PROLIGHTS

EclProfile CT+

High quality six colours full spectrum ellipsoidal LED

USER MANUAL

REV.02-07/20

English version

Thank you for choosing PROLIGHTS

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

Any other use, if not expressly indicated, could compromise the good condition/operation of the product and/or be a source of danger.
This product is meant for professional use. Therefore, commercial use of this equipment is subject to the respectively applicable national accident prevention rules and regulations.

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

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

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

Visit the download area of the product page

INDEX

SAFETY INFORMATION

WARNING!

- Please read carefully the instruction reported in this section before installing, powering, operating or servicing the product and observe the indications also for its future handling.

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

Connection to mains supply

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

Protection and Warning against electrical shock

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

Installation

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

Minimum distance of illuminated objects

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

T_a 45°C

Max operating ambient temperature (Ta)

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

T_a -20°C

Minimum operating ambient temperature (Ta)

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

Protection from burns and fire

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

Indoor use

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

T_c 50°C

Temperature of the external surface

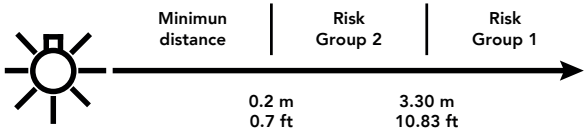
- The surface of the fixture can reach up to 50 °C (122 °F) during operation. Avoid contact with people and materials.

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 3.30 m 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 product contains a lithium ion battery

- Don't throw the unit into the garbage at the end of its lifetime.
- Make sure to dispose according to your local ordinances and/or regulations, to avoid polluting the environment!
- The packaging is recyclable and can be disposed.

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).

1 - PACKAGING

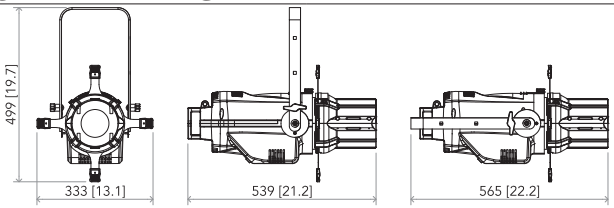
PACKAGE CONTENT

- ECLCTPLUS:
- Power cable 1.5 m, Schuko - PowerCon True1;
- User manual.

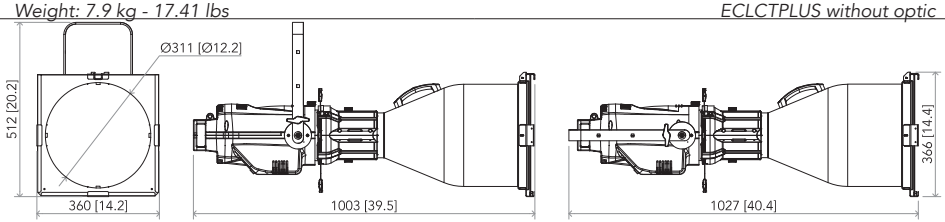
OPTIONAL ACCESSORIES

- ECLPRGH: Gobo holder for ECLFS and ECLCTPLUS;
- ECLPRSMOOTHF1: ECL Profiles Soft Focus Diffusion kit to be installed inside the fixtures;
- ECLPRIRIS: Steel iris diaphram for ECLFS and ECLCTPLUS profiler;
- ECLPRL05BK: Optic for ECLFS and ECLCTPLUS profiler, 5°, black;
- ECLPRL10BK: Optic for ECLFS and ECLCTPLUS profiler, 10°, black;
- ECLPRL14BK: Optic for ECLFS and ECLCTPLUS profiler, 14°, black;
- ECLPRL19BK: Optic for ECLFS and ECLCTPLUS profiler, 19°, black;
- ECLPRL26BK: Optic for ECLFS and ECLCTPLUS profiler, 26°, black;
- ECLPRL36BK: Optic for ECLFS and ECLCTPLUS profiler, 36°, black;
- ECLPRL50BK: Optic for ECLFS and ECLCTPLUS profiler, 50°, black;
- ECLPRL70BK: Optic for ECLFS and ECLCTPLUS profiler, 70°, black;
- ECLPRLZ1530BK: Zoom optic for ECLFS, 15°-30°, black;
- ECLPRLZ2550BK: Zoom optic for ECLFS, 25°-50°, black;
- ECLPRSEF1: Soft edge filter and holder kit for ECLFS and ECLCTPLUS profiler;
- ECLPRTPG: Gel filter frame for ECLFS and ECLCTPLUS profiler;
- FCLECLPR: Flight case for 8 pcs of ECLFS and ECLCTPLUS profiler;;
- ECLPRPOYO: Pole operated aluminium yoke bracket for ECLCTPLUS and ECLFS;
- UPBOX2P5: Firmware uploader kit, USB IN, 5-pin XLR DMX OUT;
- RSR: Steel security cable for hanging bodies, inox steel shackle;
- C6002: Slim aluminium clamp, 200 kg loading, 48-51 mm tubes, M10 bolt.

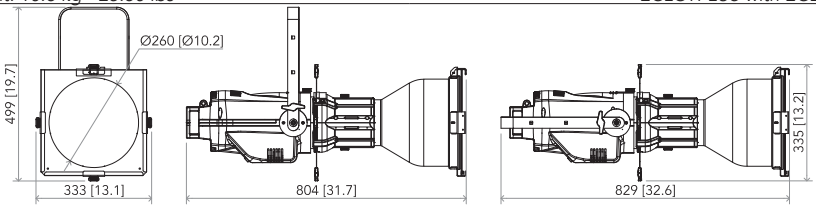
2 - TECHNICAL DRAWING



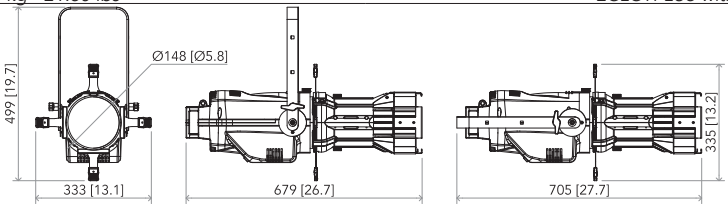
Weight: 7.9 kg - 17.41 lbs *ECLCTPLUS without optic*



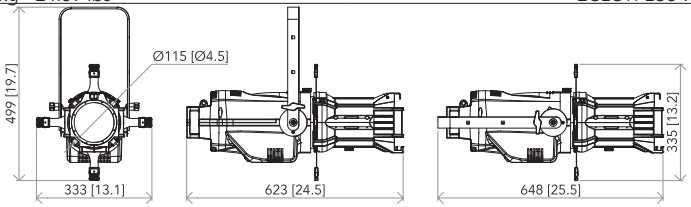
Weight: 10.8 kg - 23.80 lbs *ECLCTPLUS with ECLPRL05*



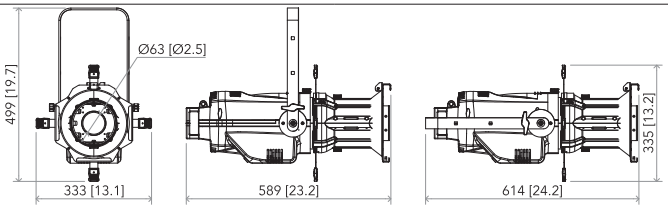
Weight: 9.8 kg - 21.60 lbs *ECLCTPLUS with ECLPRL10*



Weight: 11.2 kg - 24.69 lbs *ECLCTPLUS with ECLPRL14*



Weight: (ECLPRL19) 10.2 kg - 22.49 lbs; (ECLPRL26) 10.3 - 22.70 lbs; (ECLPRL36) 10 - 22.05 lbs; (ECLPRL50) 9.6 - 21.16 lbs *ECLCTPLUS with ECLPRL19-26-36-50*



