elumen8

Alu Quad Par 64 MKII
(12 x 10W 4-in-1 RGBW)

User Manual

Order code: ELUM115

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 is dropped or damaged, disconnect the mains power supply immediately and have a qualified engineer inspect the equipment before operating again.
- 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.
- 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 Prolight dealer for service.
- Only use fuses of same type and rating.
- We recommend this fixture should be serviced at least once every 3 months to prevent build-up of dust, dirt and debris that could affect the fixtures operation.
- 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.
- High power lighting fixtures are capable of producing powerful, concentrated beams of light that can create a fire hazard or a risk of eye injury if the safety precautions are not followed.
- WARRANTY: Two years 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.

Alu Quad Par 64 MKII

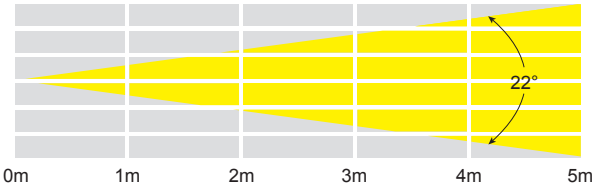
Housing 12 x 10W quad-colour LEDs, the Alu Quad Par gives smooth colour mixing from rich saturated hues to subtle pastel shades. The unit features a 22° beam angle whilst the optional barn doors help direct and focus the light. These units have a heavy weight die-cast chassis and feature a 4-button display allowing access of built-in colour macros, and selections of stand-alone, sound active and DMX modes.

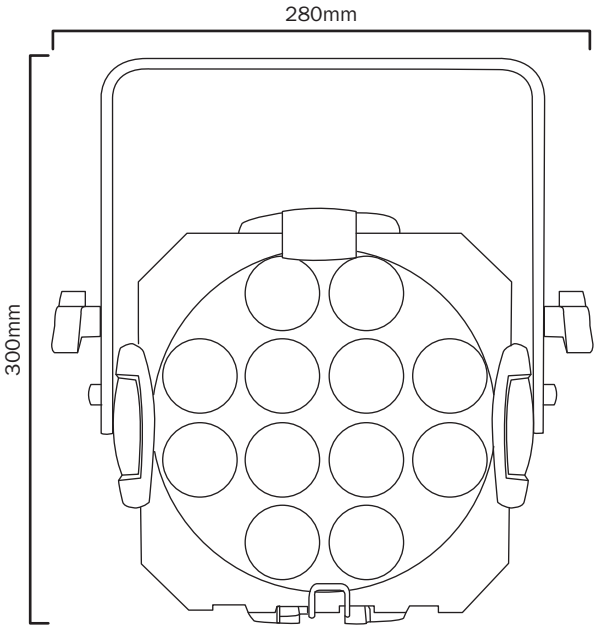
- 2 year warranty
- 12 x 10W quad-colour LEDs (RGBW)
- Beam angle: 22°
- 11,505 Lux @ 2m (full on)
- 3.6kHz refresh rate
- DMX channels: 2/3/3/4 or 7 selectable
- RDM (Remote Device Management)
- Static colour, colour change, colour fade, auto, sound active and master/slave modes
- 0-100% dimming and variable strobe
- 4 push button menu with LCD display
- PowerCON input/output
- 5-Pin XLR input/output
- Fan cooled
- Supplied with filter frame
- Optional Barn Doors (ELUM041C)

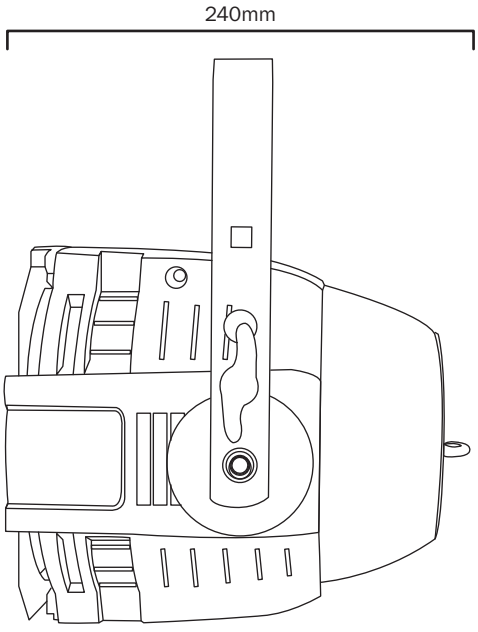
Specifications	Alu Quad Par 64 MKII
Power consumption	150W
Power supply	100~240V, 50/60Hz
Fuse	T2A 250V
Dimensions	300 x 280 x 240mm
Weight	4.3kg
Order code	ELUM115

