EQUINOX

Helix Evo XP 150W Barrel

User Manual



Order codes:

EQLED208 - Black Housing

EQLED208A - White Housing

WARNING

FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE YOUR INITIAL START-UP!

- Before your initial start-up, please make sure that there is no damage caused during transportation.
- Should there be any damage, consult your dealer and do not use the equipment.
- To maintain the equipment in good working condition and to ensure safe operation, it is necessary for the user to follow the safety instructions and warning notes written in this manual.
- Please note that damages caused by user modifications to this equipment are not subject to warranty.



CAUTION!
KEEP THIS EQUIPMENT AWAY FROM RAIN, MOISTURE AND LIQUIDS



CAUTION!
TAKE CARE USING THIS EQUIPMENT!
HIGH VOLTAGE-RISK OF ELECTRIC SHOCK!!

IMPORTANT:

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorised modification to the equipment.

- Never let the power cable come into contact with other cables. Handle the power cable and all mains voltage connections with particular caution!
- Never remove warning or informative labels from the unit.
- Do not open the equipment and do not modify the unit.
- Do not connect this equipment to a dimmer pack.
- Do not switch the equipment on and off in short intervals, as this will reduce the system's life.
- Only use the equipment indoors.
- Do not expose to flammable sources, liquids or gases.
- Always disconnect the power from the mains when equipment is not in use or before cleaning! Only handle the power-cable by the plug. Never pull out the plug by pulling the power-cable.
- Make sure that the available mains supply voltage is between 100~240V AC, 50/60Hz.
- Make sure that the power cable is never crimped or damaged. Check the equipment and the power cable periodically.
- If the equipment has been exposed to drastic temperature fluctuation (e.g. after transportation), do not connect power or switch it on immediately. The arising condensation might damage the equipment. Leave the equipment switched off until it has reached room temperature.
- Never touch the fixture during operation as it may be hot.
- If the equipment is dropped or damaged, disconnect the mains power supply immediately and have a qualified engineer inspect the equipment before operating again.
- If your product fails to function correctly, stop use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Pro Light dealer for service.
- Only use fuses of same type and rating.
- Repairs, servicing and power connection must only be carried out by a qualified technician. THIS UNIT CONTAINS NO USER SERVICEABLE PARTS.
- This lighting fixture is for professional use only - it is not designed for or suitable for household use. The product must be installed by a qualified technician in accordance with local territory regulations. The safety of the installation is the responsibility of the installer. The fixture presents risks of severe injury or death due to fire hazards, electric shock and falls.
- Warning! Risk Group 2 LED product according to EN 62471. Do not view the light output with optical instruments or any device that may concentrate the beam.
- WARRANTY: One year from date of purchase.

OPERATING DETERMINATIONS

If this equipment is operated in any other way, than those described in this manual, the product may suffer damage and the warranty becomes void. Incorrect operation may lead to danger e.g: short-circuit, burns and electric shocks etc.

Do not endanger your own safety and the safety of others!

Incorrect installation or use can cause serious damage to people and/or property.

Please note: These fixtures are intended for stage lighting and entertainment applications only, and are not intended for extended periods of use, including but not limited to house-light, industrial or architectural applications and should only be operated with short duty cycles.

Helix Evo XP 150W Barrel

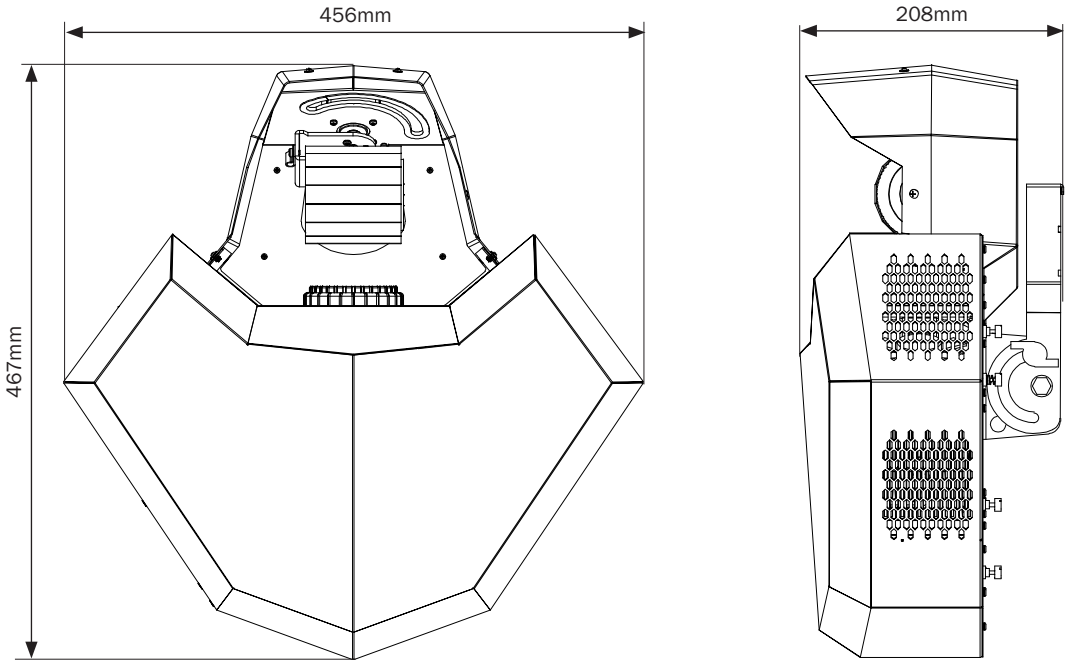
Expanding on the success of the popular Helix range, the Equinox Helix Evo XP is a powerful 150W barrel effect combined with a mirror dish to project an array of multi-coloured rotating gobos that sweep across the room. All 8 gobos are interchangeable along with a separate colour wheel featuring 9 colours plus open. To further enhance this effect, an additional 11-piece gobo pack is also included to cover many popular events and celebrations. Clever programming allows users to select a single gobo and then have specific colours from the colour wheel added whilst being activated automatically or via sound. The unit has a wide beam angle but still packs a punch over a long distance thanks to its superior optics and high output LED. The Helix Evo XP can be linked with the Helix XP, Helix Scan XP and Helix Roller XP to create synchronised shows. Available in a black or white housing.

