



# EclProfile FW IP

High quality Full White LED ellipsoidal  
available in Tungsten and Daylight  
versions



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## USER MANUAL

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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](http://www.prolights.it) , or can be inquired to the official PROLIGHTS distributors of your territory ([https://www.prolights.it/sales\\_network.html](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!

- See <https://www.prolights.it/product/ECLFWIP#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 0.3 meters (0.98 ft) from the lens of the projector.



**T<sub>a</sub>45°C**

**Max operating ambient temperature (T<sub>a</sub>)**

- Do not operate the fixture if the ambient temperature (T<sub>a</sub>) exceeds 45 °C (113 °F).

**T<sub>a</sub>-15°C**

**Minimum operating ambient temperature (T<sub>a</sub>)**

- Do not operate the fixture if the ambient temperature (T<sub>a</sub>) is below -15 °C (5 °F).



**Protection from burns and fire**

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

**IP65**

**Outdoor (temporary) use**

- This product is rated with an IP (Ingress protection) for temporary outdoor use when used and serviced according to the instruction contained in this document.
- Never use the fixture in places subject to vibrations or bumps.
- Make certain that no inflammable liquids, water or metal objects enter the fixture.
- Excessive dust, smoke fluid, and particle build up degrades performance, causes overheating and will damage the fixture.
- Damages caused by inadequate cleaning or maintenance are not covered by the product warranty

**T<sub>c</sub>58°C**

**Temperature of the external surface**

- The surface of the fixture can reach up to 58 °C (136.4 °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.



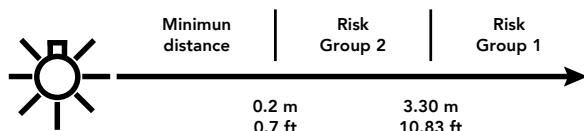
### Photobiological safety

- 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 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 1012 + CSA C22.2 No. 107.1 - Standard for power units other than class 2.



### FCC Compliance:

- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
1. This device may not cause harmful interference, and
  2. This device must accept any interference received, including interference that may cause undesired operation.



### Other approvals

# 1 - PACKAGING

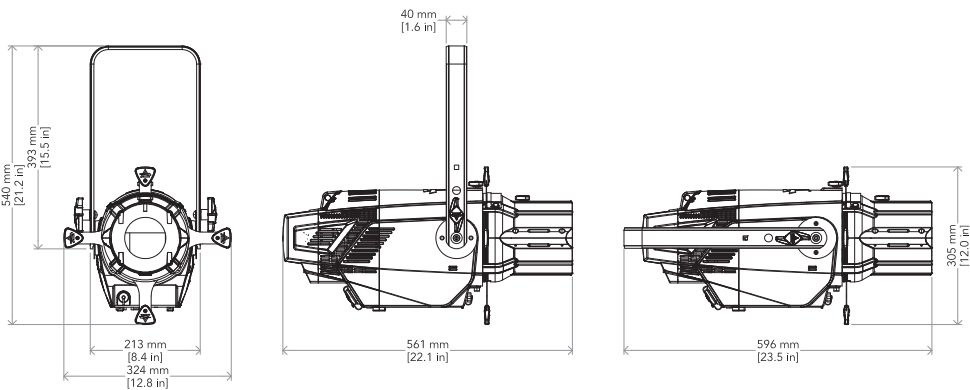
## PACKAGE CONTENT

- 1 x ECLFWIPDY/TU;
- 1x 1,5 meters power cable (BARE END - SEETRONIC IP65 power connector);
- User manual.

## OPTIONAL ACCESSORIES

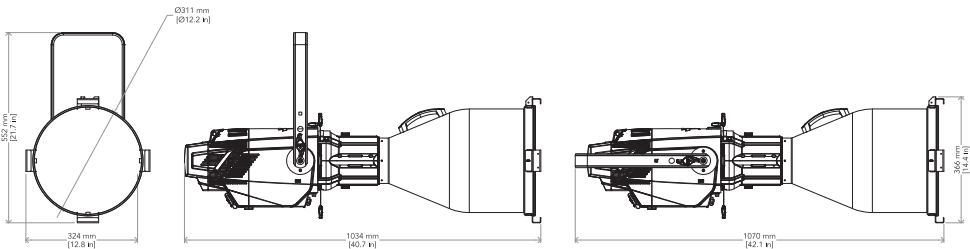
- INF53415L03: dmx cable HC5340. SETMC5MXXB XLR 5p->SETMC5FXXB XLR (f) 5p;
- 9333FXWL03: ass. 3x2.5mm TH07 cable, SHUKO plug, SETSAC3FX socket, L.3m
- 9313FXWL03: ass. 3x2.5mm TH07 cable, 16A 3p 230V CEE plug, SETSAC3FX socket, L.3 m;
- 938225L03: 3x2.5mm TH07 Cable, 16A SETSAC3MX, 16A SETSAC3FX, L. 3m;
- RSR0630A/B: steel security cable for hanging bodies, inox steel shackle, L=60 cm, silver/black;
- C6040: heavy-load aluminum clamp, 200kg load, 48-51mm tubes, M10 bolt inc;
- C6002: slim aluminium clamp, 200 kg loading, 48-51 mm tubes, M10 bolt;
- FCLECLPRIP: flightcase to contain 8 pcs ECLFWIP / ECLCTPLUS with lenses 19°, 26°, 36°, 50°;
- FCLECLPRLZ: flightcase to contain 8 ECLPRLZ zoom lenses;
- ECLPRL05BK: 5° PRL lens barrel for EclProfile fixtures, black housing;
- ECLPRL10BK: 10° PRL lens barrel for EclProfile fixtures, black housing;
- ECLPRL14BK: 14° PRL lens barrel for EclProfile fixtures, black housing;
- ECLPRL19BK: 19° PRL lens barrel for EclProfile fixtures, black housing;
- ECLPRL26BK: 26° PRL lens barrel for EclProfile fixtures, black housing;
- ECLPRL36BK: 36° PRL lens barrel for EclProfile fixtures, black housing;
- ECLPRL50BK: 50° PRL lens barrel for EclProfile fixtures, black housing;
- ECLPRL70BK: 70° PRL lens barrel for EclProfile fixtures, black housing;
- ECLPRLZ1530BK: zoom 15°-30° PRL lens barrel for EclProfile fixtures, black housing;
- ECLPRLZ2550BK: zoom 25°-50° PRL lens barrel for EclProfile fixtures, black housing;
- ECLPRTPG: gel filter frame for ECL Profile PRL lens barrel, comp. with 19°,26°,36° and 50°;
- ECLPRGH: gobo holder for ECL Profile fixtures;
- ECLPRIRIS: iris accessory for ECL Profile fixtures;
- ECLPRSEF1: soft edge filter and holder kit for ECL Profile fixtures;
- ECLLZLLKA: hexagonal head screw, to adapt and mount ECLLZ lenses on ECLCTPLUS and ECLFS;
- ECLPRSMOOTHF1: smooth/homogenizer filter with aluminium frame and magnets for Ecl Profile fixture;
- ECLPRPOYO: pole operated aluminium yoke bracket for ECLCTPLUS and ECLFS;
- ECLPRIPROTGOBO1BK/WH: rotating gobo assembly for ECL Profile fixtures, black/white;
- IPTESTBOX: portable vacuum and pressure tester for ProLights IP fixtures;
- SPGM12: 28mm spigot for fixtures, M12 bolt;
- SPGM10: 28mm spigot for fixtures, M10 bolt;
- UPBOX2P5: firmware uploader kit, USB IN, 5-pin XLR DMX OUT.

