

EclCyclorama 050

PROLIGHTS170 W linear soft CYC and flood light with
RGB + Warm White colour mixing



USER MANUAL

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



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

INDEX

SAFETY INFORMATION	
1 - PACKAGING	05
PACKAGE CONTENT	
OPTIONAL ACCESSORIES	
2 - TECHNICAL DRAWING	
3 - INSTALLATION	
MOUNTING	
INTRODUCTION FOR INSTALLATION SET UP	
INSTALLATION CONFIGURATIONS	
4 - CONNECTION TO THE MAINS SUPPLY	
5 - START UP	
CONNECT AND DISCONNECT POWER FROM THE PRODUCT	
6 - PRODUCT OVERVIEW	
7 - DMX CONNECTION	
CONNECTION OF THE CONTROL SIGNAL: DMX LINE	10
INSTRUCTIONS FOR A RELIABLE DMX CONNECTION	
CONNECTION DAISY CHAIN	
CONNECTION OF THE DMX LINE	
CONSTRUCTION OF THE DMX TERMINATION	
DMX ADDRESSING	
ETHERNET CONNECTION	
ETHERNET OPERATION	
ETHEPNET TO DMX OPERATIONS	
OPERATION AS A WIRELESS TRANSMITTER	
Unlinking the transmitter	
DMX TO WDMX (TX)	
OPERATION AS A WIRELESS RECEIVER	
Reset the receiver	
WDMX TO DMX (RX)	14
8 - CONTROL PANEL	
DISPLAY AND BUTTONS LAYOUT	15
9 - MENU STRUCTURE	
10 - RDM FUNCTIONS	
11 - DMX CHARTS	
12 - ACCESSORIFS INSTALLATION	24
THE POLE OPERATED YOKE (CODE ECLCYC050PO)	
DIFFUSION FILTERS (CODE ECLCYCF)	
BARN DOOR (CODE ECLCYCBD050)	
HANGING BAR (CODE ECLCYCOHB)	
13 - MAINTFNANCE	
MAINTENANCE AND CLEANING THE PRODUCT	
REPLACING THE FUSE	
VISUAL CHECK OF PRODUCT HOUSING	
TROUBLESHOOTING	

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.



(] 0,5 m

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 loadbearing 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.



Ta45°C Max operating ambient temperature (Ta)

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

T_a-10°C Minimum operating ambient temperature (Ta)

• Do not operate the fixture if the ambient temperature (Ta) is below -10 °C (14 °F).



Protection from burns and fire

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



Indoor use

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

T_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.



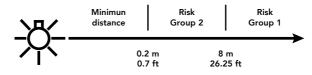
Maintenance

- 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 2 according to EN 62471.





Do not stare at the operating light source

- Do not look directly at the LED source during operation. It can be harmful to the eyes and skin.
- During Installation, operation and maintenance, be prepared for the fixture to light and move suddenly when connected to power.
- The device should be positioned so that prolonged staring into the luminaire at a distance closer than 8 m (26.25 ft) is not expected.



Disposal

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

The products to which this manual refers comply with:

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



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

1 - PACKAGING

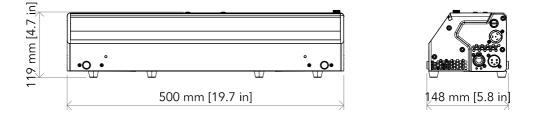
PACKAGE CONTENT

- 1x ECLCYC050;
- 1x 1,5 meters power cable (BARE END SEETRONIC IP65 power connector);
- 2x OS25;
- User manual.

OPTIONAL ACCESSORIES

- WSBBR512G6: blackBox R-512 G6 receiver 512Ch, 2.45GHz, DMX&RDM, Bluetooth, G3, G4, G4S, G5, CRMX;
- WSBBR512G5: blackBox R-512 G5 receiver 512Ch, 2.45GHz & 5.8GHz, DMX/RDM optional;
- 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;
- FCLECLCYC: Flightcase for 4 pcs of ECLCYC100 or 8 pcs ECLCYC050 divided on two layers;
- ECLCYC050PO: Pole operated aluminium yoke bracket for pan/tilt for ECLCYC050;
- ECLCYCBD050: Upper and lower barndoor for adjust the light beam for ECLCYC050;
- ECLCYCF40L050: Light diffuser filter for ECLCYC series projectors, 40°, lenght 50 cm;
- ECLCYCF1060L050: Light diffuser filter for ECLCYC series projectors, 10°x60°, lenght 50 cm;
- ECLCYCF3060L050: Light diffuser filter for ECLCYC series projectors, 30°x60°, lenght 50 cm;
- ECLCYCOHB: Orientable hanging bar for ECLCYC series projectors;
- OS25: Quick-Lock omega bracket;
- C6040: Heavy-load aluminum clamp, 250kg load, 48-51mm tubes, M10 bolt inc.;
- RSR0630A/B: Steel security cable for hanging bodies, inox steel shackle, L=60 cm, silver/black;
- UPBOX1U: Firmware uploader kit, USB IN, 3-pin XLR DMX OUT, USB OUT.

2 - TECHNICAL DRAWING



Weight: 5 kg - 11.02 lbs

Dimensions are in mm / in - Fig.1

3 - INSTALLATION

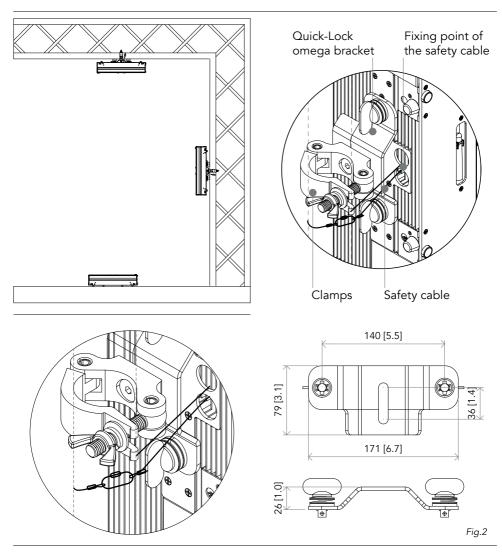
MOUNTING

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.



INTRODUCTION FOR INSTALLATION SET UP

The ECLCYC050 is an asymemetrical fixture that has been designed for application as CYC light and floodlight being able to be placed both at the front or at the end of the stage. Its soft and wide optics features a beam angle of 80° horizontal x 40° Vertical (asymmetry of 25° on the vertical), making this fixture flexible and effective to illuminate walls, sets and cyclorama uniformly with and even wash with a perfect blending of colours in multiple and flexible configurations.

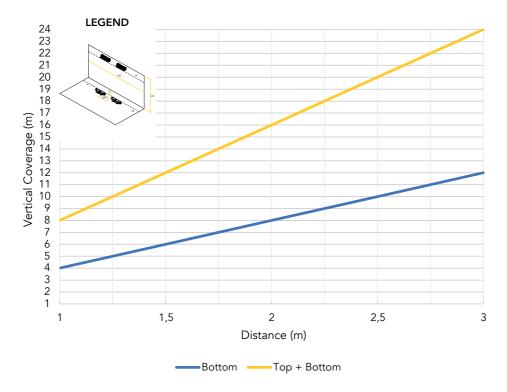
The ECLCYC050 ensures good light distribution from 1m up to 3m installation distance from the CYC wall, and it can be installed placing fixtures next each other in a continuous line or with a clearance of up to 3 meter without hard edges or dark gaps, even when illuminating curved canvas.

INSTALLATION CONFIGURATIONS

ECLCYC050 can be installed at the bottom, top or both top+bottom depending of the desired effect (eveness or color gradient on the cyclorama).

One of the key aspects of the ECLCYC050 is its flexibility, and this document will shows how the fixture will be have at different distance from the CYC wall, and how it performs when combines in top+bottom configuration.

The ECLCYC050 is equipped with on board adjustable foot to regulate the tilt for the fixture focusing. The Tilt adjustment has a range of $\pm 8^{\circ}$. For distances from 1 to 1,5m the Tilt should adjusted at $+8^{\circ}$, for distances more than 3m the Tilt should be adjusted at -8° .



RELATION BETWEEN VERTICAL COVERAGE AND DISTANCE FROM THE CYC WALL

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 180W.

Core (EU)	Core (US)	Connection	Plug terminal marking
Brown	Black	Live	L
Blue	White	Neutral	Ν
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. ANTENNA of Wireless DMX Receiver internal module.
- 3. BUTTON FOR ANGLE ADJUSTING: range: ±8.
- 4. BUTTON FOR INSERTING BARN DOOR.
- 5. ADJUSTABLE RUBBER FEET.
- 6. POWER IN: for connection to the Mains 100-240V~/50-60Hz.
- 7. DMX IN (5-p XLR): 1 = GND, 2 = sign-, 3 = sign+, 4 N/C, 5 N/C.
- 8. EtherCON CONNECTORS IN / OUT signal.
- 9. MAIN FUSE HOLDER: replace a burnt-out fuse by one of the same type only (T5 AL 250 V).
- 10.POWER OUT: power output for connection of multiple units in series.
- 11.DMX OUT (5-p XLR): 1 = GND, 2 = sign-, 3 = sign+, 4 N/C, 5 N/C.

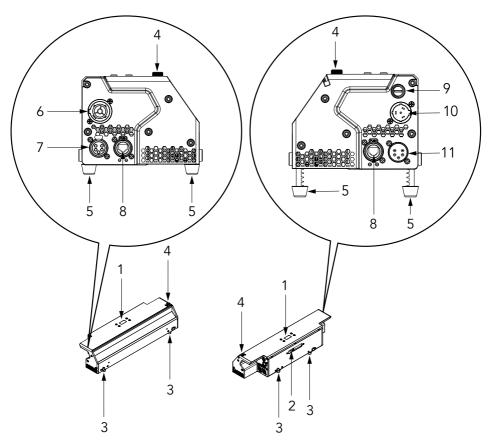
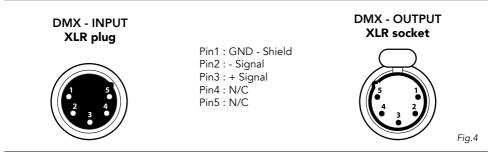


Fig.3

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:



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.

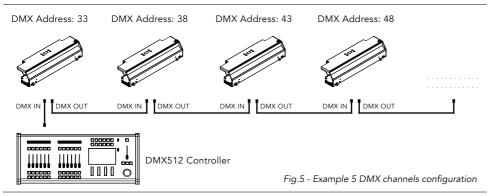
Terminate the data link by connecting a 120 Ohm signal termination. If a splitter is used, terminate each branch of the link.

Install a DMX termination plug on the last fixture on the link.

CONNECTION OF THE DMX LINE

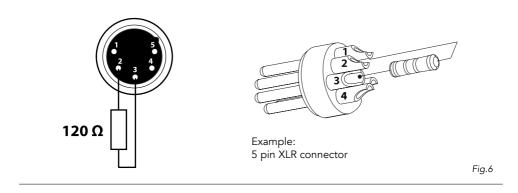
DMX connection employs standard XLR connectors. Use shielded pair-twisted cables with 120Ω impedance and low capacity.

The following diagram shows the connection mode:



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.



DMX ADDRESSING

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

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

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

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

To set the fixture's DMX address:

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

ETHERNET CONNECTION

The products is provided with two 8-pin RJ-45 sockets for Ethernet input/output for a simple days chain connection to the network.

The product can be controlled with ArtNet (or others available) communication protocol.

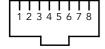
Use a network cable category 5 (with four "twisted" wire pairs) and standard RJ-45 plugs.

ETHERNET OPERATION

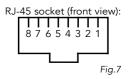
Please refer to the section MENU STRUCTURE contained in this document for detailed informations about the parameters of setting on the fixture (Protocol, Net, Subnet, Universe, Start Channel and IP Address, Ethernet to DMX No/Yes).

- 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.