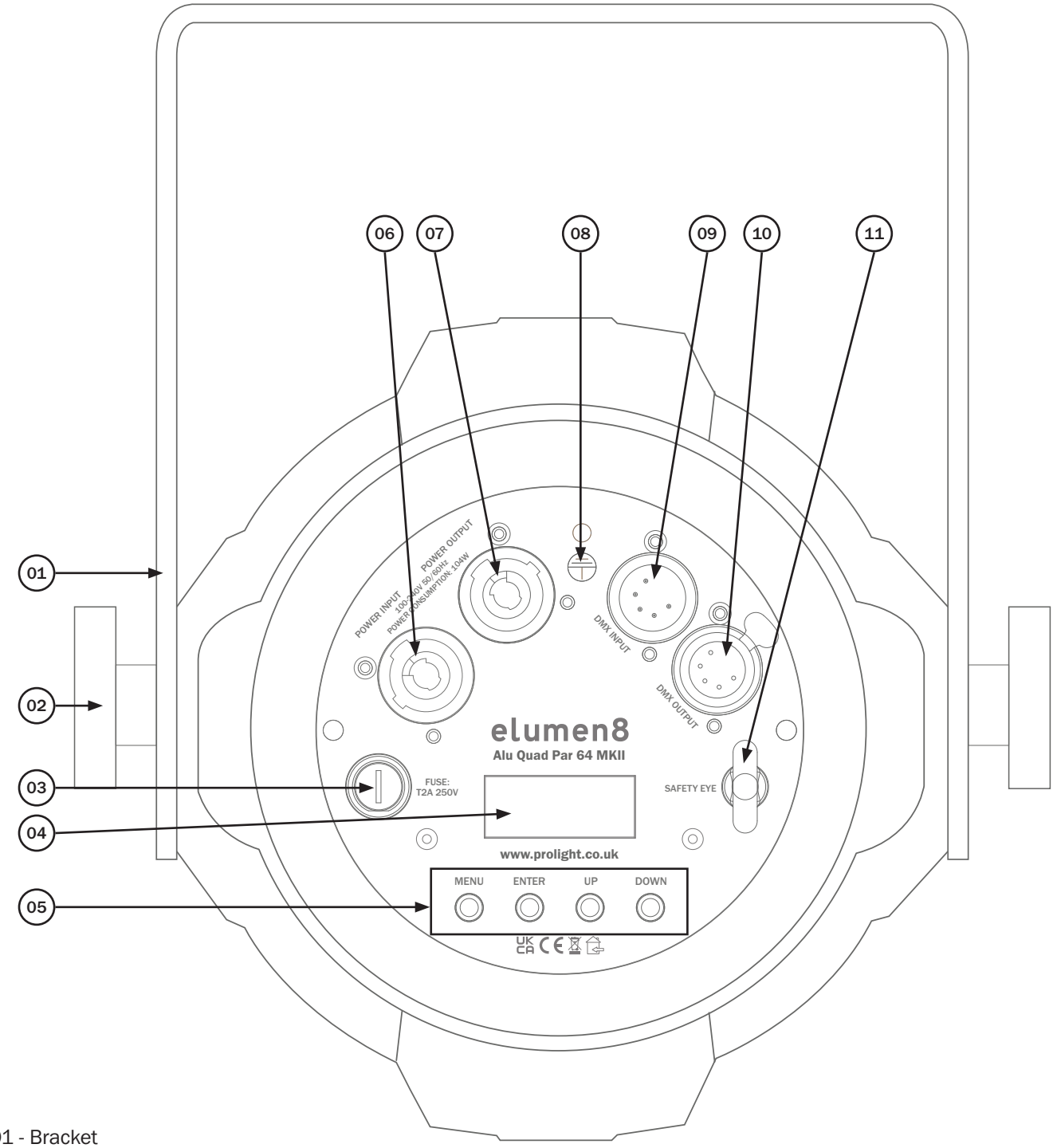
22° - Lux

FULL ON	46020	11505	5113	2876	1841
R	12580	3145	1397	786	503
G	18352	4588	2039	1147	734
B	4048	1012	449	253	162
W	15672	3918	1741	980	627