## 2 - TECHNICAL DRAWING



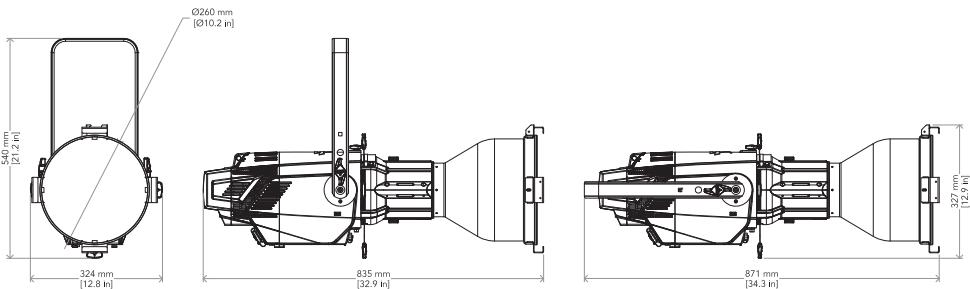
Weight: 7.3 kg - 16.09 lbs

ECLFWIP without optic



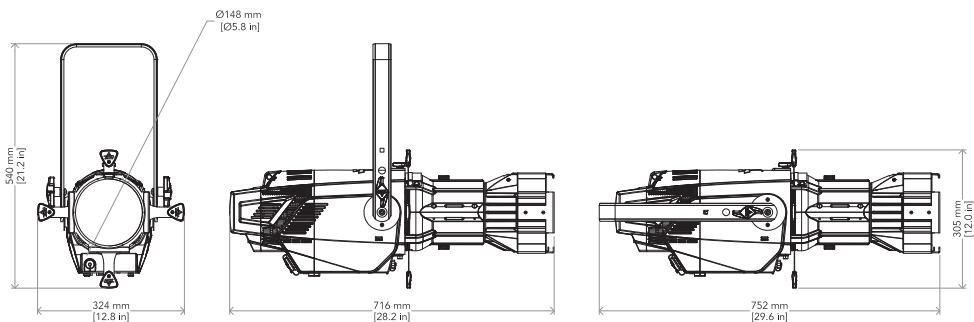
Weight: 10.2 kg - 22.48 lbs

ECLFWIP with ECLPRL05



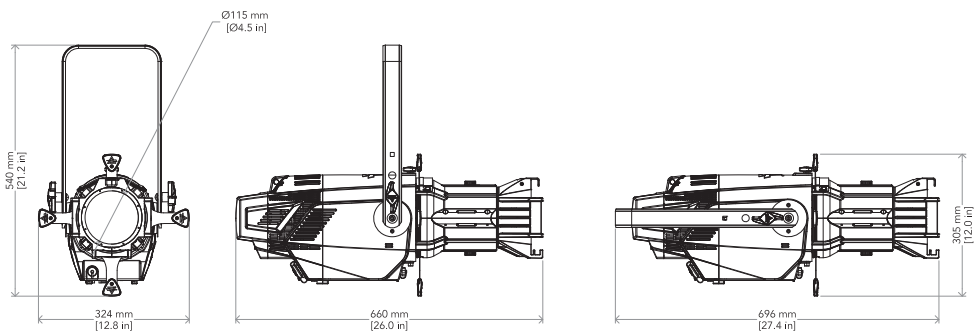
Weight: 9.2 kg - 20.28 lbs

ECLFWIP with ECLPRL10



Weight: 10.6 kg - 23.37 lbs

ECLFWIP with ECLPRL14



Weight: ECLPRL19: 9.5 kg - 20.94 lbs

Weight: ECLPRL26: 9.7 kg - 21.38 lbs

Weight: ECLPRL36: 9.4 kg - 20.72 lbs

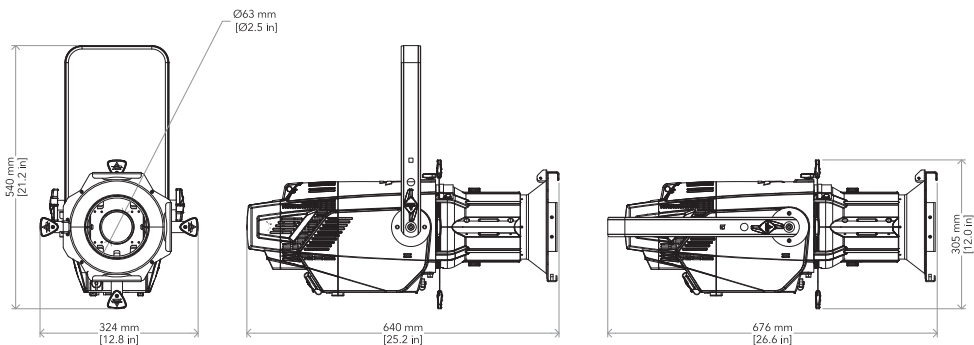
Weight: ECLPRL50: 9 kg - 19.84 lbs

ECLFWIP with ECLPRL19

ECLFWIP with ECLPRL26

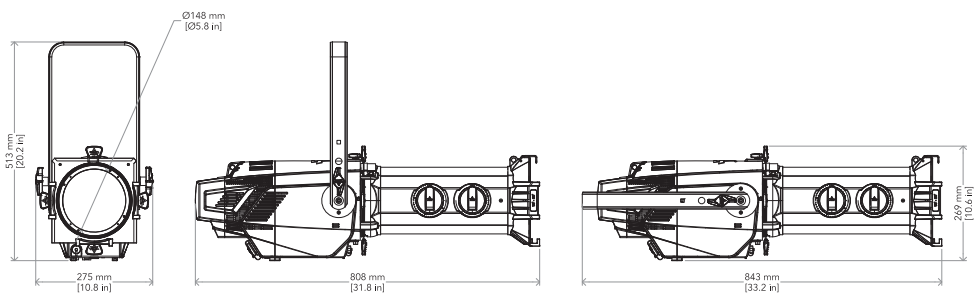
ECLFWIP with ECLPRL36

ECLFWIP with ECLPRL50



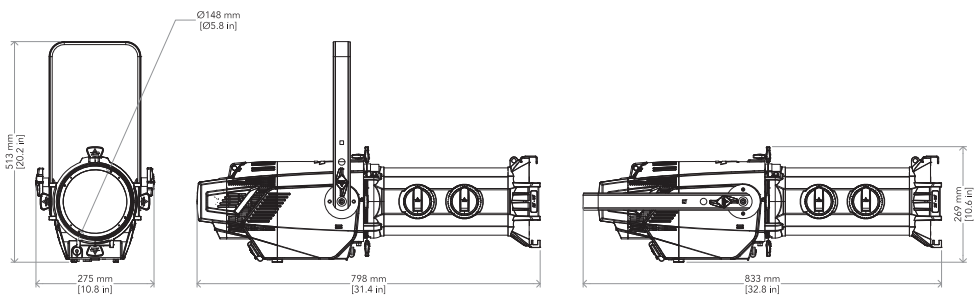
Weight: 9.1 kg - 20.06 lbs

ECLFWIP with ECLPRL70



Weight: 11.3 kg - 24.91 lbs

ECLFWIP with ECLPRLZ1530



Weight: 11.3 kg - 24.91 bs

ECLFWIP with ECLPRLZ2550

Fig. 01

## 3 - INSTALLATION

### MOUNTING

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

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

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

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

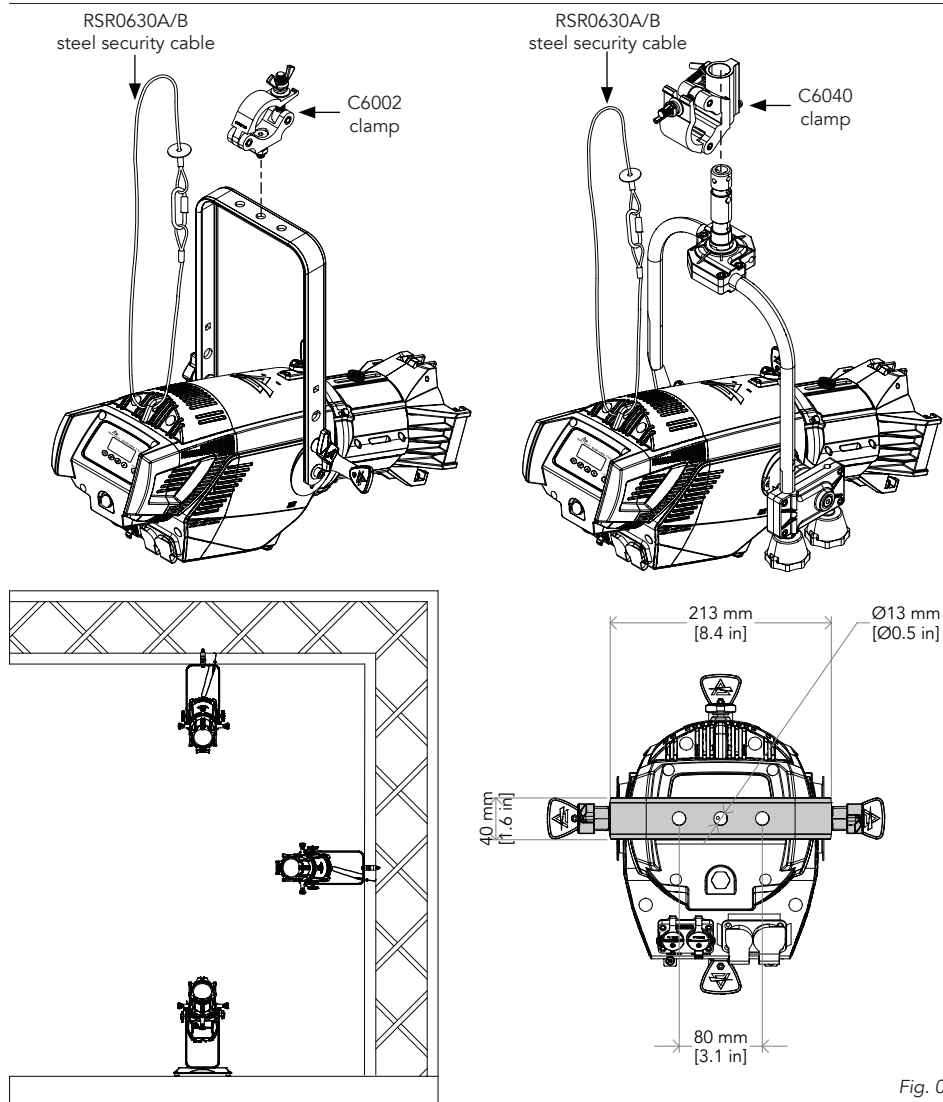



Fig. 02

## 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;
- 15.GORE VALVE.

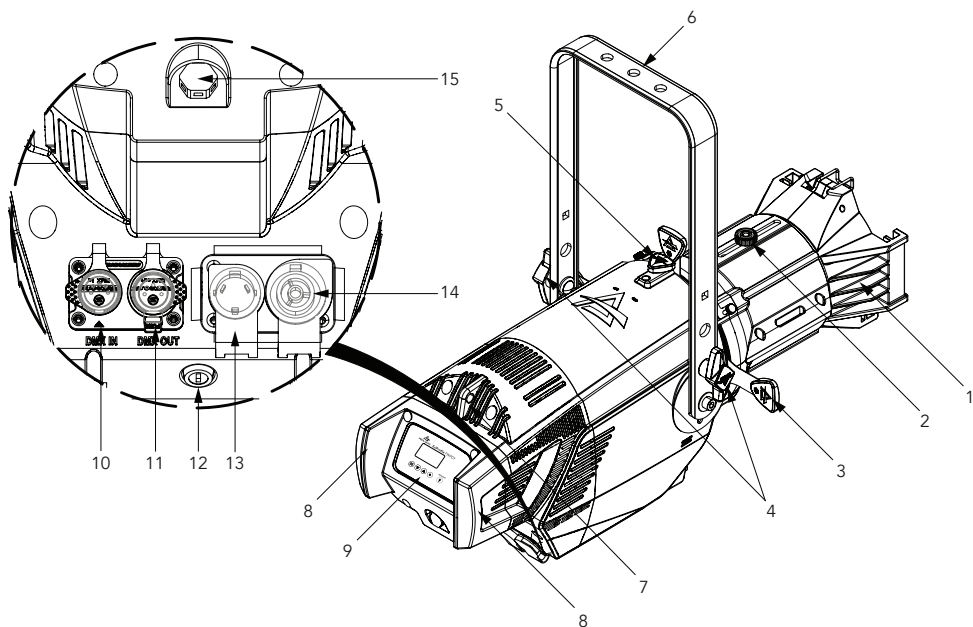


Fig. 03

# 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:



Fig. 04

## 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:

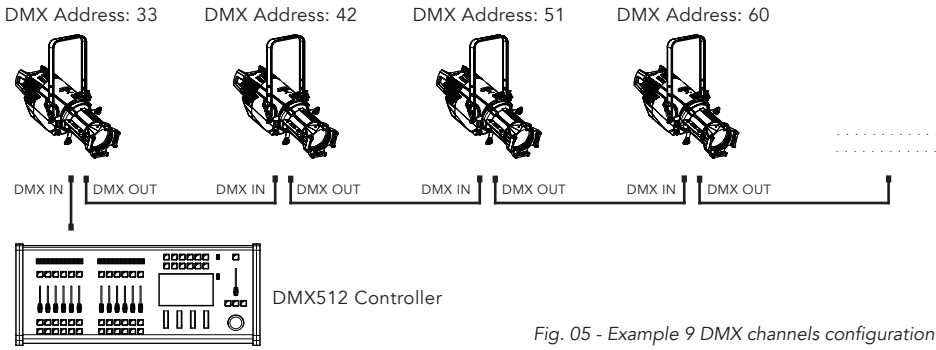
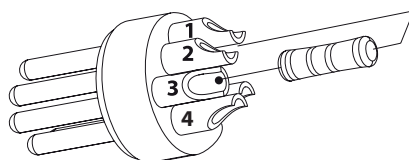
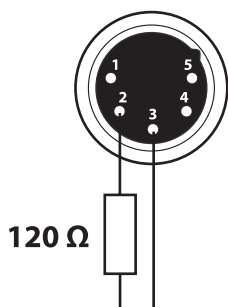


Fig. 05 - Example 9 DMX channels configuration

## 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. 06

## 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.

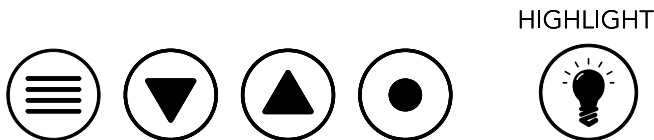
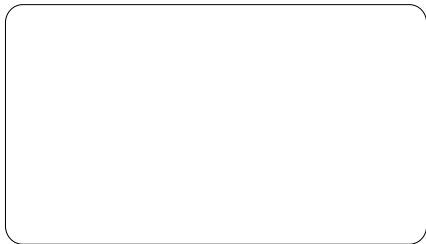







Fig. 07

## DISPLAY AND BUTTONS LAYOUT

	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	<b>Connect</b>	DMX Address	001 - 512		
		DMX Mode	<b>Gobo Rot OFF</b>	<b>Gobo Rot ON</b>	
			Uno	Uno Gobo	
			Duo	Basic Gobo	
			<b>Standard</b>	Std Gobo	
2	<b>Advanced</b>	Dimmer Curve	Linear S-Curve <b>Square Law</b> Inverse Square Law		Select different curve behaviour of dimmer.
		Dimmer Speed	<b>Auto</b> Slow Medium Fast		Linear speed behaviour. Dimmer speed adding long fade. Dimmer speed adding medium fade. Dimmer speed adding little fade.
		LED Frequency	600 Hz <b>1282 Hz</b> 2500 Hz 5000 Hz 6400 Hz 25 kHz		Select PWM frequency.
		Fan Mode	Auto <b>Balanced</b> Silent Full		Select the product Fan mode. Auto mode: fan speed from 0% to 100% following temperature curve. Balanced mode: fan speed from 0% to 50% following temperature curve. Silent mode: speed fan from 0% to 30% following temperature curve. Full mode: fan speed at 100% without following fixture temperature.
		Gobo Rot.	<b>Off</b> On		Enable / Disable Gobo functionality. DMX Mode in use is automatically converted to "Gobo" version. DMX Mode list is switched to "Gobo Rot On" version.
3	<b>SETUP</b>	Display Flip	<b>Regular</b> Top Down		Allows you to rotate the display by 180°.