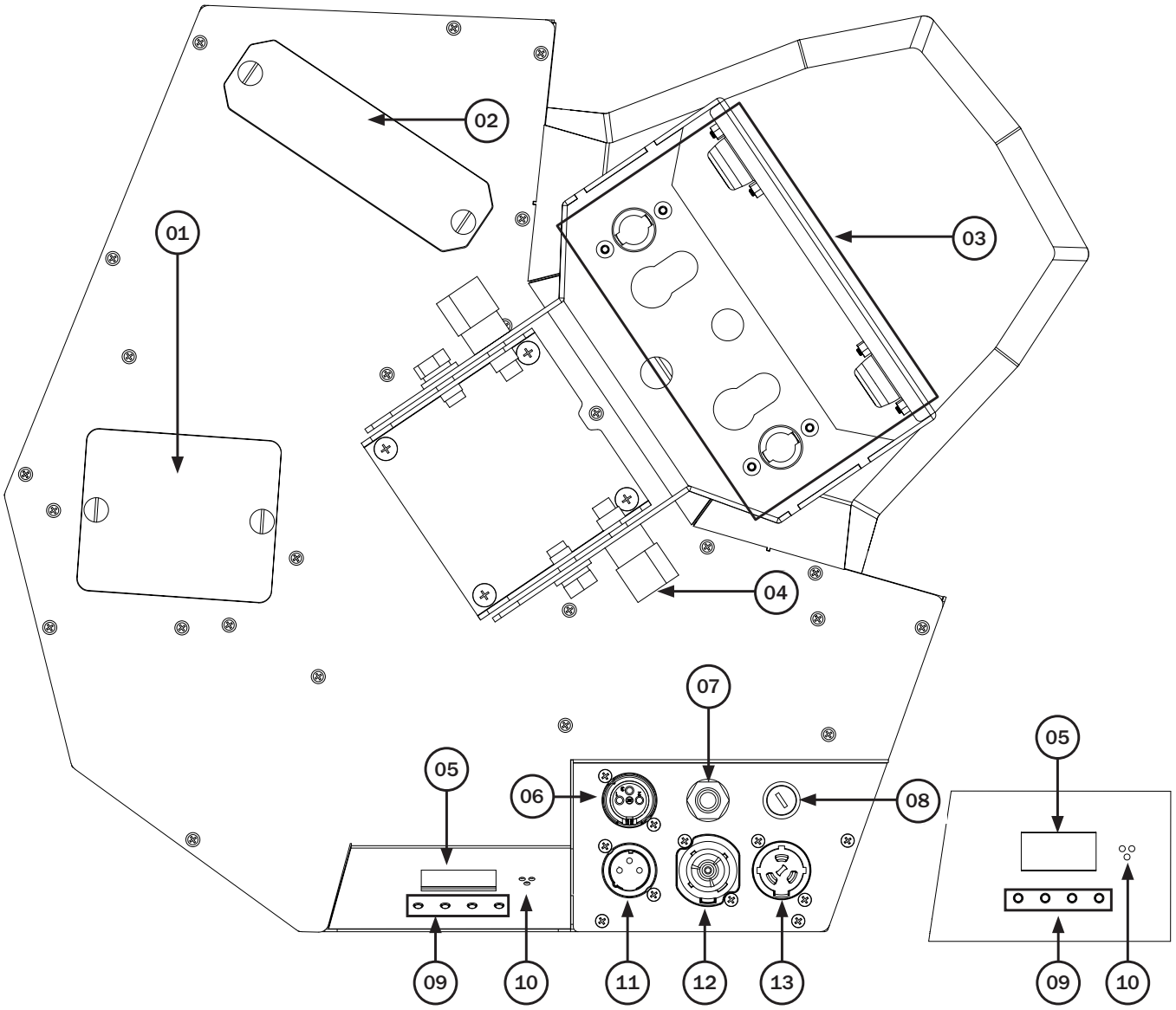
- 1 x 150W cool white LED (7700K)
- Beam angle: 2.3° (per beam)
- Beam angle: 22° (per gobo flower)
- Coverage angle: 160°
- Refresh rate: 1kHz
- Manual focus
- 8 rotating, replaceable gobos
- 9 colours + open

Specifications	
Power consumption	149W
Power supply	100~240V, 50/60Hz
Fuse	T5A 250V
Dimensions	467 x 456 x 208mm
Weight	7.5kg
Order code	EQLED208 - Black housing EQLED208A - White housing

- DMX channels: 3/9 or 12 selectable
- Auto, sound active and primary/secondary modes plus built-in programs
- Pan: 180°, Tilt: 360° continuous
- 0 - 100% dimming
- Variable strobe
- Optional CA 8 controller
- Supplied with quick release omega clamp
- Heavy duty bracket with multiple omega, clamp and wall mounting options
- 4 push button menu with OLED display
- PowerTwist TR1 input/output
- 3-Pin XLR input/output
- Fan cooled
- Supplied with an additional gobo pack containing 11 popular gobos





