PROLIGHTS

EclDisplay UNFC
EclDisplay DATFC

40W RGB+WW LED gallery light



USER MANUAL

Rev.12 - 02/24

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

ECLDISPLAYUNFC **ECLDISPLAYDATFC**



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SAFETY INFORMATION



WARNING!

- See https://www.prolights.it/product/ECLDISPLAYUNFC#download / https://www.prolights.it/product/ECLDISPLAYDATFC#download for installation instructions.
- Please read carefully the instruction reported in this section before installing, powering, operating or servicing the product and observe the indications also for its future handling.



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



Connection to mains supply

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



Protection and Warning against electrical shock

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



Installation

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



Minimum distance of illuminated objects

- The projector needs to be positioned so that the objects hit by the beam of light are at least 0.2 meters (0.65 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 65°C

Temperature of the external surface

- The surface of the fixture can reach up to 65 °C (149 °F) during operation. Avoid contact with people and materials.



Photobiological safety

- This device emits potentially dangerous optical radiation and is identified in the category of Risk Group 1 according to EN 62471.



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.



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).

The products to which this manual refers comply with:

- UL 1573 + CSA C22.2 No. 166 - Stage and Studio Luminaires and Connector Strips.
- UL 8750 + CSA C22.2 No.250 13-20 / Clause - 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

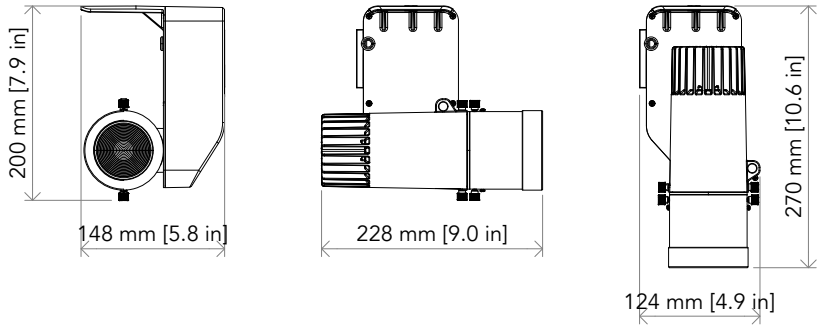
PACKAGE CONTENT
- 1x ECLDISPLAYUNFC or 1x ECLDISPLAYDATFC;
- User Manual.

2 - OPTIONAL ACCESSORIES

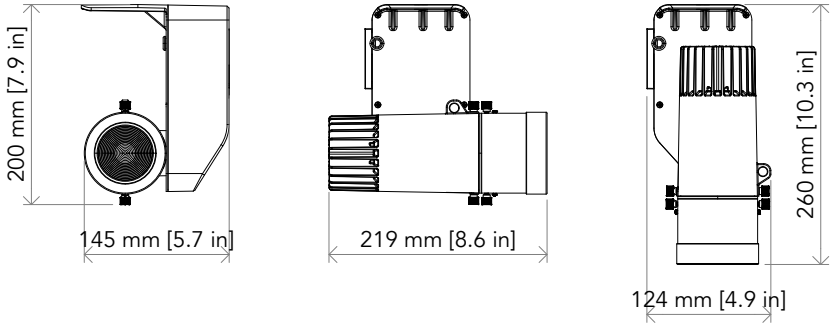
DEDICATED ACCESSORIES
Check the updated accessories list, description and informations of the product at the following link:
ECLDISPLAYUNFC: https://www.prolights.it/product/ECLDISPLAYUNFC#accessories
ECLDISPLAYDATFC: https://www.prolights.it/product/ECLDISPLAYDATFC#accessories

NORDIC ALUMINUM TRACK
NOTE: the final terms "2" and "3" in the codes indicate the corresponding color variant in black and white respectively.
- NAXTSA682/3: global Pulse 3-Circuit MULTI Adapter, 10A 100N Slot connection, black/white;
- NAGAC6002/3: global Pulse DALI 3-Circuit Adapters, 10A 100N Slot connection, black/white;
- NAXTSA57129: global Pulse Rotating Nipples 3-Circuit Adapters, M10, H 12MM;
- NAXTSA55129: global Pulse Rotating Nipples 3-Circuit Adapters, M13, H 12mm, D 9mm;
- NAGAM109: global Pulse Nut M10 for NAXTSA57129;
- NAGAM139: global Pulse Nut M13 for NAXTSA55129;
- NAXTSC61002/3: global Pulse XTSC Lighting Track, 3 circuit DALI, 1000mm, black/white;
- NAXTSC62002/3: global Pulse XTSC Lighting Track, 3 circuit DALI, 2000mm, black/white;
- NAXTSC63002/3: global Pulse XTSC Lighting Track, 3 circuit DALI, 3000mm, black/white;
- NAXTSC64002/3: global Pulse XTSC Lighting Track, 3 circuit DALI, 4000mm, black/white;
- NAXTSC6112/3: global Pulse XTS Connector 3-CCT DALI end feed, earth right, black/white;
- NAXTSC6122/3: global Pulse XTS Connector 3-CCT DALI end feed, earth left, black/white;
- NAXTSC6142/3: global Pulse XTS Connector 3-CCT DALI middle feed, black/white;
- NAXTSC6232/3: global Pulse XTS Connector 3-CCT DALI flexible corner connector, black/white;
- NAXTSNC6342/3: global Pulse XTSN Connector 3-CCT DALI L connector, earth right, black/white;
- NAXTSNC6352/3: global Pulse XTSN Connector 3-CCT DALI L connector, earth left, black/white;
- NAXTSNC6362/3: global Pulse XTSN Connector 3-CCT DALI T connector, earth right/right, black/white;
- NAXTSNC6372/3: global Pulse XTSN Connector 3-CCT DALI T connector, earth left/left, black/white;
- NAXTSNC6382/3: global Pulse XTSN Connector 3-CCT DALI X connector, black/white;
- NAXTSNC6392/3: global Pulse XTSN Connector 3-CCT DALI T connector, earth right/left, black/white;
- NAXTSNC6402/3: global Pulse XTSN Connector 3-CCT DALI T connector, earth left/right, black/white;
- NAXTS412/3: global Pulse XTS Connector 3-CCT DALI END cap, black/white;
- NASPW12SK215M: global Pulse Track clip wire suspension set 1.5m, 150N, black;
- NASPW12SK25M: global Pulse Track clip wire suspension set 5m, 150N, black;
- NASPW12SK315M: global Pulse Track clip wire suspension set 1.5m, 150N, white;
- NASPW12SK35M: global Pulse Track clip wire suspension set 5m, 150N, white;
- NASKB122/3: global Pulse Track Mounting Clamp for Rod and Wire, 200N, black/white;
- NAXTSC6212/3: global Pulse XTS Connector 3-CCT DALI straight connector, black/white.