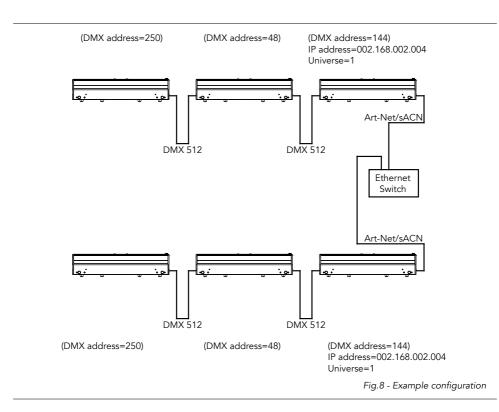
1-TD 2-TD-3-RX+ 4-Not connected 5-Not connected 6-RX-7-Not connected 8-Not connected

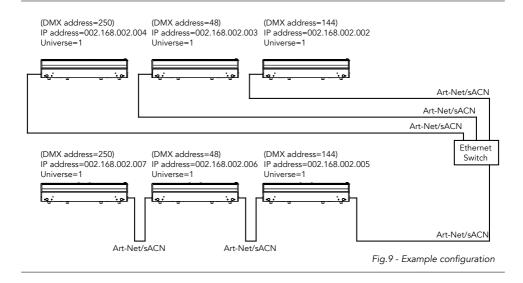


ETHERNET TO DMX OPERATIONS

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

ECLCYC050 can be used as wireless trasmitter for transmitt at different wireless receivers DMX or Artnet/sACN signal. To use ECLCYC050 as wireless transmitter, please follow the procedure below:

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

Unlinking the transmitter

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

- 1. Push MENU button 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 avaible only if WDMX mode is set to Transmitter).
- All connected receivers will be unlinked.

DMX TO WDMX (TX)

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

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

OPERATION AS A WIRELESS RECEIVER

ECLCYC050 can be used as wireless receiver connected to a wireless transmitter.

To use ECLCYC050 as wireless receiver, please follow the procedure below:

- 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. Push ENTER button on WDMX ON/OFF function and enable it to ON.
- 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.

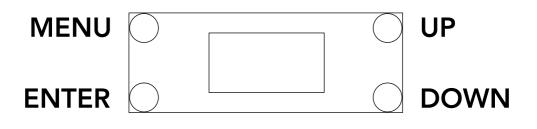


Fig.10

DISPLAY AND BUTTONS LAYOUT

- The product has a display and buttons for access to the control panel functions.
- MENU: Used to access the menu tree or to return a previous menu window.
- UP: Browse upwards through the menu list and increases the numeric value displayed.
- DOWN: Browse downwards through the menu list and decreases the numeric value displayed.
- ENTER: Used to confirm the current menu or confirm the current function value or option within a menu.

9 - MENU STRUCTURE

ı.

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

CONNECT	DMX Address	Value (001 -512	<u>2)</u>					
	DMX Mode	Theater	1CH	Amber Shift	t On			
			2CH	Color Temp.	2800K 3200K 3500K 4000K 4500K 5000K 5600K 6000K 6500K	Hue (-025÷025) Hue=0		
				Manual Color	Red (000÷ 255) Green (000÷ 255) Blue (000÷ 255) White (000÷ 255)			
			4CH1 5CH 6CH1 10CH1 15CH1 17CH					
		Tour	4Ch 6Ch 10Ch 11Ch 15Ch 17Ch 21Ch					
		Film	12Ch 20Ch XY					
	Wireless	WDMX ON/OFF	On- Off		Enable/Disable th	e wireless card.		
		WDMX mode	Transmitter Receiver		Choose whether to set the wireless card as Transmitter or Receiver. WDMX mode is unlocked only if WDMX ON / OFF is ON.			
		TX link	On- Off		TX link unlock when the unit is set as a transmitter.			
		TX unlink	On- Off		Disconnect the transmitter from all receivers. TX unlink unlocks only if WDMX mode is on transmitter.			
		RX reset	On- Off		Total reset of the r RX reset unlocks of	receiver. only if WDMX mode is receiver.		
		DMX to WDMX (TX)	On -Off			ne transmission of the dmx from the receiver via wdmx.		
		WDMX to DMX (RX)	On -Off			e retransmission of the DMX from the ther units connected by cable to the		
	Ethernet	Protocol	ArtNet		Choose Net proto	ocol used		
	Settings		sACN					
		Artnet Set-	IP Address	X.X.X.X	Adjust ArtNet para	ameters		
		tings	Net	0-127	-			
			SubNet SubNetMask	0-15 x.x.x.x	-			
			Universe	0-15	1			
			Address	1 - 512	1			
		sACN set-	IP Address	x.x.x.x	Adjust sACN para	meters		
		tings	SubNetMask	x.x.x.x	1			
			Universe	1-256	1	-		
			Address	1 - 512	1			

		Ethernet to DMX	On -Off		Enable/Disable the transmission of the dmx from the Net protocol to DMX out.		
		Ethernet to WDMX	On -Off		Enable/Disable the retransmission of the DMX from the Net protocol to WDMX (when used as TX)		
SETUP	Screen	Back Light	On 10 s	20 s 30 s	Select the timing after that display will switch automati- cally off when unactive.		
		Flip Display		000	Allows you to rotate the display by 180°.		
		Key Lock	No-Yes		Lock the buttons on the control panel by a password. Press following combinations (password) in order to ac- cess to the user menu : UP, DOWN, UP, DOWN, ENTER.		
ADVANCED	Full On Mode	HB Studio			HB - High Brightness Mode, delivering the full output on every primary color Studio – Calibrated white output at 6000K,when all primary colors are set to full.		
	Dimmer Curve				Set Dimmer curve		
	Dimmer Speed	Auto Fast	Slow	m	Set Dimmer speed		
	Dimmer End		nd		Set Dimmer End behaviour. Snap Off will make fixture snap when dimming out to 0. Fade Off will make fixture fade when dimming out to 0. This selection affects only 004-000 DMX value behaviour.		
	Color	White	Off		Disable the White Calibration at full.		
	Calibration		Adjust	R, G, B, W	Manually adjust color calibration.		
		Calibrated			Manufacturer calibration to grant performance and color consistency.		
	Led Frequency	600Hz 1 200 Hz 2000 Hz			Select PWM frequency.		
	DMX Fault	Hold Blackout Standalone			Set behaviour when signal is lost.		
	Output Control				See table at the end of the Menu for Power behaviour		
	Factory Reload	No/Yes			Reload fixture with Standard settings.		
INFORMA-	Fixture Time	0÷9999			View informations about product operating lifetime.		
TION	Disp Version	V1.6					
	NET Version	Vx.x					
			:		View the UID of the product (RDM control).		
STAND ALONE	Master/Slave	Master Slave			Allow you to link and operating in synk multiple units without a DMX console. Choose a unit to perform as the Master. This unit must be the first unit in line; Set the successive units to be slave.		
	Effect	Effect 1 Effect 2 Effect 3					
	Static	Color Temperature	3200K 3500K	5600K 6000K 6500K	Select a predefined White CCT output from the list. Adjust Hue and Dimmer (0-255		
1		Fixed Color	R G	RW GW BW	Select of the following predefined color combination and its Dimmer value.		
			B W GB RB RG RGB	RGW RBW GBW RGBW			
	ADVANCED INFORMA- TION STAND	ADVANCED Full On Mode Dimmer Curve Dimmer Speed Dimmer End Color Calibration Color Calibration Edd Frequency DMX Fault DMX Fault Control Edd Frequency DMX Fault Dimmer End Color Calibration Edd Frequency Reload INFORMA Fixture Time Disp Version NET Version RDM UID STAND ALONE Effect	SETUP Screen Back Light Flip Display Key Lock ADVANCED Full On HB Mode HB Studio Dimmer Curve Square Law Inverse Square Dimmer End Snap Off @ En Speed Dimmer Calibration Ealer Color Calibration Ealer Color Calibration Ealer Color Calibration Ealer Color Calibration Ealer Color Calibrated Ealer Color Calibrated Ealer Color Calibrated Ealer Color Calibrated Ealer Color Calibrated Ealer Color Calibrated Ealer Color Calibrated Ealer Color Calibrated Ealer Control Dynamic Output Control Dynamic Ou	DMX DMX Ethernet to WDMX On-Off SETUP Screen Back Light On ADVANCED Full On Mode HB No-Yes ADVANCED Full On Mode HB Studio Image: Screen Dimmer Linear S-Curve Square Law Mediu Dimmer Linear S-Curve Slow Off Dimmer Auto Mediu Slow Slow Off Dimmer Snap Off @ End Fast Slow Slow Off Dimmer Color White Off Adjust Calibrated Adjust Color White Dim Slow Off Adjust Calibrated Adjust Mediu Dim Frequency 600Hz Voltz 6000Hz Adjust Calibrated Adjust Calibrated Adjust Adjust Blackout Static Control Dynamic Output Fore Adjust Adjust Adjust Adjust Control	DMXDMXConstantEthermet to WDMXOn-Off20 s 30 sSETUPScreenBack Light Pack LightOn 10 s20 s 30 sADVANCEDFull On ModeNo-YesNo-YesADVANCEDFull On ModeHB StudioNo-YesDimmer CurveLinear S-Curve Square Law High Res@LowMedium FastDimmer SpeedAuto FastMedium Slow OffDimmer End CalibrationSnap Off @ End FastMedium AdjustColor CalibrationWhite BalanceOff AdjustLed Frequency600Hz 2000 Hz4000 Hz 2000 HzDMX Fault DMX FaultHold Blackout StandaloneINFORMA- TIONFixture Time Disp Version0-9999TION ADI UID15D00235***Iffect 4 Effect 3StaticColor TemperatureSlow S000 K S000 K S1000 K		

NOTE: If the projector is in Slave mode if the DMX signal is lost, the projector will remain on according to the last received DMX value. If the projector was in STATIC or AUTO mode, if the DMX signal is lost, the projector will return to the previously set STATIC or AUTO.

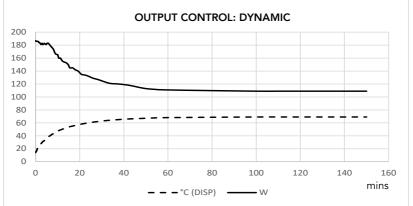
OUTPUT CONTROL BEHAVIOUR

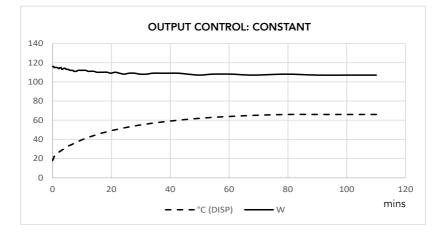
Output Control Behaviour function manages power available in relation to the temperature of the fixture. Output Control Dynamic allows user to have max power available and then decrease accordingly to temperature. Output Control Static instantly limits max power available to guarantee constant output during the use of the fixture.

Testing condition

Ambient temp: 15° C Full On Mode: HB

Calibration: Off RGBW Full





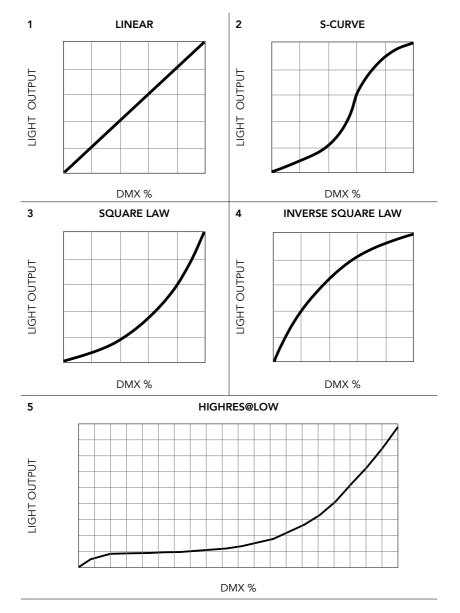
10 - SHORTCUT

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

11 - DIMMER CURVES

Five dimming modes are available:

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



12 - RDM FUNCTIONS

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

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

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

RDM also works via wireless.