Weight: 9.7 kg - 21.38 lbs *ECLCTPLUS with ECLPRL70*

3 - INSTALLATION

MOUNTING

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

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

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

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

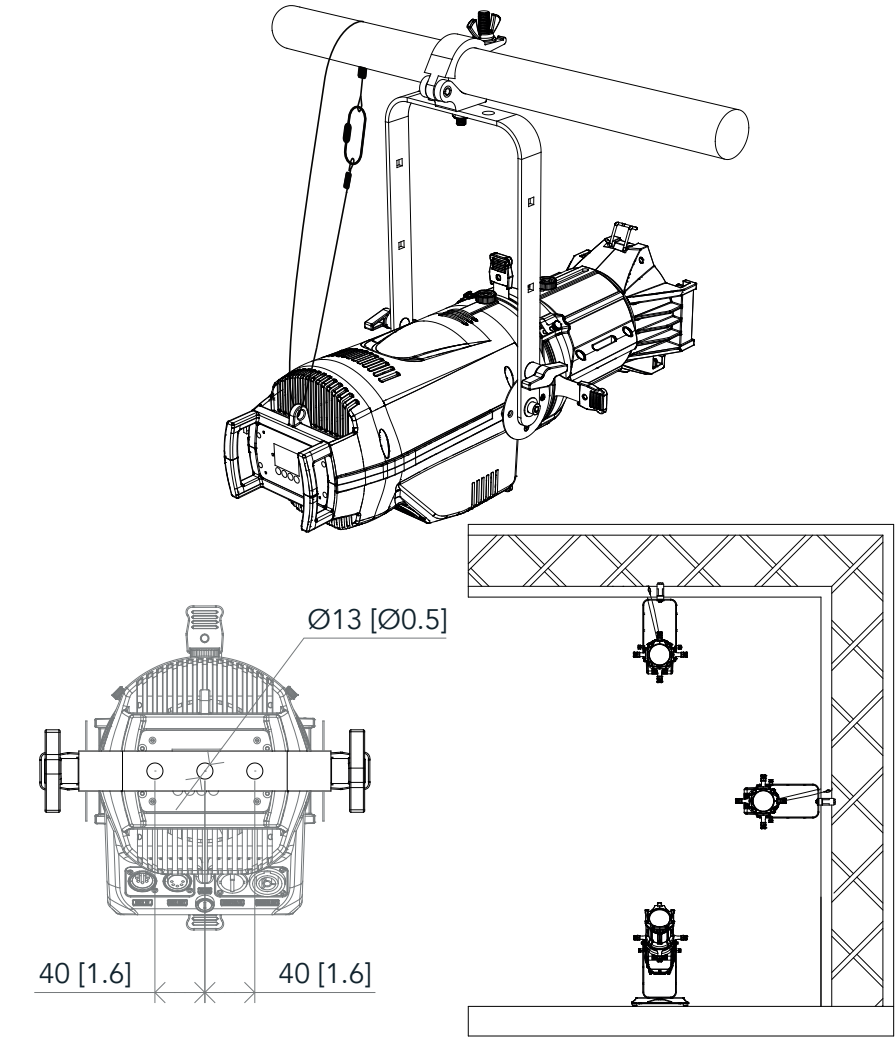


Fig.2

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 264W.

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

5 - START UP

CONNECT AND DISCONNECT POWER FROM THE PRODUCT
To apply and disconnect power to the product:
- Check that the product is installed and secured as indicated in the Safety Informations, and that personal safety will not be put at risk when the fixture lights up.
- Connect the power connector into the Mains input socket (100-240 VAC-50/60 Hz).
- The product is then ready for its operations and can be controlled through the available input signals on board.
- To disconnect power from the product, disconnect the Mains from the socket.

6 - PRODUCT OVERVIEW

1. OPTIC (optional accessory);
2. KNOB for focus;
3. BLADES for FRAMING SYSTEM;
4. KNOB for bracket;
5. KNOB for locking the middle part;
6. BRACKET;
7. SAFETY EYE to attach safety cable;
8. HANDLE;
9. USER INTERFACE with display and buttons for access to the control panel functions.
10. DMX IN (5-p XLR): 1 = GND, 2 = sign-, 3 = sign+, 4 N/C, 5 N/C;
11. DMX OUT (5-p XLR): 1 = GND, 2 = sign-, 3 = sign+, 4 N/C, 5 N/C;
12. MAIN FUSE HOLDER: replace a burnt-out fuse by one of the same type only (T5A, 250 V);
13. POWER IN: for connection to the Mains 100-240V~/50-60Hz;
14. POWER OUT: power output for connection of multiple units in series.

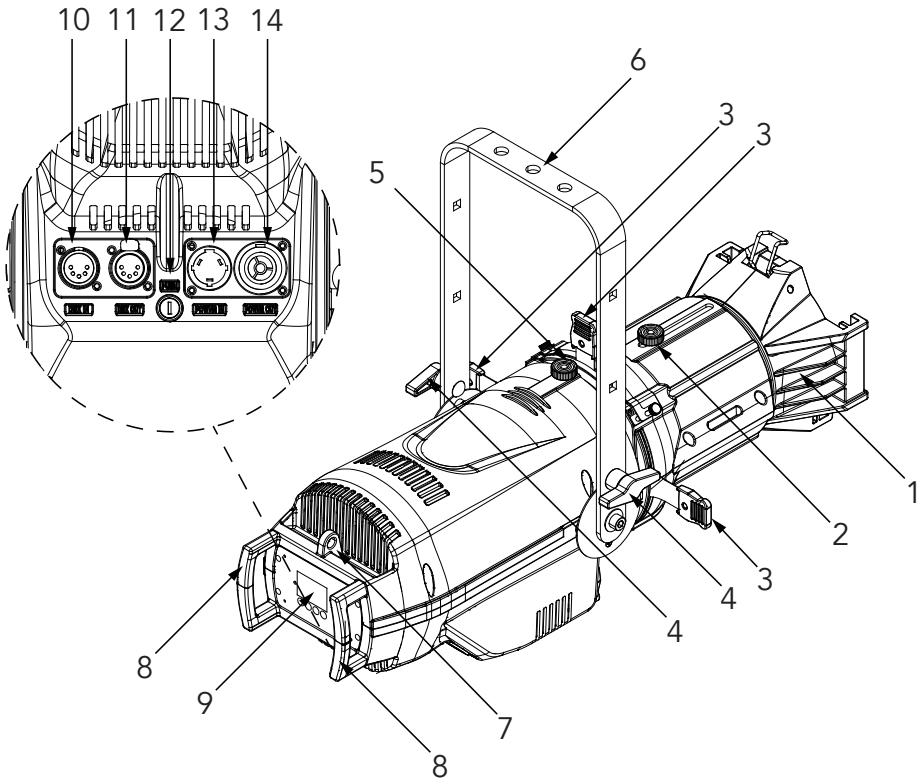


Fig.3

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:

DMX - INPUT
XLR plug

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

DMX - OUTPUT
XLR socket

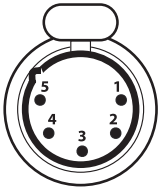


Fig.4

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

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

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

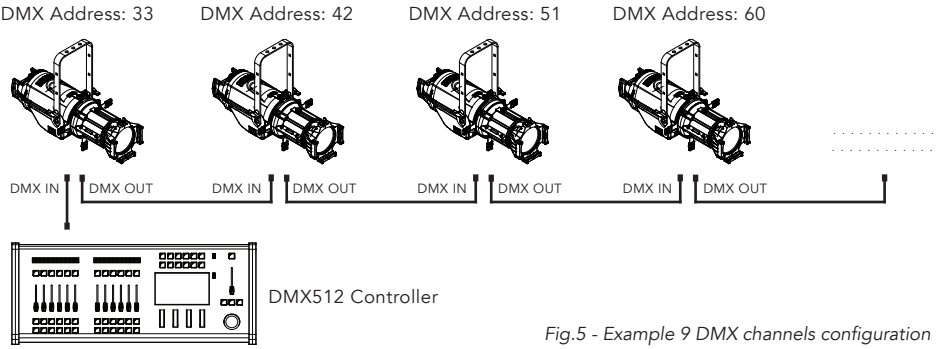
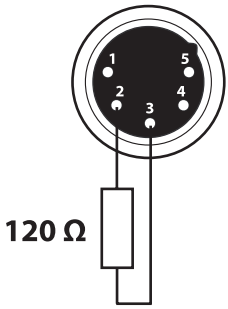
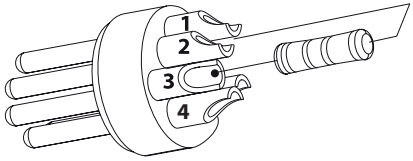


Fig.5 - Example 9 DMX channels configuration

CONSTRUCTION OF THE DMX TERMINATION

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





Example:
5 pin XLR connector

Fig.6

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.