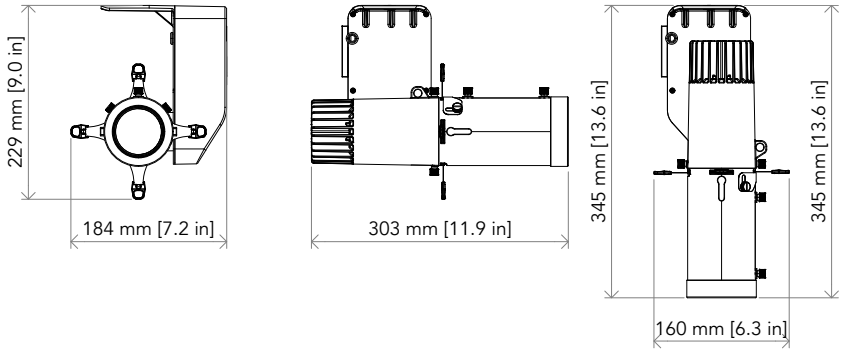
3 - TECHNICAL DRAWING



Weight: 2.01 kg - 4.43 lbs *ECLDISPLAYUNFC with ECLDISPWASHL1530*

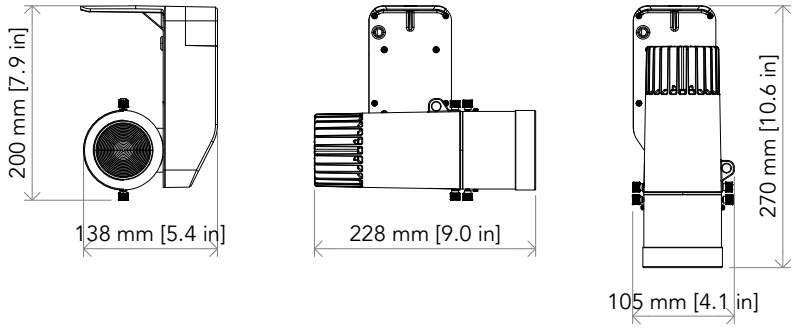


Weight: 2.00 kg - 4.41 lbs *ECLDISPLAYUNFC with ECLDISPWASHL2550*

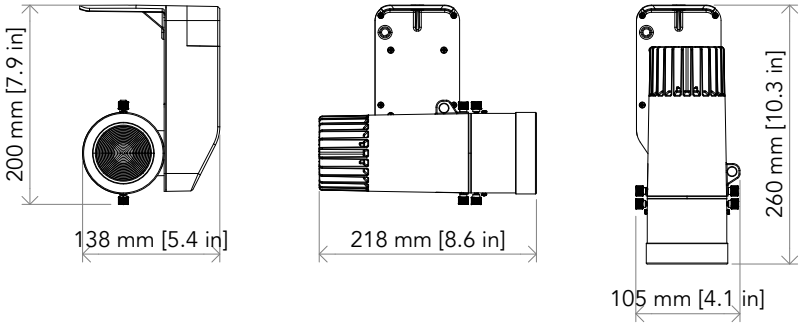


Weight: 2.18 kg - 4.80 lbs *ECLDISPLAYUNFC with ECLDISPPRZL2040*

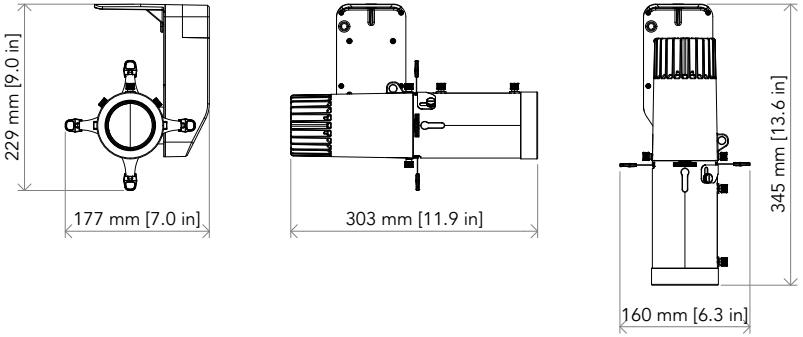
Dimensions are in mm / in - Fig. 01



Weight: 1.78 kg - 3.92 lbs *ECLDISPLAYDATFC with ECLDISPWASHL1530*

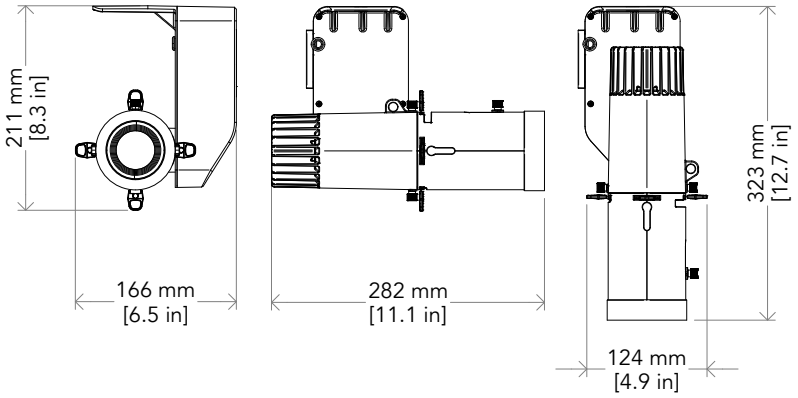


Weight: 1.77 kg - 3.90 lbs *ECLDISPLAYDATFC with ECLDISPWASHL2550*



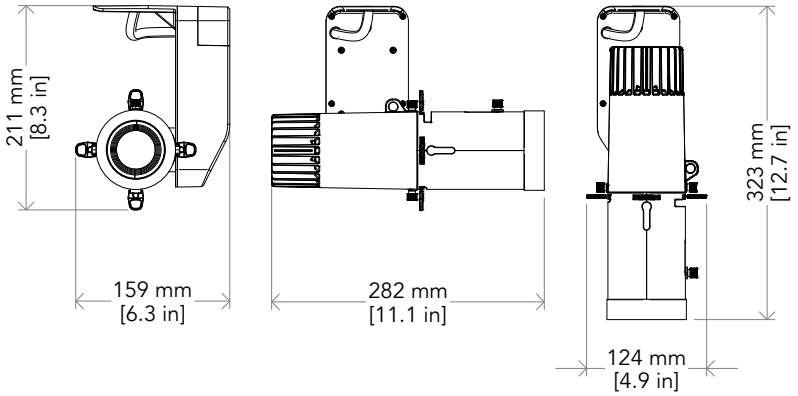
Weight: 1.95 kg - 4.29 lbs *ECLDISPLAYDATFC with ECLDISPPRZL2040*

Dimensions are in mm / in - Fig. 02



Weight: 2.38 kg - 5.24 lbs

ECLDISPLAYUNFC with ECLDISPPRHDL18-36-50

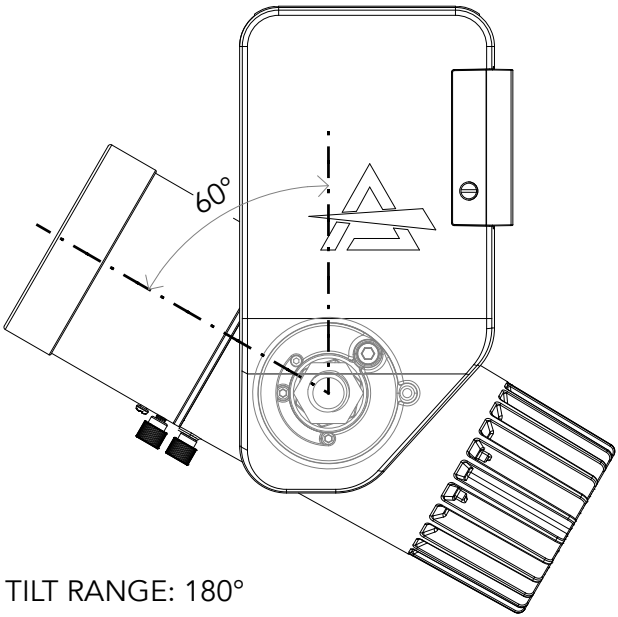


Weight: 2.15 kg - 4.74 lbs

ECLDISPLAYDATFC with ECLDISPPRHDL18-36-50

Dimensions are in mm / in

4 - TILT RANGE



TILT RANGE: 180°

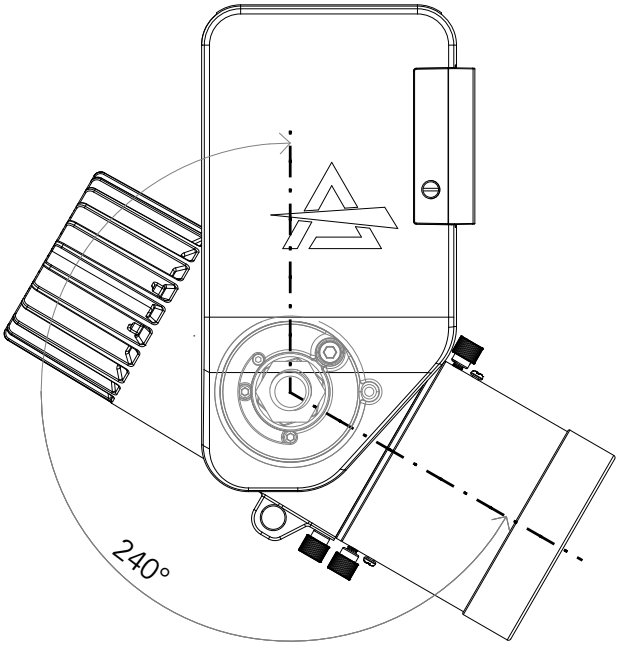


Fig. 03

5 - INSTALLATION

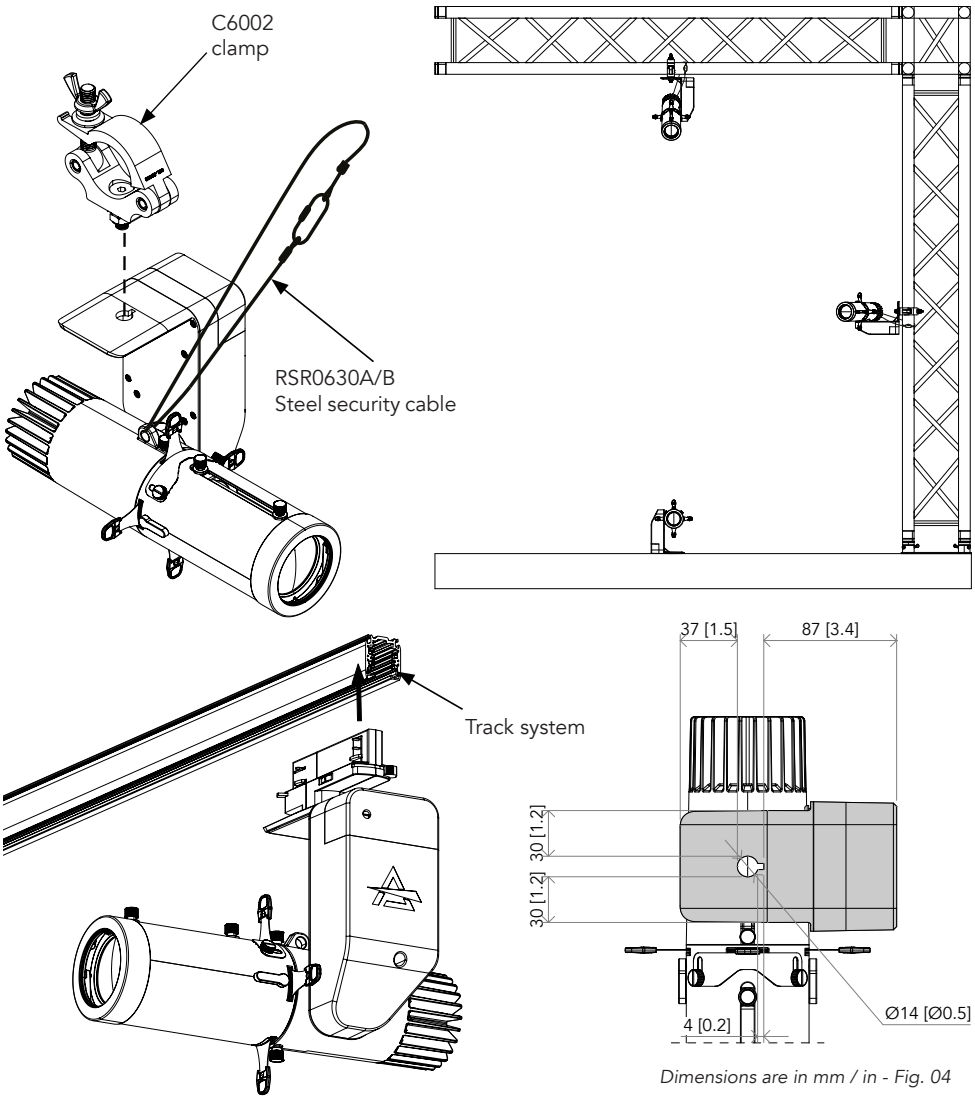
MOUNTING

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.

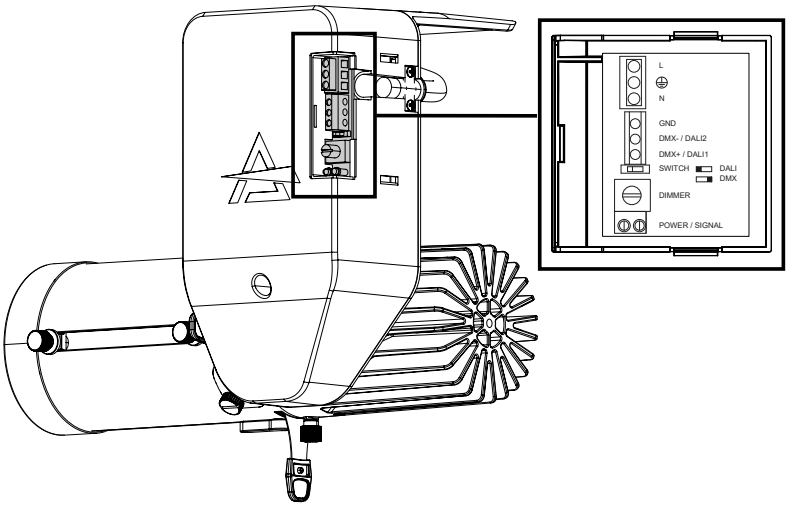


Dimensions are in mm / in - Fig. 04

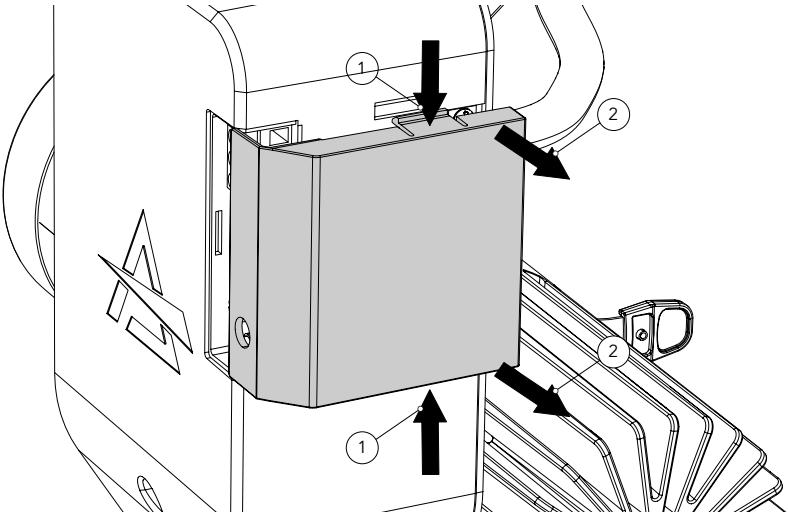
6 - CONNECTION TO THE MAINS SUPPLY

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 35W.

