EclFresnel JrTW
EclFresnel JrPTW

LED Fresnel FC and Tunable White with colour correction, to replace 650W lamp

USER MANUAL

REV.04-05/21

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.

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

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

Visit the download area of the product page

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SAFETY INFORMATION

WARNING!

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

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

Connection to mains supply

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

Protection and Warning against electrical shock

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

Installation

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

Minimum distance of illuminated objects

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

T_a 45°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_c 60°C

Temperature of the external surface

- The surface of the fixture can reach up to 60 °C (140 °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 0 according to EN 62471.

Do not stare at the operating light source

- Do not look directly at the LED source during operation. It can be harmful to the eyes and skin.
- During Installation, operation and maintenance, be prepared for the fixture to light and move suddenly when connected to power.

Disposal

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

The products to which this manual refers comply with:

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

1 - PACKAGING

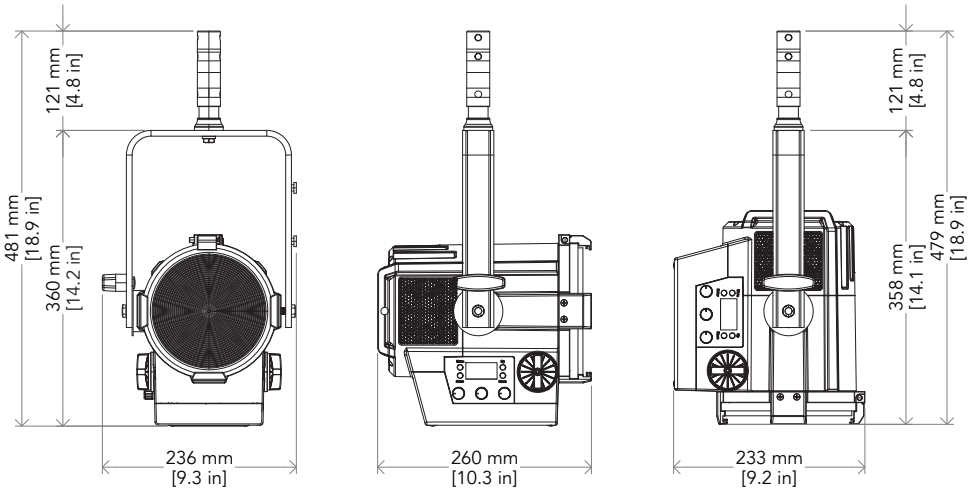
PACKAGE CONTENT

- 1x ECLFRESNELJTW / PTW;
- 1x 1,5 meters power cable (SCHUKO plug - NEUTRIK POWERCON TRUE1 IP65);
- 1x ECLFRSPG: spigot for PROLIGHTS Fresnel series;
- 1x ECLFRSJBD: barn door with 8 directional flaps to adjust the light beam;
- 1x ECLFRSJTPG: filter frame for ECLFRESNELJ series;
- User Manual.

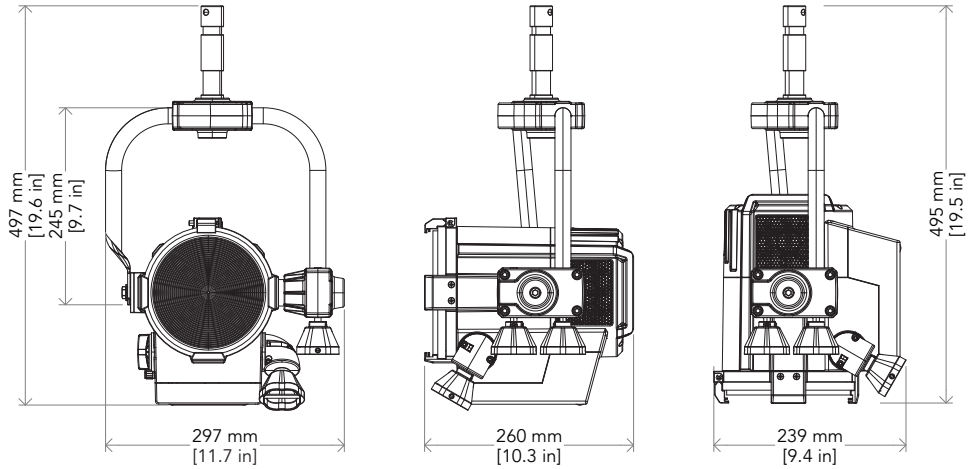
OPTIONAL ACCESSORIES

- TOUR53415L03: dmx cable HC5340. CANC5MXX XLR 5p->CANC5FXX XLR (f) 5p, L.3m;
- 958225L03: 3x2.5mm TH07 Cable, 16A 3p PwCon MXW, 16A 3p PwCon FXW, L. 3m;
- 9513FXWL03: ass. 3x2.5mm TH07 cable, 16A 3p 230V CEE plug, MENAC3FXW socket, L.5 m;
- 9533FXWL03: ass. 3x2.5mm TH07 cable, SCHUKO plug, MENAC3FXW socket, L.3m;
- RSR0630A/B: steel security cable for hanging bodies, inox steel shackle, L=60 cm, silver/black;
- C6002: slim aluminium clamp, 200 kg loading, 48-51 mm tubes, M10 bolt;
- C6040: heavy-load aluminum clamp, 200kg load, 48-51mm tubes, M10 bolt inc.;
- ECLFRSJBP4: battery pack kit for EclFresnelJ series;
- UPBOX1U: firmware uploader kit, USB IN, 3p XLR DMX OUT.