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

Parameter	PID	GET	SET
DEVICE_LABEL	0x0082	х	x
DMX_START_ADDRESS	0x00F0	х	x
DMX_PERSONALITY	0x00E0	х	x
DMX_PERSONALITY_DESCRIPTION	0x00E1	х	
CURVE	0x0343	х	х
CURVE_DESCRIPTION	0x0344	х	
MODULATION_FREQUENCY	0x0347	х	x
MODULATION_FREQUENCY_DESCRIPTION	0x0348	х	
FACTORY_DEFAULTS	0x0090	х	x
Effects (Effects1-5)	0x8209	х	х
Effects Speed (001-100)	0x8210	х	х
Master/Slave (0:Master 1:Slave)	0x8211	х	х
Full_On_Mode (Full On 0:HB 1:Studio)	0x8217	х	x
Manual Color Red(000-255)	0x82C0	х	x
Manual Color Green(000-255)	0x82C1	х	х
Manual Color Blue(000-255)	0x82C2	х	x
Manual Color White(000-255)	0x82C3	х	x
Fix Color (1-15:R,G,B,W)	0x82BE	х	x
White Preset (1-9:2800K,3200K,3500K)	0x82BF	х	х

13 - DMX CHARTS

					INCAIR				
СН	1 Ch	2 Ch	4 Ch "1"	5 Ch "1"	6 Ch	10 Ch	15 Ch	17 Ch	21 Ch
1	DIMMER	DIMMER	DIMMER	DIMMER	DIMMER	DIMMER	DIMMER	DIMMER	DIMMER
2		DIMMER SPEED	сст	ССТ	ССТ	RED	DIMMER FINE	DIMMER FINE	DIMMER FINE
3			HUE	HUE	HUE	GREEN	RED	STROBE	STROBE
4			DIMMER SPEED	STROBE	STROBE	BLUE	RED FINE	сст	сст
5				DIMMER SPEED	COLOR MACRO	WHITE	GREEN	HUE	HUE
6					DIMMER SPEED	ССТ	GREEN FINE	XFADE FROM CCT TO COLOR	XFADE FROM CCT TO COLOR
7						HUE	BLUE	RED	RED
8						STROBE	BLUE FINE	RED FINE	RED FINE
9						COLOR MACRO	WHITE	GREEN	GREEN
10						DIMMER SPEED	WHITE FINE	GREEN FINE	GREEN FINE
11							ССТ	BLUE	BLUE
12							HUE	BLUE FINE	BLUE FINE
13							STROBE	WHITE	WHITE
14							COLOR MACRO	WHITE FINE	WHITE FINE
15							DIMMER SPEED	COLOR MACRO	COLOR MACRO
16								CTO ON COLORS	CTO ON COLORS
17								DIMMER SPEED	DIMMER SPEED
18									FX SELEC- TION
19									FX SPEED
20									FX FADE
21									CONTROL

THEATRE

1 Ch	2 Ch	4 Ch "1"	5 Ch	6 Ch "1"	10 Ch "1"	15 Ch "1"	17 Ch	21 Ch	FUNCTION	DMX Value	Default
1	1	1	1	1	1	1	1	1	DIMMER 0÷100%	000 ÷ 255	000
						2	2	2	DIMMER FINE 0÷100%	000 ÷ 255	000
							3	3	STROBE No Function (shutter open) Strobe effect slow to fast No Function (shutter open) Random strobe effect slow to fast No Function (shutter open)	000 ÷ 030 031 ÷ 100 101 ÷ 130 131 ÷ 200 201 ÷ 255	255
							5	5	HUE 25 to 0 0 0 to +25	000 ÷ 126 127 ÷ 127 128 ÷ 255	127
					2	3	7	7	RED 0÷100%	000 ÷ 255	000
						4	8	8	RED FINE 0÷100%	000 ÷ 255	000
					3	5	9	9	GREEN 0÷100%	000 ÷ 255	000
						6	10	10	GREEN FINE 0÷100%	000 ÷ 255	000
					4	7	11	11	BLUE 0÷100%	000 ÷ 255	000
						8	12	12	BLUE FINE 0÷100%	000 ÷ 255	000
					5	9	13	13	WHITE 0÷100%	000 ÷ 255	000
						10	14	14	WHITE FINE 0÷100%	000 ÷ 255	000
		2	2	2			4	4	CCT 2800K - 3200K 3200K - 3500K 3500K - 4000K 4000K - 4500K 4500K - 5600K 5600K - 6600K 6000K - 6500K	000 ÷ 031 032 ÷ 063 064 ÷ 095 096 ÷ 127 128 ÷ 159 160 ÷ 191 192 ÷ 223 224 ÷ 255	000
					6	11			CCCT 2800K-3200K 3200K-3500K 3500K-4000K 4000K-4500K 4500K-5000K 5600K-6000K 6000K-6500K Color Mix	$\begin{array}{c} 000 \div 030\\ 031 \div 060\\ 061 \div 090\\ 091 \div 120\\ 121 \div 150\\ 151 \div 180\\ 181 \div 210\\ 211 \div 240\\ 241 \div 255\\ \end{array}$	000
		3	3	3	7	12			HUE 0 -25°÷25°	000 ÷ 000 001 ÷ 255	000
							6	6	XFADE FROM CCT TO COLOR 0÷100%	000 ÷ 255	000
			4	4	8	13			STROBE No Function Stroke Slow to Fact	000 ÷ 010 011 ÷ 255	000
_				5	9	14	15		Strobe Slow to Fast COLOR MACRO No Function Amber Shift on Color Macro	000 ÷ 002 003 ÷ 005 006 ÷ 255	000
								15	COLOR MACRO Please check "COLOR MACRO 21CH" table for values		

1 Ch	2 Ch	4 Ch "1"	5 Ch	6 Ch "1"	10 Ch "1"	15 Ch "1"	17 Ch	21 Ch	FUNCTION	DMX Value	Default
							16	16	CTO ON COLORS 0÷100%	000 ÷ 255	000
	2	4	5	6	10	15	17	17	DIMMER SPEED MODE Preset dimmer speed from display menu Dimmer speed mode off Dimmer speed mode2 (middle speed) Dimmer speed mode3 (slow speed)	000 ÷ 051 052 ÷ 101 102 ÷ 152 153 ÷ 203 204 ÷ 255	000
								18	FX SELECTION No Function Effect 1 Effect 2 Effect 2 Effect 3 Effect 5 Candle Cop Car1 Cop Car2 Cop Car3 Fire Fireworks Paparazi Television Party Clouds Club Color Chase Strobe Lighting Explosion Fluorescent Process Pulsing Welding	$\begin{array}{c} 000 \div 010\\ 011 \div 020\\ 021 \div 030\\ 031 \div 040\\ 051 \div 060\\ 051 \div 060\\ 061 \div 070\\ 071 \div 080\\ 081 \div 090\\ 091 \div 100\\ 101 \div 110\\ 101 \div 110\\ 111 \div 120\\ 121 \div 130\\ 131 \div 140\\ 151 \div 160\\ 151 \div 160\\ 151 \div 160\\ 161 \div 170\\ 171 \div 180\\ 181 \div 190\\ 191 \div 200\\ 201 \div 210\\ 221 \div 230\\ 231 \div 240\\ 241 \div 255\\ \end{array}$	000
								19	FX SPEED 0÷100%	000 ÷ 255	000
								20	FX FADE 0÷100%	000 ÷ 255	000
								21	CONTROL CHANNEL No Function RESERVED LED FREQUENCY 600HZ LED FREQUENCY 1200HZ LED FREQUENCY 2000HZ LED FREQUENCY 2000HZ LED FREQUENCY 2000HZ LED FREQUENCY 25KHZ RESERVED DIMMER SPEED AUTO DIMMER SPEED AUTO DIMMER SPEED FAST DIMMER SPEED FAST DIMMER CURVE SQUARE LAW DIMMER CURVE SQUARE LAW DIMMER CURVE HIGH RES @LOW DIMMER CURVE LINX SQUARE LAW DIMMER CURVE HIGH RES @LOW DIMMER CURVE HIGH RES @LOW DIMMER CURVE BIDA CONTPUT CONTROL Constant Output DIMMER SPEED OFF DMX FAULT BLACKOUT DMX FAULT STANDALONE SPEKTA CALIBRATION OFF RESERVED RESERVED	$\begin{array}{c} 000 \div 001 \\ 002 \div 011 \\ 012 \div 013 \\ 014 \div 015 \\ 016 \div 017 \\ 018 \div 019 \\ 020 \div 021 \\ 024 \div 023 \\ 024 \div 035 \\ 036 \div 037 \\ 038 \div 037 \\ 038 \div 039 \\ 040 \div 041 \\ 042 \div 043 \\ 044 \div 045 \\ 046 \div 047 \\ 048 \div 049 \\ 050 \div 051 \\ 052 \div 053 \\ 054 \div 055 \\ 056 \div 057 \\ 058 \div 057 \\ 068 \div 067 \\ 070 \div 071 \\ 072 \div 073 \\ 074 \div 075 \\ 076 \div 253 \\ 254 \div 255 \\ \end{array}$	000

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

TOUR

Channel4 Ch '2'6 Ch '2'10 Ch '2'15 Ch '2'1REDDIMMERDIMMERDIMMERDIMMER2GREENREDREDREDDIMMER FINE3BLUEGREENGREENREDRED4WHITEBLUEBLUERED FINE5WHITEWHITEWHITEGREEN6STROBESTROBEGREEN FINE7Image: Color TEMPERATUREBLUE8Image: Color TEMPERATUREBLUE FINE9Image: Color TEMPERATUREBLUE FINE10Image: Color TEMPERATUREBLUE FINE11Image: Color TEMPERATURESTROBE12Image: Color TEMPERATURESTROBE13Image: Color TEMPERATUREAUTO PROGRAM14Image: Color TEMPERATUREAUTO PROGRAM			look		
Image: constraint of the second sec	Channel	4 Ch "2"	6 Ch "2"	10 Ch "2"	15 Ch "2"
Image: second	1	RED	DIMMER	DIMMER	DIMMER
Image: constraint of the second sec	2	GREEN	RED	RED	DIMMER FINE
SWHTEWHTEGREEN6STROBESTROBEGREEN FINE7COLOR TEMPERATUREBLUE8COLOR TEMPERATUREBLUE FINE9AUTO PROGRAMBLUE FINE10DIMMER SPEEDWHITE FINE11International Color TemperatureSTROBE12International Color TemperatureAUTO PROGRAM13International Color TemperatureAUTO SPEED14International Color TemperatureAUTO SPEED	3	BLUE	GREEN	GREEN	RED
6 STROBE STROBE GREEN FINE 7 COLOR TEMPERATURE BLUE 8 AUTO PROGRAM BLUE FINE 9 AUTO SPEED WHITE 10 DIMMER SPEED WHITE FINE 11 STROBE STROBE 12 COLOR TEMPERATURE AUTO PROGRAM 13 AUTO SPEED AUTO SPEED 14 Interpretation AUTO SPEED	4	WHITE	BLUE	BLUE	RED FINE
7 COLOR TEMPERATURE BLUE 8 AUTO PROGRAM BLUE FINE 9 AUTO SPEED WHITE 10 DIMMER SPEED WHITE FINE 11 STROBE STROBE 12 COLOR TEMPERATURE AUTO PROGRAM 13 AUTO SPEED AUTO SPEED	5		WHITE	WHITE	GREEN
8 AUTO PROGRAM BLUE FINE 9 AUTO SPEED WHITE 10 DIMMER SPEED WHITE FINE 11 STROBE STROBE 12 COLOR TEMPERATURE AUTO PROGRAM 14 Image: Speed set of the s	6		STROBE	STROBE	GREEN FINE
9AUTO SPEEDWHITE10DIMMER SPEEDWHITE FINE11Image: Strobe str	7			COLOR TEMPERATURE	BLUE
Image: log strength Image: log strength 10 DIMMER SPEED WHITE FINE 11 STROBE STROBE 12 COLOR TEMPERATURE COLOR TEMPERATURE 13 AUTO PROGRAM AUTO SPEED	8			AUTO PROGRAM	BLUE FINE
11 STROBE 12 COLOR TEMPERATURE 13 AUTO PROGRAM 14 AUTO SPEED	9			AUTO SPEED	WHITE
12 COLOR TEMPERATURE 13 AUTO PROGRAM 14 AUTO SPEED	10			DIMMER SPEED	WHITE FINE
13 AUTO PROGRAM 14 AUTO SPEED	11				STROBE
14 AUTO SPEED	12				COLOR TEMPERATURE
	13				AUTO PROGRAM
15 DIMMER SPEED	14				AUTO SPEED
	15				DIMMER SPEED