01 - Bracket
02 - Bracket tightening knobs
03 - Fuse T2A 250V
04 - LCD display
05 - Function buttons
06 - PowerCON input
07 - PowerCON output
08 - Earth point
09 - DMX input
10 - DMX output
11 - Safety eye

In the box: **1 x fixture, & 1 x 13A powerCON mains cable**

Start-up display screen	Update wait... SOFTWARE V1.01 WELCOME eLumen8	
1	STATIC COLOUR	R 00-99, G 00-99, B 00-99 W 00-99
	STROBE SPEED	F 00-99
2	MACRO	Macro colour 01-15
3	CHANGE	Speed 00-99
		Flash 01-99
4	FADE	Speed 00-99
		Flash 01-99
5	AUTO MODE	
6	SLAVE MODE	
7	SOUND	Sensitivity 00-31 (low to high)
8	DMX MODE	Channel 2/3/3/4 or 7
9	DMX ADDRESS	001-512
10	TEMPT	XX°C

Static colour mix mode:

To access the static colour mode, press the "**MODE**" button to show "**STATIC**" on the rear of the unit. You can then use the enter button to select and set the desired colours and brightness for R, G, B and W from "**00**" - "**99**". Keep pressing the "**ENTER**" button to set the strobe speed from "**F00**" - "**F99**".

Press the "**ENTER**" button to confirm any settings.

To exit out of any of the above options, press the "**MODE**" button.

Macro mode:

To access the macro mode, press the "**MODE**" button to show "**MACRO**" on the rear of the unit. You can then use the enter button to select and set the desired macro from "**01**" - "**15**".

Press the "**ENTER**" button to confirm any settings.

To exit out of any of the above options, press the "**MODE**" button.

Colour change mode:

To access the static colour mode, press the "**MODE**" button to show "**CHANGE**" on the rear of the unit. You can then use the enter button to select and set the desired speed from "**00**" - "**99**", Then press the "**ENTER**" button to set the flash speed from "**01**" - "**99**".

Press the "**ENTER**" button to confirm any settings.

To exit out of any of the above options, press the "**MODE**" button.

Colour fade mode:

To access the static colour mode, press the "**MODE**" button to show "**FADE**" on the rear of the unit. You can then use the enter button to select and set the desired fade from "**00**" - "**99**", Then press the "**ENTER**" button to set the flash speed from "**01**" - "**99**".

Press the "**ENTER**" button to confirm any settings.

To exit out of any of the above options, press the "**MODE**" button.

Auto mode:

To access the static colour mode, press the "**MODE**" button to show "**AUTO MODE**" on the rear of the unit. Press the "**ENTER**" button to confirm any settings.

To exit out of any of the above options, press the "**MODE**" button.

Master/slave mode

To set the unit to a slave, press the "**MODE**" button on the rear of the unit and set the address to show "**SLAVE MODE**" on the LED display. Press the "**ENTER**" button to confirm any settings. The unit will now run in sequence with the master unit.

Sound active mode:

To access the sound active mode, press the "**MODE**" button on the rear of the unit to show "**SOUND**" on the LED display. The unit will now be in sound active mode. Press "**ENTER**" and use the "**UP**" and "**DOWN**" buttons to set the sound sensitivity level from "**SENS:00**" - "**SENS:31**" (**00 = low, 31 = high**).

Press the "**ENTER**" button to confirm any settings.

To exit out of any of the above options, press the "**MODE**" button.

DMX mode:

Operating in DMX control mode gives the user the greatest flexibility when it comes to customising or creating a show. In this mode you will be able to control each individual trait of the fixture and each fixture independently.

To access the DMX channel mode, press the "**MODE**" button on the rear of the unit to show "**DMX MODE:1CH**" on the LED display, then use the "**UP**" and "**DOWN**" buttons to select either 2, 3, 3, 4 or 7 DMX channel modes.

To set the units address, press the "**MODE**" button on the rear of the unit to show "**ADDR:001**" on the LED display, then use the "**UP**" and "**DOWN**" buttons to set the desired address from "**001**" - "**512**".

Press the "**ENTER**" button to confirm any settings.

To exit out of any of the above options, press the "**MODE**" button.