2 - TECHNICAL DRAWING

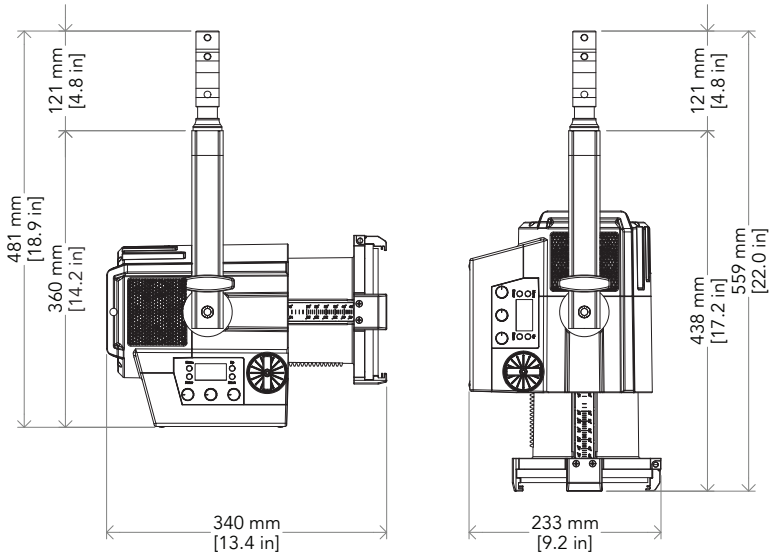


ECLFRESNELTU-DY - Weight: 6 kg / 13.2 lbs

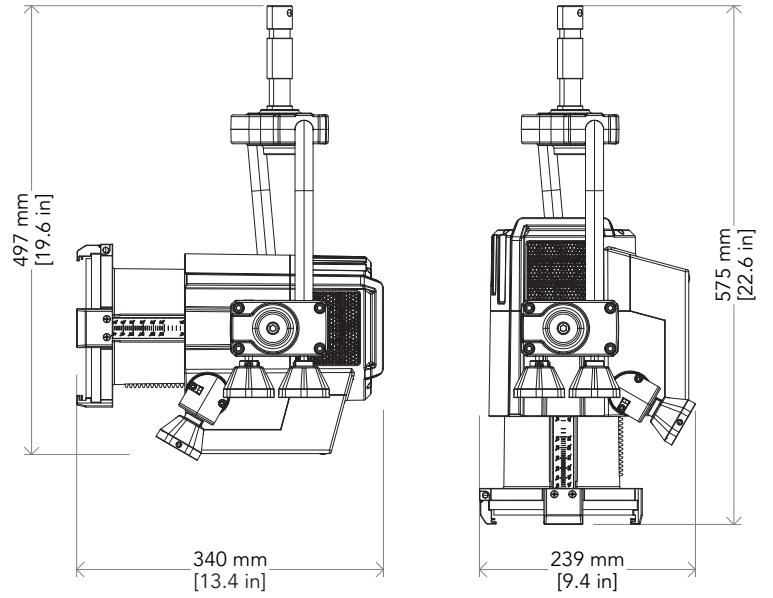


ECLFRESNELPTU-PDY - Weight: 7.5 kg - 16.5 lbs

Fig. 01



ECLFRESNELTU-DY - Weight: 6 kg / 13.22 lbs



ECLFRESNELPTU-PDY - Weight: 7.5 kg - 16.5 lbs

Fig. 02

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.