				TOUR		
4 Ch "2"	6 Ch "2"	10 Ch "2"	15 ChB"2"	FUNCTION	DMX Value	Default
	1	1	1	DIMMER 0÷100%	000 ÷ 255	000
			2	DIMMER FINE 0÷100%	000 ÷ 255	000
1	2	2	3	RED 0÷100%	000 ÷ 255	255
			4	RED FINE 0÷100%	000 ÷ 255	255
2	3	3	5	GREEN 0÷100%	000 ÷ 255	255
			6	GREEN FINE 0÷100%	000 - 255	255
3	4	4	7	BLUE 0÷100%	000 ÷ 255	255
			8	BLUE FINE 0÷100%	000 ÷ 255	255
4	5	5	9	WHITE 0÷100%	000 ÷ 255	255
		10	WHITE FINE 0÷100%	000 ÷ 255	000	
	6 6	11	STROBE No Function Strobe Slow to Fast	000 ÷ 010 011 ÷ 255	255	
		7	12	COLOR TEMPERATURE Color Mix 2800K 3200K 3500K 4000K 4500K 5600K 5600K 6000K 6500K Color Mix	$\begin{array}{c} 000 \div 005\\ 006 \div 030\\ 031 \div 055\\ 056 \div 080\\ 081 \div 105\\ 106 \div 130\\ 131 \div 155\\ 156 \div 180\\ 181 \div 205\\ 206 \div 230\\ 231 \div 255\\ \end{array}$	000
		8	13	AUTO PROGRAMS No Function Auto Program 1 Auto Program 2 Auto Program 3 Auto Program 4 Auto Program 5 (Auto Program1-4)	$\begin{array}{c} 000 \div 010 \\ 011 \div 060 \\ 061 \div 110 \\ 111 \div 160 \\ 161 \div 210 \\ 211 \div 255 \end{array}$	
		9	14	AUTO SPEED Auto speed slow to fast	000 ÷ 255	
		10	15	DIMMER SPEED MODE Preset dimmer speed from display menu Dimmer speed mode off Dimmer speed mode1 (fast speed) Dimmer speed mode2 (middle speed) Dimmer speed mode3 (slow speed)	000 ÷ 051 052 ÷ 101 102 ÷ 152 153 ÷ 203 204 ÷ 255	

Ch	12Ch	20Ch	XY
1	DIMMER	DIMMER	DIMMER
2	ССТ	DIMMER FINE	DIMMER FINE
3	HUE	ССТ	STROBE
4	CROSSFADE FROM CCT TO COLOR	CCT FINE	ССТ
5	RED	HUE	TINT
6	GREEN	HUE FINE	X 1
7	BLUE	CROSSFADE FROM CCT TO COLOR	X 1 FINE
8	WHITE	CROSSFADE FROM CCT TO COLOR FINE	Y 1
9	FAN CONTROL	RED	Y 1 FINE
10	COLOR MACRO	RED FINE	CROSSFADE FROM LAYER 1 TO LAYER 2
11	STROBE	GREEN	X 2
12	CONTROL	GREEN FINE	X 2 FINE
13		BLUE	Y 2
14		BLUE FINE	Y 2 FINE
15		WHITE	COLOR MACRO
16		WHITE FINE	CTO ON COLORS
17		FAN CONTROL	CONTROL
18		COLOR MACRO	
19		STROBE	
20		CONTROL	

		FILM		
		12Ch and 20Ch		
12Ch	20Ch	FUNCTION 1	DMX Value 🔈	Default
1	1	DIMMER 0÷100%	000 ÷ 255	000
	2		000 ÷ 255	
2	3	DINNER FINE CCT 2800K - 3000K 3000K - 3200K 3200K - 3400K 3400K - 3800K 3800K - 4000K 4000K - 4200K 4200K - 4400K 4400K - 4400K 4400K - 4400K 4400K - 4400K 5000K - 5000K 5000K - 5000K 5000K - 5200K 5200K - 5400K 5400K - 5600K 5400K - 5800K 5600K - 5800K 5800K - 6200K 6600K - 6600K 6400K - 6400K 6600K - 6600K 6400K - 6400K 6600K - 6800K 6400K - 6400K 6600K - 7400K 7000K - 7200K 7200K - 7400K 7400K - 7600K 7600K 7600K - 8800K 8800K - 8800K 8200K - 8200K 8200K - 8800K 8200K - 8800K 8800K - 8800K 8800K - 9000K 9000K - 9200K 9200K - 9400K 9400K 9400K - 9600K 9800K - 10000K	$\begin{array}{c} 000 \div 233\\ 000 \div 233\\ 000 \div 007\\ 007 \div 014\\ 014 \div 021\\ 021 \div 028\\ 028 \div 035\\ 035 \div 042\\ 042 \div 049\\ 049 \div 056\\ 056 \div 063\\ 063 \div 070\\ 077 \div 084\\ 084 \div 091\\ 091 \div 078\\ 098 \div 105\\ 105 \div 112\\ 112 \div 119\\ 119 \div 126\\ 126 \div 133\\ 133 \div 140\\ 140 \div 147\\ 147 \div 154\\ 154 \div 154\\ 154 \div 154\\ 154 \div 161\\ 161 \div 168\\ 168 \div 175\\ 175 \div 182\\ 182 \div 189\\ 189 \div 196\\ 196 \div 203\\ 203 \div 210\\ 210 \div 217\\ 217 \div 224\\ 224 \div 231\\ 231 \div 238\\ 238 \div 245\\ 245 \div 255\\ \end{array}$	000
	4	CCT FINE	000 ÷ 255	000
3	5	HUE Neutral / no effect Full minus green -99% -> -1% Neutral / no effect 1%> 99% Full plus green	000 ÷ 010 011 ÷ 020 021 ÷ 119 120 ÷ 145 146 ÷ 244 245 ÷ 255	000
	6	HUE FINE	000 ÷ 255	000
4	7	CROSSFADE FROM CCT TO COLOR 0+100%	000 ÷ 255	000
	8	CROSSFADE FROM CCT TO COLOR FINE	000 ÷ 255	000
5	9	RED 0÷100%	000 ÷ 255	000
	10	RED FINE	000 ÷ 255	000
6	11	GREEN 0÷100%	000 ÷ 255	000
	12	GREEN FINE	000 ÷ 255	000
7	13	BLUE 0÷100%	000 ÷ 255	000
	14	BLUE FINE	000 ÷ 255	000
8	15	WHITE 0+100%	000 ÷ 255	000
	16	WHITE FINE	000 ÷ 255	000
9	17	RESERVED	000 ÷ 255	000

12Ch 2	20Ch	FUNCTION	DMX Value	Default
		COLOR MACRO	000 ÷ 001	
		Open	002 ÷ 003	
		Red	004 ÷ 005	
		Green	006 ÷ 007	
		Blue Cyan	008 ÷ 009 010 ÷ 011	
		Magenta	012 ÷ 013	
		Yellow	014 ÷ 015	
		Dirty White	016 ÷ 017	
		Alice Blue	018 ÷ 019	
		Congo Blue	020 ÷ 021	
		Dark Steel Blue Deep Lavender	022 ÷ 023 024 ÷ 025	
		Lilac Ting	024 ÷ 023 026 ÷ 027	
		Daylight Blue	028 ÷ 029	
		Flame Red	030 ÷ 031	
		Bastard Amber	032 ÷ 033	
		Deep Orange	034 ÷ 035	
		Pale Gold Apricot	036 ÷ 037 038 ÷ 039	
		Bright Blue	040 ÷ 041	
		Primary Green	042 ÷ 043	
		Special Lavender	044 ÷ 045	
		Pale Lavender	046 ÷ 047	
		Deep Golden Amber	048 ÷ 049	
		Medium Blue Bright Pink	050 ÷ 051 052 ÷ 053	
		Mauve	052 · 055	
		Dark Green	056 ÷ 057	
		Lee Green	058 ÷ 059	
		Dark Blue	060 ÷ 061	
		Light Blue	062 ÷ 063	
		Steel Blue Medium Blue-Green	064 ÷ 065 066 ÷ 067	
		Peacock Blue	068 ÷ 069	
		Magenta	070 ÷ 071	
10	18	Dark Pink	072 ÷ 073	000
10	10	Middle Rose	074 ÷ 075	000
		Light Salmon	076 ÷ 077	
		English Rose Light Rose	078 ÷ 079 080 ÷ 081	
		Orange	082 ÷ 083	
		Deep Amber	084 ÷ 085	
		Straw	086 ÷ 087	
		Light Amber	088 ÷ 089	
		Spring Yellow Dark Yellow Green	090 ÷ 091 092 ÷ 093	
		Just Blue	092 ÷ 093 094 ÷ 095	
		Sky Blue	096 ÷ 097	
		Lavender	098 ÷ 099	
		Light Lavender	100 ÷ 101	
		Pink Carnation	102 ÷ 103	
		Medium Pink Light Pink	104 ÷ 105	
		Sunset Red	106 ÷ 107 108 ÷ 109	
		Dark Amber	110 ÷ 111	
		Gold Amber	112 ÷ 113	
		Medium Amber	114 ÷ 115	
		Fire	116 ÷ 117	
		Surprise Peach	118 ÷ 119	
		Straw Tint Medium Yellow	120 ÷ 121 122 ÷ 123	
		Lee Minus Green	122 ÷ 123	
		Pale Gold	124 ÷ 125	
		Orange	128 ÷ 129	
		Deep Straw	130 ÷ 131	
		Rose Purple	132 ÷ 133	
		Deep Purple	134 ÷ 135	
		Soft Green Reserved 2800K	136 ÷ 211 212 ÷ 213	
		3000K	212 ÷ 213 214 ÷ 215	
		3200K	214 ÷ 213	
		3400K	218 ÷ 219	
		3600K	220 ÷ 221	

2Ch	20Ch	FUNCTION	DMX Value	Defaul
10	18	COLOR MACRO 3800K 4000K 4200K 4400K 4400K 4600K 4800K 5000K 5200K 5200K 5400K 5600K 6500K 6500K	$\begin{array}{c} 222 \div 223\\ 224 \div 225\\ 226 \div 227\\ 228 \div 229\\ 230 \div 231\\ 232 \div 233\\ 234 \div 235\\ 236 \div 237\\ 238 \div 239\\ 240 \div 241\\ 242 \div 243\\ 244 \div 245\\ 246 \div 247\\ \end{array}$	000
		8000K 9000K 10000K Full On	248 ÷ 249 250 ÷ 251 252 ÷ 253 254 ÷ 255	
11	19	STROBE Open 1 flash/s -> 25 flashes/s	000 ÷ 019 020 ÷ 255	000
12	20	CONTROL CHANNEL No Function RESERVED LED FREQUENCY 600HZ LED FREQUENCY 2000HZ LED FREQUENCY 2000HZ LED FREQUENCY 4000HZ LED FREQUENCY 4000HZ LED FREQUENCY 6000HZ LED FREQUENCY 25KHZ RESERVED DIMMER SPEED AUTO DIMMER SPEED AUTO DIMMER SPEED AUTO DIMMER SPEED FAST DIMMER SPEED SLOW DIMMER CURVE LINEAR DIMMER CURVE SQUARE LAW DIMMER CURVE SQUARE LAW DIMMER CURVE SQUARE LAW DIMMER CURVE INV. SQUARE LAW DIMMER CURVE SQUARE LAW DIMMER CURVE SQUARE LAW DIMMER CURVE SQUARE LAW DIMMER CURVE INV. SQUARE LAW DIMMER CURVE INV. SQUARE LAW DIMMER CURVE INV. SQUARE LAW DIMMER CURVE SQUARE LAW DIMMER CURVE INV. SQUARE LAW DIMMER CURVE SQUARE LAW DIMMER CURVE SQUARE LAW DIMMER CURVE SQUARE LAW DIMMER CURVE INV. SQUARE LAW DIMMER CURVE SQUARE SQUARE SQUARE SCURVE DIMMER CURVE SQUARE SQUARE SQUARE SQUARE STAR CALIBRATION ON SPEKTRA CALIBRATION ON SPEKTRA CALIBRATION ONFF RESERVED RESET ALL CHANNELS CONTROLLED	$\begin{array}{c} 000 \div 001 \\ 002 \div 001 \\ 002 \div 011 \\ 012 \div 013 \\ 014 \div 015 \\ 016 \div 017 \\ 018 \div 019 \\ 020 \div 021 \\ 022 \div 023 \\ 024 \div 035 \\ 036 \div 037 \\ 038 \div 039 \\ 040 \div 041 \\ 042 \div 043 \\ 044 \div 045 \\ 046 \div 047 \\ 048 \div 049 \\ 050 \div 051 \\ 052 \div 053 \\ 054 \div 055 \\ 056 \div 057 \\ 058 \div 057 \\ 068 \div 067 \\ 067 \div 073 \\ 074 \div 075 \\ 076 \div 253 \\ 254 \div 255 \\ \end{array}$	000