1 **ECLDISPLAYUN**

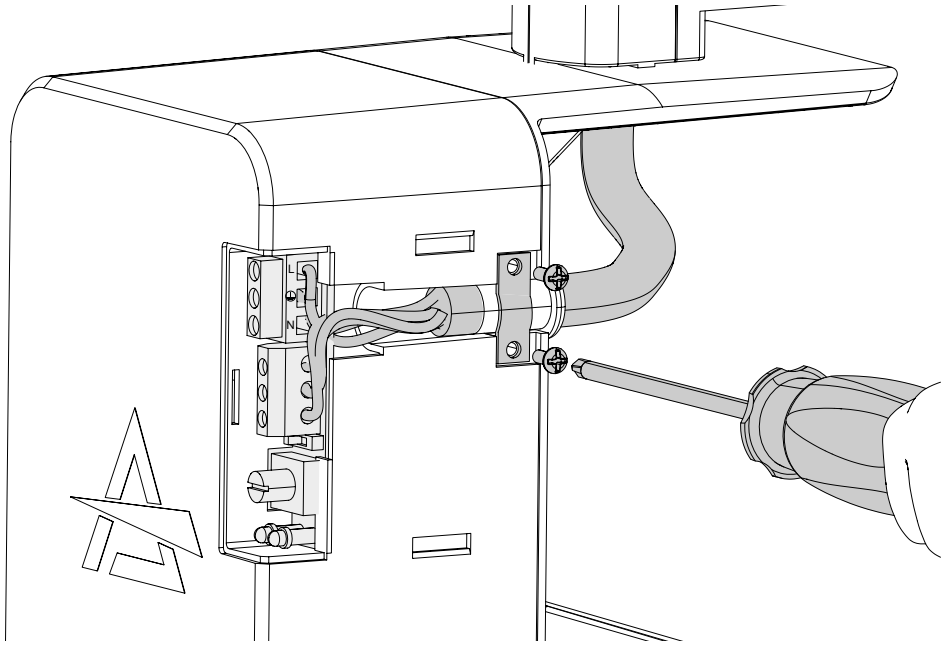


2



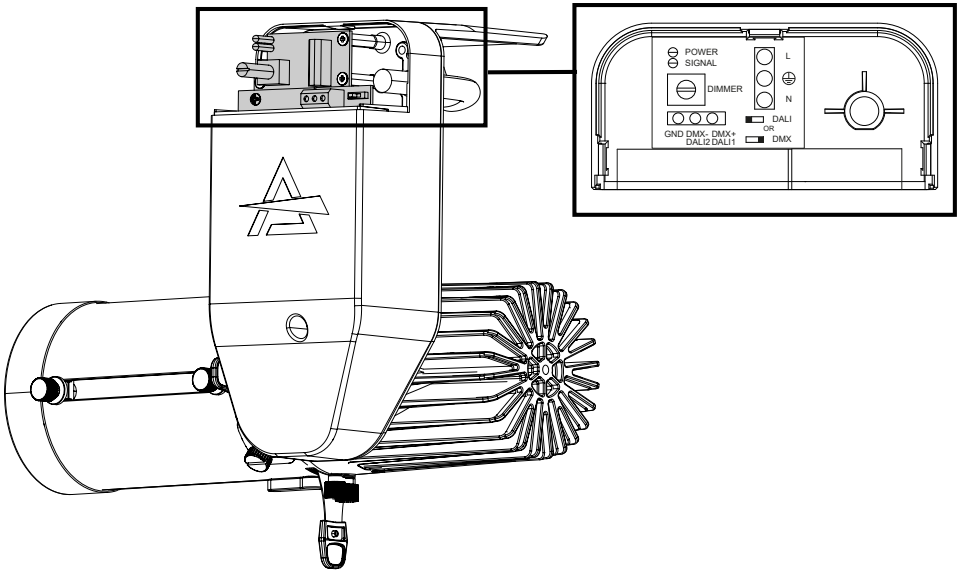
Press the top and bottom sides of the cage at the indicated point (1). Then remove it (2).

3

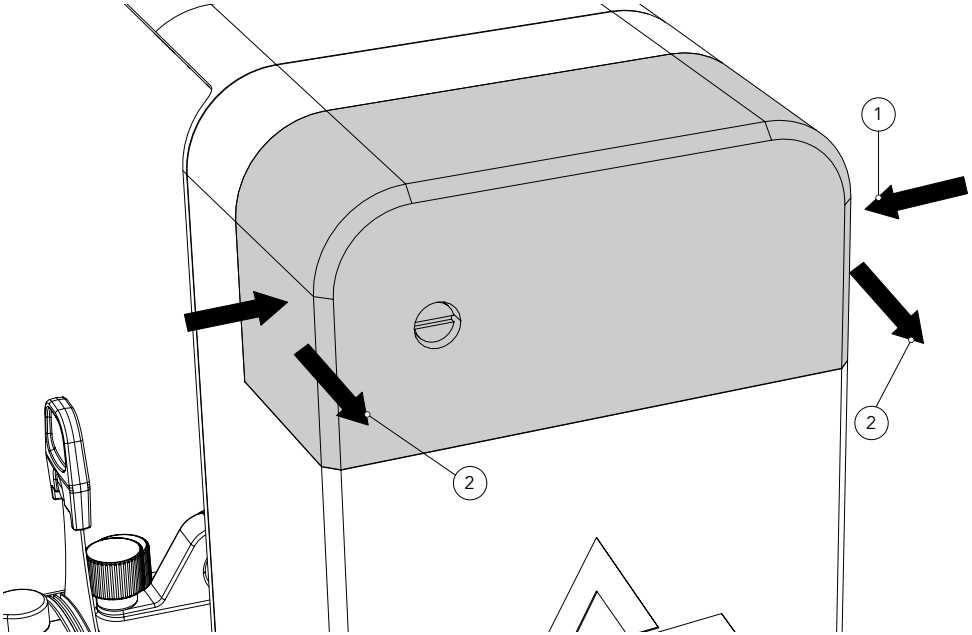


For supply connections use (type SJ, SJO, SJT, minimum 18 AWG) conductors (rated at least 60°C).
The customer must be assure that it can also meet the 156N tension test their connection.

1 **ECLDISPLAYDAT**

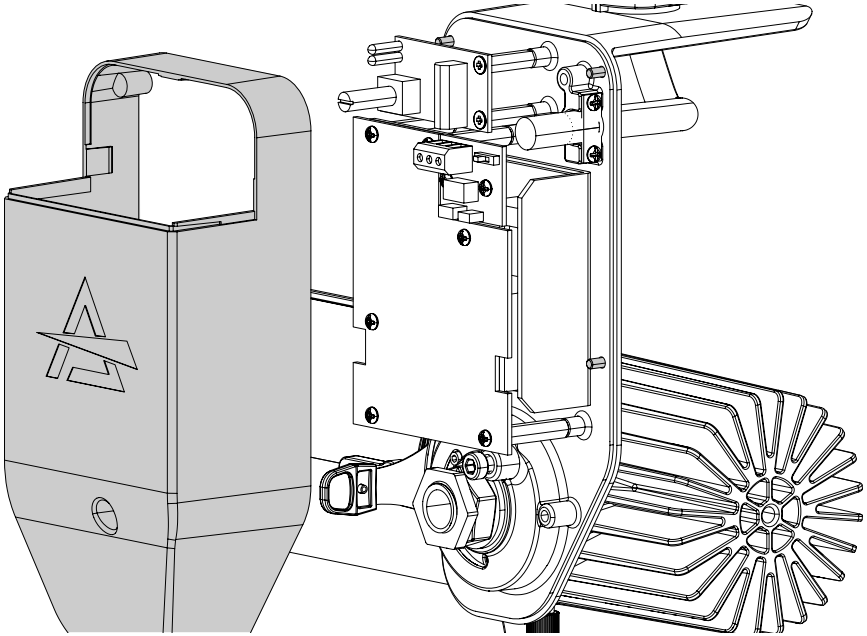


2

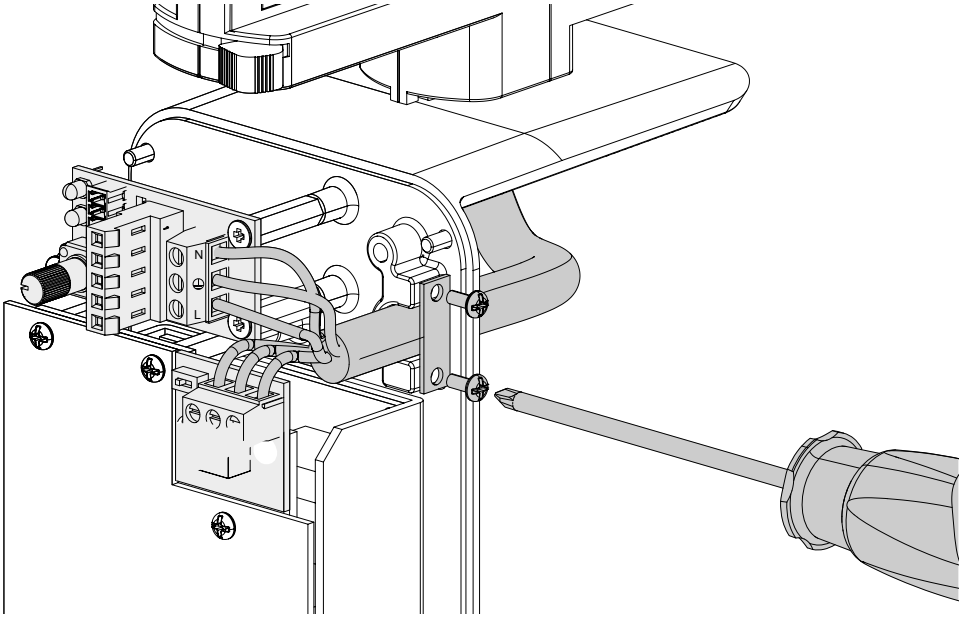


Press down on the sides of the cage (1). Then remove it (2).

