

elumen8

Kudos 60 Beam User Manual



Order codes: ELUM017

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.



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 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: 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.

Kudos 60 Beam

The Kudos 60 Beam is a compact, powerful and agile moving head producing a razor sharp 4° aerial beam effect, from the single 60W RGBW quad-colour LED and advance optical system. Full 360° continuous pan and tilt movements allow lighting designers to create a variety of effects currently not possible with standard moving heads. Designed for stage, rental and touring, the Kudos 60 Beam features a quick release omega bracket, PowerCON, 3-Pin and 5-Pin DMX connections. Plus, 10° and 45° frosted lenses are supplied further increasing the flexibility of the product.



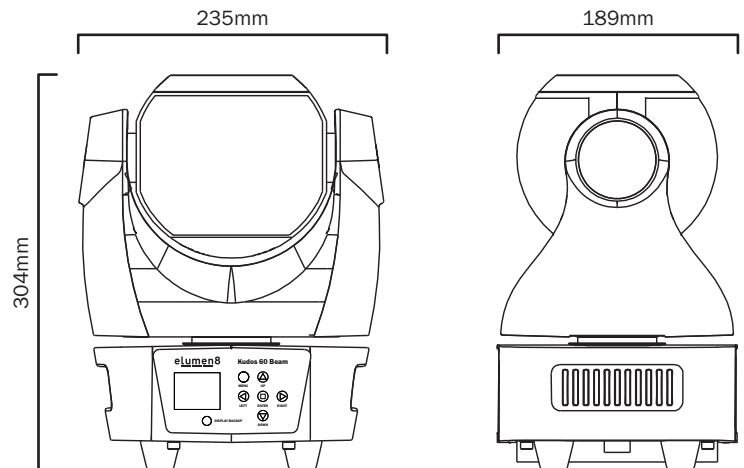
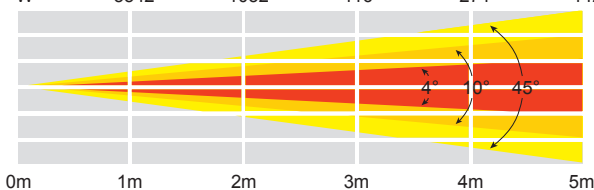
- 1 x 60W Osram quad-colour LED (RGBW)
- Beam angle: 4° native, 10° & 45° frost lens supplied
- DMX channels: 16/18 or 20 selectable
- 0 - 100% dimming and variable strobe (1-25Hz)
- Colour macros
- Pan/tilt auto correction
- 360° continuous pan and tilt
- 8 bit/16 bit pan and tilt
- RDM (Remote Device Management)
- Fast and agile movement for enhanced pan/tilt effects
- Quick release omega clamp included
- 6 push button menu with 1.8" LCD display with 180° reverse function
- PowerCON input/output
- 3-Pin XLR input/output
- 5-Pin XLR input/output
- Fan cooled with adjustable speed for low noise operation