		Back Light	On <b>10 s</b> 20 s 30 s		Allows you to select the timing after that display will switch automatically off when unactive.
		Key Lock	Locked <b>Unlocked</b>		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.
		Gobo Rot. Reset	<b>Abort</b> <b>Reference</b>		
		Transfer Config	<b>Abort</b> 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 Gobo Rot. Gobo Rot. F.	000 ÷ 255		Select the dimmer value of the selected white point.
			Effect 1	Dimmer Duration Attack Decay Gobo Rot. Gobo Rot. F.	0÷255 0.0s÷30.0s ÷60.0s 0% ÷ 100% 0% ÷ 100% 0 ÷ 255 0 ÷ 255		Edit and choose effect 1.
			...	...	...		
			Effect 3	Dimmer Duration Attack Decay Gobo Rot. Gobo Rot. F.	0÷255 0.0s÷30.0s ÷60.0s 0% ÷ 100% 0% ÷ 100% 0 ÷ 255 0 ÷ 255		Edit and choose effect 3.
		Slave					Set the units to be slave.
5	INFORMATION	Operating Hours Lamp Hours Power Cycles Power Consumption LED Temperature Fan Speed Gobo Rot. DEG Gobo Rot. RPM RDM Id Version					View informations about product.
6	FACTORY SETTINGS	Abort Set Default Values					To reset the unit to factory default settings.

## STAND ALONE MODE

To use the unit without DMX signal it's possible to set **Master** in **DMX Lost** menu and then select the needed features.

Following an example to use the fixture in Static with:

- Dimmer 255.

DMX LOST	Blackout				
	Hold				
	Master	Static	Dimmer Gobo Rot. Gobo Rot. F.	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.

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
MOTOR_ENABLE	0x8200	x	x
MOTOR_RESET	0x8201	x	x

# 11 - SHORTCUTS

Keys	Mode	Description
ENTER + MENU after power on	Flip Display	Directly flip display without enter inside menu.
UP + ENTER then power on	Bootloader	Force firmware upgrade.

# 12 - 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	
Gobo Rot.	"Gobo position lost"	Warning	Reference signal at unexpected position
	"Gobo ref. disabled"	Information	Use of reference position automatically disabled after referencing failed



# 13 - DMX CHARTS

## DMX Chart with Gobo Rotation disabled

Ch.	Uno	Duo	Standard
1	DIMMER COARSE	DIMMER COARSE	DIMMER COARSE
2		DIMMER FINE	DIMMER FINE
3			STROBE
4			CONTROL

Uno	Duo	Standard	Function	DMX Value	Default
1	1	1	<b>DIMMER COARSE</b> 0+100%	000 ÷ 255	000
	2	2	<b>DIMMER FINE</b>	000 ÷ 255	000
		3	<b>STROBE</b> 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	<b>CONTROL</b> No Function/Safe Reserved 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 Reserved 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 Reserved Fan Full Reserved 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 Gobo Rot. Off Gobo Rot. On Gobo Rot. Reset Reserved Reset All Channels Control	0 2 ÷ 7 8 ÷ 9 10 ÷ 11 12 ÷ 13 14 ÷ 15 16 ÷ 17 18 ÷ 19 20 ÷ 21 22 ÷ 23 24 ÷ 35 36 ÷ 37 38 ÷ 39 40 ÷ 41 42 ÷ 43 44 ÷ 45 46 ÷ 47 48 ÷ 49 50 ÷ 51 52 ÷ 73 74 ÷ 75 76 ÷ 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 ÷ 107 108 ÷ 109 110 ÷ 111 112 ÷ 253 254 ÷ 255	000

**DMX Chart with Gobo Rotation enabled**

Ch.	Uno Gobo	Duo Gobo	Standard Gobo
1	DIMMER COARSE	DIMMER COARSE	DIMMER COARSE
2	GOBO ROT.	DIMMER FINE	DIMMER FINE
3	GOBO ROT. FINE	GOBO ROT.	STROBE
4		GOBO ROT. FINE	CONTROL
5			GOBO ROT.
6			GOBO ROT. FINE