8 - CONTROL PANEL

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

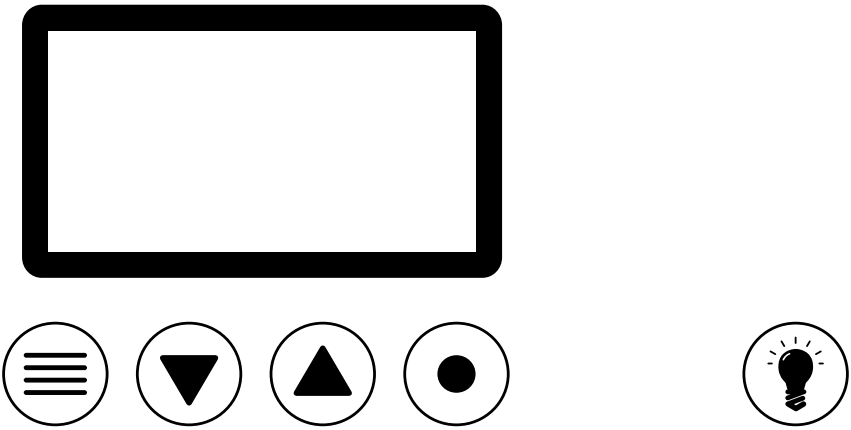


Fig.7

DISPLAY AND BUTTONS LAYOUT

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

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

9 - MENU STRUCTURE

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

	MENU					
1	**CONNECT**	DMX Address	Value (001-512)			
		DMX Mode	UNO	Tungsten	**Off** Slow Medium Fast	
				White Point	COLOUR Temperature	2700 K 2800 K 3000 K 3200 K 3400 K 3600 K 3800 K 4000 K 4200 K 4400 K 4600 K 4800 K **5000 K** 5200 K 5400 K 5600 K 6000 K 6500 K 7000 K 8000 K 9000 K 10000 K
					Tint	-25 % - **0** % - 25 %
				Preset COLOUR	*Presets see COLOUR Wheel*	
				Manual COLOUR	Red Amber Mint Green Blue Royal Blue	000 ÷ **255** 000 ÷ **255** 000 ÷ **255** 000 ÷ **255** 000 ÷ **255** 000 ÷ **255**
			DUO	Tungsten	**Off** Slow Medium Fast	
				White Point	COLOUR Temperature	2700 K 2800 K 3000 K 3200 K 3400 K 3600 K 3800 K 4000 K 4200 K 4400 K 4600 K 4800 K **5000 K** 5200 K 5400 K 5600 K 6000 K 6500 K 7000 K 8000 K 9000 K 10000 K

					Tint -25 % - **0** % - 25 %	
				Preset COLOUR	*Presets see COLOUR Wheel*	
				Manual COLOUR	Red 000 ÷ **255** Amber 000 ÷ **255** Mint 000 ÷ **255** Green 000 ÷ **255** Blue 000 ÷ **255** Royal Blue 000 ÷ **255**	
			Basic	**RGB** CMY HS		
			Standard	**RGB** CMY HS		
			Extended	**RGB** CMY HS		
2	**ADVANCED**	Dimmer Curve	Linear S-Curve **Square Law** Inverse Square Law			Select different curve behaviour of dimmer.
		Dimmer Speed	**Auto** Slow Medium Fast			*Linear dimmer behaviour.* *Dimmer curve adding long fade.* *Dimmer curve adding medium fade.* *Dimmer curve adding little fade.*
		Tungsten Emul.	**Off** Slow Medium Fast			*Emulation of halogen lamp.* *Dimmer curve adding long fade.* *Dimmer curve adding medium fade.* *Dimmer curve adding little fade.*
		LED Mode	High Brightness **High Quality**			*Priority on brightness or quality of the output.*
		LED Frequency	600 Hz **1282 Hz** 2500 Hz 5000 Hz 6400 Hz 25 kHz			*Select PWM frequency.*
		Fan Mode	Auto **Balanced** Silent Full			*Select the product Fan mode.*
		Calibration	Off **On**			*Manufacturer calibration to grant performance and color consistency.*
3	**SETUP**	Display Flip	**Regular** Top Down			*Allows you to rotate the display by 180°*
		Back Light	On **10 s** 20 s 30 s			*Allows you to select the timing after that display will switch automatically off when unactive.*
		Key Lock	Locked **Unlocked**			*Allows you lock the buttons on the control panel by a password. Press following combinations (password) in order to access to the user menu : UP, DOWN, UP, DOWN.*
		Transfer Config	**Abort** Without DMX Addr With DMX Address			*To transfer the same menu settings of one fixtures to all the other in the daisy chain, including or not the dmx address.*
4	**DMX LOST**	Blackout				*Fixture go in blackout if it lose dmx signal.*
		Hold				*Fixture hold last dmx frame if it lose dmx signal.*

		Master	Static	Dimmer	000 ÷ 255		*Select the dimmer value of the selected white point.*
				White Point	Colour Temperature	2800 K 3000 K 3200 K 3400 K 3600 K 3800 K 4000 K 4200 K 4400 K 4600 K 4800 K **5000 K** 5200 K 5400 K 5600 K 6000 K 6500 K 7000 K 8000 K 9000 K 10000 K	*Select a predefined White CCT output from the list. After enabled this mode, the unit will be automatically assigned as Master.*
					Tint	-25 % .. **0** % .. 25 %	*Select the tint value of the selected white point.*
				Preset Colour	*Presets see Colour Wheel*		*Select of the following predefined color combination and its Dimmer value. After enabled this mode, the unit will be automatically assigned as Master.*
				Manual Colour	Red Amber Mint Green Blue Royal Blue	0 ÷ 255 0 ÷ 255 0 ÷ 255 0 ÷ 255 0 ÷ 255 0 ÷ 255	*User generated color preset by assigning values to each primary color attribute. After enabled this mode, the unit will be automatically assigned as Master.*
			Effect 1	Dimmer Duration Attack Decay	0 ÷ **255** 0.0 s ÷ **30.0 s** ÷ 60.0 s 0 % ÷ **100 %** 0 % ÷ **100 %**		*Edit and choose effect 1.*
			Effect 2	Dimmer Duration Attack Decay	0 ÷ **255** 0.0 s ÷ **30.0 s** ÷ 60.0 s 0 % ÷ **100 %** 0 % ÷ **100 %**		*Edit and choose effect 2*
			Effect 3	Dimmer Duration Attack Decay	0 ÷ **255** 0.0 s ÷ **30.0 s** ÷ 60.0 s 0 % ÷ **100 %** 0 % ÷ **100 %**		*Edit and choose effect 3*
		Slave					*Set the units to be slave.*
5	**INFORMATION**	Operating Hours Lamp Hours Power Cycles Power Consumtion LED Temperature Fan Speed RDM Id Version					*View informations about product.*
6	**FACTORY SETTINGS**	**Abort** Set Default Values					*To reset the unit to factory default settings.*

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.

10 - RDM FUNCTIONS

The product can communicate using RDM (Remote Device Management) protocol over a DMX512 Networks.
RDM is a bi-directional communications protocol for use in DMX512 control systems, it is the open standard for DMX512 device configuration and status monitoring.
The RDM protocol allows data packets to be inserted into a DMX512 data stream without affecting existing non-RDM equipment. It allows a console or dedicated RDM controller to send commands to and receive messages from specific fixtures.
The PIDs in the following tables are supported in the product.

Parameter	PID	GET	SET
SUPPORTED_PARAMETERS	0x0050	x	
DEVICE_INFO	0x0060	x	x
DEVICE_MODEL_DESCRIPTION	0x0080	x	
MANUFACTURER_LABEL	0x0081	x	
DEVICE_LABEL	0x0082	x	x
FACTORY_DEFAULTS	0x0090	x	x
SOFTWARE_VERSION_LABEL	0x00c0	x	
BOOT_SOFTWARE_VERSION_ID	0x00c1	x	
BOOT_SOFTWARE_VERSION_LABEL	0x00c2	x	
DMX_PERSONALITY	0x00e0	x	x
DMX_PERSONALITY_DESCRIPTION	0x00e1	x	
DMX_START_ADDRESS	0x00f0	x	x
SENSOR_DEFINITION	0x0200	x	
SENSOR_VALUE	0x0201	x	
DEVICE_HOURS	0x0400	x	
LAMP_HOURS	0x0401	x	
LAMP_STRIKES	0x0402	x	
DEVICE_POWER_CYCLES	0x0405	x	
IDENTIFY_DEVICE	0x1000	x	x
RESET_DEVICE	0x1001		x

11 - ERROR MESSAGES

Group	Message	Type	Comment
Config	"Not Calibrated"	Error	
Temperature sensor	"Temp. Sensor failed"	Warning	checksum error ROM code
	"T: Can't read ROM code"	Error	
	"T: Can't get input"	Error	
	"T: Can't read status"	Error	
Temperature management	"Overtemperature"	Error	
	"LED Temperature"	Error	cannot read LED temperature
Transfer config	"DMX active"	Error	cannot transfer with active DMX
Flash memory	"Initializing Flash"	Information	
	"Invalid flash entry"	Warning	
	"Can't unlock flash (WR)"	Error	
	"Can't unlock flash (ER)"	Error	
	"Can't lock flash"	Error	
	"Can't load Pg1"	Error	
	"Can't load Pg2"	Error	
	"Can't load flash"	Error	