FILM

XY Mode

XY	FUNCTION	DMX Value	Default
1	DIMMER		
	0÷100%	000 ÷ 255	000
2	DIMMER FINE STROBE	000 ÷ 255	000
3	Closed Strobe slow to fast Open Random slow to fast Open	000 ÷ 030 031 ÷ 100 101 ÷ 130 131 ÷ 200 201 ÷ 255	255
4	CCT 2800K - 3000K 3000K - 3200K 3200K - 3400K 3400K - 3600K 3800K - 4000K 4000K - 4200K 4200K - 4400K 4400K - 4600K 4600K - 4600K 5000K - 5200K 5200K - 5400K 5400K - 5800K 5400K - 5800K 5400K - 5800K 5400K - 6600K 6400K - 6600K 6400K - 6600K 6400K - 7200K 720K - 7400K 720K - 7400K 7400K - 7800K 7800K - 8800K 800K - 8000K 800K - 900K 900K - 9200K 900K - 9200K 900K - 9200K 900K - 900K	$\begin{array}{c} 000 \div 007 \\ 007 \div 014 \\ 014 \div 021 \\ 021 \div 028 \\ 028 \div 035 \\ 035 \div 042 \\ 042 \div 049 \\ 049 \div 056 \\ 056 \div 063 \\ 063 \div 070 \\ 077 \div 077 \\ 077 \div 084 \\ 084 \div 091 \\ 091 \div 098 \\ 098 \div 105 \\ 105 \div 112 \\ 112 \div 119 \\ 119 \div 126 \\ 126 \div 133 \\ 133 \div 140 \\ 140 \div 147 \\ 147 \div 154 \\ 154 \div 161 \\ 161 \div 168 \\ 168 \div 175 \\ 175 \div 182 \\ 189 \div 196 \\ 196 \div 203 \\ 203 \div 210 \\ 210 \div 217 \\ 217 \div 224 \\ 224 \div 231 \\ 238 \div 245 \\ 245 \div 255 \\ \end{array}$	000
5	HUE Neutral / no effect Full minus green -99%> -1% Neutral / no effect 1%> 99% Full plus green Vel	$\begin{array}{c} 000 \div 010 \\ 011 \div 020 \\ 021 \div 119 \\ 120 \div 145 \\ 146 \div 244 \\ 245 \div 255 \end{array}$	000
6	X 1 0.00 ÷ 0.85	000 ÷ 255	000
7	X 1 FINE	000 ÷ 255	000
8	Y 1 0.00 ÷ 0.85	000 ÷ 255	000
9	Y 1 FINE	000 ÷ 255	000
10	CROSSFADE FROM LAYER 1 TO LAYER 2 0+100%	000 ÷ 255	000
11	x 2 0.00 ÷ 0.85	000 ÷ 255	000
12	X 2 FINE	000 ÷ 255	000
13	Y 2	000 ÷ 255	000
	0.00 ÷ 0.85		1