Uno Gobo	Duo Gobo	Standard Gobo	Function	DMX Value	Default
All Channel and Channel values from DMX Chart with Gobo Rotation disabled plus following Channel					
2	3	5	<b>GOBO ROTATION</b>		000
			Pos 0,00°	0	
			Pos 2,81°	1	
			Pos 5,63°	2	
			Pos 8,44°	3	
			Pos 11,25°	4	
			Pos 14,06°	5	
			Pos 16,88°	6	
			Pos 19,69°	7	
			Pos 22,50°	8	
			Pos 25,31°	9	
			Pos 28,13°	10	
			Pos 30,94°	11	
			Pos 33,75°	12	
			Pos 36,56°	13	
			Pos 39,38°	14	
			Pos 42,19°	15	
			Pos 45,00°	16	
			Pos 47,81°	17	
			Pos 50,63°	18	
			Pos 53,44°	19	
			Pos 56,25°	20	
			Pos 59,06°	21	
			Pos 61,88°	22	
			Pos 64,69°	23	
			Pos 67,50°	24	
			Pos 70,31°	25	
			Pos 73,13°	26	
			Pos 75,94°	27	
			Pos 78,75°	28	
			Pos 81,56°	29	
			Pos 84,38°	30	
			Pos 87,19°	31	
			Pos 90,00°	32	
			Pos 92,81°	33	
			Pos 95,63°	34	
			Pos 98,44°	35	
			Pos 101,25°	36	
			Pos 104,06°	37	
			Pos 106,88°	38	
			Pos 109,69°	39	
			Pos 112,50°	40	
			Pos 115,31°	41	
			Pos 118,13°	42	
			Pos 120,94°	43	
			Pos 123,75°	44	
			Pos 126,56°	45	
			Pos 129,38°	46	
			Pos 132,19°	47	
			Pos 135,00°	48	
			Pos 137,81°	49	
			Pos 140,63°	50	
			Pos 143,44°	51	
			Pos 146,25°	52	
			Pos 149,06°	53	
			Pos 151,88°	54	
			Pos 154,69°	55	
			Pos 157,50°	56	
			Pos 160,31°	57	
			Pos 163,13°	58	
			Pos 165,94°	59	
			Pos 168,75°	60	
			Pos 171,56°	61	
			Pos 174,38°	62	
			Pos 177,19°	63	
			Pos 180,00°	64	
			Pos 182,81°	65	
			Pos 185,63°	66	
			Pos 188,44°	67	
			Pos 191,25°	68	
			Pos 194,06°	69	
			Pos 196,88°	70	
			Pos 199,69°	71	
			Pos 202,50°	72	
			Pos 205,31°	73	
			Pos 208,13°	74	
			Pos 210,94°	75	
			Pos 213,75°	76	
			Pos 216,56°	77	
			Pos 219,38°	78	
			Pos 222,19°	79	
			Pos 225,00°	80	
			Pos 227,81°	81	
			Pos 230,63°	82	
			Pos 233,44°	83	
			Pos 236,25°	84	
			Pos 239,06°	85	
			Pos 241,88°	86	
			Pos 244,69°	87	
			Pos 247,50°	88	
			Pos 250,31°	89	
			Pos 253,13°	90	
			Pos 255,94°	91	
			Pos 258,75°	92	
			Pos 261,56°	93	
			Pos 264,38°	94	

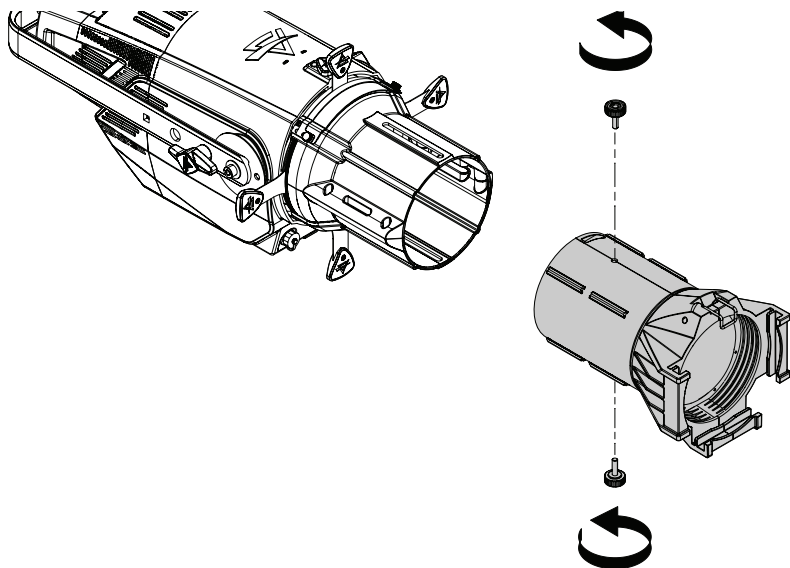
Uno Gobo	Duo Gobo	Standard Gobo	Function	DMX Value	Default
2	3	5	<b>GOBO ROTATION</b>		000
			Pos 267,19°	95	
			Pos 270,00°	96	
			Pos 272,81°	97	
			Pos 275,63°	98	
			Pos 278,44°	99	
			Pos 281,25°	100	
			Pos 284,06°	101	
			Pos 286,88°	102	
			Pos 289,69°	103	
			Pos 292,50°	104	
			Pos 295,31°	105	
			Pos 298,13°	106	
			Pos 300,94°	107	
			Pos 303,75°	108	
			Pos 306,56°	109	
			Pos 309,38°	110	
			Pos 312,19°	111	
			Pos 315,00°	112	
			Pos 317,81°	113	
			Pos 320,63°	114	
			Pos 323,44°	115	
			Pos 326,25°	116	
			Pos 329,06°	117	
			Pos 331,88°	118	
			Pos 334,69°	119	
			Pos 337,50°	120	
			Pos 340,31°	121	
			Pos 343,13°	122	
			Pos 345,94°	123	
			Pos 348,75°	124	
			Pos 351,56°	125	
			Pos 354,38°	126	
			Pos 357,19°	127	
			CW Spin 40,00 rpm	128	
			CW Spin 38,80 rpm	129	
			CW Spin 37,62 rpm	130	
			CW Spin 36,46 rpm	131	
			CW Spin 35,32 rpm	132	
			CW Spin 34,20 rpm	133	
			CW Spin 33,09 rpm	134	
			CW Spin 32,00 rpm	135	
			CW Spin 30,93 rpm	136	
			CW Spin 29,88 rpm	137	
			CW Spin 28,85 rpm	138	
			CW Spin 27,83 rpm	139	
			CW Spin 26,83 rpm	140	
			CW Spin 25,85 rpm	141	
			CW Spin 24,89 rpm	142	
			CW Spin 23,95 rpm	143	
			CW Spin 23,03 rpm	144	
			CW Spin 22,12 rpm	145	
			CW Spin 21,23 rpm	146	
			CW Spin 20,36 rpm	147	
			CW Spin 19,51 rpm	148	
			CW Spin 18,68 rpm	149	
			CW Spin 17,86 rpm	150	
			CW Spin 17,06 rpm	151	
			CW Spin 16,29 rpm	152	
			CW Spin 15,52 rpm	153	
			CW Spin 14,78 rpm	154	
			CW Spin 14,06 rpm	155	
			CW Spin 13,35 rpm	156	
			CW Spin 12,66 rpm	157	
			CW Spin 11,99 rpm	158	
			CW Spin 11,34 rpm	159	
			CW Spin 10,71 rpm	160	
			CW Spin 10,09 rpm	161	
			CW Spin 9,50 rpm	162	
			CW Spin 8,92 rpm	163	
			CW Spin 8,36 rpm	164	
			CW Spin 7,82 rpm	165	
			CW Spin 7,29 rpm	166	
			CW Spin 6,79 rpm	167	
			CW Spin 6,30 rpm	168	
			CW Spin 5,83 rpm	169	
			CW Spin 5,38 rpm	170	
			CW Spin 4,94 rpm	171	
			CW Spin 4,53 rpm	172	
			CW Spin 4,13 rpm	173	
			CW Spin 3,75 rpm	174	
			CW Spin 3,39 rpm	175	
			CW Spin 3,05 rpm	176	
			CW Spin 2,73 rpm	177	
			CW Spin 2,42 rpm	178	
			CW Spin 2,13 rpm	179	
			CW Spin 1,86 rpm	180	
			CW Spin 1,61 rpm	181	
			CW Spin 1,38 rpm	182	
			CW Spin 1,16 rpm	183	
			CW Spin 0,97 rpm	184	
			CW Spin 0,79 rpm	185	
			CW Spin 0,63 rpm	186	
			CW Spin 0,49 rpm	187	
			CW Spin 0,36 rpm	188	
			CW Spin 0,26 rpm	189	
			CW Spin 0,17 rpm	190	
			CW Spin 0,10 rpm	190	
			Stop	191	

