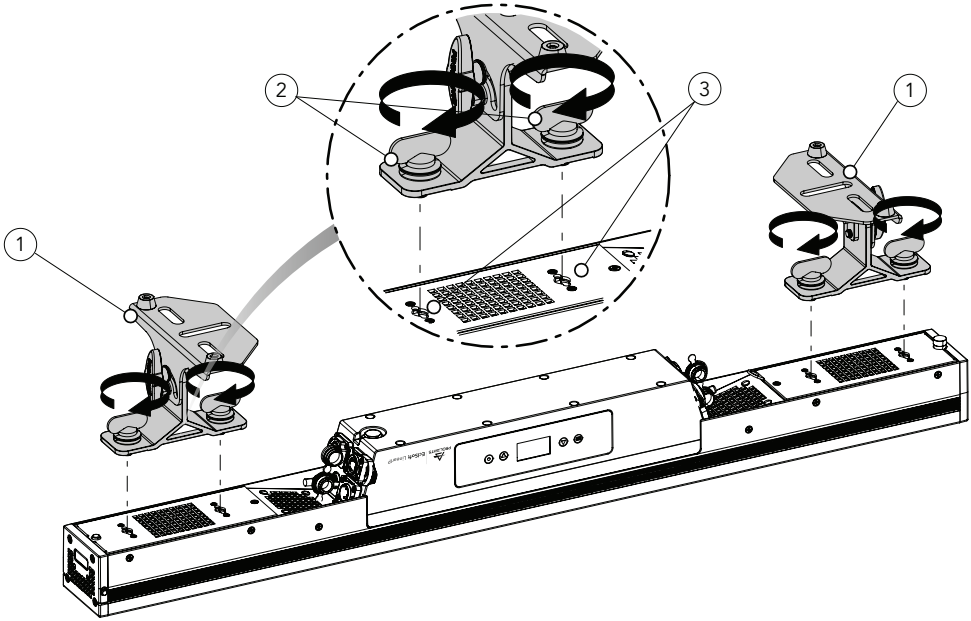


3



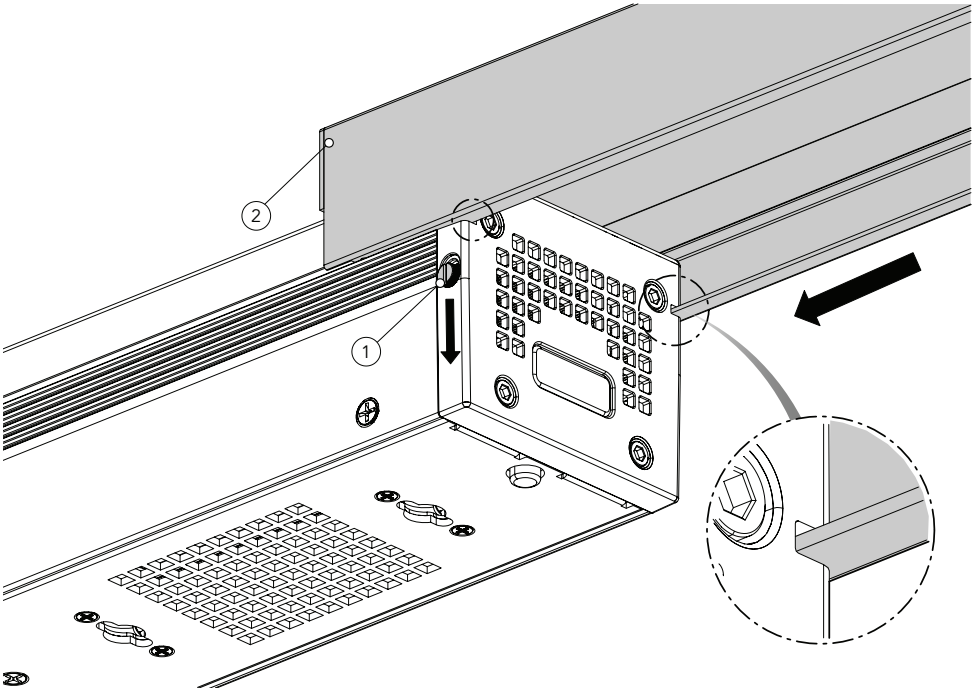
1. To mount the accessory, loosen the two M8 threaded screws (A) and remove the lower reinforced plate (B) of the center mount bracket.
2. Then screw the M10 threaded screw (A) with the threaded hole of the base of the ball head joint accessory. Therefore reassemble the lower reinforced plate (B) and tighten the two screws (C). Note: Insert the anti-rotation pins into the specific holes on the top lower reinforced plate of the center mount bracket..
3. Then mount the short bracket (see previous page).
   Note: To remove the accessory, the reverse operation.