12 - DMX CHARTS

Channel	UNO	DUO	Basic	Standard	Extended
1	DIMMER COARSE	DIMMER COARSE	DDIMMER COARSE	DIMMER COARSE	DIMMER COARSE
2		DIMMER FINE	COLOUR MIX 1	DIMMER FINE	DIMMER FINE
3			COLOUR MIX 2	STROBE	STROBE
4			COLOUR MIX 3	CCT	CCT
5				COLOUR MIX 1	TINT
6				COLOUR MIX 2	COLOUR MIX 1
7				COLOUR MIX 3	COLOUR MIX 2
8				COLOUR	COLOUR MIX 3
9				CONTROL	COLOUR
10					COLOUR SATURATION
11					CTO
12					CONTROL

UNO	DUO	Basic	Standard	Extended	Function	DMX Value	Default
1	1	1	1	1	**DIMMER COARSE** 0÷100%	000 ÷ 255	000
	2		2	2	**DIMMER FINE** 0÷100%	000 ÷ 255	000
			3	3	**STROBE** Close 0,9 Hz to 20 Hz Strobing Duty Cycle Open Time: 100 ms to 25 ms Duty Cycle Closed Time: 1000 ms to 25 ms Open 0,8 Hz to 6,6 Hz Pulse-In Strobing Duty Cycle Puls-In Time: 250 ms to 50 ms Duty Cycle Closed Time: 1000 ms to 100 ms Open 0,8 Hz to 6,6 Hz Pulse-Out Strobing Duty Cycle Puls-Out Time: 250 ms to 50 ms Duty Cycle Closed Time: 1000 ms to 100 ms Open 0,9 Hz to 20 Hz Random Strobing Duty Cycle Open Time: 100 ms to 25 ms Duty Cycle Closed Time: 1000 ±500 ms to 25 ±12 ms Open	0 ÷ 1 2 ÷ 62 63 ÷ 64 64 ÷ 125 126 ÷ 127 128 ÷ 188 189 ÷ 190 191 ÷ 251 252 ÷ 255	255

			4	4	**CCT (Linear)** 2800 K 2800 - 3000 K 3000 K 3000 - 3200 K 3200 K 3200 - 3400 K 3400 K 3400 - 3600 K 3600 K 3600 - 3800 K 3800 K 3800 - 4000 K 4000 K 4000 - 4200 K 4200 K 4200-4400 K 4400 K 4400 - 4600 K 4600 K 4600 - 4800 K 4800 K 4800 - 5000 K 5000 K 5000-5200 K 5200 K 5200 - 5400 K 5400 K 5400 - 5600 K 5600 K 5600 - 6000 K 6000 K 6000 - 6500 K 6500 K 6500 - 7000 K 7000 K 7000 - 8000 K 8000 K 8000 - 9000 K 9000 K 9000 - 10000 K 10000 K	0 0 ÷ 24 24 24 ÷ 44 44 44 ÷ 62 63 63 ÷ 79 79 79 ÷ 93 93 93 ÷ 106 106 106 ÷ 118 118 118 ÷ 129 129 129 ÷ 139 139 139 ÷ 148 148 148 ÷ 156 156 156 ÷ 163 163 163 ÷ 171 171 171 ÷ 177 177 177 ÷ 189 189 189 ÷ 202 202 202 ÷ 212 213 213 ÷ 230 230 230 ÷ 244 244 244 ÷ 255 255	156
				5	**TINT (Linear)** +25 % magenta +20 % to +25 % magenta +20 % magenta +15 % to +20 % magenta +15 % magenta +10 % to +15 % magenta +10 % magenta +5 % to +10 % magenta +5 % magenta +0 % to +5 % magenta balanced +0 % to +5 % green +5 % green +5 % to +10 % green +10 % green +10 % to +15 % green +15 % green +15 % to +20 % green +20 % green +20 % to +25 % green +25 % green	0 1 ÷ 25 26 27 ÷ 50 51 52 ÷ 76 77 78 ÷ 91 92 93 ÷ 127 128 129 ÷ 152 153 154 ÷ 178 179 180 ÷ 203 204 205 ÷ 219 220 221 ÷ 254 255	128
		2	5	6	**COLOUR MIX 1** Channel Function depending on Set Colour mode	000 ÷ 255	RGB: 255 CMY: 000 HS: 000
		3	6	7	**COLOUR MIX 2** Channel Function depending on Set Colour mode	000 ÷ 255	RGB: 255 CMY: 000 HS: 000

		4	7	8	**COLOUR MIX 3** Channel Function depending on Set Colour mode	000 ÷ 255	RGB: 255 CMY: 000 HS: 000
					COLOUR		
					Open	0 ÷ 1	
					Red	2 ÷ 3	
					Green	4 ÷ 5	
					Blue	6 ÷ 7	
					Cyan	8 ÷ 9	
					Magenta	10 ÷ 11	
					Yellow	12 ÷ 13	
					Dirty White	14 ÷ 15	
					Alice Bllue	16 ÷ 17	
					Congo Blue	18 ÷ 19	
					Dark Steel Blue	20 ÷ 21	
					Deep Lavender	22 ÷ 23	
					Lilac Ting	24 ÷ 25	
					Daylight Blue	26 ÷ 27	
					Flame Red	28 ÷ 29	
					Bastard Amber	30 ÷ 31	
					Deep Orange	32 ÷ 33	
					Pale Gold	34 ÷ 35	
					Apricot	36 ÷ 37	
					Bright Blue	38 ÷ 39	
					Primary Green	40 ÷ 41	
					Special Lavender	42 ÷ 43	
					Pale Lavender	44 ÷ 45	
					Deep Golden Amber	46 ÷ 47	
					Medium Blue	48 ÷ 49	
					Bright Pink	50 ÷ 51	
					Mauve	52 ÷ 53	
					Dark Green	54 ÷ 55	
					Lee Green	56 ÷ 57	
					Dark Blue	58 ÷ 59	
					Light Blue	60 ÷ 61	
					Steel Blue	62 ÷ 63	
					Medium Blue-Green	64 ÷ 65	
					Peacock Blue	66 ÷ 67	
			8	9	Magenta	68 ÷ 69	000
					Dark Pink	70 ÷ 71	
					Middle Rose	72 ÷ 73	
					Light Salmon	74 ÷ 75	
					English Rose	76 ÷ 77	
					Light Rose	78 ÷ 79	
					Orange	80 ÷ 81	
					Deep Amber	82 ÷ 83	
					Straw	84 ÷ 85	
					Light Amber	86 ÷ 87	
					Spring Yellow	88 ÷ 89	
					Dark Yellow Green	90 ÷ 91	
					Just Blue	92 ÷ 93	
					Sky Blue	94 ÷ 95	
					Lavender	96 ÷ 97	
					Light Lavender	98 ÷ 99	
					Pink Carnation	100 ÷ 101	
					Medium Pink	102 ÷ 103	
					Light Pink	104 ÷ 105	
					Sunset Red	106 ÷ 107	
					Dark Amber	108 ÷ 109	
					Gold Amber	110 ÷ 111	
					Medium Amber	112 ÷ 113	
					Fire	114 ÷ 115	
					Surprise Peach	116 ÷ 117	
					Straw Tint	118 ÷ 119	
					Medium Yellow	120 ÷ 121	
					Lee Minus Green	122 ÷ 123	
					Pale Gold	124 ÷ 125	
					Orange	126 ÷ 127	
					Deep Straw	128 ÷ 129	
					Rose Purple	130 ÷ 131	
					Deep Purple	132 ÷ 133	
					Soft Green	134 ÷ 135	
					Reserved	136 ÷ 211	
					2800K	212 ÷ 213	