Uno Gobo	Duo Gobo	Standard Gobo	Function	DMX Value	Default
2	3	5	<b>GOBO ROTATION</b>		
			Stop	192	
			CCW Spin 0,10 rpm	193	
			CCW Spin 0,17 rpm	194	
			CCW Spin 0,26 rpm	195	
			CCW Spin 0,36 rpm	196	
			CCW Spin 0,49 rpm	197	
			CCW Spin 0,63 rpm	198	
			CCW Spin 0,79 rpm	199	
			CCW Spin 0,97 rpm	200	
			CCW Spin 1,16 rpm	201	
			CCW Spin 1,38 rpm	202	
			CCW Spin 1,61 rpm	203	
			CCW Spin 1,86 rpm	204	
			CCW Spin 2,13 rpm	205	
			CCW Spin 2,42 rpm	206	
			CCW Spin 2,73 rpm	207	
			CCW Spin 3,05 rpm	208	
			CCW Spin 3,39 rpm	209	
			CCW Spin 3,75 rpm	210	
			CCW Spin 4,13 rpm	211	
			CCW Spin 4,53 rpm	212	
			CCW Spin 4,95 rpm	213	
			CCW Spin 5,38 rpm	214	
			CCW Spin 5,83 rpm	215	
			CCW Spin 6,30 rpm	216	
			CCW Spin 6,79 rpm	217	
			CCW Spin 7,29 rpm	218	
			CCW Spin 7,82 rpm	219	
			CCW Spin 8,36 rpm	220	
			CCW Spin 8,92 rpm	221	
			CCW Spin 9,50 rpm	222	
			CCW Spin 10,10 rpm	223	
			CCW Spin 10,71 rpm	224	
			CCW Spin 11,35 rpm	225	
			CCW Spin 12,00 rpm	226	
			CCW Spin 12,67 rpm	227	
			CCW Spin 13,35 rpm	228	
			CCW Spin 14,06 rpm	229	
			CCW Spin 14,79 rpm	230	
			CCW Spin 15,53 rpm	231	
			CCW Spin 16,29 rpm	232	
			CCW Spin 17,07 rpm	233	
			CCW Spin 17,86 rpm	234	
			CCW Spin 18,68 rpm	235	
			CCW Spin 19,51 rpm	236	
			CCW Spin 20,37 rpm	237	
			CCW Spin 21,24 rpm	238	
			CCW Spin 22,12 rpm	239	
			CCW Spin 23,03 rpm	240	
			CCW Spin 23,95 rpm	241	
			CCW Spin 24,90 rpm	242	
			CCW Spin 25,86 rpm	243	
			CCW Spin 26,84 rpm	244	
			CCW Spin 27,83 rpm	245	
			CCW Spin 28,85 rpm	246	
			CCW Spin 29,88 rpm	247	
			CCW Spin 30,93 rpm	248	
			CCW Spin 32,00 rpm	249	
			CCW Spin 33,09 rpm	250	
			CCW Spin 34,20 rpm	251	
			CCW Spin 35,32 rpm	252	
			CCW Spin 36,47 rpm	253	
			CCW Spin 37,63 rpm	254	
			CCW Spin 38,81 rpm	255	
			CCW Spin 40,00 rpm	255	
3	4	6	<b>GOBO ROTATION FINE</b>		
			All 16bit DMX values are possible, the list above only shows intermedium value.	000 ÷ 255	000

## 13 - ACCESSORIES INSTALLATION

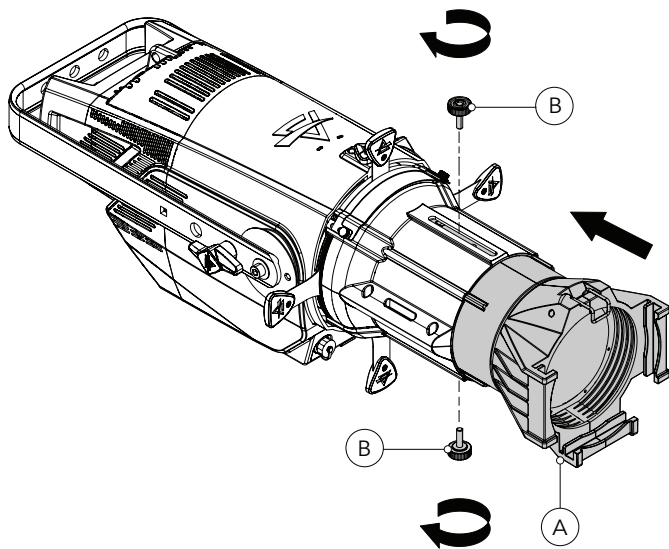
### OPTIC (CODE ECLPRL - OPTIONAL)

1



Loosen and remove the two marked knobs of the optic.

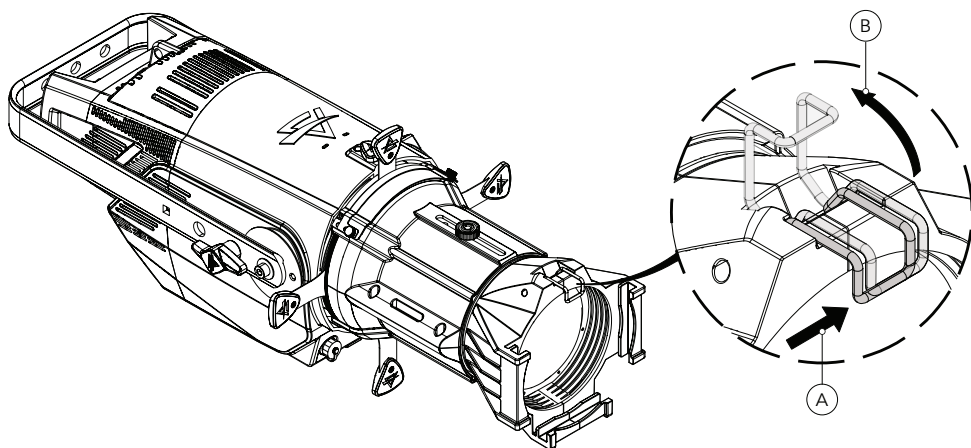
2



Mount the desired optic (A) in the middle part. Then insert and tighten the knobs (B) in the holes.

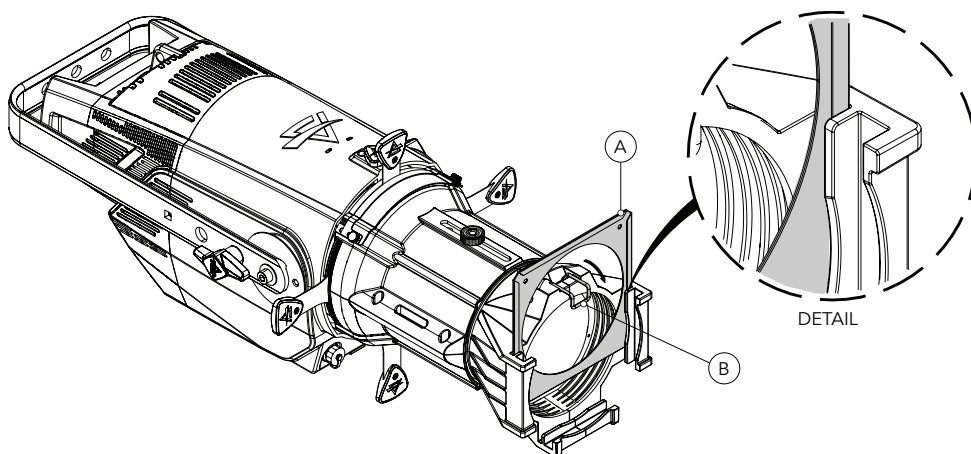
Fig. 08

1



Push the clip (A), located at the top of the optics body, outwards and lift it (B).

2



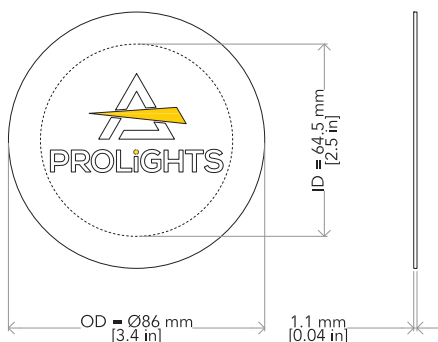
Insert the filter (A) into the marked track (DETAIL) and close the clip (B), always applying an outward push.  
NOTE: To remove the accessory, reverse the procedure.