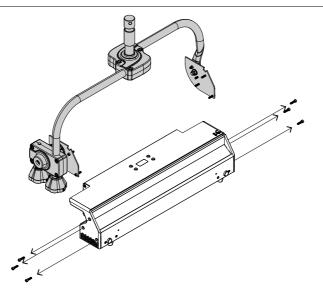
14 Y 3 FINE 000 + 255 000 Construction 000 + 001 000 + 001 000 + 001 Green 000 + 001 000 + 001 000 + 001 Dig 000 + 001 000 + 001 000 + 001 Cyan 000 + 001 000 + 001 000 + 001 Dig 000 + 001 000 + 001 000 + 001 Vision 000 + 001 000 + 001 000 + 001 Dig 000 + 001 000 + 001 000 + 001 Vision 000 + 001 000 + 001 000 + 001 Dig Dig 000 + 001 000 + 001 Dig Dig 000 + 001 000 + 001 Dig Dig Dig 000 + 001 000 + 001 Dig Dig 000 + 001 000 + 001 000 + 001 Dig Dig 000 + 001 000 + 001 000 + 001 Dig Dig 000 + 001 000 + 001 000 + 001 Dig Dig Dig 000 + 001 001 + 001	XY	FUNCTION	DMX Value	Default
COLOR MACRO 000 + 001 Red 000 + 003 Red 000 + 003 Green 000 + 005 Blue 000 + 005 Open 000 + 005 Blue 000 + 005 Open 000 + 001 Diry White 012 + 013 Alce Blue 014 + 015 Carge Blue 014 + 015 Dep Levender 022 + 023 Litz Ing 022 + 023 Dep Levender 023 + 023 Litz Ing 024 + 023 Deplight Blue 023 + 033 Pafe Cold 038 + 037 Pafe Cold 038 + 037 Pafe Cold 038 + 037 Pafe Cold 038 + 047 Medium Blue 048 + 047	14	Y 2 FINE	000 ÷ 255	000
Reid 002 + 003 Green 004 + 003 Blue 004 + 003 Cyan the 004 + 003 Valies 004 + 003 Diry Wite 012 + 013 Diry Wite 012 + 013 Diry Wite 014 - 015 Alex Blue 014 - 015 Dark Steel Bader 022 + 023 Lice Ing 022 + 023 Dark Steel Bader 022 + 023 Dark Steel Bader 023 + 023 Dark Steel Bader 024 + 024 Dark Steel Bader 024 + 024 Dark Steel Bader 024 + 024 Dark Steel Bader 024 + 041 Dark Steel Bader 024 + 041 Madum Bhae 025 + 053 Dark Steel Bader 024 + 041 Madum Bhae 025 + 053 Dark Steel Bader 026 + 061 Madum Bhae 025 + 053				
Green 000 - 000 Rue 000 - 000 Cyan 000 - 000 Magenta 001 - 011 Magenta 001 - 013 Diry White 001 - 015 Alte Blue 002 - 021 Corgo Blue 002 - 021 Deck Blue 002 - 021 Deck Blue 002 - 021 Deck Blue 002 - 023 Deck Blue 002 - 023 Deck Blue 002 - 023 Deck Godd 003 - 033 Abtorn Magenta 003 - 033 Deck Codd 004 - 041 Abtorn Magenta 004 - 043 Madium Blue 004 - 043 Magenta 004 - 043 <td></td> <td></td> <td></td> <td></td>				
Blue 000 + 0007 Koyn 000 + 0007 Magenta 000 + 0007 Name 001 + 0111 Davy Blue 001 + 0107 Congo Blue 001 + 0107 Davy Blue 002 + 0107 Davy Steel Blue 022 + 023 Depcise 022 + 023 Davy Blue 023 + 031 Davy Blue 023 + 031 Davy Blue 033 + 031 Depcise 033 + 033 Pate Cold 034 + 035 Aprictot 038 + 035 Bright Blue 038 + 035 Primacy Green 044 + 045 Depcy Coden Amber 044 + 045 Medum Blue 046 + 047 Medum Blue 046 + 047 Medum Blue 046 + 045 Medum Blue 046 + 047 Medum Blue 046 + 045 Medum Blue 046 + 047				
Cyan 000 = 000 = Magenta 010 = 011 Diry Mile 012 = 013 Diry Mile 012 = 013 Corope Blue 018 = 019 Dark Steel Blue 028 = 023 Diry Mile 028 = 023 Dark Steel Blue 028 = 023 Dark Steel Blue 028 = 023 Dark Steel Blue 028 = 023 Bastad Amber 028 = 033 Bastad Amber 028 = 033 Pale Gold 038 = 033 Pale Gold 038 = 033 Aprict Learnder 044 = 045 Pale Gold 048 = 047 Medium Blue 046 = 047 Bright Pink 059 = 051 Deep Golden Amber 044 = 045 Medium Blue 059 = 057 Dark Shue 059 = 057 Dark Mule 059 = 057 Dark				
Magenta 012 e 013 Vellow 014 e 015 Alice Blue 014 e 015 Darky White 014 e 017 Deep Lavender 022 e 021 Deep Lavender 022 e 023 Ulat Ting 022 e 023 Deigh Blue 022 e 023 Deigh Part 024 e 025 Deigh Blue 024 e 027 Bager Onher 023 e 033 Pater Gold 034 e 033 Pater Gold 034 e 037 Bright Blue 034 e 037 Pater Gold 034 e 037 Bright Blue 034 e 037 Bright Blue 044 e 047 Medium Blue 045 e 057 Medium Blue 045 e 057 Magenta 045 e 057 Dark Green 046 e 067 Magenta 046 e 067 Maure 046 e 067 Dark Prink 046 e 067 Maure 046 e 067 Dark Prink 046 e 067 Maure 046 e 067 Dark Prink 046 e 067 <td></td> <td></td> <td></td> <td></td>				
Drty White 014 + 015 Alice Blue 014 + 015 Congo Blue 024 + 021 Deep Lawinder 022 + 021 Deep Lawinder 022 + 021 Deep Lawinder 024 + 027 Bastard Anber 023 + 027 Bastard Anber 023 + 027 Deep Change 033 + 033 Pale Gold 034 + 035 Apricot 033 + 037 Britt Blue 034 + 035 Prime Yuender 044 + 045 Pale Gold 044 + 045 Deep Galden Anber 044 + 045 Marce 044 + 045 Deep Galden Anber 044 + 045 Marce 052 + 053 Dark Green 054 + 055 Deep An		Magenta		
Alicé Blue 018 + 017 Dark Steel Blue 022 + 023 Liga: Ting 024 + 025 Dark Steel Blue 024 + 025 Bastard Amber 024 + 033 Apricot 034 + 035 Special Lawnofer 024 + 047 Medium Blue 045 + 047 Medium Blue 059 + 051 Mark Green 054 + 055 Lee Green 054 + 055 Lee Green 054 + 055 Lee Green 054 + 055 Dark Fluk 074 + 077 Dark Pink 074 + 075 Dark Pink 074 + 075 <td></td> <td></td> <td></td> <td></td>				
Congo Blue 020 + 021 Dark Steel Blue 022 + 023 Deep Lavender 022 + 023 Daylight Blue 024 + 025 Daylight Blue 023 + 025 Deep Canage 023 + 035 Apricat 024 + 025 Deep Canage 024 + 035 Apricat 024 + 025 Deep Canage 024 + 045 Primary Green 024 + 045 Deep Golden Amber 024 + 045 Marke 025 + 057 Dark Green 024 + 055 Dark Green 024 + 055 Dark Green 024 + 055 Dark Pink 026 + 067 Magenta 026 + 067				
Dark Steel Blue 020 • 021 Depking Blue 022 • 023 Like Trig 024 • 025 Dayligh Blue 028 • 027 Basano Amber 028 • 027 Pale Gold 034 • 033 Apricot 038 • 037 Bright Blue 038 • 037 Primary Green 046 • 047 Special Lavender 042 • 043 Pale Cold 060 • 051 Mary 062 • 053 Dark Fink 062 • 051 Mary 062 • 051 Mary 062 • 053 Dark Fink 064 • 045 Mary 068 • 067 Dark Fink 070 • 071 Dark Fink 074 • 075 <tr< td=""><td></td><td></td><td></td><td></td></tr<>				
Line: Ting 024 + 025 Daylipt Blue 026 + 027 Flame Red 028 + 027 Bastard Amber 020 + 021 Deep Change 021 + 031 Pale Gold 034 + 035 Apricot 036 + 037 Bright Die 036 + 037 Bright Die 036 + 037 Bright Die 036 + 037 Special Lavender 044 + 045 Deep Colden Amber 044 + 045 Medium Blue 088 + 047 Bright Pink 050 + 051 Mawe 052 + 053 Dark Green 054 + 055 Le Green 054 + 055 Le Green 066 + 047 Mayer 062 + 063 Medium Blue-Green 064 + 065 Pace Pink 076 + 077 Middle Rose 076 + 077 Up Ar Pink 076 + 077 Magenta 064 + 065 Pace Amber 064 + 065 Dark Bue 076 + 077 Up Ar Pink 076 + 077 Up Ar Pink				
Daylight Blue 026 - 027 Flame Red 028 - 029 Bastard Amber 020 - 031 Deep Crange 022 - 033 Pale Gold 034 - 035 Apricot 038 - 037 Bright Blue 038 - 037 Bright Blue 038 - 037 Special Lavemen 044 - 045 Deep Coden Amber 044 - 045 Medium Blue 044 - 045 Bright Pink 050 - 051 Markure 052 - 053 Dark Green 054 - 055 Lee Green 054 - 055 Light Blue 060 - 061 Markure 062 - 063 Medium Blue-Green 064 - 065 Park Blue 074 - 077 Might Salmon 074 - 077 Light Blue 076 - 077 Might Salmon 074 - 075 Deap Amber 086 - 087 Might Salmon 074 - 075 Light Rose 074 - 075 Dark Parke 086 - 087 Straw 086 - 087 Light Am				
Flame Red 028 - 029 Bastard Amber 021 - 031 Deep Crange 032 - 031 Pale Gold 034 - 035 Apricot 038 - 037 Bright Blue 038 - 037 Primay Greener 044 - 045 Deep Collen Amber 044 - 045 Deep Collen Amber 048 - 047 Medium Blue 050 - 051 Bright Pink 050 - 051 Dark Green 054 - 055 Le Green 054 - 055 Dark Green 054 - 057 Dark Blue 060 - 051 Statel Blue 060 - 051 Statel Blue 060 - 051 Statel Blue 062 - 063 Magenta 064 - 067 Magenta 076 - 077 Light Rose 076 - 077 Light Rose 076 - 077 Dark Pink 080 - 081 Deep Amber 080 - 081 Staw 080 - 081 Deep Amber 080 - 081 Deep Amber 080 - 081 Dark Yellow Green<				
Bastard Amber 030 + 031 Deep Connge 032 + 033 Pale Gold 034 + 035 Apricot 033 + 037 Bright Blue 034 + 035 Bright Blue 044 - 041 Special Lavender 044 + 045 Deep Golden Amber 044 - 047 Medium Blue 048 - 047 Medium Blue 058 - 057 Dark Blue 068 - 067 Magenta 072 - 077 Middle Rose 072 - 077 Dint Rose 072 - 077 Dint Rose 074 - 077 Dint Rose				
Deep Orange 032 + 033 Apricot 038 + 035 Apricot 038 + 035 Bright Blue 038 + 035 Special Lavender 044 - 041 Special Lavender 044 - 043 Deep Colden Amber 044 - 047 Medum Blue 038 - 037 Bright Pink 036 - 031 Mave 038 - 035 Dark Colean 048 - 047 Medum Blue 036 - 051 Dark Colean 036 - 051 Dark Colean 036 - 051 Dark Blue 066 - 061 Dark Blue 066 - 067 Magenta 066 - 067 Dark Blue 070 - 071 Dark Blue 074 - 075 English Rose 074 - 075 Dark Pink 072 - 073 Dark Pink 074 - 075 Deep Amber 086 - 087 Dark Pink 072 - 073 Dark Pink 074 - 075 Dark Pink 074 - 075 Dark Pink 074 - 075 Dark Pink				
Apricot 036 + 037 Bright Blue 038 + 039 Primay Green 044 - 041 Special Lavender 044 - 043 Deep Colden Amber 044 + 045 Deep Colden Amber 044 - 047 Medium Blue 059 - 031 Bright Pink 059 - 031 Mauve 052 - 033 Dark Creen 054 - 047 Dark Blue 054 - 057 Lavender 054 - 057 Lavender 054 - 057 Lavender 064 - 065 Dark Blue 066 - 064 Medium Blue Green 066 - 067 Magenta 066 - 067 Dark Pink 070 - 071 Dark Pink 072 - 073 Dark Pink 072 - 073 Dark Pink 074 - 075 English Rose 074 - 075 Uight Nose 078 - 079 Orange 086 - 087 Dark Pink 086 - 087 Dark Pink 086 - 087 Dark Pink 078 - 079 Orange <				
Bright Blue 038 - 039 Primary Green 044 - 041 Special Lavender 044 - 045 Deep Colden Amber 044 - 045 Deep Colden Amber 044 - 045 Medium Blue 044 - 047 Medium Blue 044 - 047 Mauve 055 - 051 Dark Green 054 - 057 Lee Green 054 - 057 Dark Blue 064 - 061 Steel Blue 064 - 061 Steel Blue 064 - 065 Medium Blue-Green 064 - 065 Peacock Blue 064 - 067 Medium Blue-Green 074 - 075 Light Rose 072 - 073 Undit Saman 072 - 073 Deep Amber 088 - 087 English Rose 074 - 075 Unglish Rose 074 - 075 Straw 088 - 087 Deep Amber 088 - 087 Straw 088 - 087 Dark Blue 094 - 095 Light Rose 097 - 077 Unglish Rose 097 - 077				
Primay Green 040 + 041 Special Lavender 042 + 043 Pale Lavender 044 + 045 Deep Golden Amber 046 + 047 Medium Blue 088 + 049 Bright Pink 050 + 051 Maxwe 052 + 053 Dark Green 055 + 055 Lee Green 056 + 057 Light Blue 060 + 061 Steel Blue 060 + 061 Magenta 066 + 067 Magenta 066 + 067 Magenta 068 + 069 Dark Pink 070 + 071 15 Middle Rose 070 + 071 Light Salmon 074 + 075 Light Salmon 076 + 077 Light Salmon 076 + 077 Light Rose 076 + 077 Light Amber 086 + 086 Straw 088 + 089 Straw 088 + 089 Just Blue 082 + 085 Light Amber 086 + 086 Straw 088 + 089 Just Blue 097 Lawendeemedar </td <td></td> <td></td> <td></td> <td></td>				
Special Lavender 042 + 043 Päle Lavender 044 + 045 Deep Golden Amber 046 + 047 Medium Blue 050 + 051 Bright Pink 050 + 051 Dark Green 056 + 055 Dark Green 056 + 057 Dark Blue 056 + 057 Dark Blue 056 + 057 Dark Blue 066 + 067 Magenta 066 + 067 Dark Pink 070 + 071 Middle Rose 070 + 071 Light Salmon 074 + 075 English Rose 078 + 077 Light Salmon 074 + 075 Orange 080 + 081 Deep Amber 082 + 083 Straw 080 + 081 Light Nose 070 + 071 Orange 080 + 081 Deep Amber 080 + 081 Straw 080 + 081 Light Nose 070 + 071 Orange 080 + 081 Deep Amber 080 + 081 Straw 080 + 081 Light Nose 079 <td></td> <td></td> <td></td> <td></td>				
Paie Lavender 044 - 045 Deep Golden Amber 046 - 047 Medium Blue 088 - 049 Bright Pink 050 - 051 Mark Green 052 - 053 Dark Green 055 - 057 Lee Green 056 - 057 Light Blue 060 - 061 Steel Blue 060 - 061 Magenta 066 - 067 Magenta 066 - 067 Magenta 068 - 069 Magenta 068 - 069 Middle Kose 070 - 071 Light Salmon 070 + 071 Light Salmon 076 - 077 Light Kose 076 - 077 Light Kose 076 - 077 Light Kose 080 - 081 Dark Mak 084 - 085 Straw 088 - 081 Straw 088 - 081 Jatt Amber 086 - 086 Spring Yellow 088 - 081 Jatt Maber 090 - 091 Jatt Maber 090 - 091 Jatt Holow Green 090 - 091 Jatt Holow Green				
Mexium Blue 048 + 049 Bright Pink 052 + 053 Mave 052 + 053 Dark Green 055 + 057 Lee Green 056 + 057 Dark Blue 060 + 061 Speel Blue 060 + 061 Medium Blue-Green 064 + 065 Meadum Slue-Green 064 + 065 Magenta 068 + 067 Middle Rose 072 + 073 000 English Rose 074 + 075 000 Derp Mober 082 + 081 084 + 085 Derp Mober 082 + 081 084 + 085 Dark Yelkow Green 082 + 081 084 + 085 Dark Yelkow Green 084 + 085 084 + 085 Just Blue 084 + 085 086 + 087				
Bright Pink 000 + 051 Dark Green 052 + 055 Dark Green 054 + 055 Lee Green 054 + 055 Dark Blue 058 + 057 Dark Blue 058 + 057 Dark Blue 056 + 057 Dark Blue-Green 062 + 063 Peacock Blue 064 + 065 Magenta 068 + 067 Peacock Blue 064 + 065 Magenta 088 + 069 Dark Pink 072 + 073 Middle Rose 074 + 075 Light Rose 074 + 075 Deep Amber 088 + 089 Deep Amber 088 + 089 Straw 088 + 089 Light Amber 088 + 089 Spring Vellow 088 + 089 Dark Yellow Green 094 + 095 Just Blue 092 + 093 Sky Blue 092 + 093 Light Lavender 096 + 097 Pink Camation 100 + 101 Medium Pink 102 + 103 Light Lavender 106 + 107 Dark Amber				
Maive 052 + 053 Dark Green 054 + 055 Lee Green 056 + 057 Dark Blue 060 + 061 Light Blue 060 + 061 Steel Blue 062 + 063 Medium Blue-Green 064 + 065 Pacck Blue 064 + 065 Magenta 068 + 067 Magenta 068 + 067 Middle Rose 072 + 073 000 English Rose 074 + 077 074 + 077 Light Salmon 074 + 077 000 Dark Pink 082 + 083 084 + 085 Straw 082 + 081 084 + 085 Light Amber 082 + 081 084 + 085 Straw 084 + 085 087 Straw 084 + 085 087 Straw Tellow Green 094 + 095 097 Light Lavender 098 + 097 010 + 101 Lavender 098 + 097 010 + 101 Medium Amber 102 + 103 103 + 101 Medium Amber 102 + 103 103 + 101 Go				
Dark Green 054 + 055 Dark Blue 058 + 057 Dark Blue 058 + 057 Dark Blue 062 + 063 Medium Blue-Green 064 + 065 Peacock Blue 064 + 065 Magenta 064 + 065 Magenta 064 + 067 Magenta 074 + 071 15 Middle Rose 074 + 071 Ipin Rose 074 + 075 English Rose 074 + 075 Deep Amber 088 + 087 Straw 088 + 087 Deep Amber 088 + 087 Straw 088 + 087 Dirt Yellow Green 092 + 073 Just Blue 094 + 085 Light Amber 096 + 097 Just Blue 094 + 085 Light Amber 096 + 097 Just Blue 094 + 095 Light Amber 096 + 097 Just Blue 094 + 095 Light Amber 100 + 101 Medium Pink 102 + 103 Light Pink 102 + 103 Light Pi				
Lee Green 056 ± 057 Light Blue 056 ± 059 Light Blue 062 ± 063 Medium Blue-Green 064 ± 065 Peacock Blue 064 ± 065 Magenta 066 ± 067 Dark Pink 074 ± 073 Dark Pink 074 ± 073 English Rose 074 ± 075 Light Salmon 074 ± 075 Orange 080 ± 081 Deep Amber 088 ± 087 Straw 088 ± 087 Light Rose 090 ± 091 Just Blue 096 ± 097 Jark Blue Green 096 ± 097 Just Blue Green 098 ± 099 Just Blue Green 098 ± 099 Just Blue Green 098 ± 097 Just Blue Green 098 ± 097 Just Blue Green 098 ± 097 Just Blue Green 108 ± 107 Just Blue Green 108 ± 107 Just Blue Green 108 ± 107				
Light Blue 060 + 061 Medium Blue-Green 064 + 065 Peacock Blue 064 + 065 Magenta 068 + 069 Dark Pink 070 + 071 Middle Rose 072 + 073 Uight Salmon 074 + 075 Light Salmon 074 + 075 Orange 078 + 079 Orange 086 + 087 Deep Amber 086 + 087 Straw 084 + 085 Light Rose 079 + 079 Just Blue 092 + 093 Straw 084 + 085 Light Amber 099 + 091 Just Blue 092 + 093 Sty Blue 094 + 095 Light Lawender 098 + 099 Light Lawender 100 + 101 Light Lawender 100 + 101 Light Lawender 102 + 103 Light Marber 102 + 103 Light Marber 102 + 103 Light Marber 100 + 101 Medium Pink 102 + 112 Light Amber 100 + 101 Medium Pink<				
Steel Blue 062 + 063 Wedium Blue-Green 064 + 065 Peacock Blue 068 + 069 Magenta 068 + 069 Dark Pink 070 + 071 15 Middle Rose 072 + 073 Uight Salmon 074 + 075 English Rose 076 + 077 Light Rose 076 + 077 Orange 080 + 081 Deep Amber 082 + 083 Straw 084 + 085 Light Amber 086 + 087 Spring Yellow 088 + 087 Dark Vellow Green 092 + 093 Just Blue 092 + 093 Sky Blue 094 + 095 Lavender 096 + 097 Light Lavender 096 + 097 Light Lavender 100 + 101 Medium Amber 102 + 103 Surger Beach 110 + 117 Medium Amber 110 + 117 Fire 114 + 115 Surger Beach 112 + 113 Fire 114 + 115 Surger Beach 116 + 117				
Medium Blue-Green 064 + 065 Peacock Blue 068 + 069 Magenta 068 + 069 Dark Pink 070 + 071 15 Middle Rose 072 + 073 Light Salmon 074 + 075 Orange 078 + 079 Orange 086 + 087 Dep Amber 086 + 087 Light Rose 084 + 085 Light Maber 086 + 087 Dep Amber 086 + 087 Straw 084 + 085 Light Maber 086 + 087 Syring Yellow 088 + 089 Dark Yellow Green 090 + 091 Just Blue 094 + 095 Light Nameder 096 + 097 Light Lavender 096 + 097 Light Hink 100 + 101 Medium Pink 102 + 103 Light Pink 104 + 105 Sunset Red 106 + 107 Staw Amber 110 + 111 Medium Pink 110 + 111 Medium Wellow 118 + 119 Medium Netlow 124 + 125 <tr< td=""><td></td><td></td><td></td><td></td></tr<>				
Peacock Blue 066 + 067 Magenta 068 + 069 Dark Pink 070 + 071 15 Middle Rose 072 + 073 000 Light Salmon 074 + 075 074 075 English Rose 076 + 077 074 + 075 078 + 079 Orange 080 + 081 082 + 083 084 + 085 Straw 084 + 085 084 + 085 084 + 085 Light Amber 086 + 087 088 + 089 Just Blue 094 + 095 088 + 089 Just Blue 094 + 095 094 + 095 Light Lavender 094 + 095 094 + 095 Light Lavender 096 + 097 006 + 007 Light Lavender 096 + 007 006 + 007 Dark Maber 100 + 101 100 + 101 Medium Amber 100 + 101 106 + 107 Dark Amber 110 + 111 106 + 107 Dark Amber 110 + 111 110 + 111 Medium Amber 110 + 111 110 + 111 Medium Amber 110 + 111 110 + 111				
Magenta 068 + 069 Dark Pink 070 + 071 15 Middle Rose 072 + 073 000 Light Salmon 074 + 075 074 + 075 Light Rose 074 + 077 074 + 075 Orange 080 + 081 080 + 081 Deep Amber 082 + 083 084 + 085 Straw 084 + 085 088 + 089 Dark Yellow Green 084 + 095 088 + 089 Dark Yellow Green 090 + 091 Just Blue 092 + 093 Light Lavender 096 + 097 Uight Amber 094 + 095 Light Lavender 096 + 097 102 + 103 104 + 105 Medium Pink 102 + 103 104 + 105 104 + 105 Sunsert Red 106 + 107 108 + 109 104 + 105 Surprise Peach 116 + 117 116 + 117 118 + 119 Medium Amber 116 + 117 116 + 117 116 + 117 Straw Tint 118 + 119 116 + 117 116 + 117 Straw Tint 118 + 119 116 + 117 116 + 117				
15 Middle Rose 072 + 073 000 Light Salmon 074 + 075 074 + 075 Drange 076 + 077 078 + 079 Orange 080 + 081 082 + 083 Deep Amber 082 + 083 84 + 085 Straw 084 + 085 084 + 085 Light Amber 086 + 087 090 + 091 Just Blue 092 + 093 5ky Blue Sky Blue 092 + 093 5ky Blue Lavender 096 + 097 098 + 099 Hink Camation 100 + 101 Medium Pink 102 + 103 Light Rober 106 + 107 Dark Amber 108 + 109 Gold Amber 108 + 109 Gold Amber 110 + 111 Medium Mamber 112 + 113 Fire 114 + 115 Surprise Peach 122 + 121 Pale Gold 124 + 125 Orange 122 + 121 Pale Gold 124 + 125 Orange 122 + 121 Pale Gold 132 + 131 Deep Straw 134 + 135 Reserved 134 + 135<			068 ÷ 069	
Light Salmon 074 + 075 English Rose 076 + 077 Light Rose 078 + 079 Orange 080 + 081 Deep Amber 082 + 083 Straw 084 + 085 Light Amber 084 + 085 Spring Yellow 088 + 089 Dark Yellow Green 090 + 091 Just Blue 092 + 093 Sky Blue 094 + 095 Lavender 096 + 097 Light Amber 098 + 099 Pink Carnation 100 + 101 Medium Pink 102 + 103 Light Pink 102 + 103 Light Pink 104 + 105 Surset Red 106 + 107 Dark Medium Amber 108 + 109 Gold Amber 108 + 119 Medium Amber 110 + 111 Medium Mellow 122 + 123 Pale Gold 120 + 121 Lee Minus Green 122 + 123 Pale Gold 124 + 125 Orange 126 + 127 Deep Straw 128 + 129 Rose Pu				
English Rose 076 + 077 Light Rose 078 + 079 Orange 080 + 081 Deep Amber 082 + 083 Straw 084 + 085 Light Maber 084 + 085 Spring Yellow 088 + 089 Dark Yellow Green 090 + 091 Just Blue 094 + 095 Lavender 096 + 097 Light Lavender 096 + 097 Light Lavender 096 + 097 Light Amber 096 + 097 Light Lavender 096 + 097 Light Lavender 096 + 097 Light Pink 100 + 101 Medium Pink 102 + 103 Light Pink 104 + 105 Sunset Red 106 + 107 Dark Amber 108 + 109 Gold Amber 110 + 111 Medium Amber 110 + 111 Surging Peach 112 + 113 Fire 114 + 115 Surging Peach 122 + 123 Pale Gold 124 + 125 Orange 124 + 125 Orange <td>15</td> <td></td> <td></td> <td>000</td>	15			000
Light Rose 078 + 079 Orange 080 + 081 Deep Amber 082 + 083 Straw 084 + 085 Light Amber 086 + 087 Spring Yellow 088 + 089 Dark Yellow Green 099 + 091 Just Blue 092 + 093 Sky Blue 094 + 095 Light Lavender 096 + 097 Light Lavender 096 + 097 Light Lavender 096 + 097 Light Pink 100 + 101 Medium Pink 102 + 103 Light Pink 104 + 105 Sunset Red 106 + 107 Dark Amber 108 + 107 Gold Amber 108 + 107 Gold Amber 110 + 111 Medium Pink 112 + 113 Fire 114 + 115 Suprise Peach 112 + 113 Fire 114 + 115 Suprise Peach 120 + 121 Lee Minus Green 122 + 123 Pale Gold 124 + 125 Orange 126 + 127 Deep Purple				
Orange 080 - 081 Deep Amber 082 - 083 Straw 084 + 085 Light Amber 086 + 087 Spring Yellow 088 - 089 Dark Yellow Green 090 - 091 Just Blue 092 - 093 Sky Blue 092 - 097 Lavender 096 - 097 Light Tavender 096 - 097 Light Pink 000 - 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 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 <				
Straw 084 + 085 Light Amber 086 + 087 Spring Yellow 088 + 089 Dark Yellow Green 090 + 091 Just Blue 092 + 093 Sky Blue 094 + 095 Lavender 096 + 097 Light Lavender 098 + 098 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 116 + 117 Straw 122 + 123 Pale Gold 124 + 125 Orange 126 + 127 Deep Straw 126 + 127 Deep Straw 130 + 131 Deep Purple 130 + 131 Deep Purple 132 + 133 Soft Green 134 + 135 Reserved 136 + 211 2800K 214 + 215 3000K 214 + 215		Orange		
Light Amber 086 ÷ 087 Spring Yellow 088 ÷ 089 Dark Yellow Green 090 ÷ 091 Just Blue 092 ÷ 093 Sky Blue 094 ÷ 095 Lavender 096 ÷ 097 Light Lavender 096 ÷ 097 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 122 ÷ 123 Pale Gold 124 ÷ 125 Orange 126 ÷ 127 Deep Purple 130 ÷ 131 Deep Purple 130 ÷ 131 Soft Green 132 ÷ 133 Soft Green 134 ÷ 135 Reserved 136 ÷ 211 2800K 214 ÷ 215 3000K 214 ÷ 215 3000K <td< td=""><td></td><td></td><td></td><td></td></td<>				
Spring Yellow 088 ÷ 089 Dark Yellow Green 090 ÷ 091 Just Blue 092 ÷ 093 Sky Blue 094 ÷ 095 Lavender 096 ÷ 097 Light Lavender 098 ÷ 099 Pink Carnation 100 ÷ 101 Medium Pink 102 ÷ 103 Light Pink 104 ÷ 105 Sunset Red 106 ÷ 107 Dark Amber 108 ÷ 109 Gold Amber 110 ÷ 111 Medium Amber 110 ÷ 111 Medium Amber 110 ÷ 111 Stryprise Peach 116 ÷ 117 Straw Tint 118 ÷ 119 Medium Yellow 122 ÷ 123 Lee Minus Green 122 ÷ 123 Pale Gold 124 ÷ 125 Orange 126 ÷ 127 Deep Straw 128 ÷ 129 Rose Purple 130 ÷ 131 Deep Purple 130 ÷ 131 Deep Purple 132 ÷ 133 Soft Green 134 ÷ 135 Reserved 136 ÷ 211 2800K 214 ÷ 215 300				
Dark Vellow Green 090 ÷ 091 Just Blue 092 ÷ 093 Sky Blue 094 ÷ 095 Lavender 096 ÷ 097 Light Lavender 098 ÷ 099 Pink Carnation 100 ÷ 101 Medium Pink 102 ÷ 103 Light Pink 104 ÷ 105 Sunset Red 106 ÷ 107 Dark Amber 108 ÷ 109 Gold Amber 110 ÷ 111 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 130 ÷ 131 Pale Gold 132 ÷ 133 Soft Green 134 ÷ 135 Reserved 136 ÷ 211 2800K 214 ÷ 215 3000K 214 ÷ 215 3000K 214 ÷ 215 3000K 216 ÷ 217 3400K 216 ÷ 217 </td <td></td> <td></td> <td></td> <td></td>				
Sky Blue 094 ÷ 095 Lavender 096 ÷ 097 Light Lavender 098 ÷ 009 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 Mamber 112 ÷ 113 Fire 114 ÷ 115 Surprise Peach 116 ÷ 117 Straw Tint 112 ÷ 121 Lee Minus Green 122 ÷ 123 Pale Gold 124 ÷ 125 Orange 126 ÷ 127 Deep Straw 130 ÷ 131 Deep Vurple 130 ÷ 131 Soft Green 134 ÷ 135 Reserved 136 ÷ 211 2800K 214 ÷ 215 3000K 214 ÷ 215 3000K 214 ÷ 215 3000K 214 ÷ 215				
Lavender 096 ÷ 097 Light Lavender 098 ÷ 099 Pink Carnation 100 ÷ 101 Medium Pink 102 ÷ 103 Light Pink 104 ÷ 105 Sunset Red 106 ÷ 107 Dark Amber 108 ÷ 109 Gold Amber 110 ÷ 111 Medium Amber 112 ÷ 113 Fire 114 ÷ 115 Surprise Peach 116 ÷ 117 Straw Tint 118 ÷ 119 Medium Yellow 122 ÷ 123 Lee Minus Green 124 ÷ 125 Orange 126 ÷ 127 Deep Straw 130 ÷ 131 Deep Purple 132 ÷ 133 Soft Green 134 ÷ 135 Reserved 136 ÷ 211 2800K 214 ÷ 215 3000K 214 ÷ 215 3000K 214 ÷ 215 3000K 214 ÷ 215 3400K 218 ÷ 219				
Light Lavender 098 ÷ 099 Pink Carnation 100 ÷ 101 Medium Pink 102 ÷ 103 Light Pink 104 ÷ 105 Sunset Red 106 ÷ 107 Dark Amber 108 ÷ 109 Gold Amber 110 ÷ 111 Medium Amber 110 ÷ 111 Fire 114 ÷ 115 Surprise Peach 116 ÷ 117 Straw Tint 118 ÷ 119 Medium Vellow 120 ÷ 121 Lee Minus Green 122 ÷ 123 Pale Gold 124 ÷ 125 Orange 126 ÷ 127 Deep Straw 132 ÷ 133 Soft Green 132 ÷ 133 Soft Green 134 ÷ 135 Reserved 136 ÷ 211 2800K 212 ÷ 213 3000K 214 ÷ 215 3200K 216 ÷ 217 3400K 216 ÷ 217				
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 110 ÷ 111 Fire 114 ÷ 115 Surprise Peach 116 ÷ 117 Straw Tint 118 ÷ 119 Medium Yellow 122 ÷ 123 Lee Minus Green 122 ÷ 123 Pale Gold 124 ÷ 125 Orange 128 ÷ 127 Deep Straw 130 ÷ 131 Deep Purple 130 ÷ 131 Soft Green 134 ÷ 135 Reserved 136 ÷ 211 2800K 214 ÷ 215 3000K 214 ÷ 215 3000K 214 ÷ 215 3000K 214 ÷ 215				
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 130 ÷ 131 Deep Purple 130 ÷ 131 Deep Purple 136 ÷ 211 2800K 212 ÷ 213 3000K 214 ÷ 215 3200K 214 ÷ 215 3400K 218 ÷ 219				
Subset Red 106 ÷ 107 Dark Amber 108 ÷ 109 Gold Amber 110 ÷ 111 Medium Amber 112 ÷ 113 Fire 114 ÷ 115 Surprise Peach 116 ÷ 117 Straw Tint 120 ÷ 121 Lee Minus Green 122 ÷ 123 Pale Gold 124 ÷ 125 Orange 126 ÷ 127 Deep Straw 130 ÷ 131 Deep Purple 130 ÷ 131 Soft Green 132 ÷ 133 Soft Green 134 ÷ 135 Reserved 136 ÷ 211 2800K 214 ÷ 215 3000K 214 ÷ 215 3000K 214 ÷ 215 3200K 214 ÷ 215				
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 122 ÷ 123 Orange 126 ÷ 127 Deep Straw 128 ÷ 129 Rose Purple 130 ÷ 131 Deep Straw 132 ÷ 133 Soft Green 134 ÷ 135 Reserved 136 ÷ 211 2800K 212 ÷ 213 3000K 214 ÷ 215 3200K 216 ÷ 217 3400K 218 ÷ 219				
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 130 ÷ 131 Soft Green 134 ÷ 135 Reserved 136 ÷ 211 2800K 214 ÷ 215 3000K 214 ÷ 215 3000K 216 ÷ 217 3400K 218 ÷ 219				
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 130 ÷ 131 Deep Purple 130 ÷ 131 Soft Green 134 ÷ 135 Reserved 136 ÷ 211 2800K 214 ÷ 215 3000K 214 ÷ 215 3000K 214 ÷ 215 3400K 218 ÷ 219				
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 134 ÷ 135 Reserved 136 ÷ 211 2800K 214 ÷ 215 3000K 214 ÷ 215 3200K 216 ÷ 217 3400K 218 ÷ 219				
Sträw Tint 118 ÷ 119 Medium Yellow 120 ÷ 121 Lee Minus Green 122 ÷ 123 Pale Gold 124 ÷ 125 Orange 126 ÷ 127 Deep Straw 128 ÷ 129 Rose Purple 130 ÷ 131 Deep Purple 132 ÷ 133 Soft Green 134 ÷ 135 Reserved 136 ÷ 211 2800K 212 ÷ 213 3000K 214 ÷ 215 3200K 216 ÷ 217 3400K 218 ÷ 219				
Medium Yellow 120 ÷ 121 Lee Minus Green 122 ÷ 123 Pale Gold 124 ÷ 125 Orange 126 ÷ 127 Deep Straw 128 ÷ 129 Rose Purple 130 ÷ 131 Deep Purple 132 ÷ 133 Soft Green 134 ÷ 135 Reserved 136 ÷ 211 2800K 212 ÷ 213 3000K 214 ÷ 215 3200K 216 ÷ 217 3400K 218 ÷ 219				
Lee Minus Green 122 ÷ 123 Pale Gold 124 ÷ 125 Orange 126 ÷ 127 Deep Straw 128 ÷ 129 Rose Purple 130 ÷ 131 Deep Purple 132 ÷ 133 Soft Green 134 ÷ 135 Reserved 136 ÷ 211 2800K 212 ÷ 213 3000K 214 ÷ 215 3200K 216 ÷ 217 3400K 218 ÷ 219				
Orange 126 ÷ 127 Deep Straw 128 ÷ 129 Rose Purple 130 ÷ 131 Deep Purple 132 ÷ 133 Soft Green 134 ÷ 135 Reserved 136 ÷ 211 2800K 212 ÷ 213 3000K 214 ÷ 215 3200K 216 ÷ 217 3400K 218 ÷ 219				
Deep Straw 128 ÷ 129 Rose Purple 130 ÷ 131 Deep Purple 132 ÷ 133 Soft Green 134 ÷ 135 Reserved 136 ÷ 211 2800K 212 ÷ 213 3000K 214 ÷ 215 3200K 216 ÷ 217 3400K 218 ÷ 219		Pale Gold	124 ÷ 125	
Rose Purple 130 ÷ 131 Deep Purple 132 ÷ 133 Soft Green 134 ÷ 135 Reserved 136 ÷ 211 2800K 212 ÷ 213 3000K 214 ÷ 215 3200K 216 ÷ 217 3400K 218 ÷ 219				
Deep Purple 132 ÷ 133 Soft Green 134 ÷ 135 Reserved 136 ÷ 211 2800K 212 ÷ 213 3000K 214 ÷ 215 3200K 216 ÷ 217 3400K 218 ÷ 219				
Soft Green 134 ÷ 135 Reserved 136 ÷ 211 2800K 212 ÷ 213 3000K 214 ÷ 215 3200K 216 ÷ 217 3400K 218 ÷ 219				
Reserved 136 ÷ 211 2800K 212 ÷ 213 3000K 214 ÷ 215 3200K 216 ÷ 217 3400K 218 ÷ 219				
3000K 214 ÷ 215 3200K 216 ÷ 217 3400K 218 ÷ 219		Reserved	136 ÷ 211	
3200K 216 ÷ 217 3400K 218 ÷ 219				
3400K 218 ÷ 219				
220 221		3600K	220 ÷ 221	