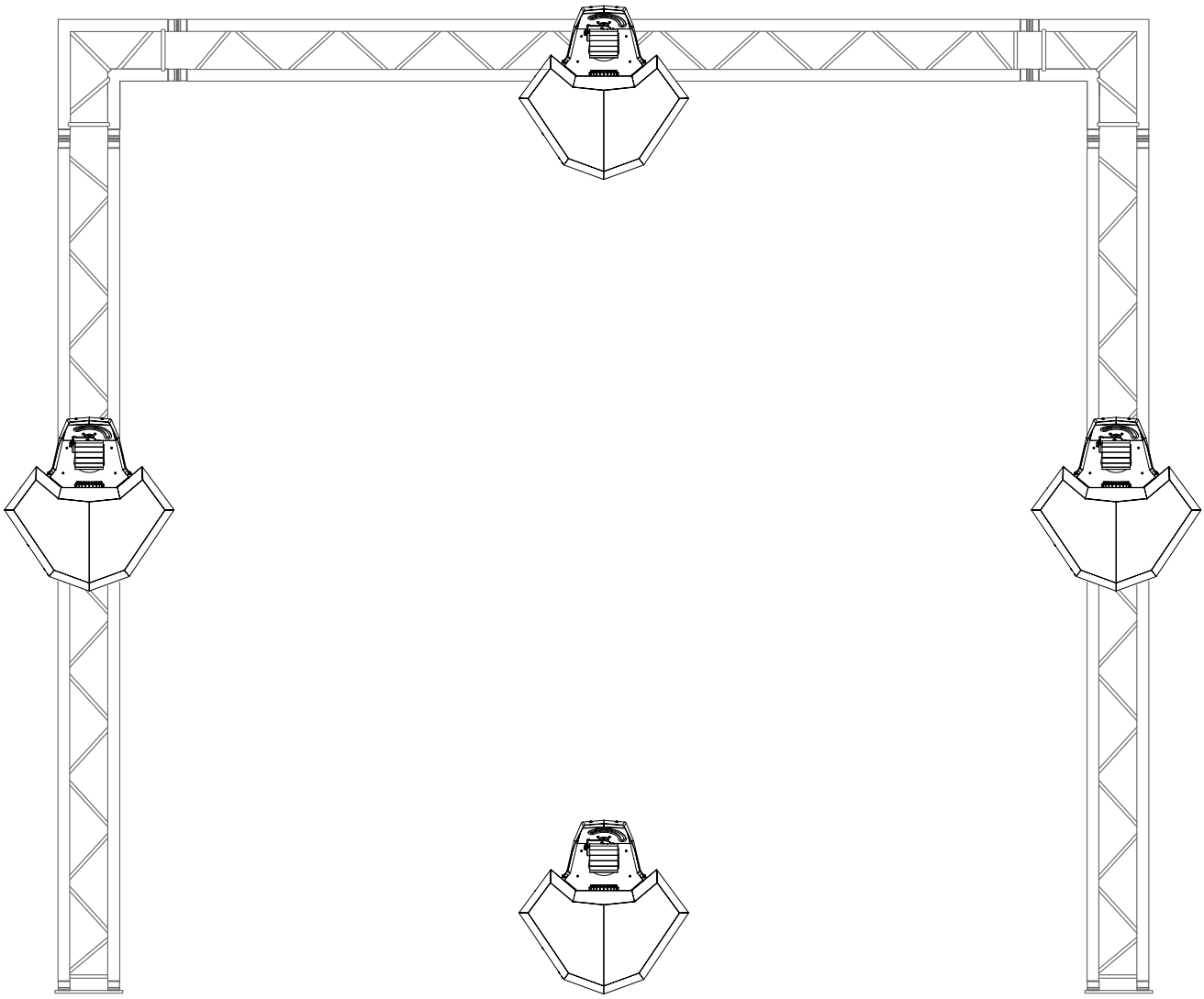


01 - Gobo access slot
02 - Fan access slot
03 - Omega clamp receivers
04 - Hanging bracket adjustment knob
05 - OLED Display
06 - 3-Pin DMX output
07 - CA-8 input
08 - Fuse: T5A 250V
09 - Function buttons
10 - Microphone
11 - 3-Pin DMX input
12 - PowerTwist TR1 output
13 - PowerTwist TR1 input

In the box: **1 x fixture, 1 x power cable & 1 x omega clamp**

Before installing the fixture, the supporting structure (ie. truss) must be able to hold a minimum of 10 times the fixtures weight without any deformation (eg. 15kg - 150kg point load). The fixture must be secured with a secondary safety attachment when being installed (ie. an appropriate safety cable). Never stand directly below the fixture when mounting, removing, and/or servicing.

Overhead installation requires experience and qualifications to calculate working load limits, the material being used at the installation area and periodic safety inspections of the fixture and installation material. If you do not have the relevant experience and/or qualifications please do not attempt the installation yourself. The installation should be checked annually by a qualified person.



The Helix Evo XP 150W Barrel can be operated in a number of mounting positions as shown in the diagram above, hanging from the ceiling or truss, mounting sideways on truss or stood upright on a flat level surface. Always use a safety wire as an extra safety precaution to prevent damage/injury in the event a clamp fails (see the next page for clamp installation).
Never use the carry handles for secondary attachments.

Installation:

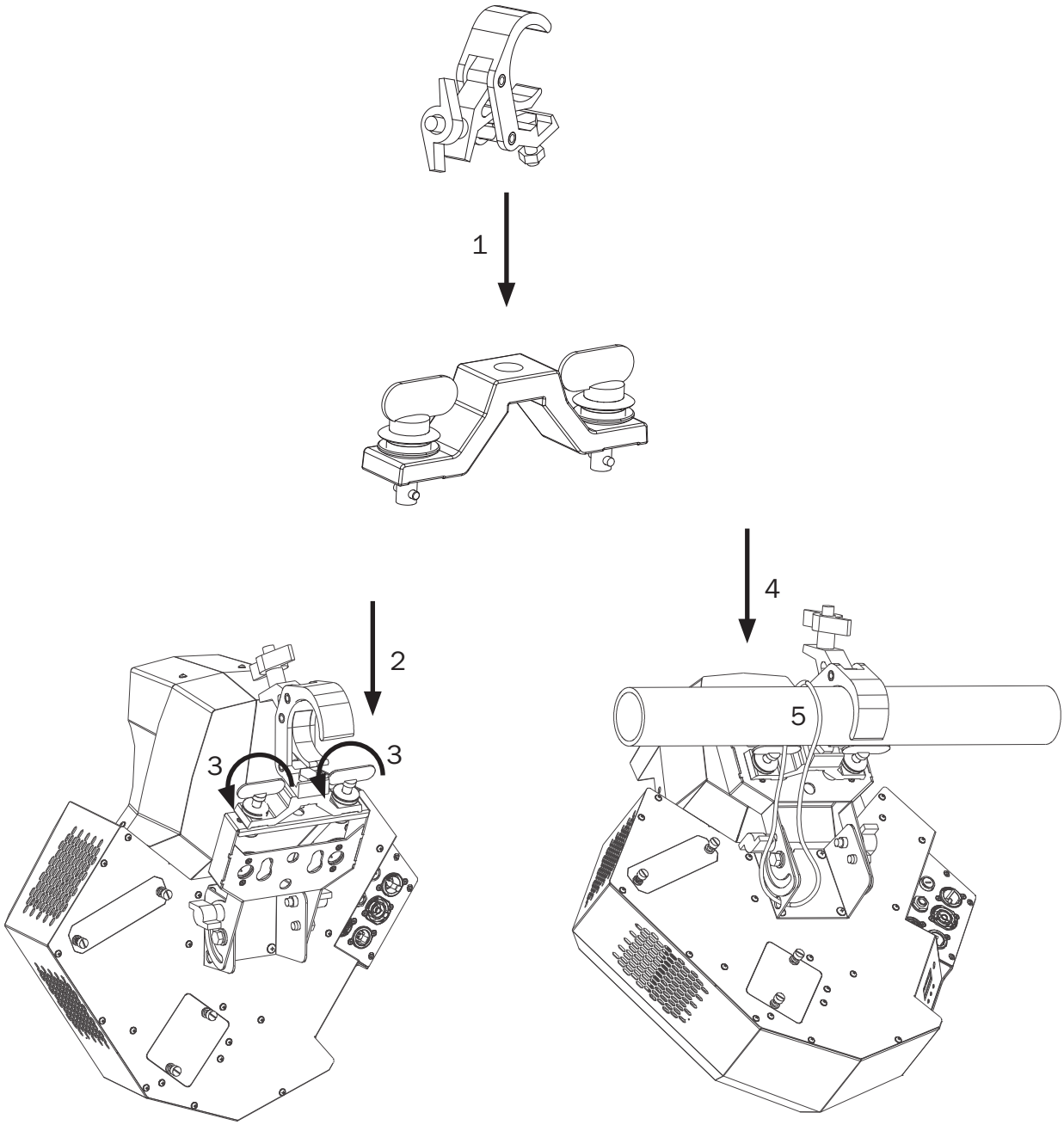
1. Fasten each clamp to the omega clamps with a bolt and lock nut through the hole in the omega clamp.

2. Align and insert the omega clamp quick-lock fasteners with the respective holes on the bottom of the unit.

3. Tighten both locking fasteners clockwise on each omega clamp ensuring they're fully secure.

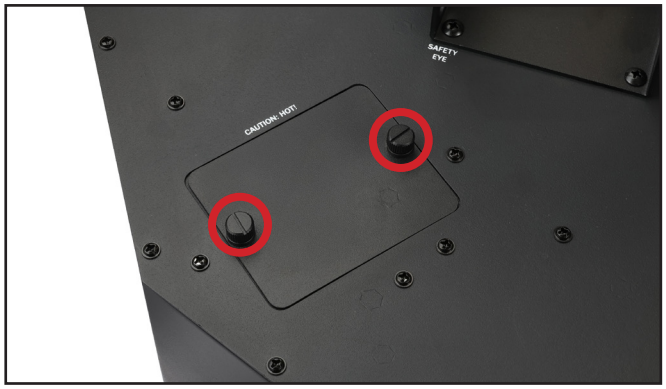
4. Mount the fixture onto your truss system via the clamps and tighten to ensure secure.

5. Pull the safety cable through the safety cable holes located on the metal base plate on the underside of the fixture and around the truss.

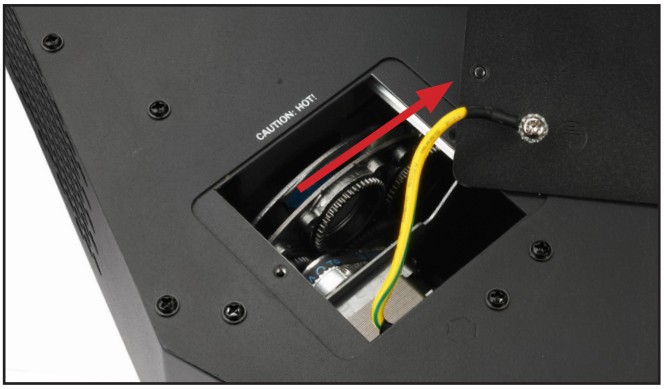


Rotating Gobo Replacement:

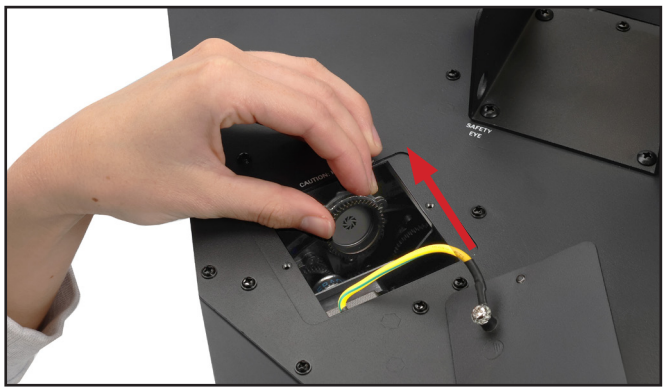
The fixture is supplied with 8 rotating, replaceable gobos. See below for installation instructions.



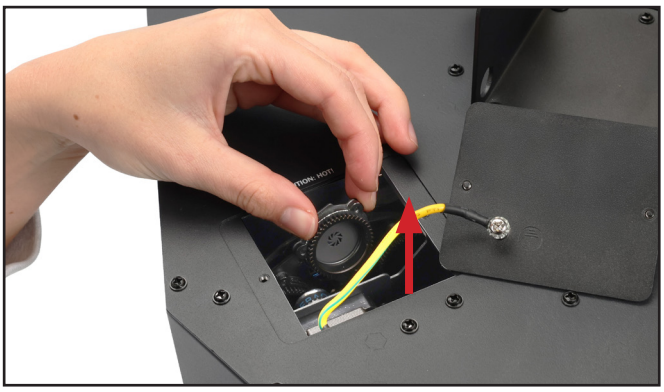
1) Disconnect and isolate from power and wait for the unit to cool, place the fixture on a flat surface and unscrew the thumbscrews on the gobo access door.