3



Loosen and remove the marked four screws (2). Then remove the arm housing (3).



Only SJ, SJO, SJT. or other wires can be allowed to use, the customer must be assure that it can also meet the 156N tension test their connection.

Fig. 05

7 - 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.

8 - PRODUCT OVERVIEW

1. SAFETY EYE to attach safety cable;
2. KNOB for releasing and locking the optic;
3. KNOB for releasing and locking the optic and for zoom;
4. OPTIC (accessory not included, in the figure ECLDISPWASHL1530);
5. RUBBER RING (accessory included in the box optic);
6. PLASTIC CAP for access to connections;
7. KNOB dimming;
8. LOCK TILT;
9. PLASTIC ARM COVER.

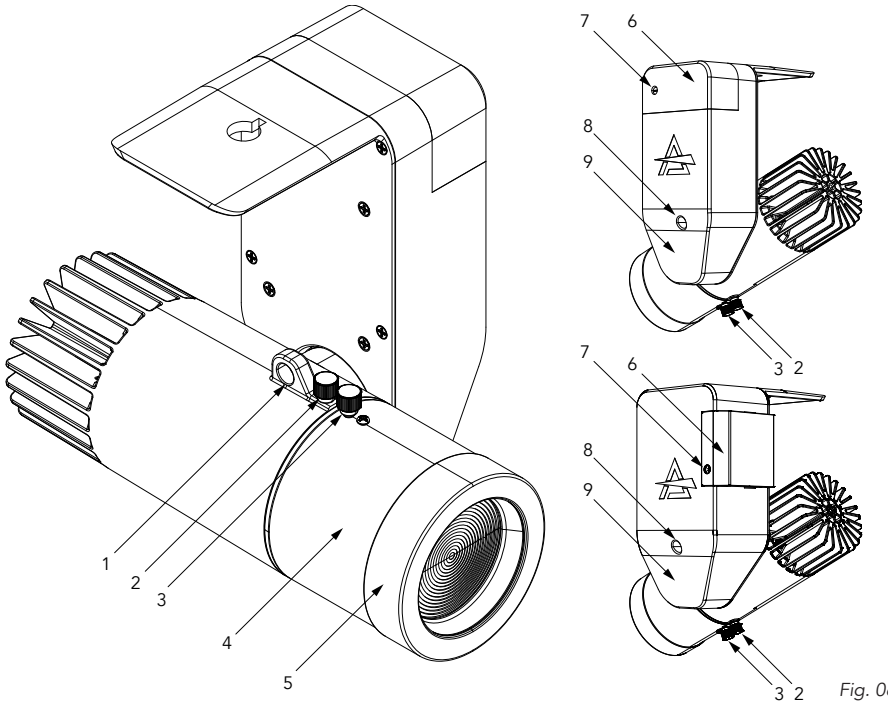


Fig. 06

9 - CONTROL PRIORITY ORDER

The control with higher priority defines the maximum dimming level of the successive inputs.
There is an dip switch to rapidly change between DALI or DMX (though DMX is set as default).

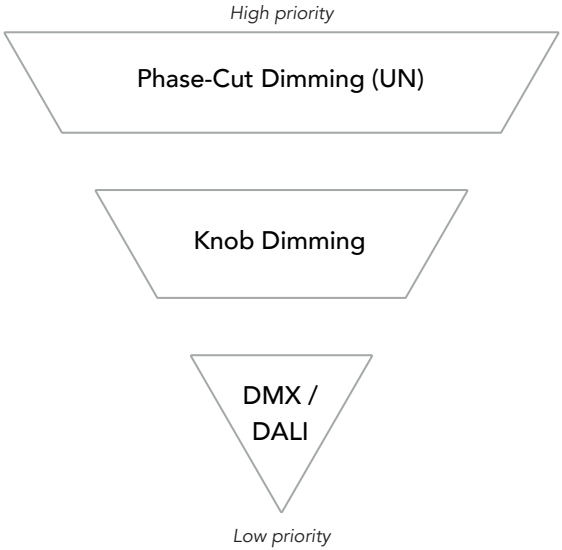


Fig. 07

PHASE-CUT DIMMING (ONLY ECLDISPLAYUNFC)

The ECLDISPLAYUNFC can be dimmable with phase-cut dimmer of the below technologies:
- LE: Leading Edge;
- TE: Trailing Edge.

***NOTE**: Please pay attention to the maximum power of the selected dimmer, it should be at least 40W for LED lamp to be able to control 1 projector.*
Some phase-cut dimmers has a range of dimming 10-100%, and not 0-100%, in this case the projector can not be dimmed below 10%, but it can be only switched OFF.

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.

Product	Model ID	Mode IDs
ECLDISPLAYUNFC	D062	BASIC: 1
		STANDARD: 2
		EXTENDED: 3
		BASIC 16 BIT: 4
ECLDISPLAYDATFC	D063	BASIC: 1
		STANDARD: 2
		EXTENDED: 3
		BASIC 16 BIT: 4

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

Category	Parameter	PID	GET	SET
Product Information	DEVICE_INFO	0x0060	x	
	PRODUCT_DETAIL_ID_LIST	0x0070	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
	SLOT_INFO	0x0120	x	
	SLOT_DESCRIPTION	0x0121	x	
	DEFAULT_SLOT_VALUE	0x0122	x	
Dimmer Settings	DIMMER_INFO	0x0340	x	
	CURVE*	0x0343	x	x
	CURVE_DESCRIPTION	0x0344	x	x
	OUTPUT_RESPONSE_TIME*	0x0345	x	x
	OUTPUT_RESPONSE_TIME_ DESCRIPTION	0x0346	x	
	MODULATION_FREQUENCY*	0x0347	x	x
	MODULATION_FREQUENCY_ DESCRIPTION	0x0348	x	
Sensors	SENSOR_VALUE	0x0201	x	x

Power/Lamp Settings	DEVICE_HOURS	0x0400	x	x
	LAMP_HOURS	0x0401	x	x
	LAMP_STRIKES	0x0402	x	x
	LAMP_STATE	0x0403	x	x
	LAMP_ON_MODE	0x0404	x	x
	DEVICE_POWER_CYCLES	0x0405	x	x
Control	IDENTIFY_DEVICE	0x1000	x	x
Special PIDs**	DMX FAULT	0x82DD	x	x
	MASTER/SLAVE	0x8211	x	x
	STAND ALONE MODE	0x82EC	x	x
	STATIC COLORS:0~14:R G B W	0x82BE	x	x
	WHITE PRESETS:0~20:2800K 3000K	0x82BF	x	x
	COLOR MACROS 0:R 1:G 2:B 3:..	0x82ED	x	x
	MANUAL BLUE	0x82C2	x	x
	MANUAL GREEN	0x82C1	x	x
	MANUAL RED	0x82C0	x	x
	MANUAL WARM WHITE	0x82C3	x	x
	FULL ON 0:HB MODE 1:STUDIO MODE	0x8217	x	x
	STUDIO BLUE	0x82CB	x	x
	STUDIO GREEN	0x82CA	x	x
	STUDIO RED	0x82C9	x	x
	STUDIO WARM WHITE	0x82CC	x	x
	WHITE CALIBRATION-BLUE	0x8202	x	x
	WHITE CALIBRATION-GREEN	0x8201	x	x
	WHITE CALIBRATION-RED	0x8200	x	x
	WHITE CALIBRATION-WHITE	0x8203	x	x
	CURRENT HOURS	0x82C5	x	
	POWER CONSUMPTION:AC~220V	0x82DE	x	
	MAINTENANCE TIME:ALERT PERIOD	0x82DF	x	x
	MAINTENANCE TIME:ELAPSED TIME	0x82E0	x	
	ERROR MESSAGE:0:NO ERROR 1:...	0x82EA	x	
	CLEAN ALL DATA 0:NO,1:YES	0x82C8	x	x
	MIN KNOB LEVEL (0-255)	0x82FD	x	x

NOTE: for the functions marked with a final asterisk (*) refer to the tables on the following pages.

NOTE: the terms shown in **BOLD** indicates the default settings.

	MENU*		
1	DMX_START_ADDRESS	**001** - 512	
2	DMX_PERSONALITY	**1:BASIC**	*To choose the DMX mode.*
		2:STANDARD	
		3:EXTENDED	
		4:BASIC 16 BIT	
3	CURVE	0:LINEAR	*To choose the dimmer curve.*
		1:S-CURVE	
		2:SQUARE LAW	
		3:INVERSE SQUARE LAW	
4	OUTPUT_RESPONSE_TIME	**0:AUTO**	*To choose the dimmer speed.*
		1:FAST	
		2:MEDUIM	
		3:SLOW	
5	MODULATION_FREQUENCY	0:600Hz	*Select PWM frequency.*
		1:1200Hz	
		2:2000Hz	
		3:4000Hz	
		4:6000Hz	
		5:25kHZ	

	SPECIAL PIDs**		
1	DMX FAULT	0:BLACKOUT	*To choose the behaviour of fixture in case of dmx signal lost.*
		1:HOLD	
		2:STAND ALONE	
2	MASTER/SLAVE	0:MST DMX	*Outputs dmx signal.*
		1:MST NO DMX	*Doesn't output dmx signal.*
		2:SLAVE	*Receive dmx signal.*
3	STAND ALONE MODE	**0:STATIC**	*To use static color presets.*
		1:CCT	*To use white presets:*
		2:MACRO	*To use color gels. Please refer to DMX chart for Gel numbers, listed on DMX value column.*
		3:RGBW	*To use RAW color mixing. Red, Green, Blue and White channel are available as single custom pid as listed below.*