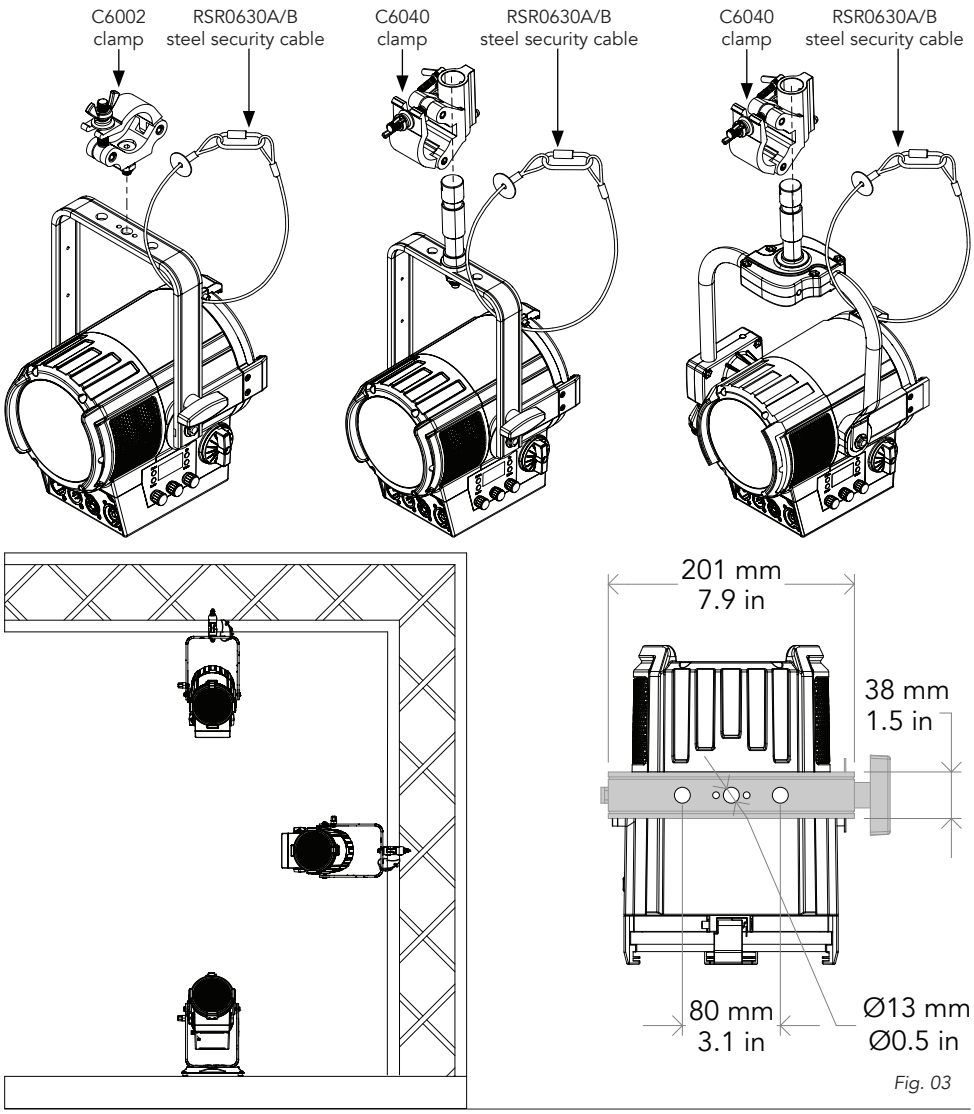


Fig. 03

4 - CONNECTION TO THE MAINS SUPPLY

WARNING: For protection from electric shock, the fixture must be earthed!
The product is equipped with auto-switching power supply that automatically adjusts to any 50-60Hz AC power source from 100-240 Volts.
If you need to install a power plug on the power cable to allow connection to power outlets, install a grounding-type (earthed) plug, following the plug manufacturer's instructions. If you have any doubts about proper installation, consult a qualified electrician.
The max power consumption is 100W.

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. BRACKET;
2. KNOB for bracket;
3. USER INTERFACE with display and ROTATORY KNOB for access to the control panel functions;
4. ZOOM KNOB;
5. POLE OPERATED BRACKET;
6. YELLOW POLE OPERATOR: Zoom operator;
7. WHITE POLE OPERATOR: Tilt operator;
8. BLUE POLE OPERATOR: Pan operator;
9. BATTERY 4pin-in;
10. POWER IN: for connection to the Mains 100-240V~/50-60Hz;
11. DMX IN (5-p XLR): 1 = GND, 2 = sign-, 3 = sign+, 4 N/C, 5 N/C;
12. DMX OUT (5-p XLR): 1 = GND, 2 = sign-, 3 = sign+, 4 N/C, 5 N/C;
13. POWER OUT: power output for connection of multiple units in series.
14. MAIN FUSE HOLDER: replace a burnt-out fuse by one of the same type only (T2A 250V);

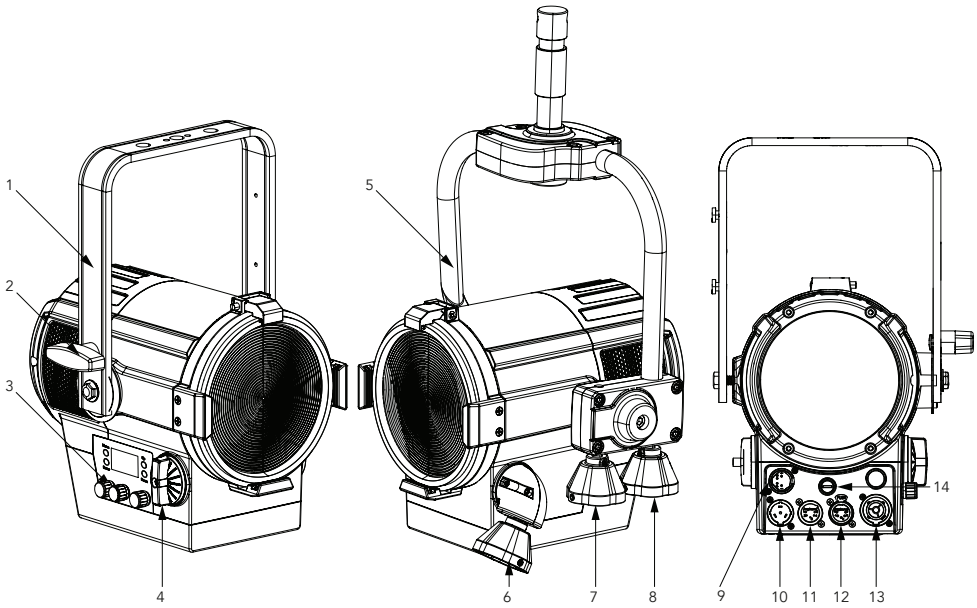


Fig. 04

7 - DMX CONNECTION

CONNECTION OF THE CONTROL SIGNAL: DMX LINE
The product has XLR sockets for DMX input and output.
The default pin-out on both socket is as the following diagram:

DMX - INPUT
XLR plug

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

DMX - OUTPUT
XLR socket

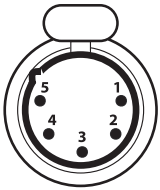


Fig. 05

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

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

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

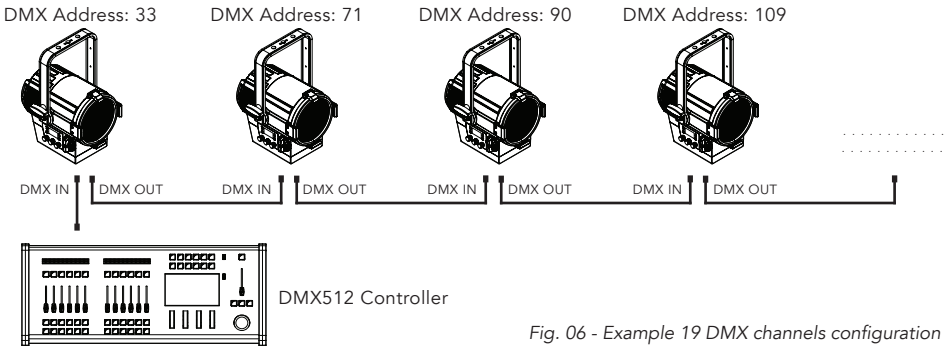
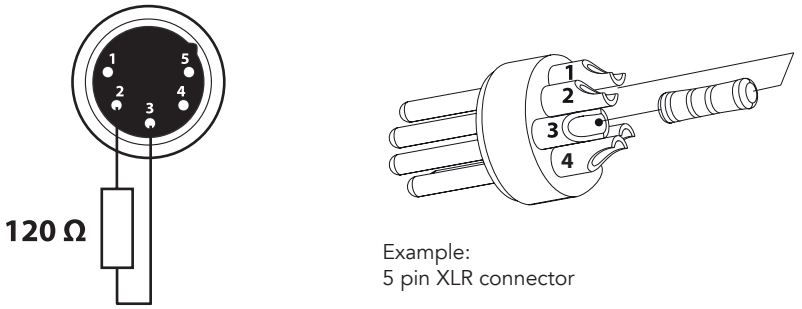


Fig. 06 - Example 19 DMX channels configuration

CONSTRUCTION OF THE DMX TERMINATION

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



Example:
5 pin XLR connector

Fig. 07

DMX ADDRESSING

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

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

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

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

To set the fixture's DMX address:

1. Press KNOB ROTATORY 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 KNOB ROTATORY by pressing it.
4. Press KNOB ROTATORY 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.