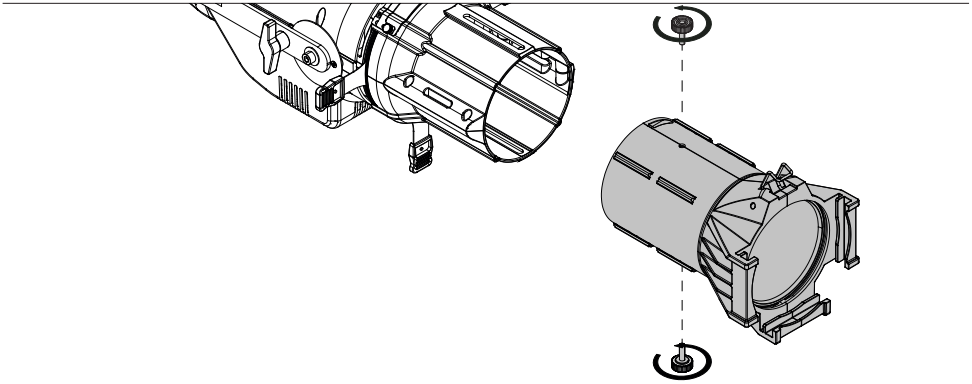
					3000K	214 ÷ 215	
					3200K	216 ÷ 217	
					3400K	218 ÷ 219	
					3600K	220 ÷ 221	
					3800K	222 ÷ 223	
					4000K	224 ÷ 225	
					4200K	226 ÷ 227	
					4400K	228 ÷ 229	
					4600K	230 ÷ 231	
					4800K	232 ÷ 233	
					5000K	234 ÷ 235	
					5200K	236 ÷ 237	
					5400K	238 ÷ 239	
					5600K	240 ÷ 241	
					6000K	242 ÷ 243	
					6500K	244 ÷ 245	
					7000K	246 ÷ 247	
					8000K	248 ÷ 249	
					9000K	250 ÷ 251	
					10000K	252 ÷ 253	
					6 x On	254 ÷ 255	
					COLOUR SATURATION (Linear)		
					100 %	0	
					100 % to 95 %	1 ÷ 12	
					95 %	13	
					95 % to 90 %	14 ÷ 25	
					90 %	26	
					90 % to 85 %	27 ÷ 38	
					85 %	39	
					85 % to 80 %	40 ÷ 50	
					80 %	51	
					80 % to 75 %	52 ÷ 63	
					75 %	64	
					75 % to 70 %	65 ÷ 76	
					70 %	77	
					70 % to 65 %	78 ÷ 89	
					65 %	90	
					65 % to 60 %	91 ÷ 101	
					60 %	102	
					60 % to 55 %	103 ÷ 114	
					55 %	115	
				10	55 % to 50 %	116 ÷ 127	000
					50 %	128	
					50 % to 45 %	129 ÷ 140	
					45 %	141	
					45 % to 40 %	142 ÷ 152	
					40 %	153	
					40 % to 35 %	154 ÷ 165	
					35 %	166	
					35 % to 30 %	167 ÷ 178	
					30 %	179	
					30 % to 25 %	180 ÷ 181	
					25 %	192	
					25 % to 20 %	193 ÷ 203	
					20 %	204	
					20 % to 15 %	205 ÷ 216	
					15 %	217	
					15 % to 10 %	218 ÷ 229	
					10 %	230	
					10 % to 5 %	231 ÷ 242	
					5 %	243	
					5 % to 0 %	244 ÷ 254	
					0 %	255	

				11	**CTO (Linear)**		000
					0 %	0	
					0 % to 5 %	1 ÷ 12	
					5 %	13	
					5 % to 10 %	14 ÷ 25	
					10 %	26	
					10 % to 15 %	27 ÷ 38	
					15 %	39	
					15 % to 20 %	40 ÷ 50	
					20 %	51	
					20 % to 25 %	52 ÷ 63	
					25 %	64	
					25 % to 30 %	65 ÷ 76	
					30 %	77	
					30 % to 35 %	78 ÷ 89	
					35 %	90	
					35 % to 40 %	91 ÷ 101	
					40 %	102	
					40 % to 45 %	103 ÷ 114	
					45 %	115	
					45 % to 50 %	116 ÷ 127	
					50 %	128	
					50 % to 55 %	129 ÷ 140	
					55 %	141	
					55 % to 60 %	142 ÷ 152	
					60 %	153	
					60 % to 65 %	154 ÷ 165	
					65 %	166	
					65 % to 70 %	167 ÷ 178	
					70 %	179	
					70 % to 75 %	180 ÷ 181	
					75 %	192	
					75 % to 80 %	193 ÷ 203	
					80 %	204	
					80 % to 85 %	205 ÷ 216	
					85 %	217	
					85 % to 90 %	218 ÷ 229	
					90 %	230	
					90 % to 95 %	231 ÷ 242	
					95 %	243	
					95 % to 100 %	244 ÷ 254	
					100 %	255	

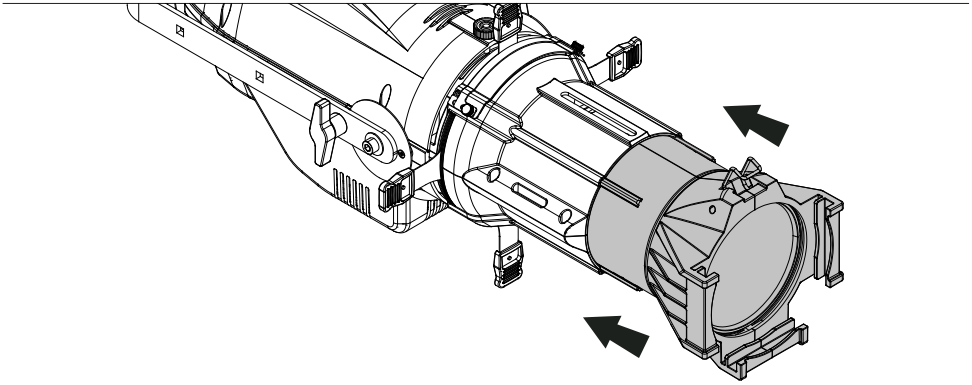
			9	12	**CONTROL** No Function/Safe Colour Mix RGB Colour Mix CMY Colour Mix HS Dimmer Mode Linear Dimmer Mode S-Curve Dimmer Mode Square Law Dimmer Mode Inverse Sq. Law Dimmer Speed Auto Dimmer Speed Slow Dimmer Speed Medium Dimmer Speed Fast Tungsten Off Tungsten Slow Tungsten Medium Tungsten Fast LED Mode Brigtness LED Mode Quality LED Frequency 625 Hz LED Frequency 1282 Hz LED Frequency 2500 Hz LED Frequency 5000 Hz LED Frequency 6400 Hz LED Frequency 25 kHz Fan Auto Fan Balanced Fan Silent Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Reserved Fan Full Calibration Off Calibration On Display Flip Regular Display Flip Top Down Display Backlight On Display Backlight 10 s Display Backlight 20 s Display Backlight 30 s DMX Lost Blackout DMX Lost Hold DMX Lost Master Static DMX Lost Master Effect 1 DMX Lost Master Effect 2 DMX Lost Master Effect 3 DMX Lost Slave Reserved Reset All Channels Control	0 ÷ 1 2 ÷ 3 4 ÷ 5 6 ÷ 7 8 ÷ 9 10 ÷ 11 12 ÷ 13 14 ÷ 15 16 ÷ 17 18 ÷ 19 20 ÷ 21 22 ÷ 23 24 ÷ 25 26 ÷ 27 28 ÷ 29 30 ÷ 31 32 ÷ 33 34 ÷ 35 36 ÷ 37 38 ÷ 39 40 ÷ 41 42 ÷ 43 44 ÷ 45 46 ÷ 47 48 ÷ 49 50 ÷ 51 52 ÷ 53 54 ÷ 55 56 ÷ 57 58 ÷ 59 60 ÷ 61 62 ÷ 63 64 ÷ 65 66 ÷ 67 68 ÷ 69 70 ÷ 71 72 ÷ 73 74 ÷ 75 76 ÷ 77 78 ÷ 79 80 ÷ 81 82 ÷ 83 84 ÷ 85 86 ÷ 87 88 ÷ 89 90 ÷ 91 92 ÷ 93 94 ÷ 95 96 ÷ 97 98 ÷ 99 100 ÷ 101 102 ÷ 103 104 ÷ 105 106 ÷ 253 254 ÷ 255	000

13 - ACCESSORIES INSTALLATION

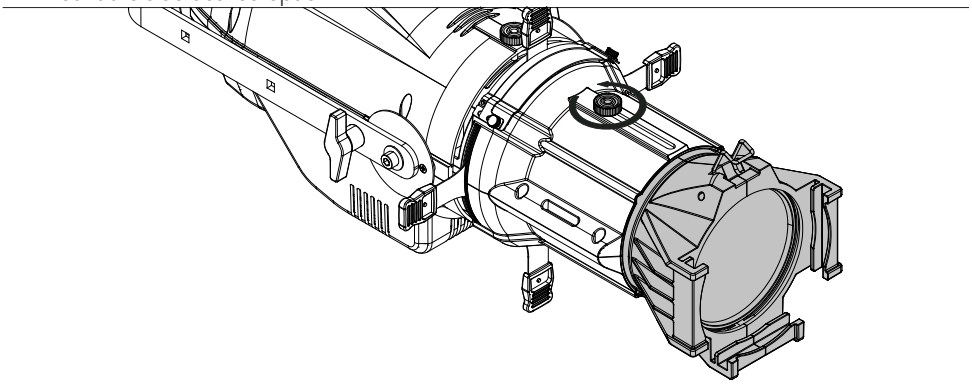
OPTIC (CODE ECLPRL)
Optics are available as optional accessories.