Fig. 09

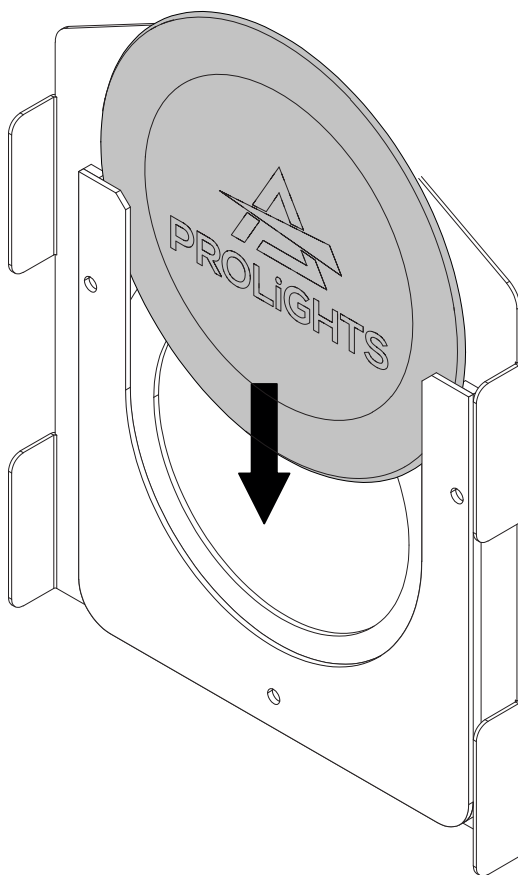
## GOBO HOLDER (CODE ECLPRGH - OPTIONAL)

Gobo dimensions:

- Type B
- $\varnothing$  external (OD)= 86 mm (3.4 in)
- $\varnothing$  of image (ID)= 64.5 mm (2.5 in)
- Thickness= 1.1 mm (0.04 in)



1

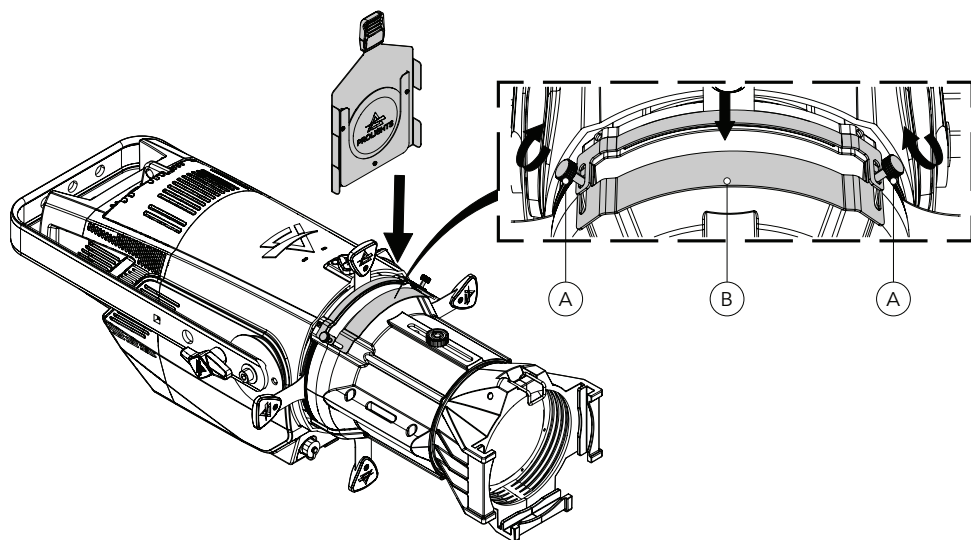


Put in place the gobo (2).

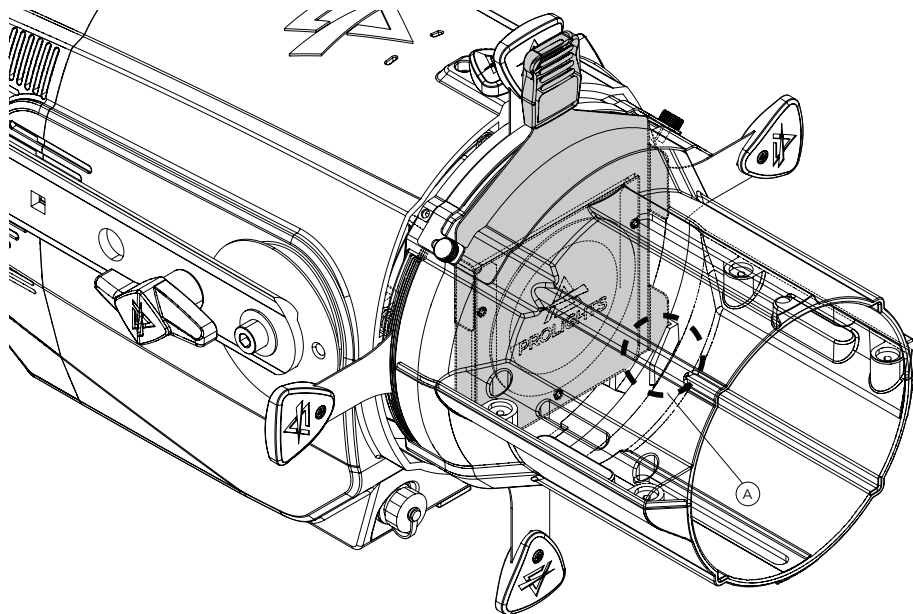
**ATTENTION!** Load with mirror surface toward the light source.

Please turn! →





Loosen the marked screws (A). Then open the slot of the middle part (B).

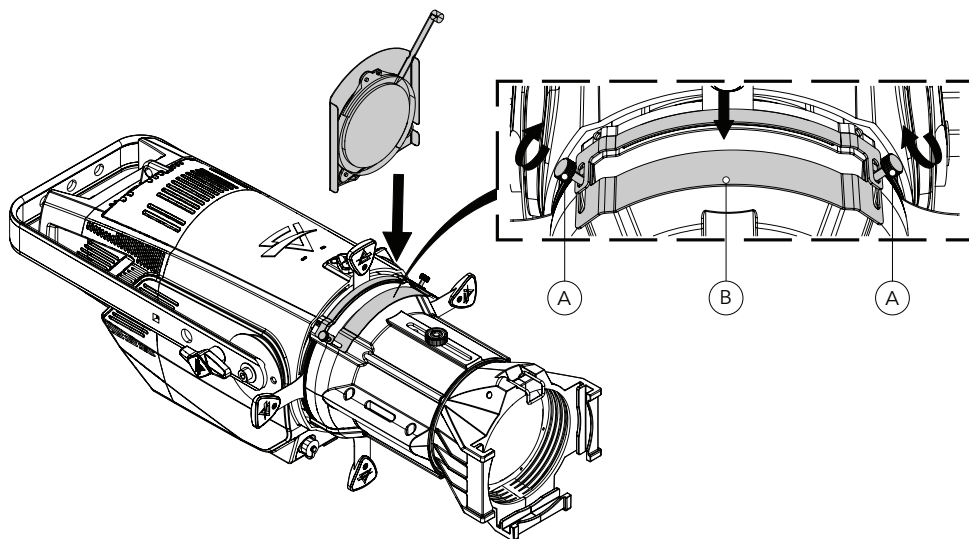


Insert the gobo holder into the slot. The flaps (A) will go into the appropriate size.

NOTE: To remove the accessory, reverse the procedure.

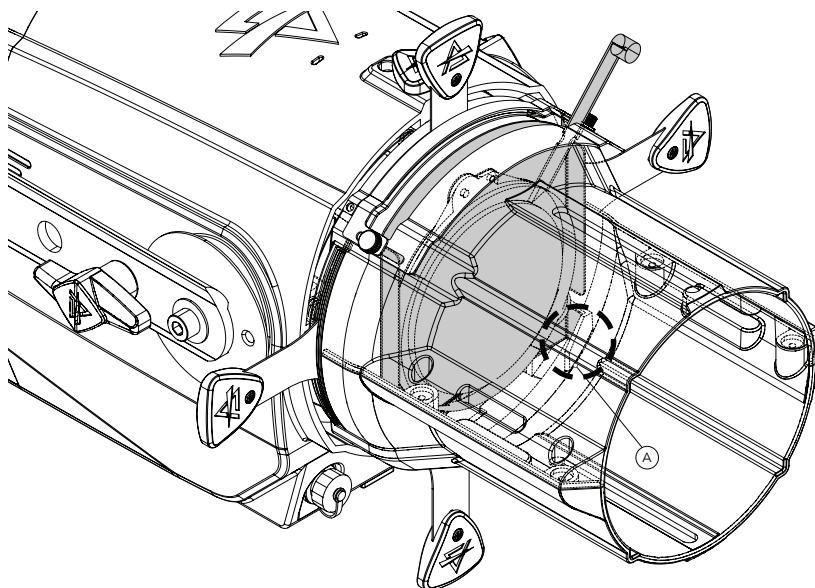
Fig. 11

1



Loosen the marked screws (A). Then open the slot of the middle part (B).

2

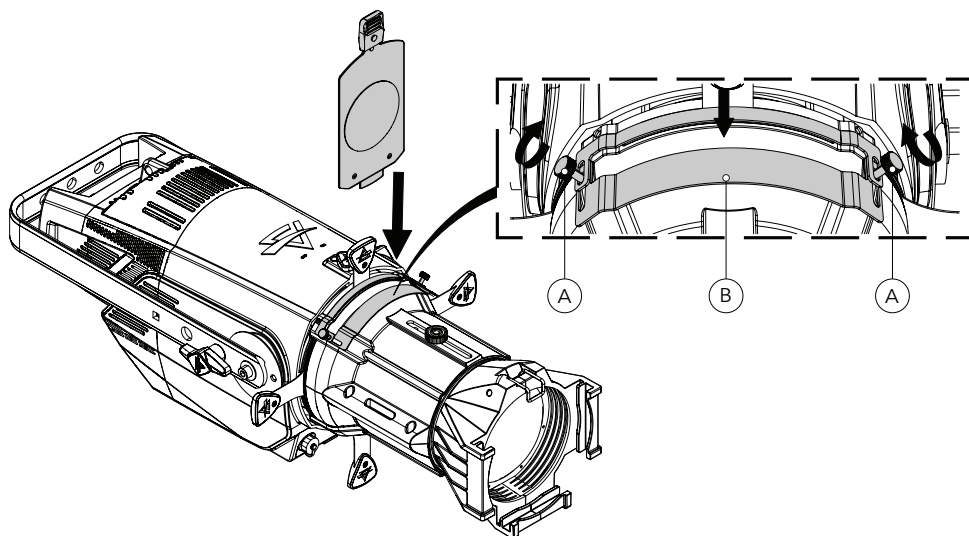


Insert the steel iris diaphragm into the slot. The flaps (A) will go into the appropriate size.