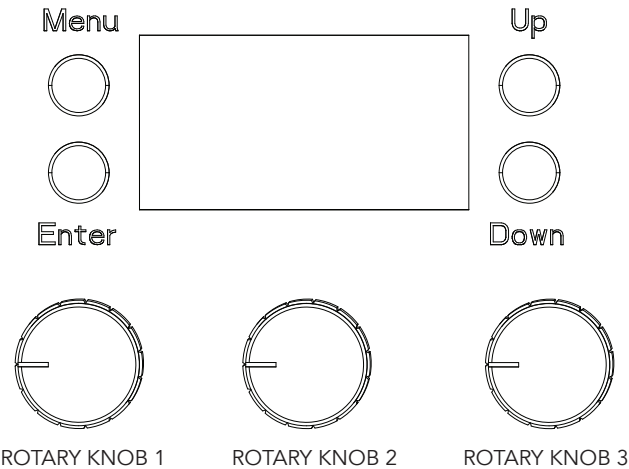


Fig. 08

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;
- ROTARY KNOB 1, 2, 3: used to control stand alone modes.

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	**001**-512		
		DMX MODE	1CH 2CH	**Amber Shift On**	
				Color Temperature CCT /HUE	
				Color Picker 71, 97 ... 777	
				Customization R G B RB O L Raw	
			5CH1		
			5CH2		
			7CH1		
			7CH2	**Color Picker** 71, 97 ... 777	
			8CH		
			9CH		
			12CH		
			13CH		
			16CH		
			19CH		
			21CH		
2	**SETUP**	SCREEN	BACKLIGHT	ON	*Allows you to select the timing after that display will switch automatically off when unactive.*
				10 s	
				20 s	
				30 s	
			FLIP DISPLAY	NO	*Allows you to rotate the display by 180°.*
				YES	
			KEY LOCK	NO	*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*
				YES	
3	**ADVANCED**	FULL ON MODE	HB		*To choose Full On mode.*
			STUDIO		
		DIMMER MODE	**OFF**		*To choose the dimmer curve.*
			DIMMER 1		
			DIMMER 2		
			DIMMER 3		

		LED FREQUENCY	600Hz		*Select PWM frequency.*
			1200Hz		
			2000Hz		
			4000Hz		
			6000Hz		
		FAN MODE	25KHz		*Select the product Fan mode.*
			AUTO		
			ON		
			OFF		
			SILENT		
		FACTORY RELOAD	NO		*To reset the unit to factory default settings.*
			YES		
4	**INFORMATION**	FIXTURE HOURS	0-9999		*To view infromation about the unit.*
		VERSION	V1.0		
		UID	15D00217****		
5	**STANDALONE**	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.*
		EFFECTS	EFFECT 1 EFFECT 2 EFFECT 3 **EFFECT 4**	SPEED 1~**100**	*Use the rotary knob 2 to select the Effect.*
		CCT			
		HSI			
		COLOR TEMPERATURE	2800K 6400K 3000K 6800K 3200K 7000K 3400K 7200K 3600K 7400K 3800K 7600K 4000K 7800K 4200K 8000K 4400K 8200K 4600K 8400K 4800K 8600K 5000K 8800K 5200K 9000K 5400K 9200K 5600K 9400K 5800K 9600K **6000K** 9800K 6200K 10000K	DIMMER 000 - **255** HUE (-25 TO +25)	

FIXED COLOR	R O G RB B L R.0 R.G R.RB R.B R.L O.G O.RB O.B O.L G.RB G.B G.L RB.B RB.L B.L	R.O.G R.O.RB R.O.B R.O.L R.G.RB R.G.B R.G.L R.RB.B R.RB.L R.B.L O.G.RB O.G.B O.G.L O.RB.B O.RB.L O.B.L G.RB.B G.RB.L G.B.L RB.B.L R.O.G.RB	R.O.G.B R.O.G.L R.O.RB.B R.O.RB.L R.O.B.L R.G.RB.B R.G.RB.L R.G.B.L R.RB.B.L O.G.RB.B O.G.RB.L O.G.B.L O.RB.B.L G.RB.B.L R.O.G.RB.B R.O.G.RB.L R.O.G.B.L R.O.RB.B.L R.G.RB.B.L O.G.RB.B.L **R.O.G.RB.B.L**	DIMMER 000 - **255**	
COLOR PICKER	**3200K** 71 97 100 101 102 103 104 105 106 107 110 111 113 115 116 117 118 119 120 121 122	124 126 128 130 132 134 135 136 137 138 139 141 144 147 151 152 156 157 158 161 164 165	166 170 174 179 180 181 182 195 197 198 200 201 202 203 204 205 206 702 730 777	DIMMER 000 - **255**	
MANUAL COLOR	Red Orange Green Royal Blue Blue Lime			DIMMER 000 - **255**	

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.