2 channel mode:

Channel	Value	Function
1	000-255	Master dimmer (0-100%)
2 000-255 colour macro	000-016	Red
	017-033	Green
	034-050	Blue
	051-067	White
	068-084	RG
	085-101	RB
	102-118	RW
	119-135	BG
	136-152	GW
	153-169	BW
	170-186	RGB
	187-203	RGW
	204-220	RBW
	221-237	BGW
	238-255	RGBW

3 channel mode:

Channel	Value	Function
1	000-255	Master dimmer (0-100%)
2	000-255	Flash (speed 0-100%, 1Hz-20Hz)
3 000-080 colour macro	000-004	Blackout
	005-010	Red
	011-015	Green
	016-020	Blue
	021-025	White
	026-030	RG
	031-035	RB
	036-040	RW
	041-045	BG
	046-050	GW
	051-055	BW
	056-060	RGB
	061-065	RGW
	066-070	RBW
	071-075	BGW
	076-080	RGBW
	081-150	Colour jump speed. Slowest (081) changes every 8 secs, Fastest (150) changes every 0.3 secs
	151-220	Colour fading speed. Slowest (151) changes every 8 secs, Fastest (220) changes every 0.3 secs
	221-255	Sound control (mic sensitivity)

3 channel mode:

Channel	Value	Function
1	000-255	Red (0-100%)
2	000-255	Green (0-100%)
3	000-255	Blue (0-100%)

4 channel mode:

Channel	Value	Function
1	000-255	Red (0-100%)
2	000-255	Green (0-100%)
3	000-255	Blue (0-100%)
4	000-255	White (0-100%)

7 channel mode:

Channel	Value	Function
1	000-255	Master dimmer (0-100%)
2	000-255	Flash (speed 0-100%, 1Hz-20Hz)
3	000-255	Red (0-100%)
4	000-255	Green (0-100%)
5	000-255	Blue (0-100%)
6	000-255	White (0-100%)
7 000-080 colour macro	000-004	Blackout
	005-010	Red
	011-015	Green
	016-020	Blue
	021-025	White
	026-030	RG
	031-035	RB
	036-040	RW
	041-045	BG
	046-050	GW
	051-055	BW
	056-060	RGB
	061-065	RGW
	066-070	RBW
	071-075	BGW
	076-080	RGBW
	081-150	Colour jump speed. Slowest (081) changes every 8 secs. Fastest (150) changes every 0.3 secs
	151-220	Colour fading speed. Slowest (151) changes every 8 secs. Fastest (220) changes every 0.3 secs
	221-255	Sound control (mic sensitivity)

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 either a standard 3-pin or 5-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.

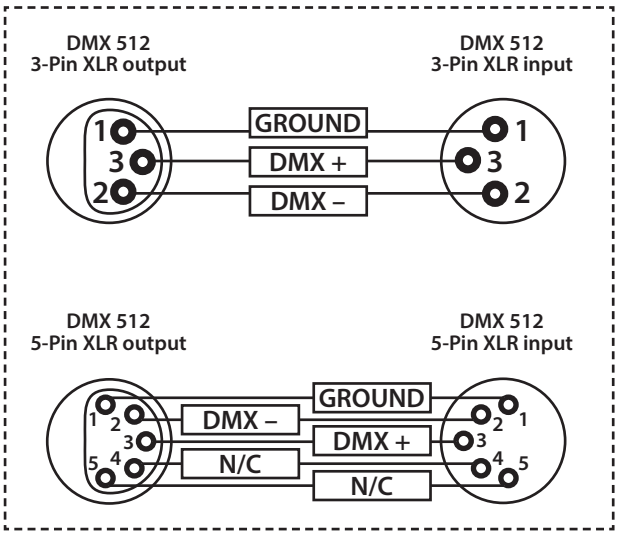
Please quote:	3-Pin:	**CABL10 – 2m**	**CABL11 – 5m**	**CABL12 – 10m**
	5-Pin:	**CABL185 – 2m**	**CABL187 – 5m**	**CABL188 – 10m**

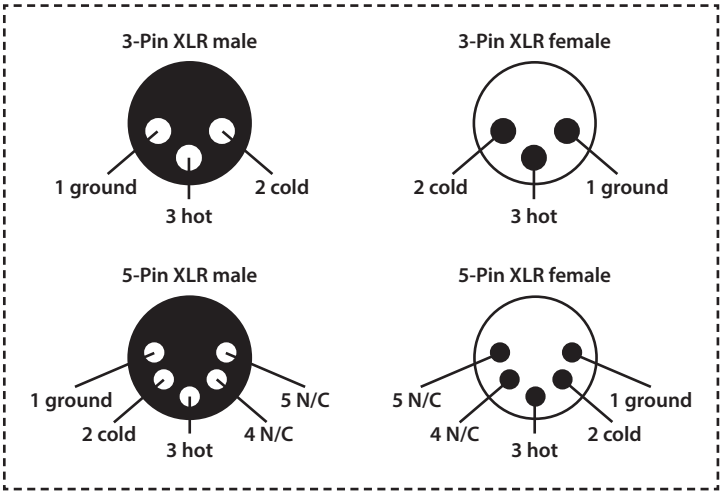
Also remember that DMX cable must be daisy chained and cannot be split.