4	**STATIC COLORS**	(0 - **14**)	*To choose between static color presets.* *0: R* *1: G* *2: B* *3: W* *4: GB* *5: RB* *6: RG* *7: RGB* *8: RW* *9: GW* *10: BW* *11: RGW* *12: RBW* *13: GBW* **14: RGBW**
5	**WHITE PRESETS**	(**0** - 20)	*To choose between cct white preset.* *0: 2800K* *1: 3000K* *2: 3200K* *3: 3400K* *4: 3600K* *5: 3800K* *6: 4000K* *7: 4200K* *8: 4400K* *9: 4600K* *10: 4800K* *11: 5000K* *12: 5200K* *13: 5400K* *14: 5600K* *15: 6000K* *16: 6500K* *17: 7000K* *18: 8000K* *19: 9000K* *20: 10000K*
6	**COLOR MACROS**	(**0** - 255)	*To choose between color gels. Please refer to DMX chart for Gel numbers, listed on DMX value column.*
7	**MANUAL RED**	(000 ÷ 255)	*Raw red channel (used in RGBW stand alone mode).*
8	**MANUAL GREEN**	(000 ÷ 255)	*Raw green channel (used in RGBW stand alone mode).*
9	**MANUAL BLUE**	(000 ÷ 255)	*Raw blue channel (used in RGBW stand alone mode).*
10	**MANUAL WARM WHITE**	(000 ÷ 255)	*Raw white channel (used in RGBW stand alone mode).*
11	**FULL ON**	0:HB MODE	*High Brightness Mode, delivering the full output on every primary color*
		1:STUDIO MODE	*Fixture will reach 6000K white point.*
12	**STUDIO-RED**	(000 ÷ 255)	*Max value of red color intensity when all color are at maximum value.*
13	**STUDIO-GREEN**	(000 ÷ 255)	*Max value of green color intensity when all color are at maximum value.*
14	**STUDIO-BLUE**	(000 ÷ 255)	*Max value of blue color intensity when all color are at maximum value.*
15	**STUDIO WARM WHITE**	(000 ÷ 255)	*Max value of white color intensity when all color are at maximum value.*
16	**WHITE CALIBRATION-RED**	(125 ÷ 255)	*Max value of red color intensity.*
17	**WHITE CALIBRATION GREEN**	(125 ÷ 255)	*Max value of green color intensity.*
18	**WHITE CALIBRATION-BLUE**	(125 ÷ 255)	*Max value of blue color intensity.*
19	**WHITE CALIBRATION-WHITE**	(125 ÷ 255)	*Max value of white color intensity.*
20	**CURRENT HOURS**	(00000-65535)	*Shows fixture hours.*

21	**POWER CONSUMPTION(AC 220V)**		*Shows fixture's power consumption.*
22	**MAINTENANCE TIME**	(ALERT PERIOD:10 ÷ **300**)	*To set maintenance time alert period*
23	**MAINTENANCE TIME**	(ELAPSED TIME:00-ALERT PERIOD)	*Shows elapsed tiime to alert period.*
24	**ERROR MESSAGES**		*Shows error codes.*
25	**CLEAN ALL DATA**	**0:NO**	*Complete reset of the fixture.*
		1:YES	

11 - ERROR MESSAGES

ERROR SHOWED ON SCREEN	POSSIBLE CAUSES
[TEMPERATURE TOO HIGH]	This error message indicates that an overheating has occurred and the led has been switched OFF by the product protection system.
[LED TEMPERATURE SENSOR ERROR]	LED sensor damaged (open or in short circuit)

12 - DMX CHARTS

Channel	BASIC	STANDARD	EXTENDED	BASIC 16 BIT
1	DIMMER	DIMMER	DIMMER	DIMMER
2	RED	DIMMER FINE	DIMMER FINE	DIMMER FINE
3	GREE	STROBE	STROBE	RED
4	BLUE	CCT	CCT	RED FINE
5	WARM WHITE	CROSSFADE	CROSSFADE	GREEN
6		COLOR MACRO	RED	GREEN FINE
7			RED FINE	BLUE
8			GREE	BLUE FINE
9			GREEN FINE	WARM WHITE
10			BLUE	WARM WHITE FINE
11			BLUE FINE	
12			WARM WHITE	
13			WARM WHITE FINE	
14			COLOR MACRO	
15			CONTROL	

BASIC	STANDARD	EXTENDED	BASIC 16 BIT	Function	DMX Value	Default
1	1	1	1	**DIMMER** Lineary from close to open	000 ÷ 255	000
	2	2	2	**DIMMER FINE** Lineary from close to open	000 ÷ 255	000
	3	3		**STROBE** Close Strobe from slow to fast Open Pulse in from slow to fast Open Pulse out from slow to fast Open Randon from slow to fast Open	000 ÷ 001 002 ÷ 062 063 ÷ 064 065 ÷ 125 126 ÷ 127 128 ÷ 188 189 ÷ 190 191 ÷ 251 252 ÷ 255	255
	4	4		**CCT** Lineary from 2800K to 10000K	000 ÷ 255	000
	5	5		**CROSSFADE** Lineary from CCT layer to Color Mix layer	000 ÷ 255	000
2		6	3	**RED** Lineary from 0% to 100%	000 ÷ 255	000
		7	4	**RED FINE** Lineary from 0% to 100%	000 ÷ 255	000
3		8	5	**GREEN** Lineary from 0% to 100%	000 ÷ 255	000
		9	6	**GREEN FINE** Lineary from 0% to 100%	000 ÷ 255	000
4		10	7	**BLUE** Lineary from 0% to 100%	000 ÷ 255	000
		11	8	**BLUE FINE** Lineary from 0% to 100%	000 ÷ 255	000

BASIC	STANDARD	EXTENDED	BASIC 16 BIT	Function	DMX Value	Default
5		12	9	**WARM WHITE** Lineary from 0% to 100%	000 ÷ 255	000
		13	10	**WARM WHITE FINE** Lineary from 0% to 100%	000 ÷ 255	000
	6	14		**COLOR MACRO*** No Function Red Green Blue Cyan Magenta Yellow Dirty White Alice Blue Congo Blue Dark Steel Blue Deep Lavender Lilac Ting Daylight Blue Flame Red Bastard Amber Deep Orange Pale Gold Apricot Bright Blue Primary Green Special Lavender Pale Lavender Deep Golden Amber Medium Blue Bright Pink Mauve Dark Green Lee Green Dark Blue Light Blue Steel Blue Medium Blue-Green Peacock Blue Magenta Dark Pink Middle Rose Light Salmon English Rose Light Rose Orange Deep Amber Straw Light Amber Spring Yellow Dark Yellow Green Just Blue Sky Blue Lavender Light Lavender Pink Carnation Medium Pink Light Pink Sunset Red Dark Amber Gold Amber Medium Amber Fire Surprise Peach Straw Tint Medium Yellow Lee Minus Green Pale Gold Orange Deep Straw Rose Purple	 000 ÷ 001 (0) 002 ÷ 003 (1) 004 ÷ 005 (2) 006 ÷ 007 (3) 008 ÷ 009 (4) 010 ÷ 011 (5) 012 ÷ 013 (6) 014 ÷ 015 (7) 016 ÷ 017 (8) 018 ÷ 019 (9) 020 ÷ 021 (10) 022 ÷ 023 (11) 024 ÷ 025 (12) 026 ÷ 027 (13) 028 ÷ 029 (14) 030 ÷ 031 (15) 032 ÷ 033 (16) 034 ÷ 035 (17) 036 ÷ 037 (18) 038 ÷ 039 (19) 040 ÷ 041 (20) 042 ÷ 043 (21) 044 ÷ 045 (22) 046 ÷ 047 (23) 048 ÷ 049 (24) 050 ÷ 051 (25) 052 ÷ 053 (26) 054 ÷ 055 (27) 056 ÷ 057 (28) 058 ÷ 059 (29) 060 ÷ 061 (30) 062 ÷ 063 (31) 064 ÷ 065 (32) 066 ÷ 067 (33) 068 ÷ 069 (34) 070 ÷ 071 (35) 072 ÷ 073 (36) 074 ÷ 075 (37) 076 ÷ 077 (38) 078 ÷ 079 (39) 080 ÷ 081 (40) 082 ÷ 083 (41) 084 ÷ 085 (42) 086 ÷ 087 (43) 088 ÷ 089 (44) 090 ÷ 091 (45) 092 ÷ 093 (46) 094 ÷ 095 (47) 096 ÷ 097 (48) 098 ÷ 099 (49) 100 ÷ 101 (50) 102 ÷ 103 (51) 104 ÷ 105 (52) 106 ÷ 107 (53) 108 ÷ 109 (54) 110 ÷ 111 (55) 112 ÷ 113 (56) 114 ÷ 115 (57) 116 ÷ 117 (58) 118 ÷ 119 (59) 120 ÷ 121 (60) 122 ÷ 123 (61) 124 ÷ 125 (62) 126 ÷ 127 (63) 128 ÷ 129 (64) 130 ÷ 131	 <

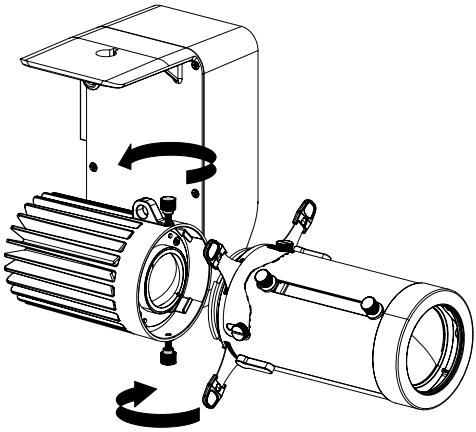
BASIC	STANDARD	EXTENDED	BASIC 16 BIT	Function	DMX Value	Default
				Deep Purple	(65) 132 ÷ 133	
				Soft Green	(66) 134 ÷ 135	
				Reserved	136 ÷ 211	
				2800K	212 ÷ 213	
				3000K	214 ÷ 215	
				3200K	216 ÷ 217	
				3400K	218 ÷ 219	
				3600K	220 ÷ 221	
				3800K	222 ÷ 223	
				4000K	224 ÷ 225	
				4200K	226 ÷ 227	
				4400K	228 ÷ 229	
				4600K	230 ÷ 231	000
				4800K	232 ÷ 233	
				5000K	234 ÷ 235	
				5200K	236 ÷ 237	
				5400K	238 ÷ 239	
				5600K	240 ÷ 241	
				6000K	242 ÷ 243	
				6500K	244 ÷ 245	
				7000K	246 ÷ 247	
				8000K	248 ÷ 249	
				9000K	250 ÷ 251	
				10000K	252 ÷ 253	
				Full ON	254 ÷ 255	
				CONTROL		
				NO FUNCTION	000 ÷ 001	
				DIMMER CURVE LINEAR	002 ÷ 003	
				DIMMER CURVE S-CURVE	004 ÷ 005	
				DIMMER CURVE SQUARE LAW	006 ÷ 007	
				DIMMER CURVE INVERSE SQUARE LAW	008 ÷ 009	
				DIMMER SPEED AUTO	010 ÷ 011	
				DIMMER SPEED FAST	012 ÷ 013	
				DIMMER SPEED MEDIUM	014 ÷ 015	
				DIMMER SPEED SLOW	016 ÷ 017	
				LED FREQUENCY 600HZ	018 ÷ 019	
				LED FREQUENCY 1200HZ	020 ÷ 021	
				LED FREQUENCY 2000HZ	022 ÷ 023	
		15		LED FREQUENCY 4000HZ	024 ÷ 025	000
				LED FREQUENCY 6000HZ	026 ÷ 027	
				LED FREQUENCY 25KHZ	028 ÷ 029	
				DMX FAULT HOLD	030 ÷ 031	
				DMX FAULT BLACKOUT	032 ÷ 033	
				DMX FAULT STAND ALONE	034 ÷ 035	
				STAND ALONE MASTER DMX	036 ÷ 037	
				STAND ALONE MASTER NODMX	038 ÷ 039	
				STAND ALONE SLAVE	040 ÷ 041	
				STAND ALONE STATIC COLORS	042 ÷ 043	
				STAND ALONE WHITE PRESETS	044 ÷ 045	
				STAND ALONE COLOR MACROS	046 ÷ 047	
				STAND ALONE MANUAL COLORS	048 ÷ 049	
				Reserved	050 ÷ 253	
				FACTORY DEFAULT OF CONTROL FUNCTIONS	254 ÷ 255	

* Values inside brackets refer to Gel number for Stand Alone.