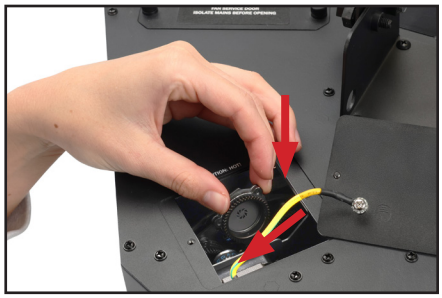
2) Remove the gobo access door (this is connected to the main chassis with an earth wire, do not disconnect this).



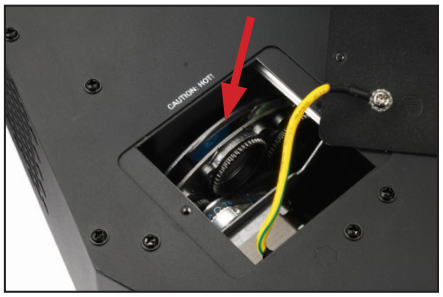
3) Carefully push the gobo holder you are wanting to replace away from the gobo wheel.



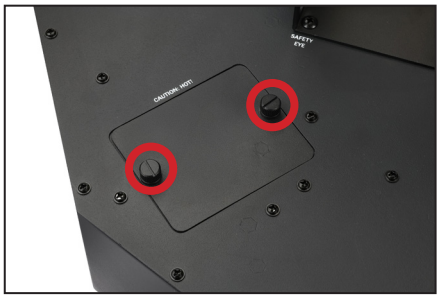
4) Pull the gobo holder up out of the unit. Now you can remove the circlip, followed by the gobo from the gobo tray. Replace the gobo and fit the circlip back into the tray.



5) Push the gobo holder back into the slot in the gobo wheel and push towards to gobo wheel to ensure it is seated correctly.



6) Move the gobo access door back into position over the gobo access slot.



7) Tighten both thumbscrews to secure the gobo access door.

Main Menu	Sub Menu	Options/Values (Default Settings in BOLD)		Description
DMX Functions	DMX Address	**001-512**		DMX Settings
	Mode	3 Channel		
		9 Channel		
		12 Channel		
	DMX Fail	Blackout		
		Last		
		Program		
Show Settings	Sound	Sound Mode	**Yes**	Sound Mode
			No	
		Sound Sense	0-99 **(80)**	Sound Sensitivity
	Show Chase	Show0	Sp00-99 **(50)**	Show Mode
		Show1	Sp00-99 **(50)**	
		Show2	Sp00-99 **(50)**	
		Show3	Sp00-99 **(50)**	
		Show4	Sp00-99 **(50)**	
		Show5	Sp00-99 **(50)**	
		Show6	Sp00-99 **(50)**	
		Show7	Sp00-99 **(50)**	
	P/S mode	Primary		Primary/Secondary Mode
		Secondary1		
		Secondary2		
Manual Mode	1. Dimmer	**000**-255		Manual Controls
	2. Strobe	**000**-255		
	3. Pan	**000**-255		
	4. Barrel Rotation	**000**-255		
	5. Color	**000**-255		
	6. Gobo	**000**-255		
	7. R-Gobo	**000**-255		
	8. Dish Rotation	**000**-255		
Display Settings	Display Inverse	**No**		Invert Display Orientation
		Yes		
	Backlight Auto Off	**Yes**		Display Backlight Settings
		No		
	Display Contrast	0-10 **(10)**		Display Contrast Settings
Fixture Information	Fixture Hour	xxx		Fixture Run Time
	Firmware Version	CPU-A V x.x B x.x		Software Version
Special Functions	Factory Setting	**No**		Factory Default Settings
		Yes		

3 channel mode:

Channel	Value	Function
CH1	000-012	Blackout
	013-042	Show 0 (all programs)
	043-072	Show 1
	073-102	Show 2
	103-132	Show 3
	133-162	Show 4
	163-192	Show 5
	193-222	Show 6
	223-255	Show 7
CH2	000-255	Speed (slow-fast)
CH3	000-015	No function
	016-255	Sensitivity (low-high)

9 channel mode:

Channel	Value	Function
CH1	000-255	Master dimmer (0-100%)
CH2	000-031	Blackout
	032-063	Open
	064-095	Strobe (slow-fast)
	096-127	Open
	128-159	Pulse Strobe (slow-fast)
	160-191	Open
	192-223	Random Strobe (slow-fast)
	224-255	Open
CH3	000-015	Open
	016-022	Colour 1 (Red)
	023-029	Colour 2 (Red/Blue)
	030-036	Colour 3 (Blue)
	037-043	Colour 4 (Blue/Pink)
	044-050	Colour 5 (Pink)
	051-057	Colour 6 (Pink/Yellow)
	058-064	Colour 7 (Yellow)
	065-071	Colour 8 (Yellow/Green)
	072-078	Colour 9 (Green)
	079-085	Colour 10 (Green/Orange)
	086-092	Colour 11 (Orange)
	093-099	Colour 12 (Orange/Cyan)
	100-106	Colour 13 (Cyan)
	107-113	Colour 14 (Cyan/UV)
	114-120	Colour 15 (UV)
	121-127	Colour 16 (3200K)
	128-191	Colour Scroll Clockwise (fast-slow)
	192-255	Colour Scroll Anti-clockwise (slow-fast)
CH4	000-016	Gobo 1
	017-033	Gobo 2
	034-050	Gobo 3
	051-067	Gobo 4
	068-084	Gobo 5
	085-101	Gobo 6
	102-118	Gobo 7
	119-135	Gobo 8
	136-195	Gobo Scroll Clockwise (fast-slow)
	196-255	Gobo Scroll Anti-clockwise (slow-fast)