1. Loosen and remove the two marked knobs.



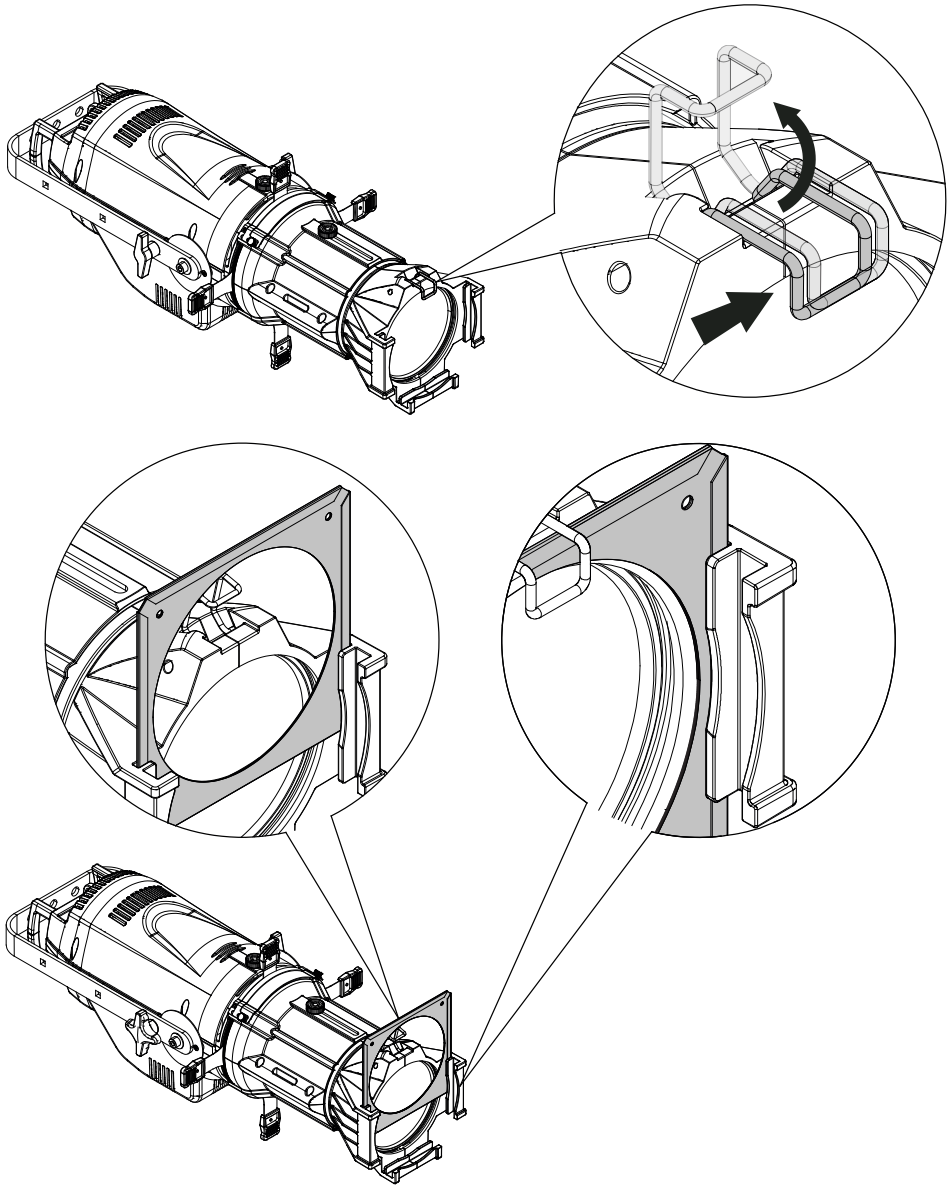
2. Mount the side desired optic.



3. Insert and tighten the knobs.

Fig.8

GEL FILTER FRAME (CODE ECLPRTPG)
Gel filter frame is available as optional accessory.



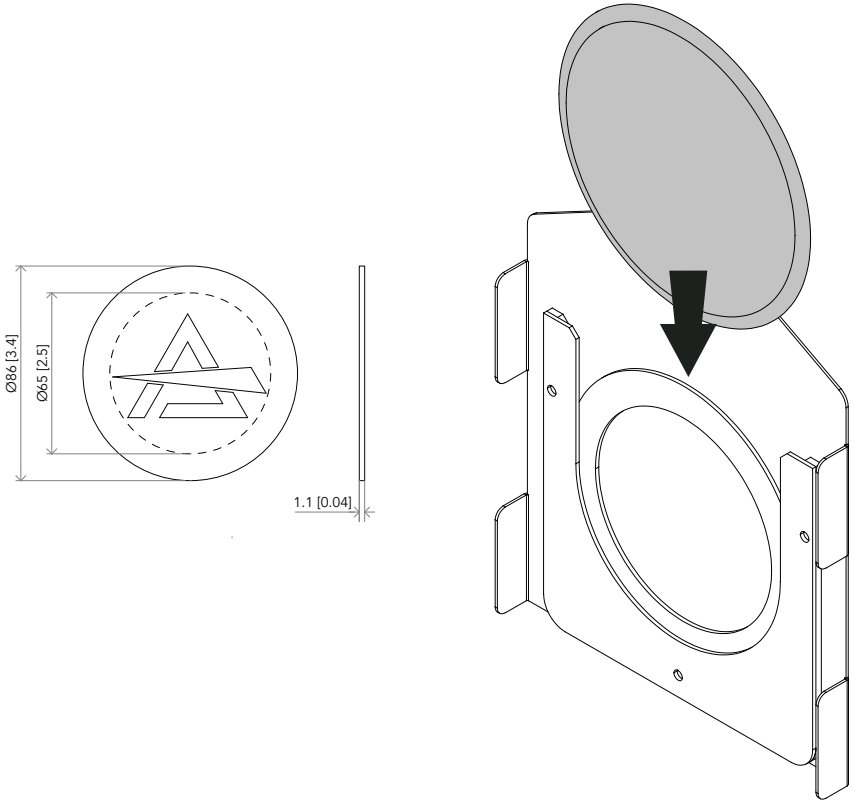
1. Push the clip, located at the top of the optics body, outwards and lift it. Then insert the filter into the marked track and close the clip, always applying an outward push.

NOTE: To remove the accessory, reverse the procedure.

Fig.9

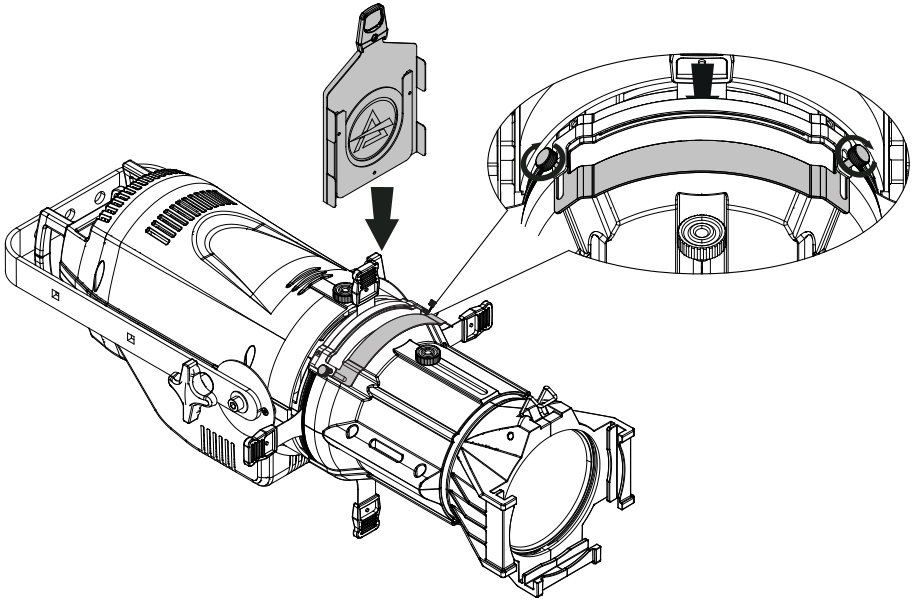
GOBO HOLDER (CODE ECLPRGH)
Gobo holder is available as optional accessory.

Gobo dimensions:
- Type B
- Ø external= 86 mm;
- Ø of image= 64.5 mm;
- Thinckness= 1.1 mm.

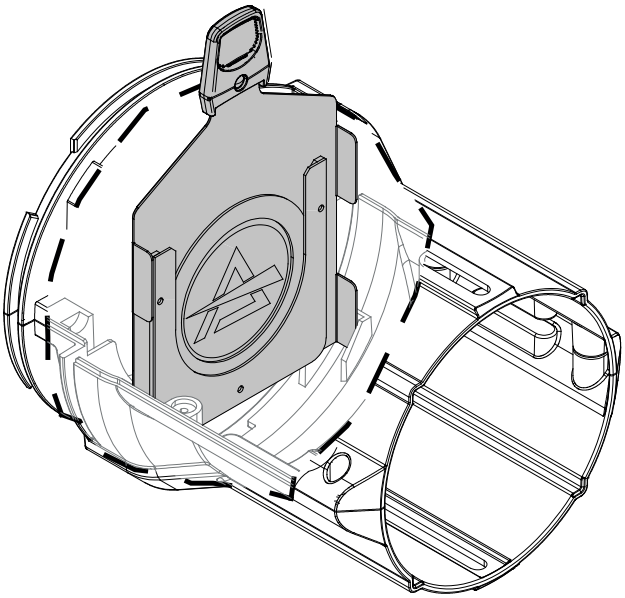


Put in place the Gobo.