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

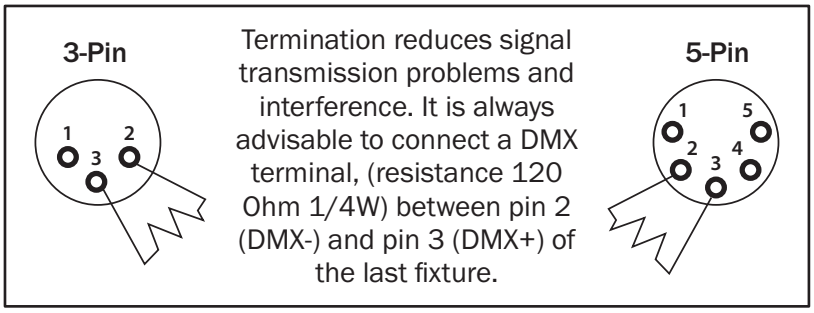




Line termination:

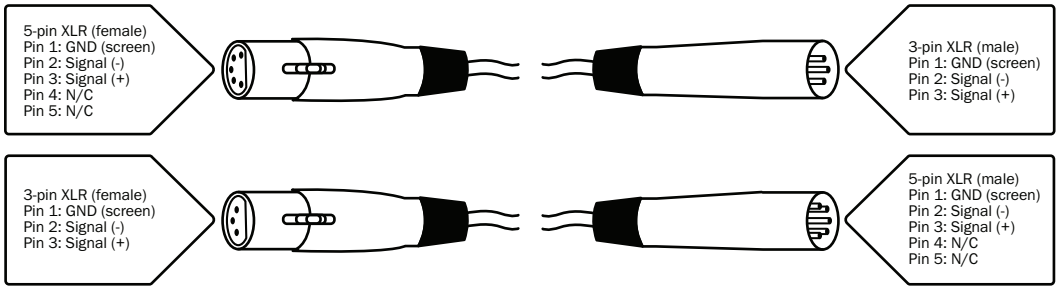
When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behaviour.

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

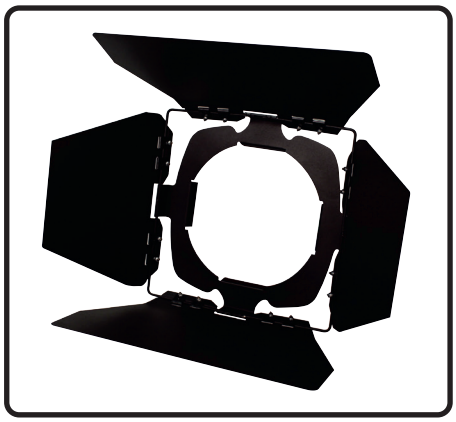


5-pin XLR DMX connectors:

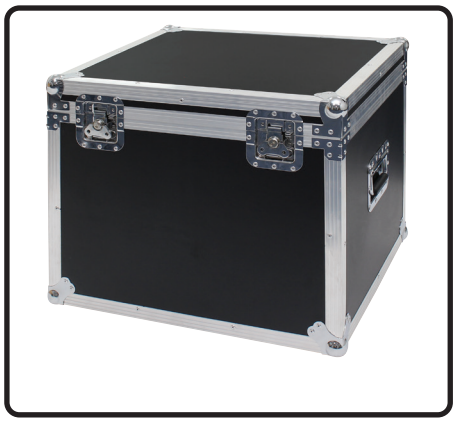
Some manufactures use 5-pin XLR connectors for data transmission in place of 3-pin. 5-pin XLR fixtures may be implemented in a 3-pin XLR DMX line. When inserting standard 5-pin XLR connectors in to a 3-pin line a cable adaptor must be used. The diagram below details the correct cable conversion.



Please contact your local retailer to purchase these accessories.



Optional eLumen8 Alu Tri Barn Door
Order code: ELUM041C



Optional Equinox Par Can x 4 Road Case
Order code: EQLED348

To keep up-to-date on the latest accessories and product range additions visit **www.prolight.co.uk**

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 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.

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