Channel	Value	Function
CH5	0-127	Gobo Rotation Index
	128-191	Gobo Rotation Clockwise (fast-slow)
	192-255	Gobo Rotation Anti-clockwise (slow-fast)
CH6	000-255	Pan (180°)
CH7	000-127	Barrel Index
	128-191	Barrel Rotation Clockwise (fast-slow)
	192-255	Barrel Rotation Anti-clockwise (slow-fast)
CH8	000-255	Pan/Tilt speed (fast-slow)
CH9	000-127	Dish Index
	128-191	Dish Rotation Clockwise (fast-slow)
	192-255	Dish Rotation Anti-clockwise (slow-fast)

12 channel mode:

Channel	Value	Function
CH1	000-255	Master dimmer (0-100%)
CH2	000-031	Blackout
	032-063	Open
	064-095	Strobe (slow-fast)
	096-127	Open
	128-159	Pulse Strobe (slow-fast)
	160-191	Open
	192-223	Random Strobe (slow-fast)
	224-255	Open
CH3	000-015	Open
	016-022	Colour 1 (Red)
	023-029	Colour 2 (Red/Blue)
	030-036	Colour 3 (Blue)
	037-043	Colour 4 (Blue/Pink)
	044-050	Colour 5 (Pink)
	051-057	Colour 6 (Pink/Yellow)
	058-064	Colour 7 (Yellow)
	065-071	Colour 8 (Yellow/Green)
	072-078	Colour 9 (Green)
	079-085	Colour 10 (Green/Orange)
	086-092	Colour 11 (Orange)
	093-099	Colour 12 (Orange/Cyan)
	100-106	Colour 13 (Cyan)
	107-113	Colour 14 (Cyan/UV)
	114-120	Colour 15 (UV)
	121-127	Colour 16 (3200K)
	128-191	Colour Scroll Clockwise (fast-slow)
	192-255	Colour Scroll Anti-clockwise (slow-fast)
CH4	000-016	Gobo 1
	017-033	Gobo 2
	034-050	Gobo 3
	051-067	Gobo 4
	068-084	Gobo 5
	085-101	Gobo 6
	102-118	Gobo 7
	119-135	Gobo 8
	136-195	Gobo Scroll Clockwise (fast-slow)
	196-255	Gobo Scroll Anti-clockwise (slow-fast)

Channel	Value	Function
CH5	0-127	Gobo Rotation Index
	128-191	Gobo Rotation Clockwise (fast-slow)
	192-255	Gobo Rotation Anti-clockwise (slow-fast)
CH6	000-255	Pan (180°)
CH7	000-127	Barrel Index
	128-191	Barrel Rotation Clockwise (fast-slow)
	192-255	Barrel Rotation Anti-clockwise (slow-fast)
CH8	000-255	Pan/Tilt speed (fast-slow)
CH9	000-127	Dish Index
	128-191	Dish Rotation Clockwise (fast-slow)
	192-255	Dish Rotation Anti-clockwise (slow-fast)
CH10	000-012	No function
	013-042	Show 0 (all programs)
	043-072	Show 1
	073-102	Show 2
	103-132	Show 3
	133-162	Show 4
	163-192	Show 5
	193-222	Show 6
	223-255	Show 7
CH11	000-255	Speed (slow-fast)
CH12	000-015	Off/On
	016-255	Sensitivity (low-high)

CA 8 function:

The unit has a CA 8 remote control input on the rear. This may be used with the CA 8 hand controller (sold separately) to control the unit. Please see functions below.

Blackout - By pressing the Stand By button the fixture will blackout.

Mode - Use this button to put the fixture into auto, show or motor speed modes.

Auto mode (Show 0) - LED off

Motor speed (1-9) - LED on

Show modes (Shows 1-7) - LED flashing

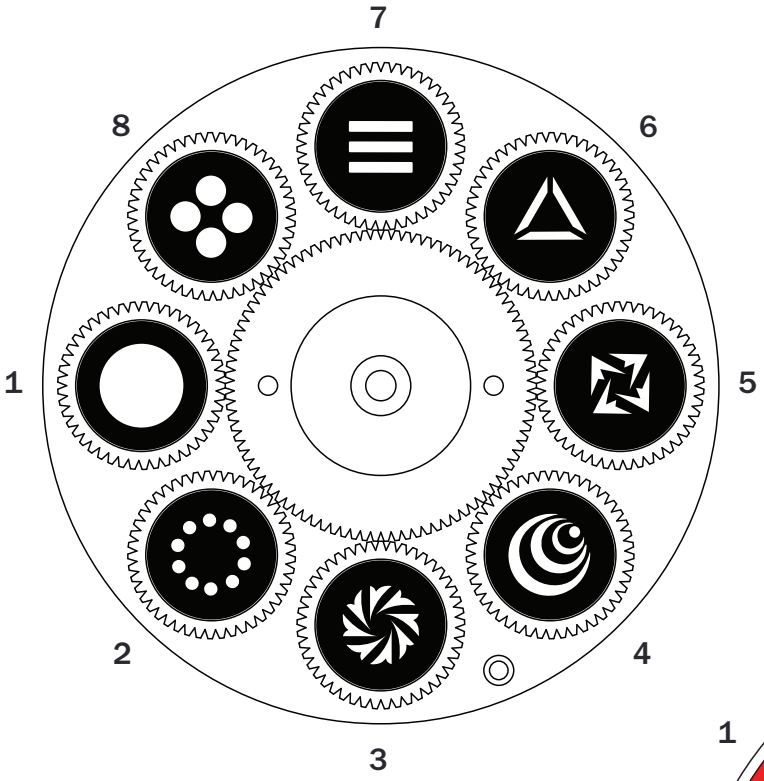
Function - Once you have chosen the mode you require use this button to set the motor speed or show mode.