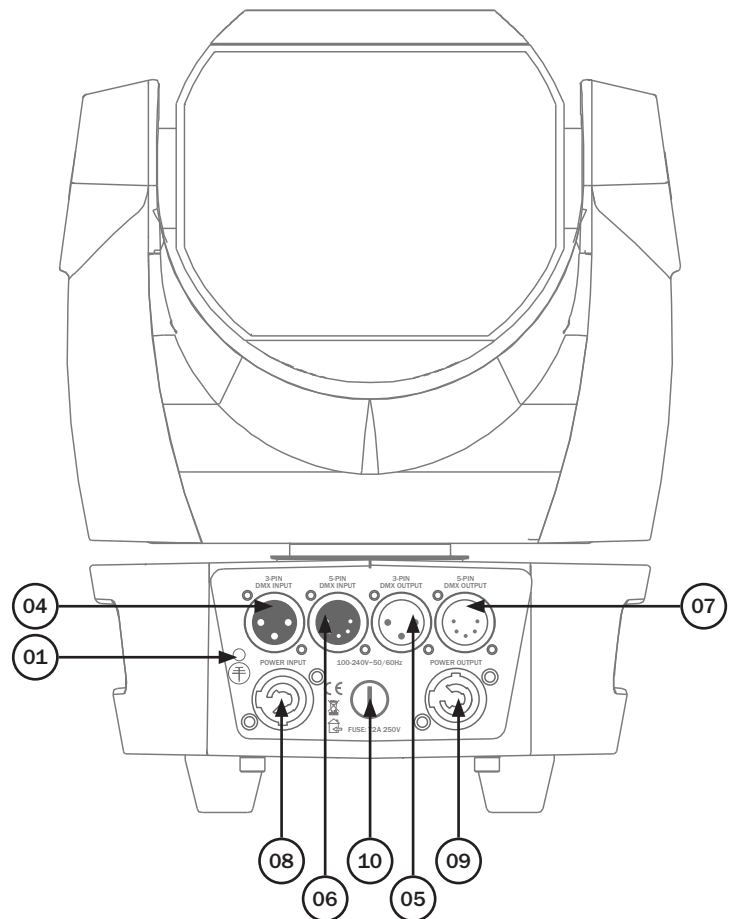
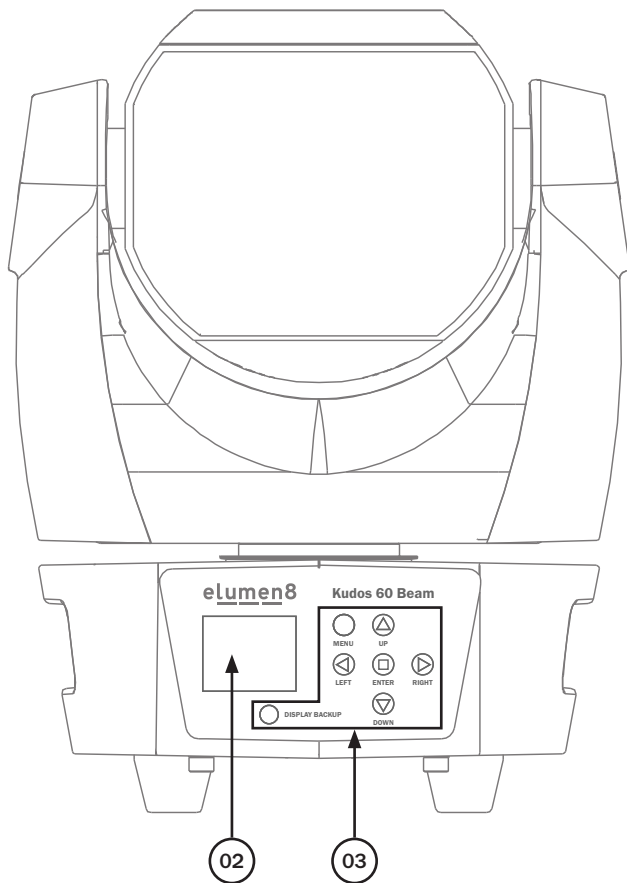
Specifications	Kudos 60 Beam
Power consumption	70W
Fuse	T2A 250V
Power supply	100~240V, 50/60Hz
Dimensions	304 x 235 x 189mm
Weight	7.6kg
Order code	ELUM017

4° - Lux					
FULL ON	122000	30601	12955	7687	5112
R	18970	6934	3338	1722	1149
G	23900	10411	4724	2644	1773
B	4298	1746	856	488	308
W	46900	17512	7438	4013	2803

10° - Lux					
FULL ON	38560	11140	5437	2708	1969
R	7234	2408	1068	658	432
G	12100	3782	1617	974	662
B	2254	777	345	221	132
W	21290	6658	3089	1806	1168

45° - Lux					
FULL ON	5431	1649	771	478	311
R	1287	357	178	98	67
G	1937	568	276	158	112
B	458	117	64	37	28
W	3542	1032	416	274	142