NOTE: To remove the accessory, reverse the procedure.

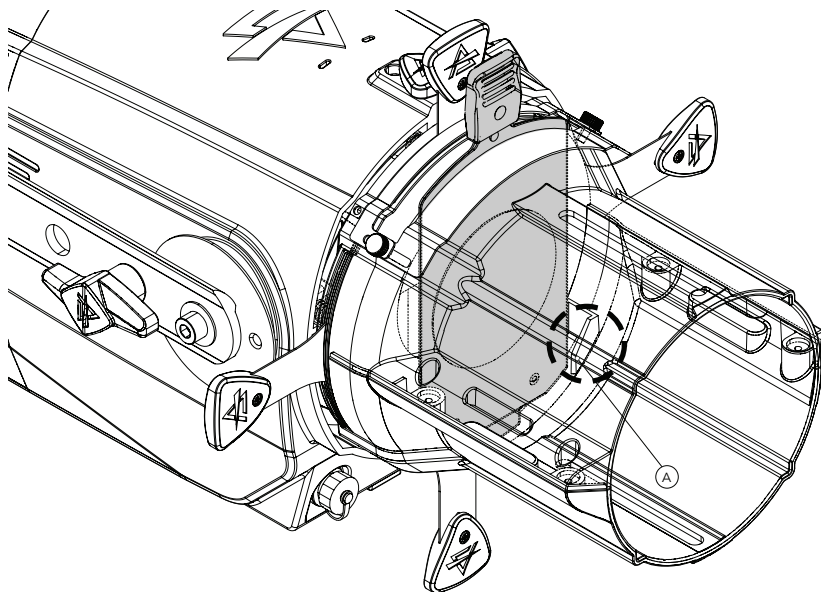
Fig. 12

1



Loosen the marked screws (A). Then open the slot of the middle part (B).

2

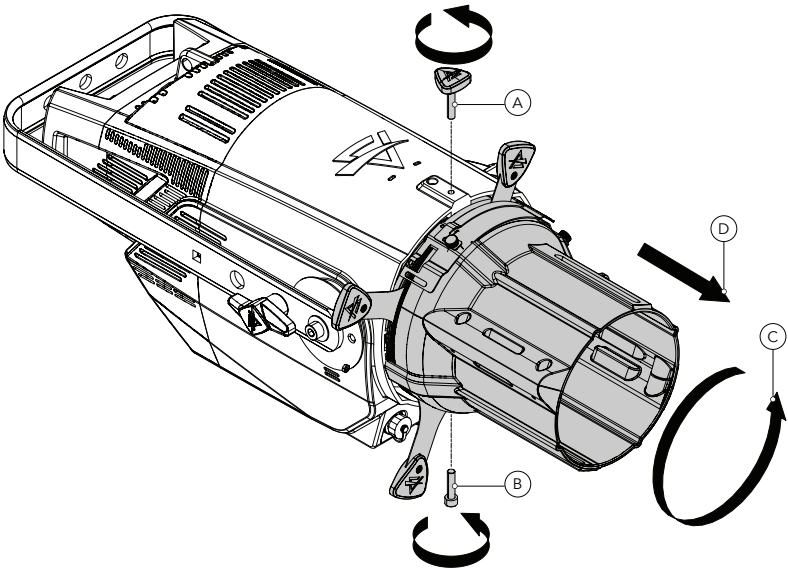


Insert the soft edge filter into the slot. The flaps (A) will go into the appropriate size.

NOTE: To remove the accessory, reverse the procedure.

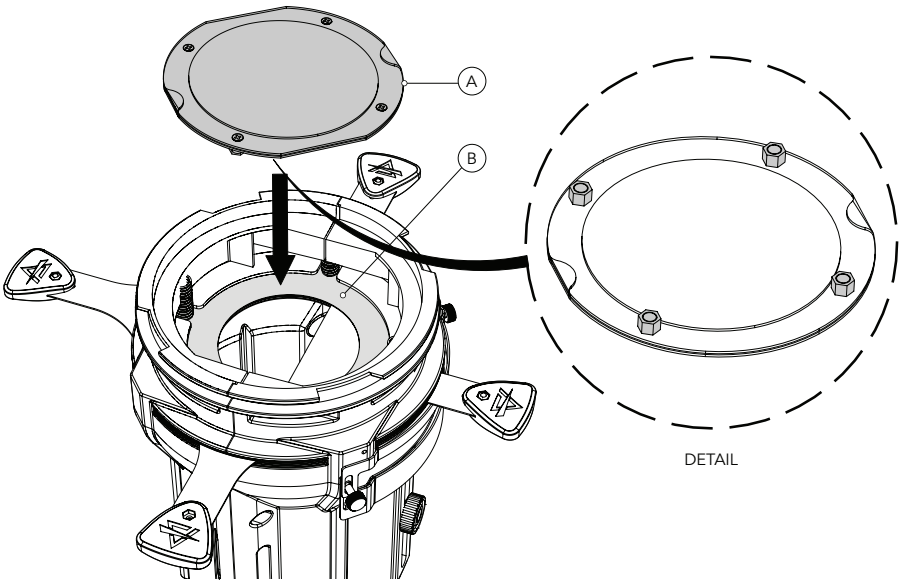
Fig. 13

1



Loosen the marked knob (A) and screw (B). Then rotate (C) the middle part and remove it (D).

2

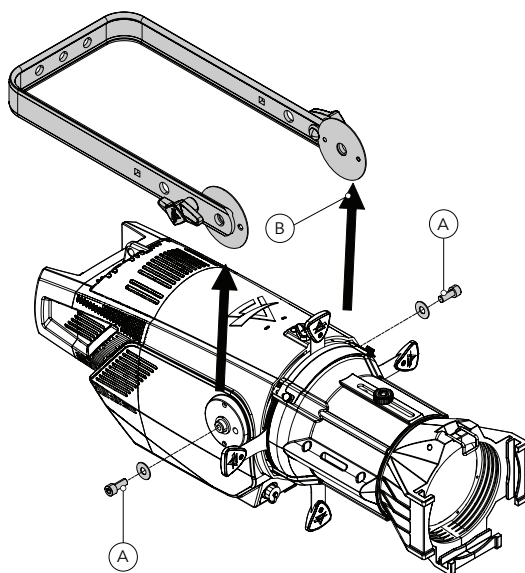


Insert the soft focus diffusion (A) by placing the magnets (DETAIL) on the back of the framing system (B) of the middle part.

NOTE: To remove the accessory, reverse the procedure.

Fig. 14

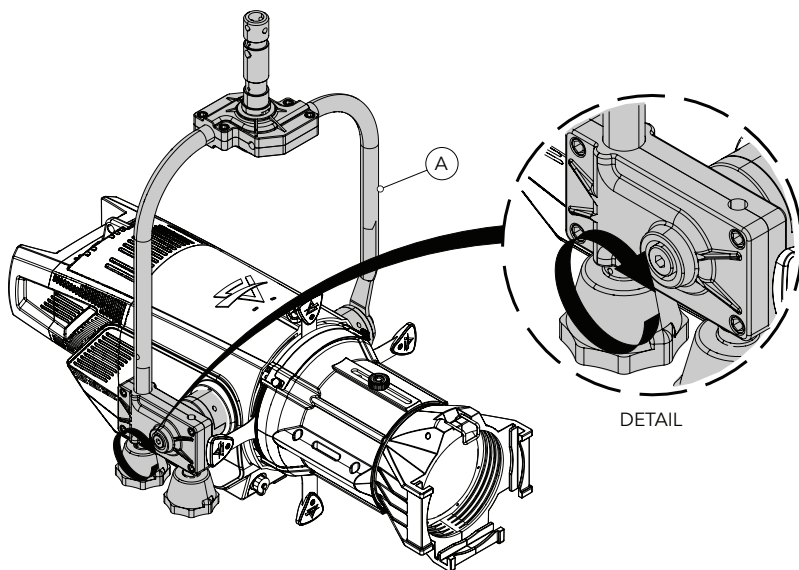
1



Loosen and remove the marked screws (A). Then remove the bracket (B).

---

2

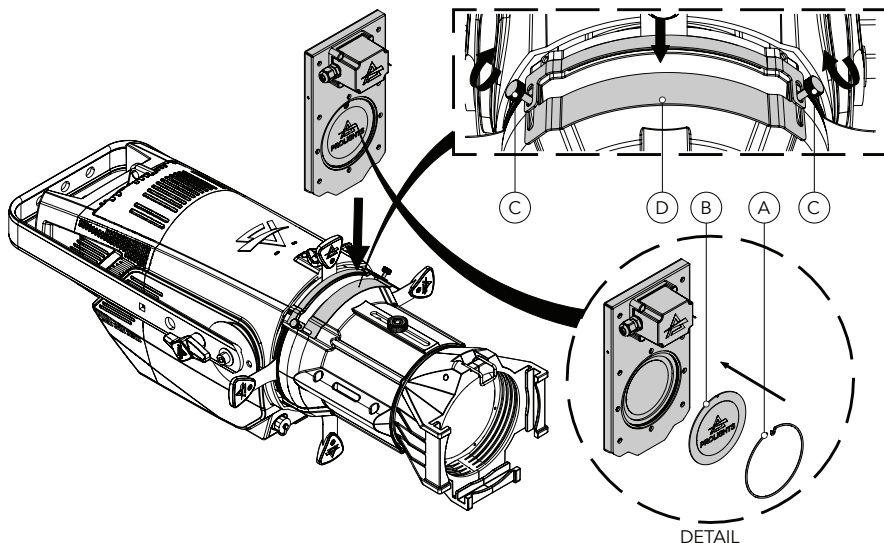


Mount the Pole Operated Yoke bracke (A) and tighten the screws (DETAIL).