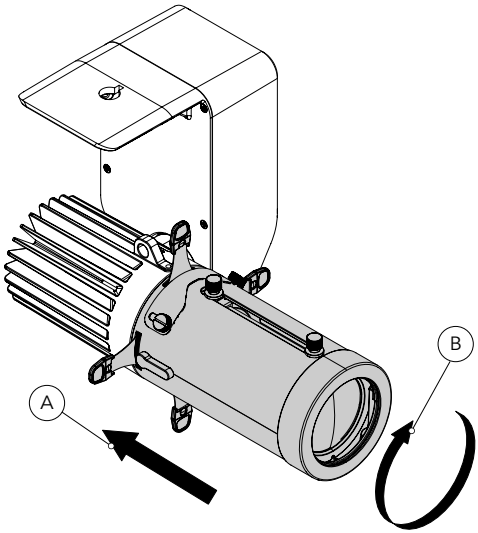
13 - ACCESSORIES INSTALLATION

OPTIC (CODES ECLDISPWASHL1530 / ECLDISPWASHL2550 / ECLDISPPRZL2040 - OPTIONAL)
The mounting procedure is the same for all lenses.

1

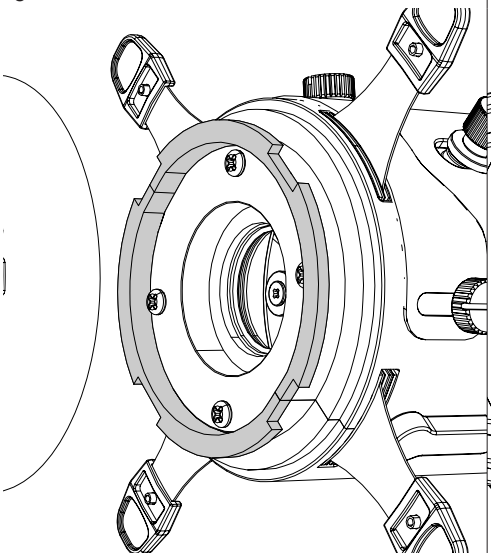


2

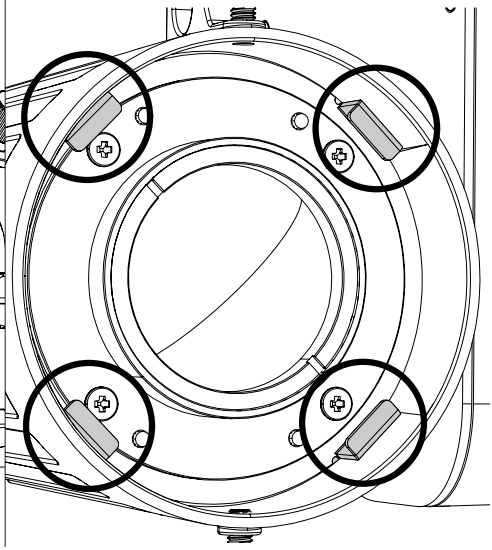


Loosen the two marked knob of the ECLDISPLAY.

3

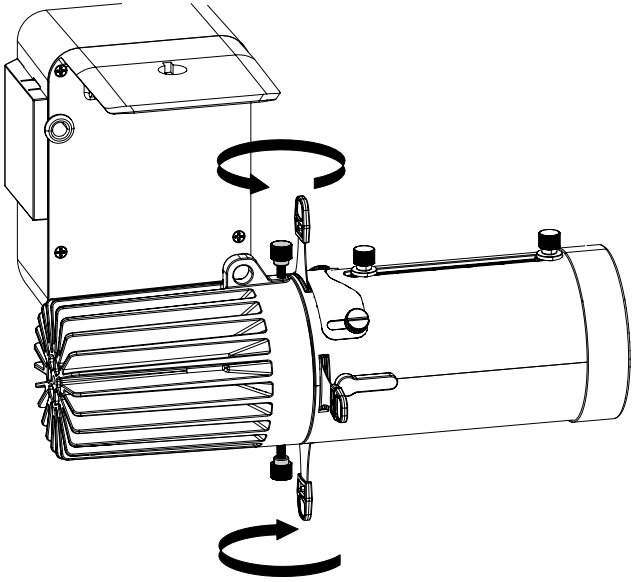


4



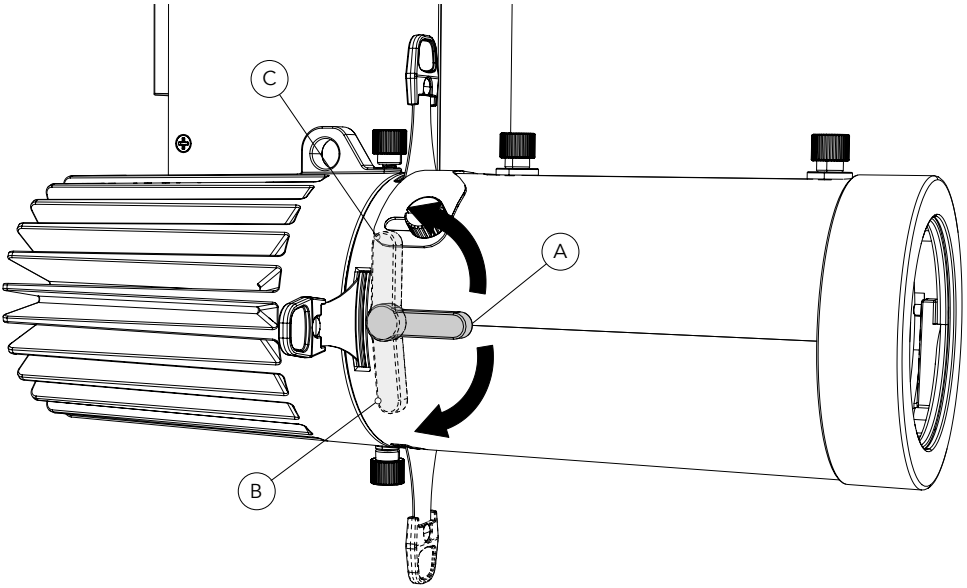
Insert the optic (2-A) and rotate it (2-B) so the marked grooves (3) of the optic coincides with the four marked flaps of the unit (4).

4



Loosen the two marked knobs on the top and lower of the ECLDISPLAY to rotate the optics.

5

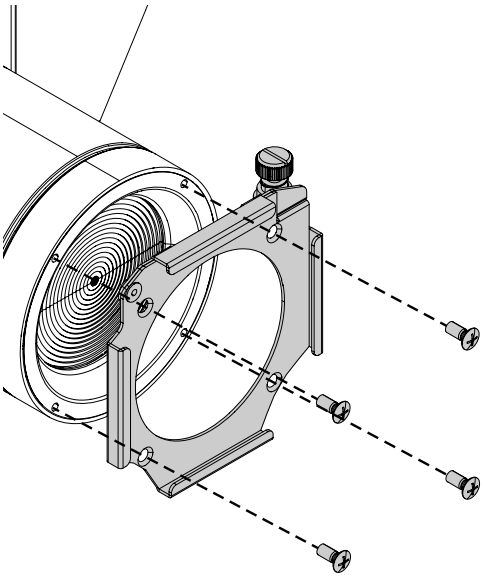


The marked lever in position A allows the locking of the blades.
Rotating the lever to position B or C allows the release of the blades.
This operation must be repeated for both levers on the frame system.

Fig. 08

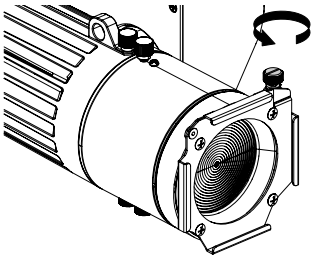
BARNDOOR AND FILTER FRAME (CODE ECLDISPBDNFFB - OPTIONAL)

1

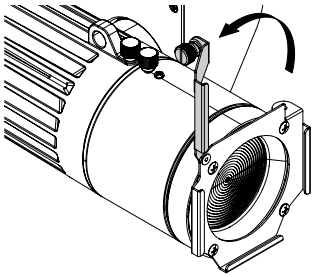


Insert the filter frame mounting the four marked screws into the holes provided on the optic.

2

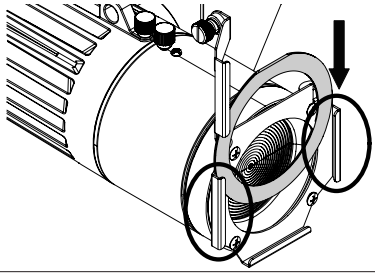


3

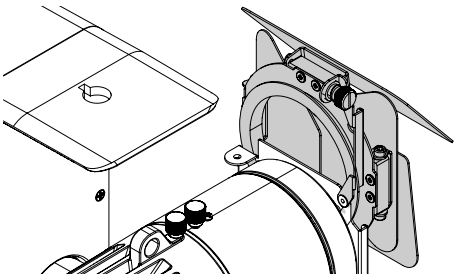


Rotate the marked knob of the filter frame (2) and and move the marked rod upwards (3).

4

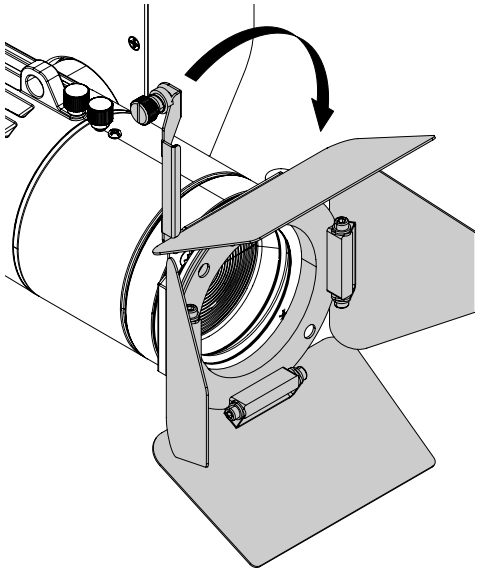


5



Insert the holder from above throught the track (4). Then insert the barn door (5).