CATEGORY	PARAMETER	PID	GET	SET
Product Information	DEVICE_INFO	0x0060	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	
DMX512 Setup	DMX_PERSONALITY	0x00E0	x	x
	DMX_PERSONALITY_DESCRIPTION	0x00E1	x	
	DMX_START_ADDRESS	0x00F0	x	x
Dimmer Settings	CURVE	0x0340	x	x
	CURVE_DESCRIPTION	0x0341	x	x
	MODULATION_FREQUENCY	0x0342	x	x
	MODULATION_FREQUENCY_ DESCRIPTION	0x0343	x	
Sensors	SENSOR_DEFINITION	0x0200	x	
	SENSOR_VALUE	0x0201	x	x
Display Settings	DISPLAY_INVERT	0x0500	x	x
Control	IDENTIFY_DEVICE	0x1000	x	x
	FULL ON 0:HB Mode 1:Studio Mode	0x8217	x	x

11 - DMX CHARTS

Channel	1 CH	2 CH	5 CH 1	5 CH 2	7 CH 1	7 CH 2	8 CH
1	DIMMER	DIMMER	DIMMER	DIMMER	RED	DIMMER	COLOR PICKER
2		DIMMER SPEED MODE	CTO	DIMMER FINE	ORANGE	RED	DIMMER
3			HUE	CTO	GREEN	ORANGE	RED
4			COLOR MACRO	COLOR MACRO	ROYAL BLUE	GREEN	ORANGE
5			DIMMER SPEED MODE	DIMMER SPEED MODE	BLUE	ROYAL BLUE	GREEN
6					LIME	BLUE	ROYAL BLUE
7					DIMMER SPEED MODE	LIME	BLUE
8							LIME
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							

Channel	9 CH	12 CH	13 CH	16 CH	19 CH	21 CH
1	DIMMER	DIMMER	RED	DIMMER	DIMMER	DIMMER
2	RED	STROBE	RED FINE	DIMMER FINE	DIMMER FINE	DIMMER FINE
3	ORANGE	RED	ORANGE	RED	RED	STROBE
4	GREEN	ORANGE	ORANGE FINE	RED FINE	RED FINE	CTO
5	ROYAL BLUE	GREEN	GREEN	ORANGE	ORANGE	HUE
6	BLUE	ROYAL BLUE	GREEN FINE	ORANGE FINE	ORANGE FINE	CROSSFADE
7	LIME	BLUE	ROYAL BLUE	GREEN	GREEN	RED
8	STROBE	LIME	ROYAL BLUE FINE	GREEN FINE	GREEN FINE	RED FINE
9	DIMMER SPEED MODE	CTO	BLUE	ROYAL BLUE	ROYAL BLUE	ORANGE
10		HUE	BLUE FINE	ROYAL BLUE FINE	ROYAL BLUE FINE	ORANGE FINE
11		COLOR MACRO	LIME	BLUE	BLUE	GREEN
12		DIMMER SPEED MODE	LIME FINE	BLUE FINE	BLUE FINE	GREEN FINE
13			DIMMER SPEED MODE	LIME	LIME	ROYAL BLUE
14				LIME FINE	LIME FINE	ROYAL BLUE FINE
15				STROBE	STROBE	BLUE
16				DIMMER SPEED MODE	CTO	BLUE FINE
17					HUE	LIME
18					COLOR MACRO	LIME FINE
19					DIMMER SPEED MODE	COLOR MACRO
20						CTO ON COLORS
21						DIMMER SPEED MODE