- 01 - Earth point
- 02 - LCD display
- 03 - Function buttons
- 04 - 3-Pin DMX input
- 05 - 3-Pin DMX output

- 06 - 5-Pin DMX input
- 07 - 5-Pin DMX output
- 08 - PowerCON input
- 09 - PowerCON output
- 10 - Fuse T2A 250V

In the box: **1 x fixture,**
1 x 10° lens,
1 x 45° frost lens,
1 x omega clamp,
1 x power cable
& 1 x user manual

Frost Lens Installation:

The fixture is supplied with two lenses (10° and 45°). See below for installation instructions.



1) Place the fixture on a flat surface and unscrew the plastic cover.



2) Remove plastic cover from the head.



3) Carefully place the required frost lens over the centre of the LED reflector.



4) Place the plastic cover back on the head.



5) Tighten the screws until the plastic cover is secure.

Control Panel Menu:

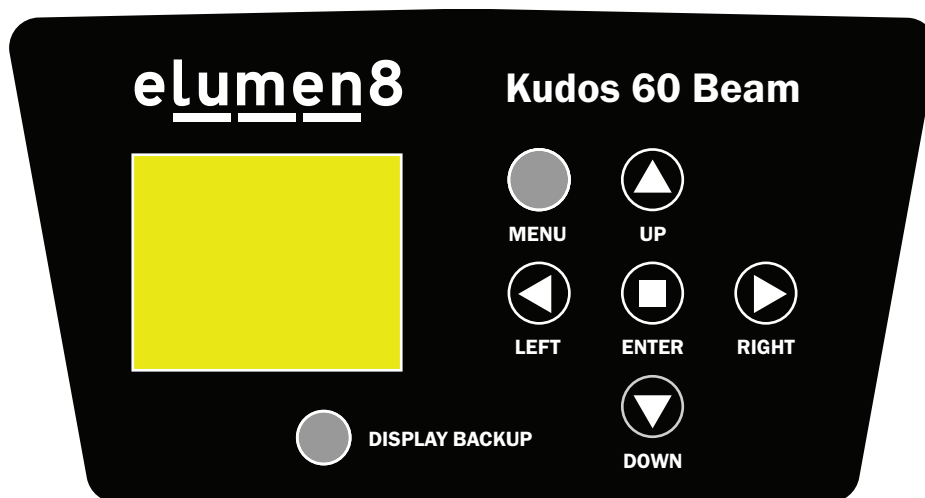
The LCD control panel situated on the front of the fixture allows the user to access the menu system to adjust the fixtures settings.

When the unit has been powered on it will show “**Software Update Please Wait...**” followed by “**Motor Reset Please Wait...**” and “**Elumen8 Kudos 60**”. The fixture will then return to its home screen.

Pressing the “**MENU**” button once will take the user to the fixtures main menu. Using the “**UP**” and “**DOWN**” buttons you can then navigate between the different modes in the main menu. Pressing the “**ENTER**” button on one of these modes allows you to access the sub menu where you can use the “**LEFT**” and “**RIGHT**” buttons to select the sub mode you require. When you have selected the option/value you wish to adjust press the “**ENTER**” button and use the “**UP**” and “**DOWN**” buttons to select the option/value required. Once the option/value has been selected press the “**ENTER**” button once more to confirm the setting.

To exit out of any of the above options, press the “**MENU**” button.

The LCD control panel can be used via the internal battery. To access this press and hold the “**DISPLAY BACKUP**” button for 5 seconds until the fixtures home screen is displayed. The LCD display will automatically shut off after 20 seconds of inactivity.



Error Codes:

When the unit is powered on the unit will automatically perform a motor reset. If there is a problem with one or more of the motors an error code will flash on the LCD control panel.

TILT Er - This error code will display if the Tilt Movement is not located in the home position after the reset. This error code will be displayed if there is an error on the tilt initialisation.