6



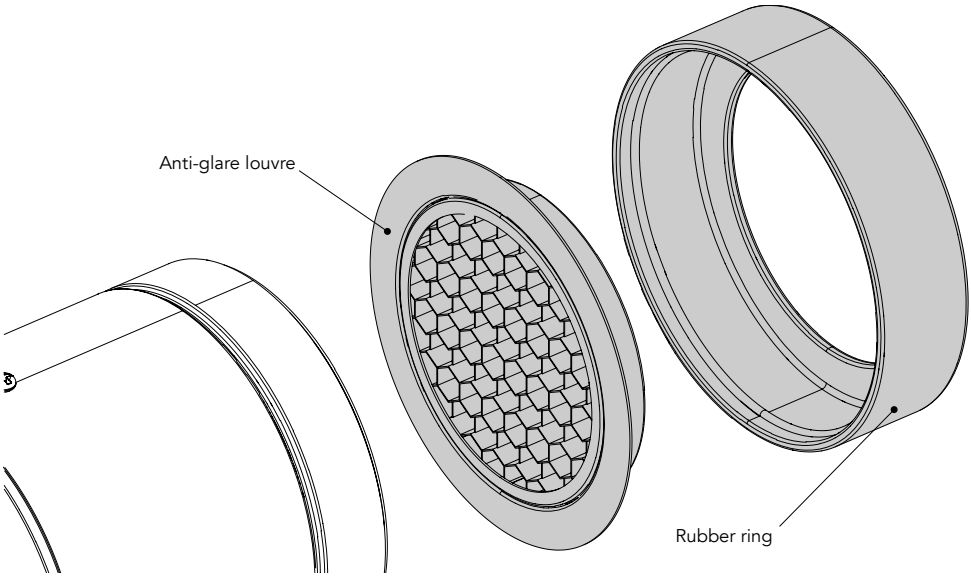
Move the marked rod down (6).

Fig. 09

ANTI-GLARE LOUVRE (CODE ECLDISPLOUVRE - OPTIONAL)

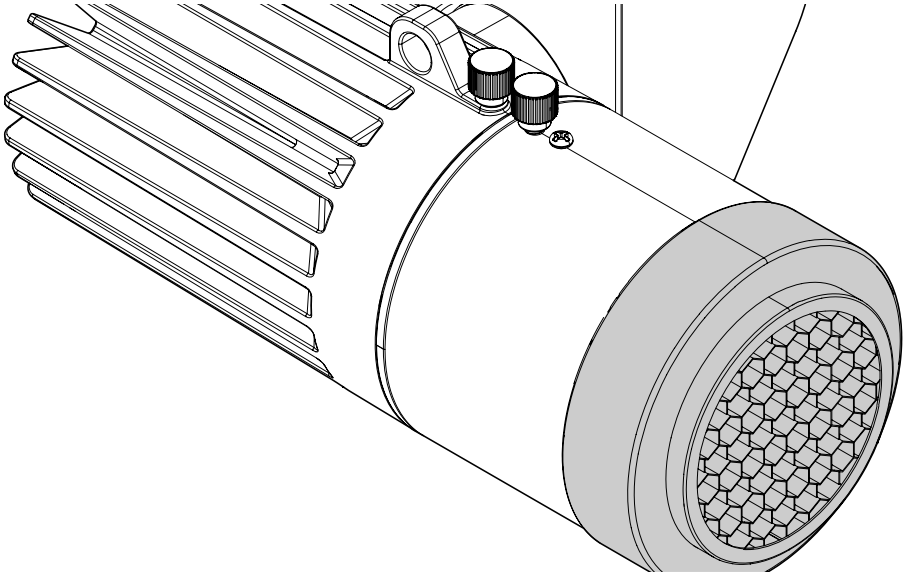
NOTE: the rubber ring can also be used to fix a filter with a maximum diameter of 79 mm.

1



Insert the anti-glare louvre or a filter of maximum size of Ø79 mm into the rubber ring.

2

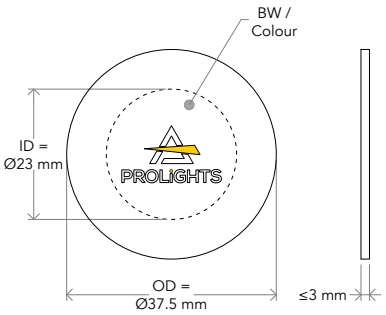


Mount the anti-glare louvre with the rubber ring on the optic.

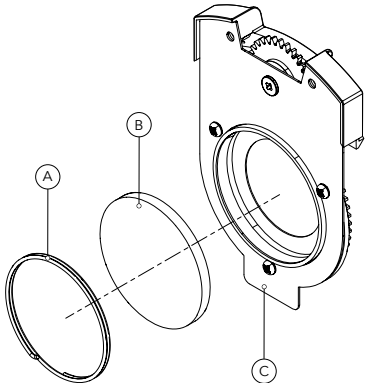
Fig. 10

GOBO HOLDER (CODE ECLDISPGOBOHIND - OPTIONAL)

1

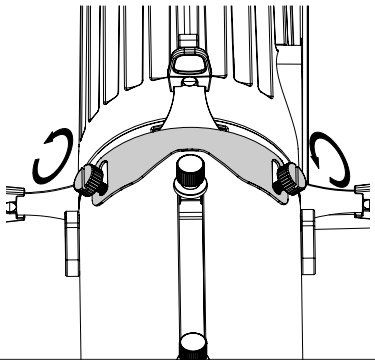


2

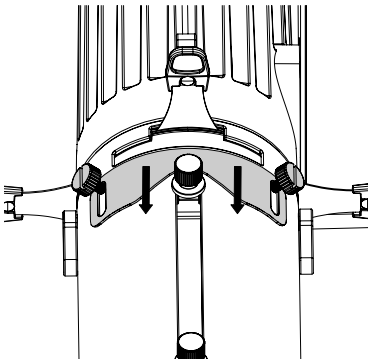


To mount the gobo remove the spring (1) from the gobo holder. Then insert the gobo following the sequence of image 2.

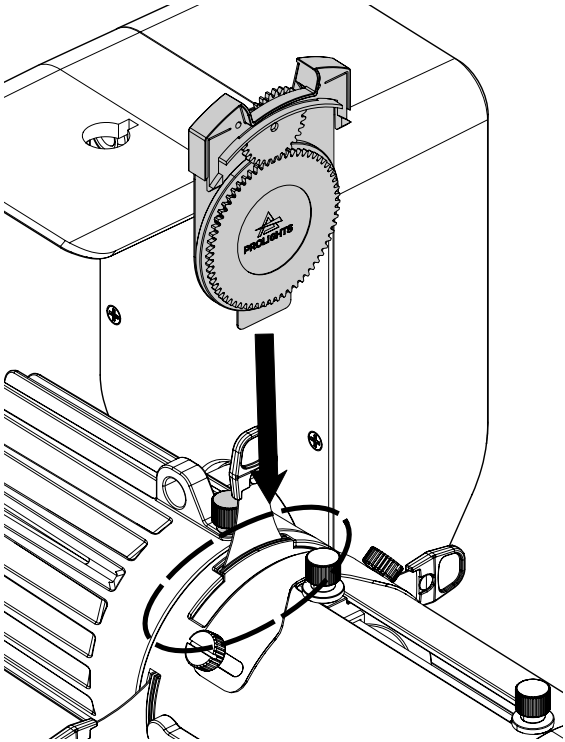
3



4



5

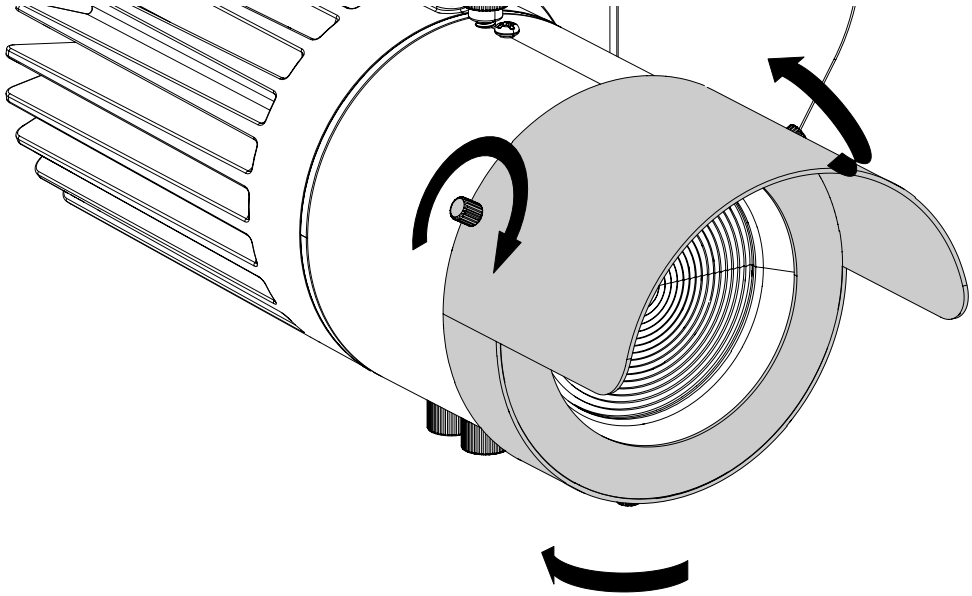


Loosen the two marked knobs of the optic (3). Then move the cover plate (4).
Insert the gobo holder into the slot provided on the optic (5).

Fig. 11

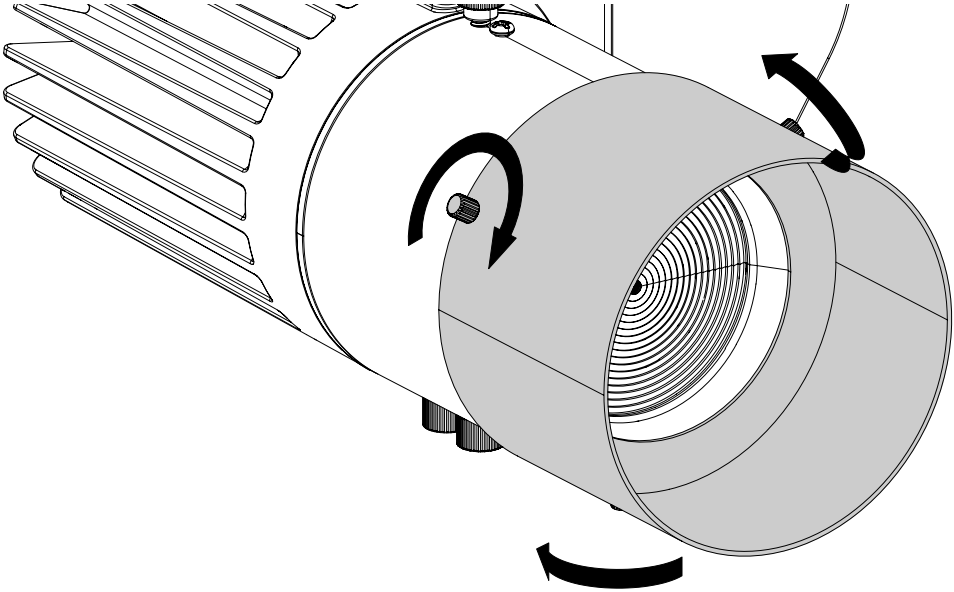
HALF SNOOT, FULL SNOOT (CODES ECLDISPHSNOOT, ECLDISPFSNOOT - OPTIONAL)

1



Loosen the three marked knob. Insert the half snoot on the optic and tighten the knobs in the egraved ring.