XY	FUNCTION	DMX Value	Default
15	COLOR MACRO 3800K 4000K 4200K 4400K 4400K 4400K 5000K 5200K 5200K 5400K 5600K 6500K 6500K 6500K 6500K 6000K FUI On	$\begin{array}{c} 222 \div 223\\ 224 \div 225\\ 226 \div 227\\ 228 \div 229\\ 230 \div 231\\ 232 \div 233\\ 234 \div 235\\ 236 \div 237\\ 238 \div 239\\ 240 \div 241\\ 242 \div 243\\ 244 \div 247\\ 248 \div 249\\ 250 \div 251\\ 252 \div 253\\ 254 \div 255\\ \end{array}$	000
16	CTO ON COLORS 0+100%	000 ÷ 255	000
17	CONTROL CHANNEL No Function RESERVED LED FREQUENCY 600HZ LED FREQUENCY 1200HZ LED FREQUENCY 2000HZ LED FREQUENCY 4000HZ LED FREQUENCY 4000HZ LED FREQUENCY 4000HZ LED FREQUENCY 25KHZ RESERVED DIMMER SPEED AUTO DIMMER SPEED SLOW DIMMER CURVE LINEAR DIMMER CURVE SUARE LAW DIMMER CURVE SUARE LAW DIMMER CURVE SUARE LAW DIMMER CURVE HIGH RES @LOW DIMMER CURVE HIGH RES @LOW DIMMER SPEED OFF DMX FAULT STANDALONE SPEKTRA CALIBRATION ON SPEKTRA CALIBRATION OFF RESERVED RESET ALL CHANNELS CONTROLLED	$\begin{array}{c} 000 \div 001 \\ 002 \div 011 \\ 012 \div 013 \\ 014 \div 015 \\ 016 \div 017 \\ 018 \div 019 \\ 020 \div 021 \\ 022 \div 023 \\ 024 \div 035 \\ 036 \div 037 \\ 038 \div 039 \\ 040 \div 041 \\ 042 \div 043 \\ 044 \div 045 \\ 046 \div 047 \\ 048 \div 049 \\ 050 \div 051 \\ 052 \div 053 \\ 056 \div 057 \\ 058 \div 057 \\ 058 \div 057 \\ 058 \div 057 \\ 068 \div 067 \\$	000