Fig. 10



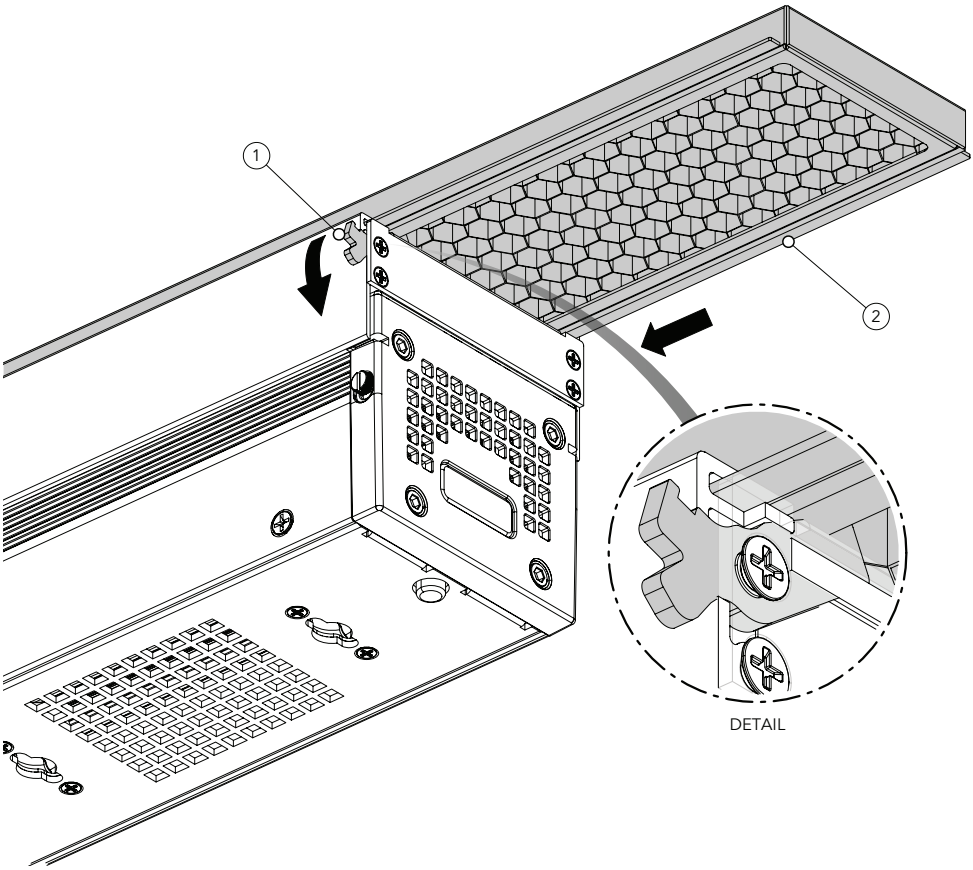
Mount the floor plate accessory (1) by screwing the quick-locks (2) into the holes provided on the product hardware (3).

Fig. 11



Move the marked button down (1), then insert the filter accessory (2)into the guides on the hardware the unit.

Fig. 12



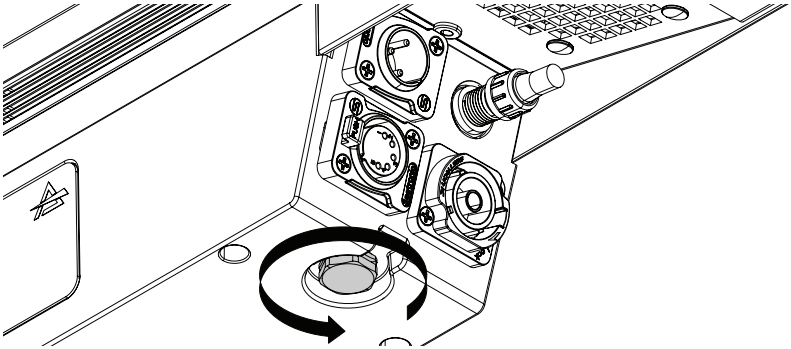
Move the marked lever down (1), then insert the egg crate accessory (2) into the guides on the hardware filter holder (DETAIL).