2

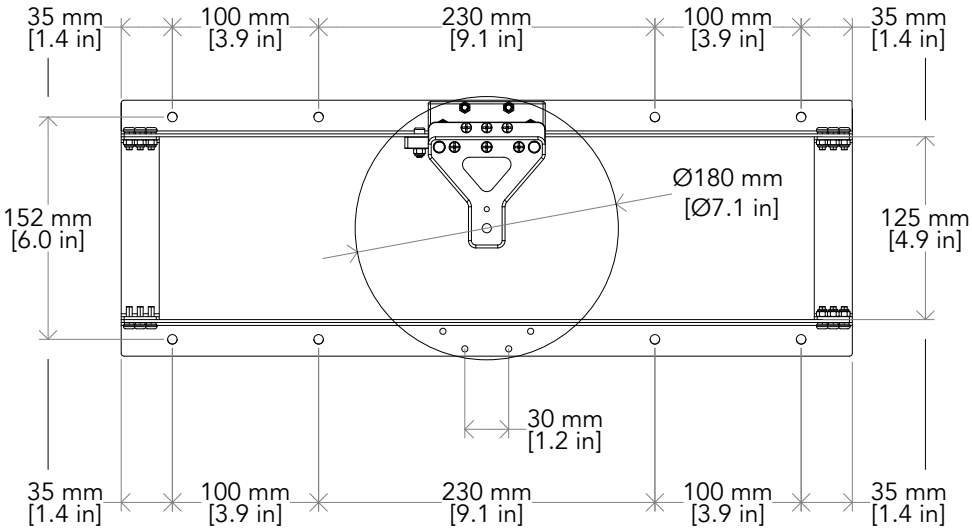


Loosen the three marked knob. Insert the full snoot on the optic and tighten the knobs in the egraved ring.

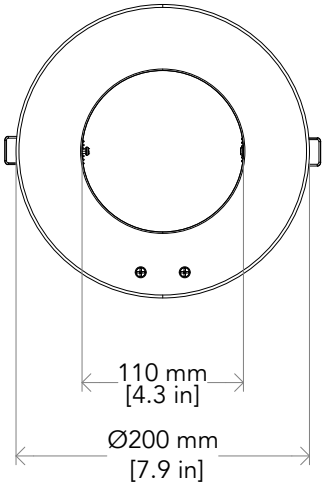
Fig. 12

CEILING ADAPTER KIT (CODES ECLDISPCEILKIT, ECLDISPCEILFLG - OPTIONAL)

1

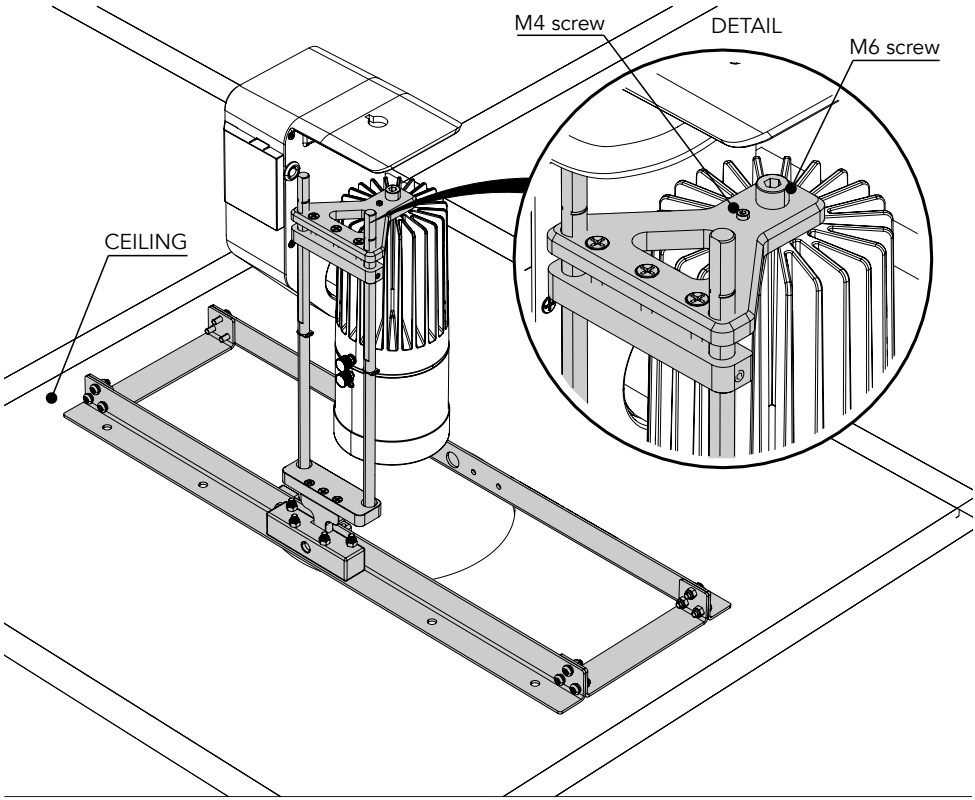


2

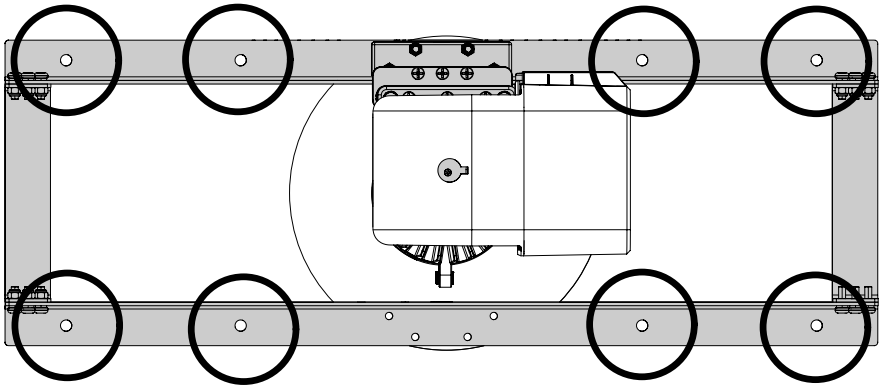


Measurements for cuts on the panels (1) and of the ECLDISPCEILFLG (2).

3

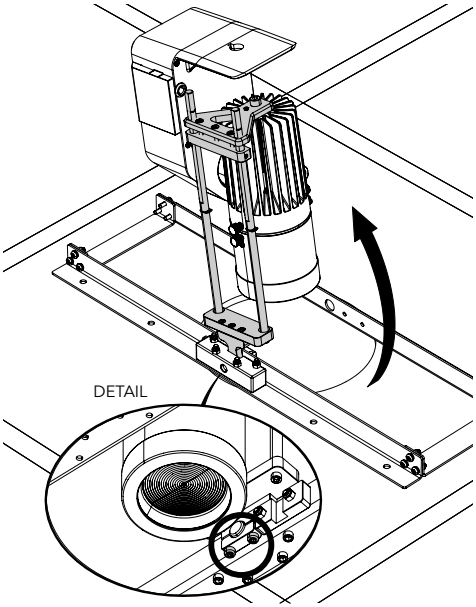


4

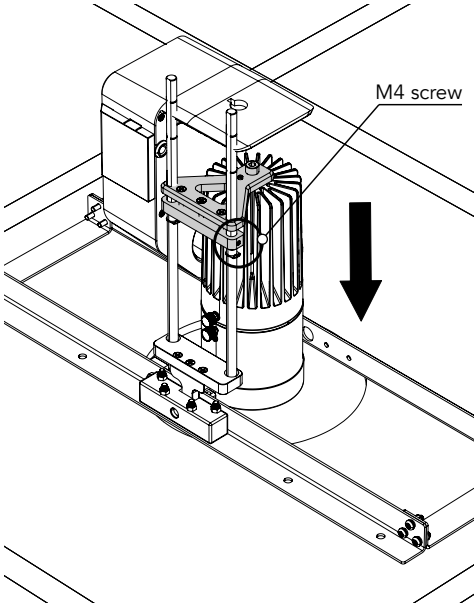


Mount the marked ceiling adapter kit on the ceiling by tightening the screws in the marked points (4). Fit the M6 screw to fix the projector (placed upside down) in the holes provided in the back housing (see detail). Fit the M4 screw to lock rotation.

5

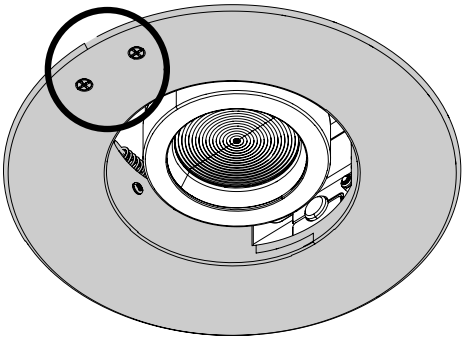


6

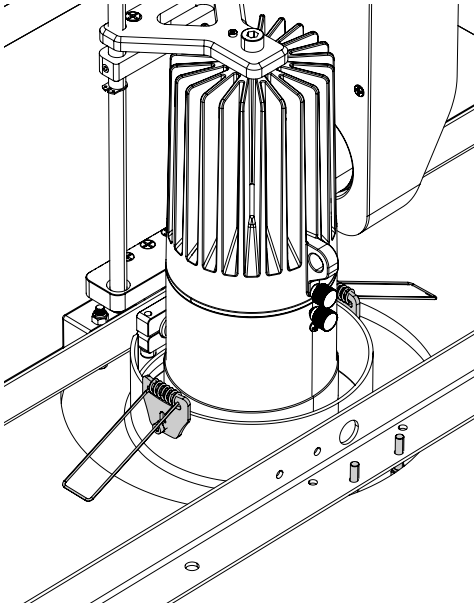


The projector can be tilted with a range of tilt movement of -15° ÷ +15° (5). Tighten the two screws (see "DETAIL") to lock the tilt movement. It is possible to decide the positioning height of the projector by using the marked plate (6). Tighten the M4 screw (6) to lock the vertical movement of the plate.

7



8



Mount the flange tightening the two marked screws (7) to complete the ceiling adapter kit.

Fig. 13

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.

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.
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

PROLIGHTS is a trademark of
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