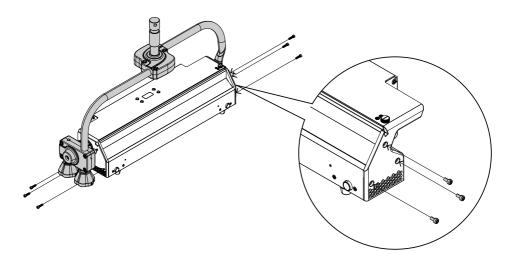
12 - ACCESSORIES INSTALLATION

THE POLE OPERATED YOKE (CODE ECLCYC050PO)

The pole operated yoke bracket is available as accessory and it can be mounted from the users, see the following drawing which shows the process for Yoke replacement.



1. Loosen and remove the marked screws.

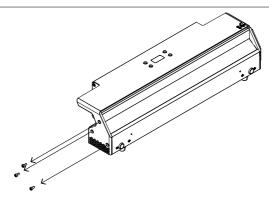


2. Mount the Pole Operated Yoke bracket and tighten the screws. NOTE: To remove the accessory, reverse the procedure.

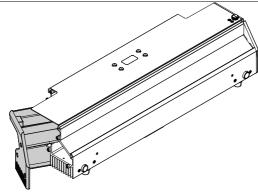
Fig.11

DIFFUSION FILTERS (CODE ECLCYCF)

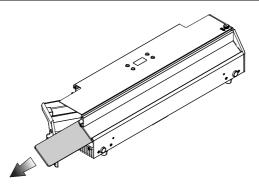
Light diffuser filter are available as optional accessories.



1. Loosen and remove the marked screws.



2. Open the side cover.

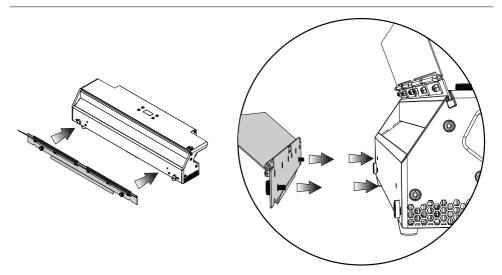


- 3. Gently remove the filter located under the glass.
- 4. Insert the desired diffuser filter, always in the same position.
- 5. Mount the side cover and tighten the screws.

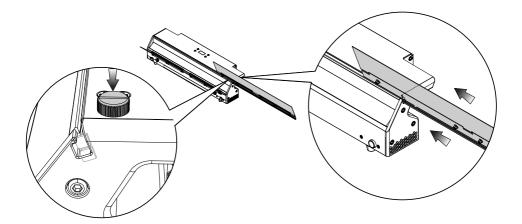
Fig.12

BARN DOOR (CODE ECLCYCBD050)

Upper and lower barndoors with directional flaps to adjust the light beam is available as optional accessory.



 Mount the lower barndoor fixing the two screws on the hardware into the holes provided on the front housing of the product. Then tighten the screws throught the two knobs od the accessory. NOTE: To remove the accessory, reverse the procedure.



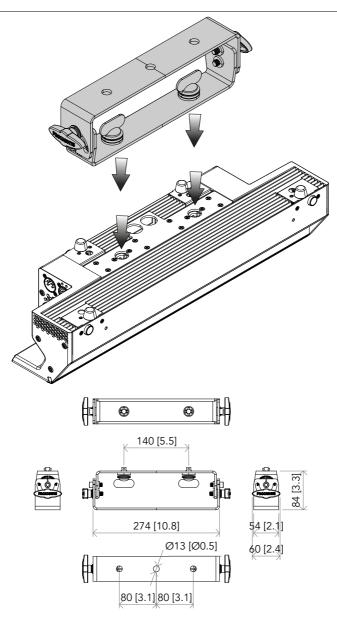
2. To insert the upper door, press the button provided on the top cover to release the lock provided in the slot on the hardware. Then insert the barndoor in the slot.

NOTE: to remove the upper barndoor press the button provided on the top cover to release the lock provided in the slot on the hardware.

3. Adjust the angle of the leafs to focus the beam.

HANGING BAR (CODE ECLCYCOHB)

The orientable hanging bar is available as optional accessory.



- 1. Mount the hanging bar fixing and toghtening the Quick-Lock on the hardware into the holes provided on the low housing of the product.
- 2. Using the knobs to adjust the angle of the product.

Fig.14

13 - MAINTENANCE

MAINTENANCE AND CLEANING THE PRODUCT

WARNING: Disconnect from the mains before starting any maintenance work

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

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

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

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

REPLACING THE FUSE

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

• Remove the old fuse from the housing with a suitable screwdriver (anticlockwise) and replace it with one of the same type and of the same classification (T5 AL 250 V).

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	Bad signal connection.	 Inspect connections and cables. Fix eventual bad connections. Repair or replace damaged cables.
respond correctly to the contoller.	• 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 corrupt- ing the signal transmis- sion 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 (tem- perature 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.

PROLIGHTS is a trademark of MUSIC & LIGHTS S.r.l. musiclights.it

Via A.Olivetti snc 04026 - Minturno (LT) ITALY Tel: +39 0771 72190 **prolights.it** support@prolights.it