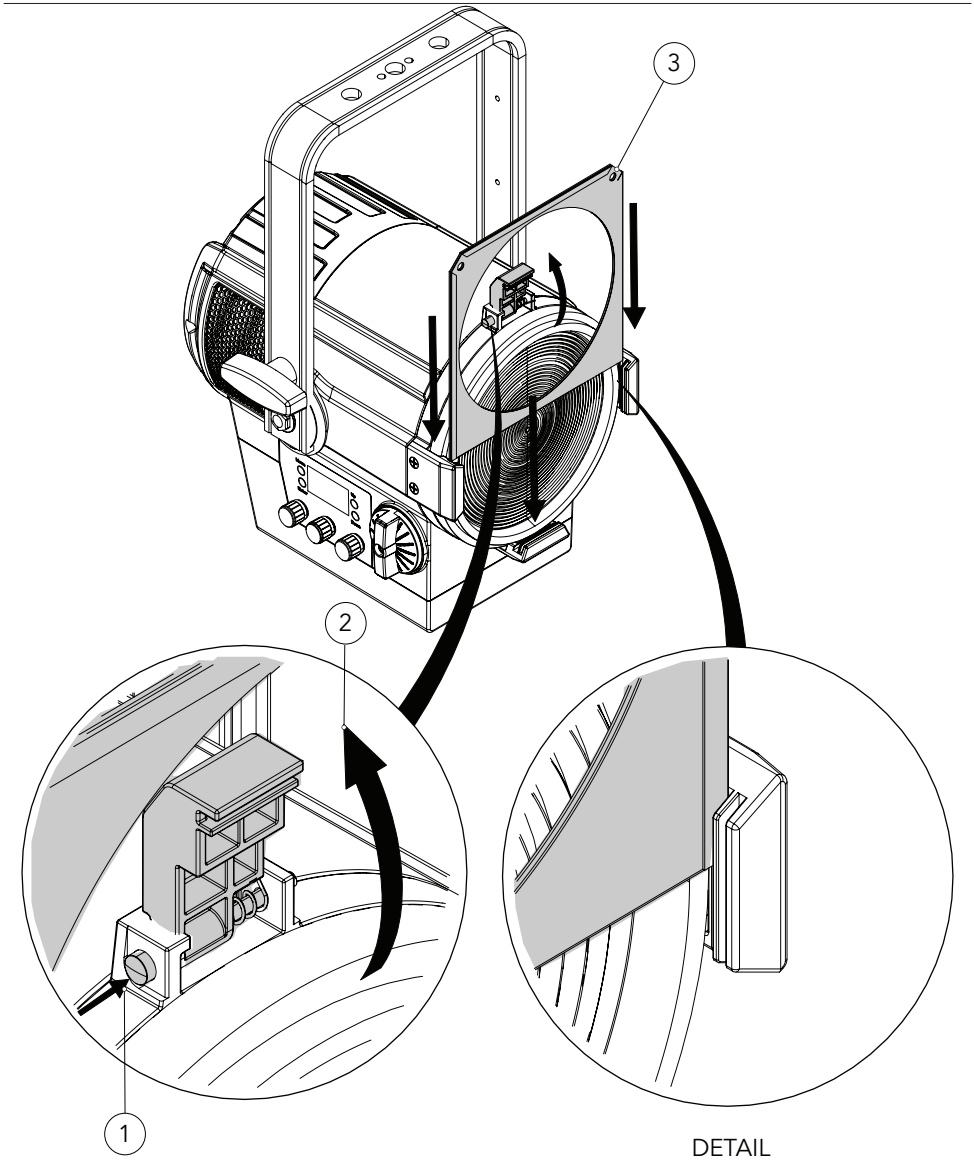
1 CH	2 CH	5 CH 1	5 CH 2	7 CH 1	7 CH 2	8 CH	9 CH	12 CH	13 CH	16 CH	19 CH	21 CH	Function	DMX Value	Def.
1		1	1		1	2	1	1		1	1	1	**DIMMER** 0~100%	 000 ÷ 255	000
			2							2	2	2	**DIMMER FINE** 0~100%	 000 ÷ 255	000
												3	**STROBE** Open Strobe slow to fast Open Random strobe slow to fast Open	 000 ÷ 030 031 ÷ 100 101 ÷ 130 131 ÷ 200 201 ÷ 255	255
		2	3					9			16	4	**CTO** 2800K - 3000K 3000K - 3200K 3200K - 3400K 3400K - 3600K 3600K - 3800K 3800K - 4000K 4000K - 4200K 4200K - 4400K 4400K - 4600K 4600K - 4800K 4800K - 5000K 5000K - 5200K 5200K - 5400K 5400K - 5600K 5600K - 5800K 5800K - 6000K 6000K - 6200K 6200K - 6400K 6400K - 6600K 6600K - 6800K 6800K - 7000K 7000K - 7200K 7200K - 7400K 7400K - 7600K 7600K - 7800K 7800K - 8000K 8000K - 8200K 8200K - 8400K 8400K - 8600K 8600K - 8800K 8800K - 9000K 9000K - 9200K 9200K - 9400K 9400K - 9600K 9600K - 9800K 9800K - 10000K	 000 ÷ 007 007 ÷ 014 014 ÷ 021 021 ÷ 028 028 ÷ 035 035 ÷ 042 042 ÷ 049 049 ÷ 056 056 ÷ 063 063 ÷ 070 070 ÷ 077 077 ÷ 084 084 ÷ 091 091 ÷ 098 098 ÷ 105 105 ÷ 112 112 ÷ 119 119 ÷ 126 126 ÷ 133 133 ÷ 140 140 ÷ 147 147 ÷ 154 154 ÷ 161 161 ÷ 168 168 ÷ 175 175 ÷ 182 182 ÷ 189 189 ÷ 196 196 ÷ 203 203 ÷ 210 210 ÷ 217 217 ÷ 224 224 ÷ 231 231 ÷ 238 238 ÷ 245 245 ÷ 255	000
		3						10			17	5	**HUE** -25 to 0 No Function 0 to +25	000 ÷ 126 127 128 ÷ 255	127
												6	**CROSSFADE** 0~100%	 000 ÷ 255	000
				1	2	3	2	3	1	3		7	**RED** 0~100%	 000 ÷ 255	000

1 CH	2 CH	5 CH 1	5 CH 2	7 CH 1	7 CH 2	8 CH	9 CH	12 CH	13 CH	16 CH	19 CH	21 CH	Function	DMX Value	Def.
									2	4	4	8	**RED FINE** 0~100%	000 ÷ 255	000
				2	3	4	3	4	3	5	5	9	**ORANGE** 0~100%	000 ÷ 255	000
									4	6	6	10	**ORANGE FINE** 0~100%	000 ÷ 255	000
				3	4	5	4	5	5	7	7	11	**GREEN** 0~100%	000 ÷ 255	000
									6	8	8	12	**GREEN FINE** 0~100%	000 ÷ 255	000
				4	5	6	5	6	7	9	9	13	**ROYAL BLUE** 0~100%	000 ÷ 255	000
									8	10	10	14	**ROYAL BLUE FINE** 0~100%	000 ÷ 255	000
				5	6	7	6	7	9	11	11	15	**BLUE** 0~100%	000 ÷ 255	000
									10	12	12	16	**BLUE FINE** 0~100%	000 ÷ 255	000
				6	7	8	7	8	11	13	13	17	**LIME** 0~100%	000 ÷ 255	000
									12	14	14	18	**LIME FINE** 0~100%	000 ÷ 255	000
		4	4					11			18	19	**COLOR MACRO** No Function Amber Shift on Color Macro	000÷002 003÷005 006÷255	000
												20	**CTO ON COLORS** 0~100%	000 ÷ 255	000
	2	5	5	7			9	12	13	16	19	21	**DIMMER SPEED MODE** Preset dimmer speed from display menu Mode off Mode1 (fast speed) Mode2 (middle speed) Mode3 (slow speed)	000 ÷ 051 052 ÷ 101 102 ÷ 152 153 ÷ 203 204 ÷ 255	000
							8	2		15	15		**STROBE** No Function Strobe slow to fast	000 ÷ 010 011 ÷ 255	000