Fig.10



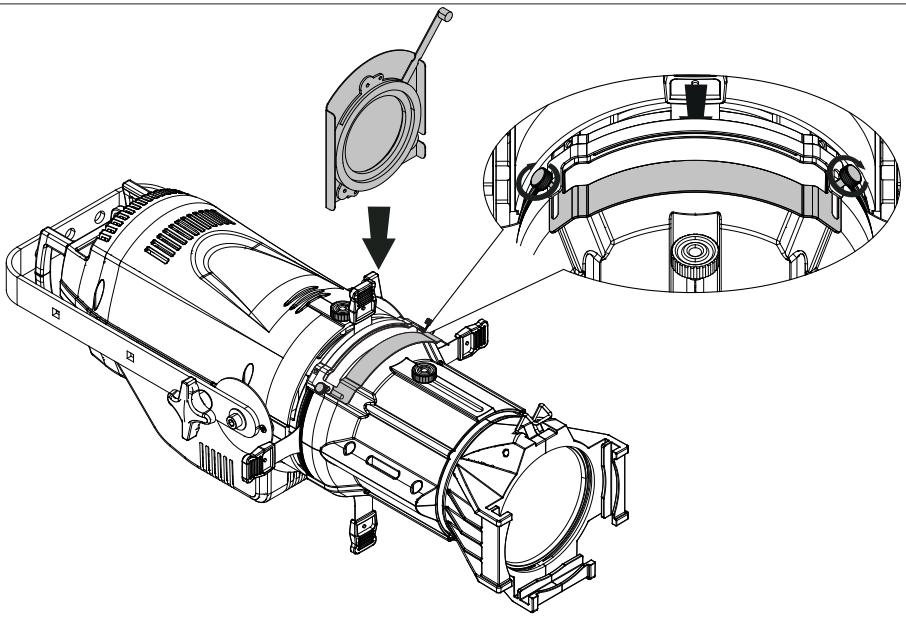
1. Loosen the marked screws. Then open the slot of the middle part.



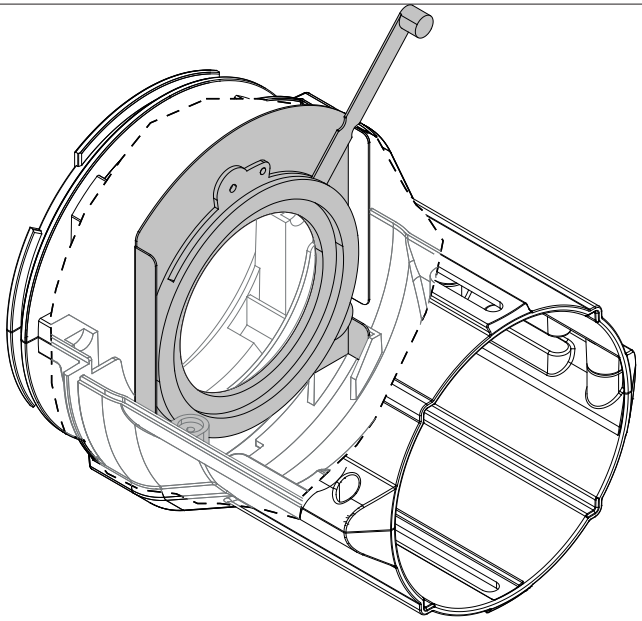
2. Insert the gobo holder into the slot. The flaps will go into the appropriate size.
NOTE: To remove the accessory, reverse the procedure.

Fig.11

STEEL IRIS DIAPHRAM (CODE ECLPRIRIS)
Steel iris diaphram is available as optional accessory.



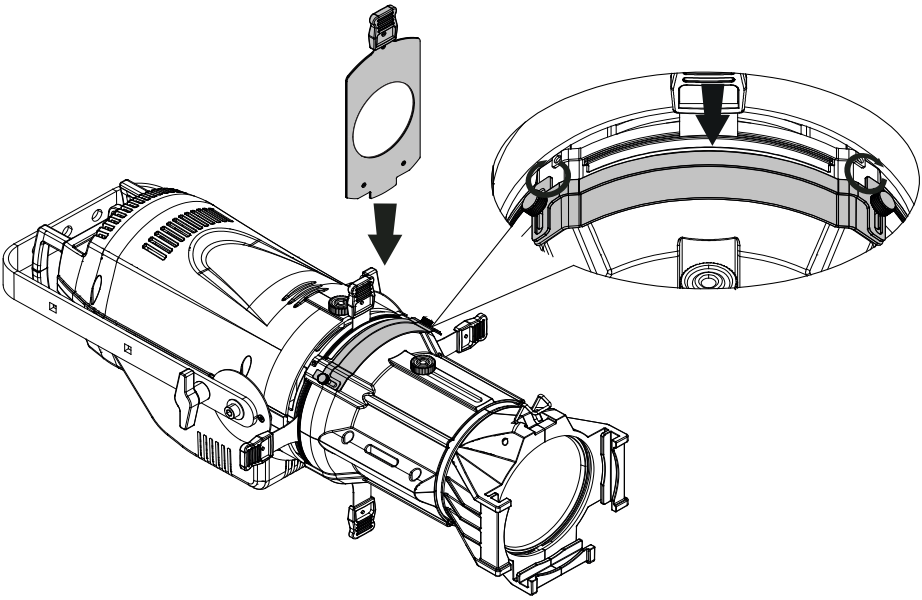
1. Loosen the marked screws. Then open the slot of the middle part.



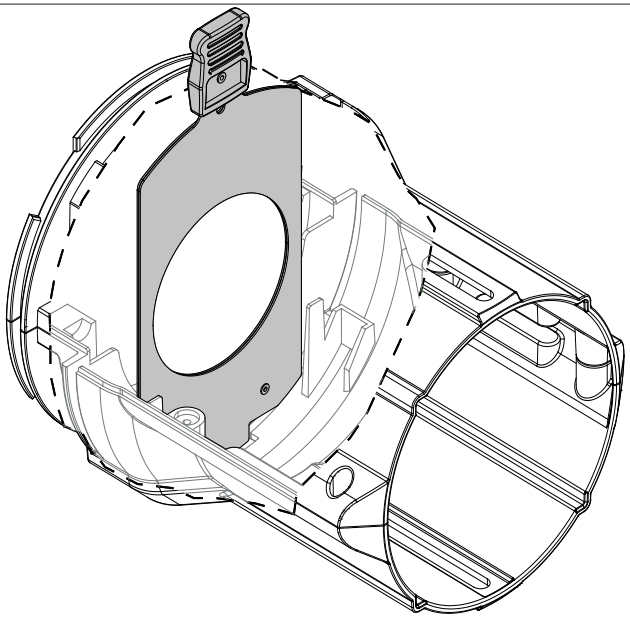
2. Insert the steel iris diaphram into the slot. The flaps will go into the appropriate size.
NOTE: To remove the accessory, reverse the procedure.

Fig.12

SOFT EDGE FILTER (CODE ECLPRSEF1)
Soft edge filter is available as optional accessory.



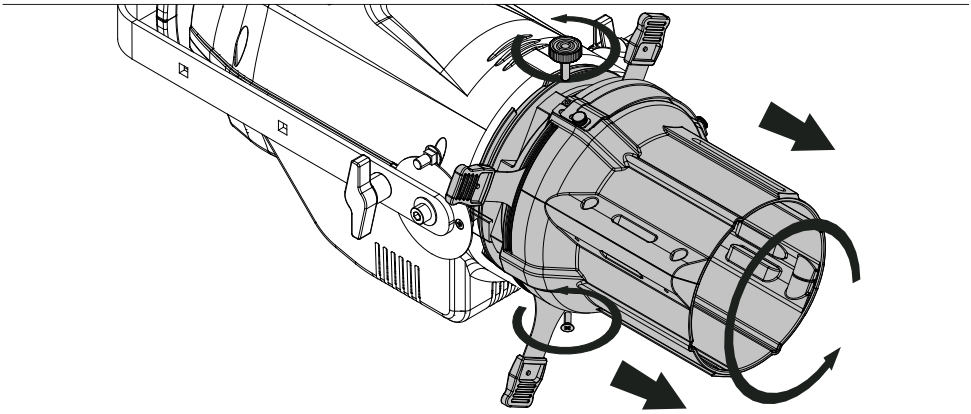
1. Loosen the marked screws. Then open the slot of the middle part.