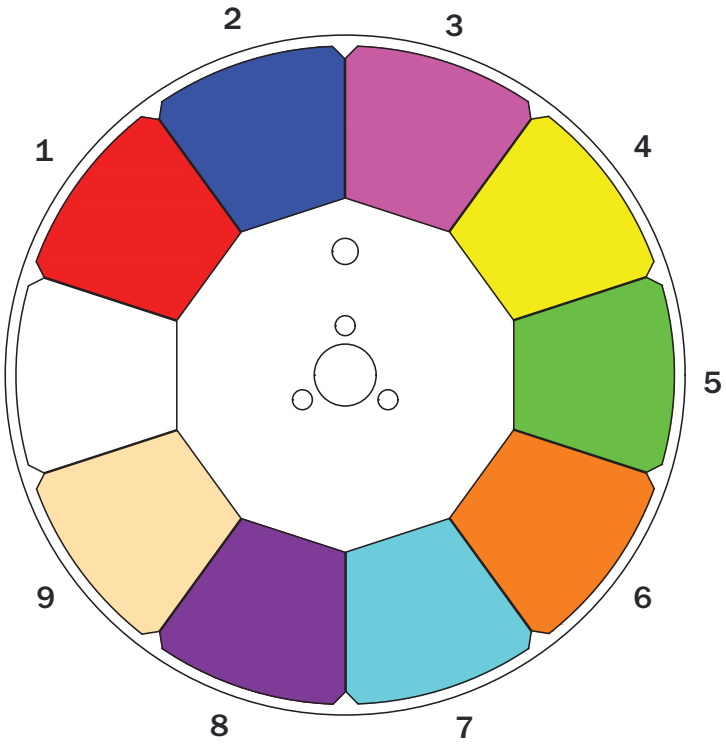
Motor speed (1-9)

Show modes (Shows 1-7)

Rotating gobos:

Gobo size: 21.6mmØ Image size: 7mmØ
Gobo thickness: 0.3mm
(Max. thickness if replaced 1mm)





Additional gobo pack (supplied)



Setting the DMX address:

The DMX mode enables the use of a universal DMX controller. Each fixture requires a “start address” from 1- 512. A fixture requiring one or more channels for control begins to read the data on the channel indicated by the start address. For example, a fixture that occupies or uses 7 channels of DMX and was addressed to start on DMX channel 100, would read data from channels: 100, 101, 102, 103, 104, 105 and 106. Choose a start address so that the channels used do not overlap. E.g. the next unit in the chain starts at 107.

DMX 512:

DMX (Digital Multiplex) is a universal protocol used as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions form the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture via the DATA “IN” and DATA “OUT” XLR terminals located on all DMX fixtures (most controllers only have a data “out” terminal).

DMX linking:

DMX is a language allowing all makes and models of different manufactures to be linked together and operate from a single controller, as long as all fixtures and the controller are DMX compliant. To ensure proper DMX data transmission, when using several DMX fixtures try to use the shortest cable path possible. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned to a DMX address of 1 may be placed anywhere in a DMX line, at the beginning, at the end, or anywhere in the middle. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

DATA cable (DMX cable) requirements (for DMX operation):

This fixture can be controlled via DMX-512 protocol. The DMX address is set on the back of the unit. Your unit requires a standard 3-pin XLR connector for data input/output, see images below.



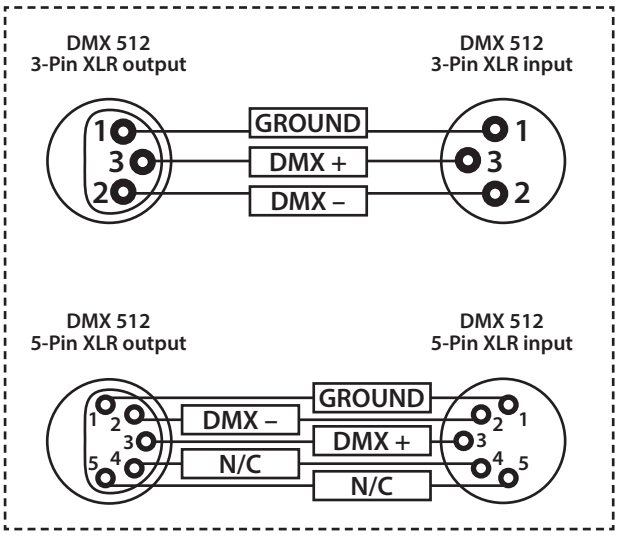
Further DMX cables can be purchased from all good sound and lighting suppliers or Prolight Concepts dealers.
Please quote: 3-Pin: **CABL10 – 2m** **CABL11 – 5m** **CABL12 – 10m**

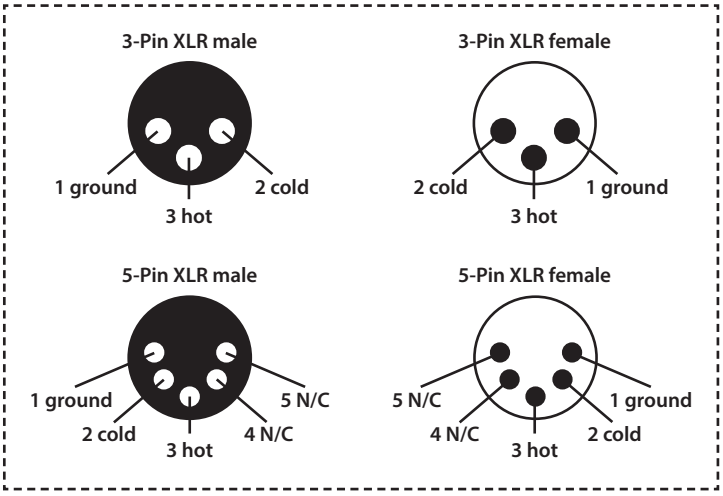
Also remember that DMX cable must be daisy chained and cannot be split.

Notice:

Be sure to follow the diagrams below when making your own cables. Do not connect the cables shield conductor to the ground lug or allow the shield conductor to come in contact with the XLRs outer casing. Grounding the shield could cause a short circuit and erratic behaviour.