1 CH	2 CH	5 CH 1	5 CH 2	7 CH 1	7 CH 2	8 CH	9 CH	12 CH	13 CH	16 CH	19 CH	21 CH	Function	DMX Value	Def.
						1							**COLOR PICKER** No Funciton 3200K 71 97 100 101 102 103 104 105 106 107 110 111 113 115 116 117 118 119 120 121 122 124 126 128 130 132 134 135 136 137 138 139 141 144 147 151 152 156 157 158 161 164 165 166 170 174 179 180 181 182 195 197 198 200 201 202 203 204 205 206 702 730 777	000 ÷ 000 001 ÷ 003 004 ÷ 007 008 ÷ 011 012 ÷ 015 016 ÷ 019 020 ÷ 023 024 ÷ 027 028 ÷ 031 032 ÷ 035 036 ÷ 039 040 ÷ 043 044 ÷ 047 048 ÷ 051 052 ÷ 055 056 ÷ 059 060 ÷ 063 064 ÷ 067 068 ÷ 071 072 ÷ 075 076 ÷ 079 080 ÷ 083 084 ÷ 087 088 ÷ 091 092 ÷ 095 096 ÷ 099 100 ÷ 103 104 ÷ 107 108 ÷ 111 112 ÷ 115 116 ÷ 119 120 ÷ 123 124 ÷ 127 128 ÷ 131 132 ÷ 135 136 ÷ 139 140 ÷ 143 144 ÷ 147 148 ÷ 151 152 ÷ 155 156 ÷ 159 160 ÷ 163 164 ÷ 167 168 ÷ 171 172 ÷ 175 176 ÷ 179 180 ÷ 183 184 ÷ 187 188 ÷ 191 192 ÷ 195 196 ÷ 199 200 ÷ 203 204 ÷ 207 208 ÷ 211 212 ÷ 215 216 ÷ 219 220 ÷ 223 224 ÷ 227 228 ÷ 231 232 ÷ 235 236 ÷ 239 240 ÷ 243 244 ÷ 247 248 ÷ 251 252 ÷ 255	000

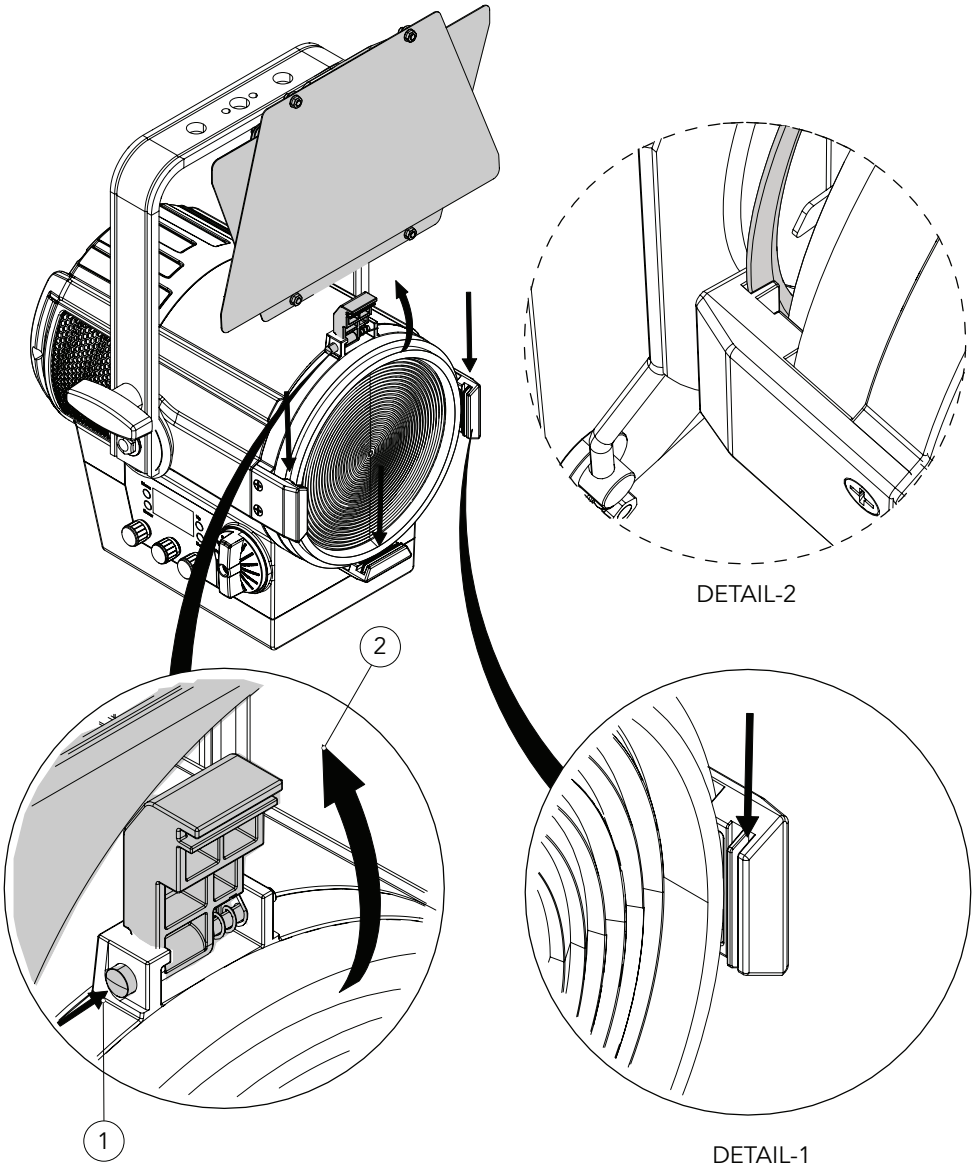
12 - ACCESSORIES INSTALLATION

FILTER FRAME (CODE ECLFRSJTPG - OPTIONAL)