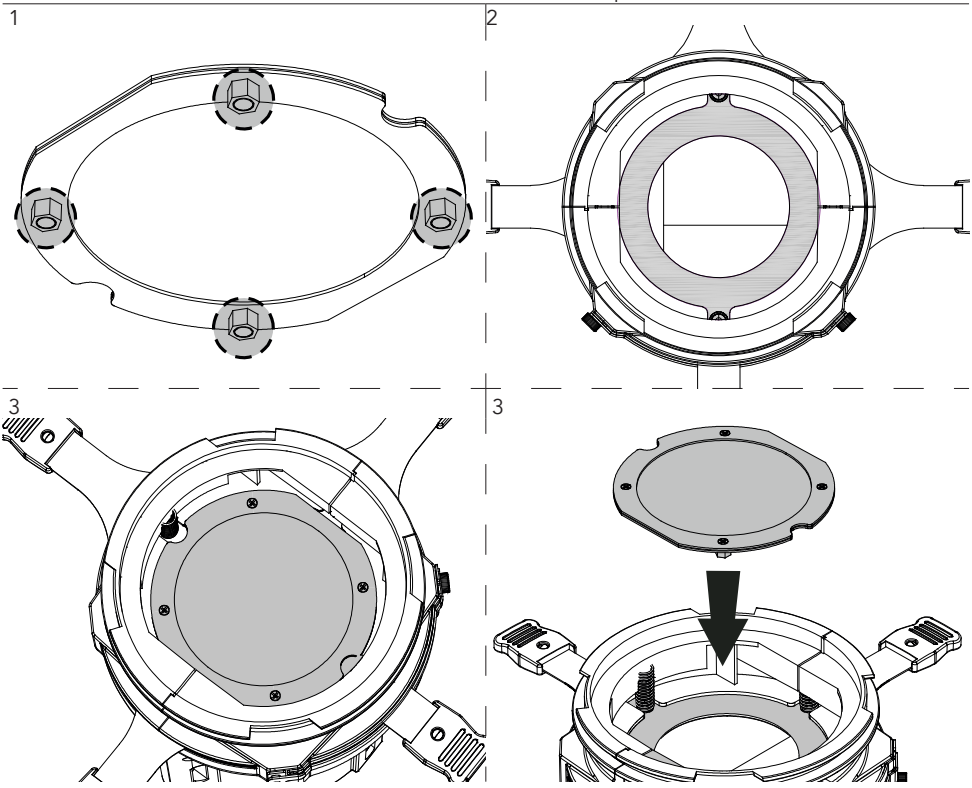
2. Insert the Soft edge filter into the slot.
NOTE: To remove the accessory, reverse the procedure.

Fig.13

SOFT FOCUS DIFFUSION (CODE ECLPRSMOOTHF1)
ECL Profiles Soft Focus Diffusion kit is available as optional accessory.



1. Loosen the marked knob and screw. Then rotate the middle part and remove it.



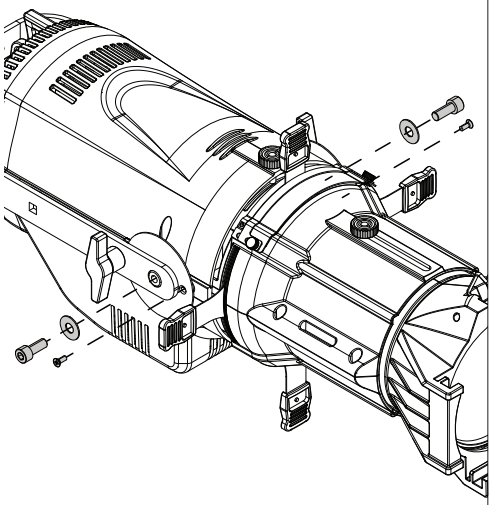
2. Insert the soft focus diffusion kit by placing the magnets (1) on the back of the framing system (2) of the middle part.

NOTE: To remove the accessory, reverse the procedure.

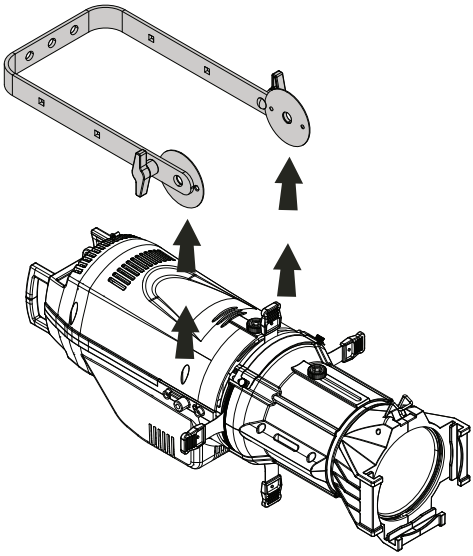
Fig.14

THE POLE OPERATED YOKE (CODE ECLPRPOYO)

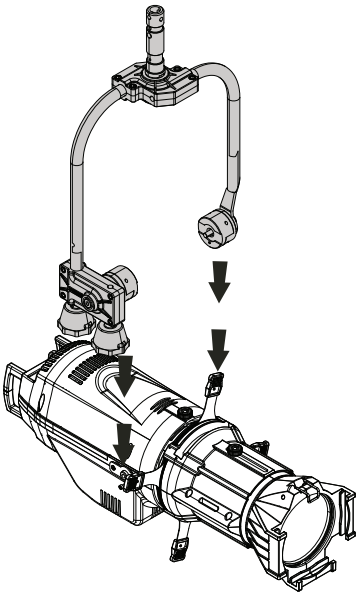
The pole operated yoke bracket is available as accessory and it can be mounted from the users, see the following drawing which shows the process for Yoke replacement.



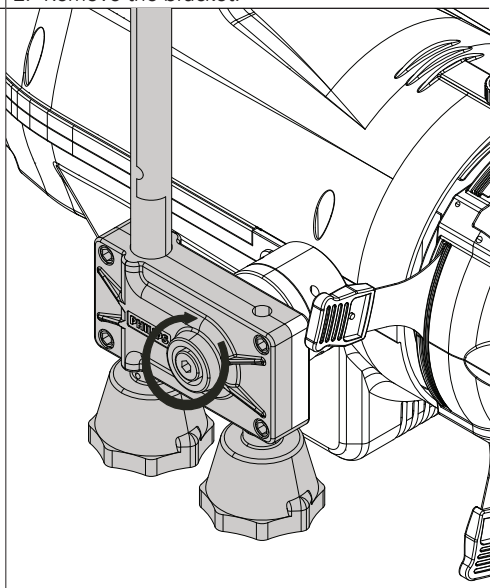
1. Loosen and remove the marked screws.



2. Remove the bracket.



3. Mount the Pole Operated Yoke bracket.



4. Tighten the screws.

NOTE: To remove the accessory, reverse the procedure.

Fig.15

14 - MAINTENANCE

MAINTENANCE AND CLEANING THE PRODUCT

WARNING: Disconnect from the mains before starting any maintenance work

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

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

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

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

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 (T5A, 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 respond correctly to the contoller.	• Bad signal connection	• Inspect connections and cables. Fix eventual bad connections. Repair or replace damaged cables.
	• Signal connection not terminated	• Insert DMX termination plug in signal output socket of the last product on the signal line.
	• Incorrect addressing of the product	• Check the product address and control settings
	• One of the product is defective and is corrupting the signal transmission on the signal line	• Unplug the XLR in and out connectors and connect them directly together to bypass one product at a time until normal operation is regained. Once found the error, have that fixture serviced by a qualified technician.
Timeout error after fixture reset.	• One or more hardware • components requires • mechanical adjustments	• Check product stored error messages for more information. Contact PROLIGHTS Service or an authorized service partner.
Mechanical effect loses position	• Mechanical hardware require cleaning, adjustment or lubrification	• Check product stored error messages for more information. Contact PROLIGHTS Service or an authorized service partner.
Light output turn OFF Intermittently	• Fixture is too hot	• Check product stored error messages. • Allow product to cool. • Clean the product and airflow filters. • Reduce ambient temperature.
	• Hardware failure (temperature sensor, fans, Light source...)	• Check product stored error messages for more information. Contact. PROLIGHTS Service or an authorized service partner.
General low light intensity	• Dirty lens assembly • Dirty or damaged filters	• Clean the fixture regularly. • Install lens assembly properly.

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

Via A.Olivetti snc
04026 - Minturno (LT) ITALY
Tel: +39 0771 72190

prolights.it
support@prolights.it