NOTE: To remove the accessory, reverse the procedure.

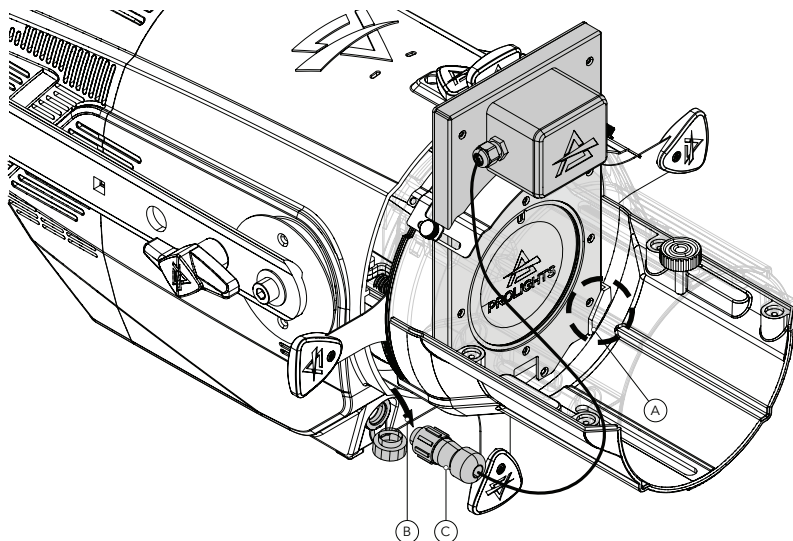
Fig. 15

1



To insert a gobo into the marked rotating gobo assembly, remove the spring (A) and insert the new gobo (B) following the procedure shown in the image (DETAIL). Loosen the marked screws (C). Then open the slot of the middle part (D).

2



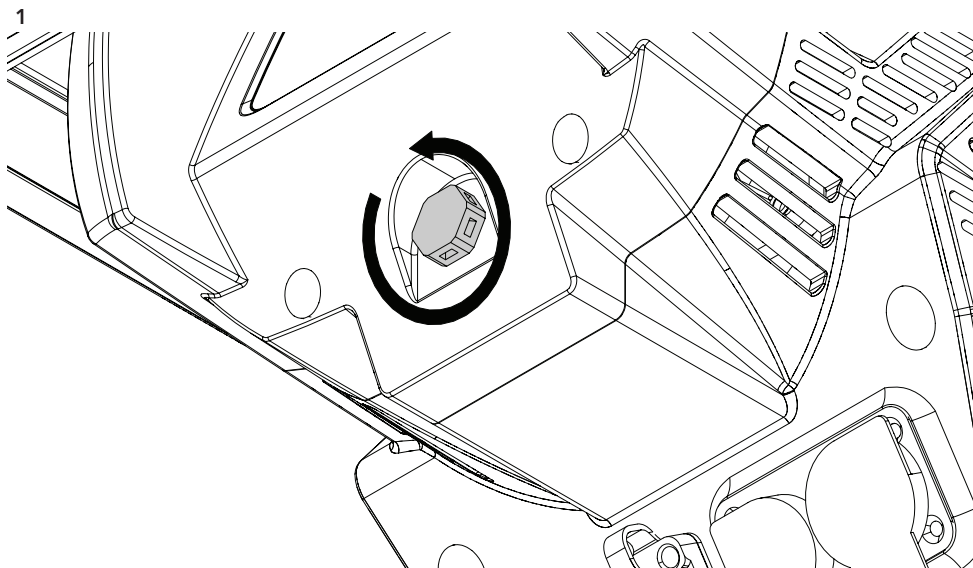
Insert the soft edge filter into the slot. The flaps (A) will go into the appropriate size. Then connect the rotating gobo assembly through the connector (C) into the socket.

NOTE: To remove the accessory, reverse the procedure.

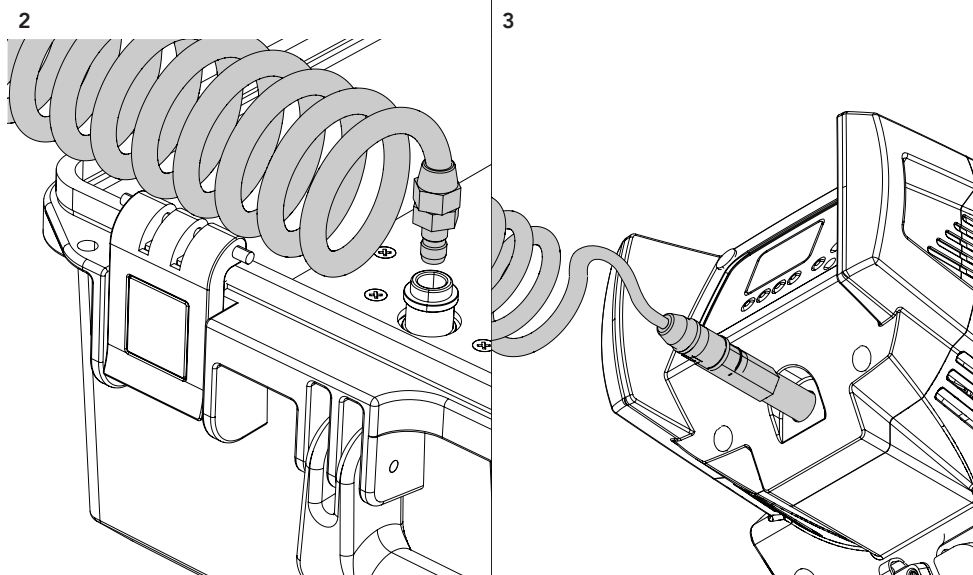
Fig. 16

## 14 - TEST OF IP65 RATING

To check sealing after servicing use the IPTESTBOX.



Remove the gore valve from the connections panel.



Connect the air hose to the IPTESTBOX by inserting the quick-connect fitting into the coupler (2). Insert the threaded end into the threaded valve hole socket (3). For the operating procedure using the instrument, refer to the IPTESTBOX user manual.

Fig. 17



# 15 - 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	<ul style="list-style-type: none"> <li>No power to the product.</li> </ul>	<ul style="list-style-type: none"> <li>Check that power is switched ON and cables are plugged in.</li> </ul>
	<ul style="list-style-type: none"> <li>Fuse blown or internal fault.</li> </ul>	<ul style="list-style-type: none"> <li>Check if the Fuse is intact and eventually replace it if necessary.</li> <li>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.</li> </ul>
Product reset correctly but does not respond correctly to the controller.	<ul style="list-style-type: none"> <li>Bad signal connection.</li> </ul>	<ul style="list-style-type: none"> <li>Inspect connections and cables. Fix eventual bad connections. Repair or replace damaged cables.</li> </ul>
	<ul style="list-style-type: none"> <li>Signal connection not terminated.</li> </ul>	<ul style="list-style-type: none"> <li>Insert DMX termination plug in signal output socket of the last product on the signal line.</li> </ul>
	<ul style="list-style-type: none"> <li>Incorrect addressing of the product.</li> </ul>	<ul style="list-style-type: none"> <li>Check the product address and control settings.</li> </ul>
	<ul style="list-style-type: none"> <li>One of the product is defective and is corrupting the signal transmission on the signal line.</li> </ul>	<ul style="list-style-type: none"> <li>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.</li> </ul>
Timeout error after fixture reset.	<ul style="list-style-type: none"> <li>One or more hardware components requires mechanical adjustments</li> </ul>	<ul style="list-style-type: none"> <li>Check product stored error messages for more information. Contact PROLIGHTS Service or an authorized service partner.</li> </ul>
Mechanical effect loses position	<ul style="list-style-type: none"> <li>Mechanical hardware require cleaning, adjustment or lubrication.</li> </ul>	<ul style="list-style-type: none"> <li>Check product stored error messages for more information. Contact PROLIGHTS Service or an authorized service partner.</li> </ul>
Light output turn OFF Intermittently	<ul style="list-style-type: none"> <li>Fixture is too hot.</li> </ul>	<ul style="list-style-type: none"> <li>Check product stored error messages.</li> <li>Allow product to cool.</li> <li>Clean the product and airflow filters.</li> <li>Reduce ambient temperature.</li> </ul>
	<ul style="list-style-type: none"> <li>Hardware failure (temperature sensor, fans, Light source...).</li> </ul>	<ul style="list-style-type: none"> <li>Check product stored error messages for more information. Contact PROLIGHTS Service or an authorized service partner.</li> </ul>
General low light intensity	<ul style="list-style-type: none"> <li>Dirty lens assembly.</li> </ul>	<ul style="list-style-type: none"> <li>Clean the fixture regularly.</li> </ul>
	<ul style="list-style-type: none"> <li>Dirty or damaged filters.</li> </ul>	<ul style="list-style-type: none"> <li>Install lens assembly properly.</li> </ul>

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.

[illegible]