Fig. 13

15 - TEST OF IP65 RATING

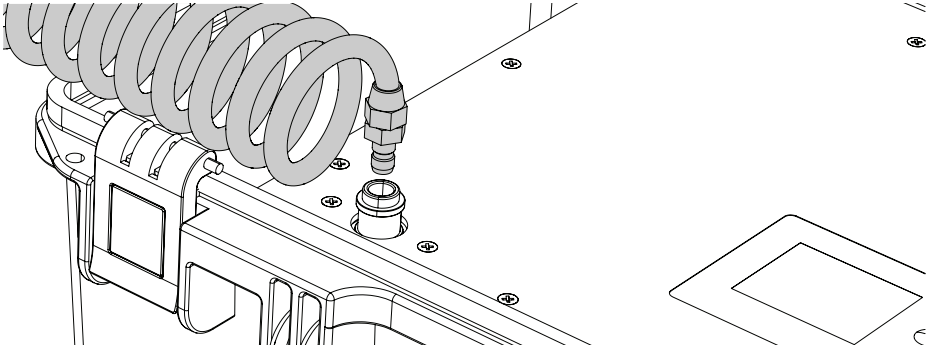
To check sealing after servicing use the IPTESTBOX.

1



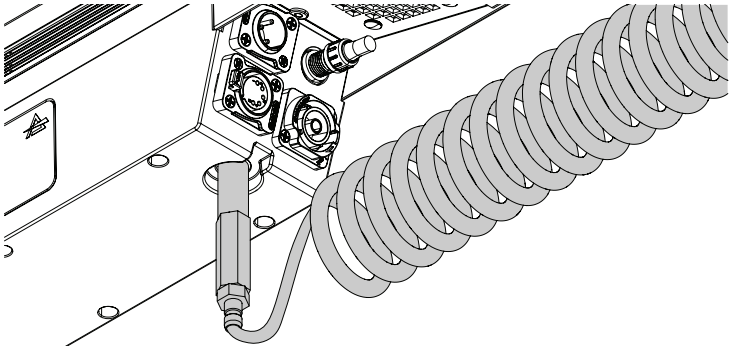
Remove the gore valve from the connections panel.

2



Connect the air hose to the IPTESTBOX by inserting the quick-connect fitting into the coupler.

3



Insert the threaded end into the threaded valve hole socket.
For the operating procedure using the instrument, refer to the IPTESTBOX user manual.

Fig. 14

16 - MAINTENANCE

MAINTENANCE AND CLEANING THE PRODUCT

WARNING: Disconnect from the mains before starting any maintenance work

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

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

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

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

VISUAL CHECK OF PRODUCT HOUSING

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

TROUBLESHOOTING

Problems	Possible causes	Checks and remedies
Product doesn't power ON.	• No power to the product.	• Check that power is switched ON and cables are plugged in.
	• Fuse blown or internal fault.	• 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 contoller.	• Bad signal connection.	• Inspect connections and cables. Fix eventual bad connections. Repair or replace damaged cables.
	• Signal connection not terminated.	• Insert DMX termination plug in signal output socket of the last product on the signal line.
	• Incorrect addressing of the product.	• Check the product address and control settings.
	• One of the product is defective and is corrupting the signal transmission on the signal line.	• 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.	• One or more hardware components requires mechanical adjustments.	• Check product stored error messages for more information. Contact PROLIGHTS Service or an authorized service partner.
Mechanical effect loses position.	• Mechanical hardware require cleaning, adjustment or lubrification.	• Check product stored error messages for more information. Contact PROLIGHTS Service or an authorized service partner.
Light output turn OFF Intermittently.	• Fixture is too hot.	• Check product stored error messages. • Allow product to cool. • Clean the product and airflow filters. • Reduce ambient temperature.
	• Hardware failure (temperature sensor, fans, Light source...).	• Check product stored error messages for more information. Contact. PROLIGHTS Service or an authorized service partner.
General low light intensity.	• Dirty lens assembly. • Dirty or damaged filters.	• Clean the fixture regularly. • 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.

Note

Note

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