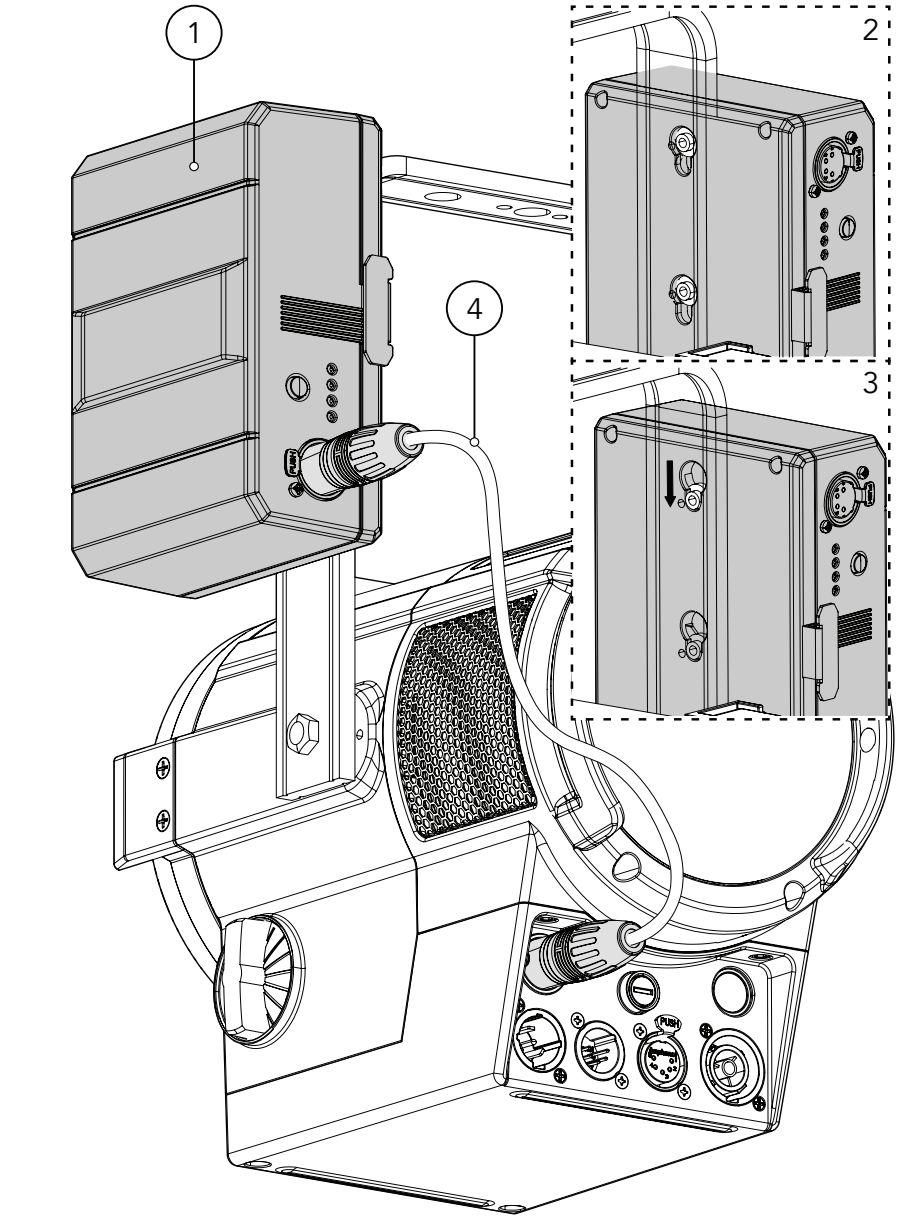
Press the pin (1) and the snap will automatically open upwards (2). Insert the gel filter frame (3) into the gel frame lock (DETAIL) and close down the snap.
NOTE: To remove the accessory, reverse the procedure.

Fig. 09



Press the pin (1) and the snap will automatically open upwards (2). Insert the barn door (3) into the gel frame lock (DETAIL-1) throught the holder assembly of the barn door (DETAIL-2). Then close down the snap.
NOTE: To remove the accessory, reverse the procedure.

Fig.10



1. Mount the battery pack (1) by fixing one of the two holes to one of the two battery holders (2) on the unit bracket, and push it down (3). Then connect the battery pack to the unit with the 4-pole connector (4).

NOTE: To remove the accessory, reverse the procedure.

Fig.11

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.
- 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 (T2A 250V).

VISUAL CHECK OF PRODUCT HOUSING

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

TROUBLESHOOTING

Problems	Possible causes	Checks and remedies
Product doesn't power ON	• No power to the product.	• Check that power is switched ON and cables are plugged in.
	• Fuse blown or internal fault.	• Check if the Fuse is intact and eventually replace it if necessary. • Contact the PROLIGHTS Service or authorized service partner. Do not remove parts and/or covers, or carry out any repairs or service that are not described in this Safety and User Manual unless you have both authorization from PROLIGHTS and the service documentation.
Product reset correctly but does not respond correctly to the contoller.	• Bad signal connection.	• Inspect connections and cables. Fix eventual bad connections. Repair or replace damaged cables.
	• Signal connection not terminated.	• Insert DMX termination plug in signal output socket of the last product on the signal line.
	• Incorrect addressing of the product.	• Check the product address and control settings.
	• One of the product is defective and is corrupting the signal transmission on the signal line.	• Unplug the XLR in and out connectors and connect them directly together to bypass one product at a time until normal operation is regained. Once found the error, have that fixture serviced by a qualified technician.
Timeout error after fixture reset.	• One or more hardware components requires mechanical adjustments.	• Check product stored error messages for more information. Contact PROLIGHTS Service or an authorized service partner.
Mechanical effect loses position	• Mechanical hardware require cleaning, adjustment or lubrification	• Check product stored error messages for more information. Contact PROLIGHTS Service or an authorized service partner.
Light output turn OFF Intermittently	• Fixture is too hot	• Check product stored error messages. • Allow product to cool. • Clean the product and airflow filters. • Reduce ambient temperature.
	• Hardware failure (temperature sensor, fans, Light source...).	• Check product stored error messages for more information. Contact. PROLIGHTS Service or an authorized service partner.
General low light intensity	• Dirty lens assembly. • Dirty or damaged filters.	• Clean the fixture regularly. • Install lens assembly properly.

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

Note

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