Pin Configuration	
3-Pin	5-Pin
Pin 1 - Ground	
Pin 2 - Negative	
Pin 3 - Positive	
–	Pin 4 - N/C
–	Pin 5 - N/C

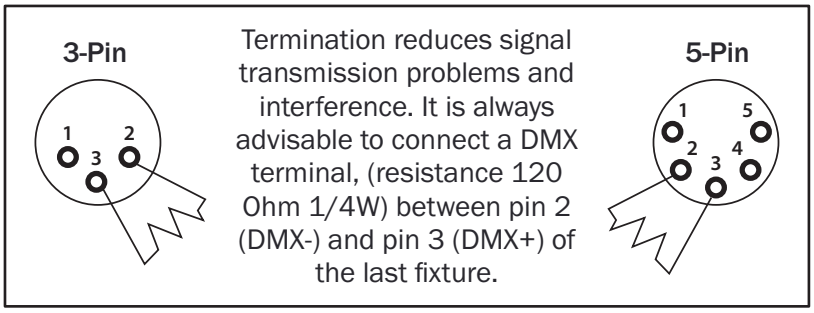




Line termination:

When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behaviour.

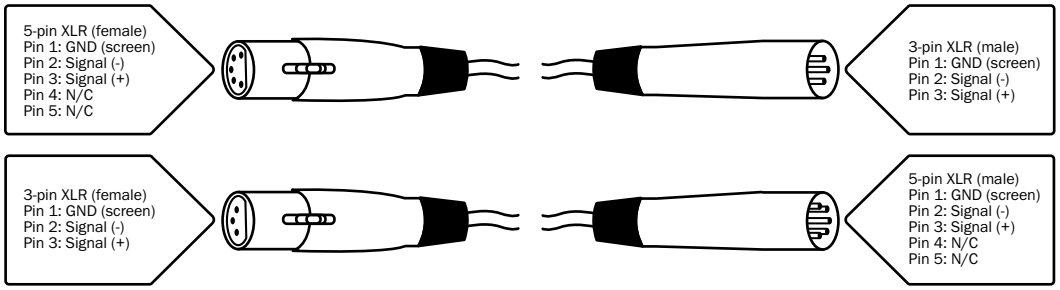
Using a cable terminator will decrease the possibilities of erratic behaviour.
(3-pin - Order ref: CABL90,
5-pin - Order ref: CABL89)



Termination reduces signal transmission problems and interference. It is always advisable to connect a DMX terminal, (resistance 120 0hm 1/4W) between pin 2 (DMX-) and pin 3 (DMX+) of the last fixture.

5-pin XLR DMX connectors:

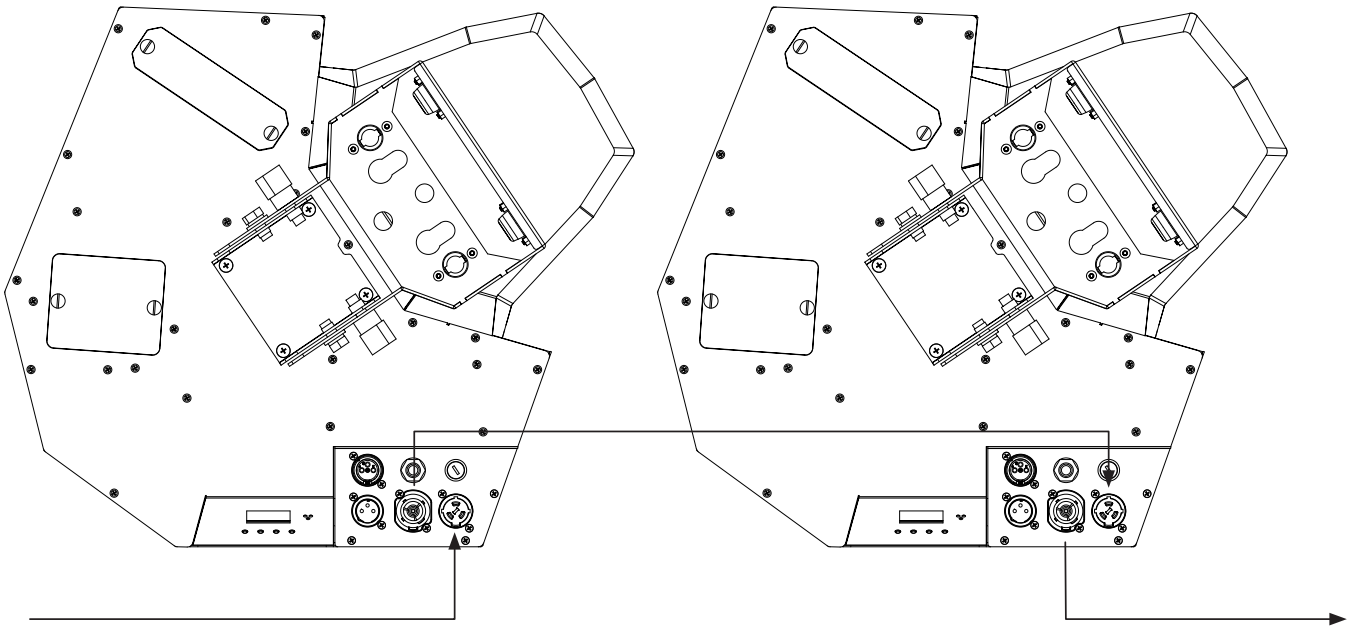
Some manufactures use 5-pin XLR connectors for data transmission in place of 3-pin. 5-pin XLR fixtures may be implemented in a 3-pin XLR DMX line. When inserting standard 5-pin XLR connectors in to a 3-pin line a cable adaptor must be used. The diagram below details the correct cable conversion.



Power linking:

This fixture provides power linking via the power output on the rear allowing multiple units to be connected together. The maximum number of fixtures that can be connected is 18 fixtures @ 240V or 9 fixtures @ 120V (including the first fixture). After the maximum number of fixtures are connected a new power run will need to be started.

Please note: Caution should be used when power linking other fixtures to the Radiance as the power consumption of other fixtures will vary. Fixtures fitted with lamps often require 2/3 times more current on startup, these may require their own power source.





Correct Disposal of this Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed of with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.