PAN Er - This error code will display if the Pan Movement is not located in the home position after the reset. This error code will be displayed if there is an error on the pan initialisation.

Main Menu	Sub Menu	Options/Values (Default Settings in BOLD)		Description	
Receive	Set Address	001-495 (Basic Mode - 16 channel) 001-493 (Standard Mode - 18 channel) 001-491 (Extend Mode - 20 channel)		DMX Address Setting	
User Mode		Standard (18 channel mode)		DMX Channel Setting	
		Basic (16 channel mode)			
		Extend (20 channel mode)			
Function	Status	Remote Add	ON/ OFF	Address via controller	
		NoDMX Mode	Hold , Auto, Blackout	Functions when no DMX signal	
		Pan Invert	ON/ OFF	Pan Movement Invert	
		TiltInvert	ON/ OFF	Tilt Movement Invert	
		Pan Degree	630/ 540	Pan Degree Select	
		Feedback	ON /OFF	Motor Feedback	
		Move. Spd	Speed 1 -Speed4	Motor Speed	
		Stand By	OFF, 01m-99m, 15m	Standby mode	
	Fan. Set	Head Fan	Auto , High, Low	Fan Speed Setting	
	Dim Curve	Linear , Square, InvSquare, S-curve		Dimmer Curve Setting	
	Temp. C/F	Celsius/ Fahrenheit		Temperature display C°/F°	
	Disp. Ser	Chan. Value	ALL, Auto. Pro, PAN, PAN-Fine, TILT, TILT-Fine, Move. Sp, Strobe, Dimmer, Red1, Green1, Blue1, White1, Chase, Chase. Sp, Dim Modes, PANConRot, TILTConRot, Color-Macro, DimmerFine, Chase Fade		Channel Value Display 000-255
		Slave Set	Slave 1 (Follows master unit) Slave 2 (Follows master PAN/TILT invert) Slave 3 (Follows master PAN/TILT invert on occasion)		Slave Mode Setting
		Auto.Pro	Master, Alone		Auto Program Mode Setting
		DFSE	ON/OFF		Restore Default Factory Settings
Information	Time. Info	Current	XXXh	Fixture Run Time Since Power On (Hours)	
		Total Time	XXXh	Fixture Total Run Time (Hours)	
		Last Clear	XXXh	Fixture Last Run Time (Hours)	
		Timer PIN	PIN = 066	Enter PIN To Access Last Clear Menu	
		Clear Last	ON/ OFF	Reset Fixture Last Run Time	
	Temp.Info	Head. Temp	XXXC/F	Temperature Of Fixture Head	
	Error. Info	NONE, Error Record 1-Error Record 10		Display Error Messages	
	Model. Info	Elumen8 Kudos 60		Display Brand/Model Number	
	Software. V	1U01:	≥V1.02	Software Versions	
	2U01:	≥V1.02			
	3U01:	≥V1.02			

Main Menu	Sub Menu	Options/Values (Default Settings in BOLD)		Description
Test	Reset. M	Pan&Tilt		Reset Pan/Tilt Motors
	Test. Chan	Auto. Pro, PAN, PAN-Fine, TILT, TILT-Fine, Move. Sp, Strobe, Dimmer, Red1, Green1, Blue1, White1,		Test Functions
	Panel. Ctrl	Chase, Chase. Sp, Dim Modes, PANConRot, TILTConRot, ColorMacro, DimmerFine, Chase Fade		Fine Adjustments
	Calibrate	Password	Password = 050	Calibration of Motors
Program	Select. Pro	Pro. Part 1	Program 1-Program 9 (Program 1)	Program Select
		Pro. Part 2	Program 1-Program 9 (Program 2)	
		Pro. Part 3	Program 1-Program 9 (Program 3)	

Remote Address:

When this function is switched **“ON”** the user is able to define the required DMX address via a controller. To remotely adjust the fixtures address, connect the fixture to a controller and power the fixture on. Set the DMX value of **“Channel 1”** to **“007”** on the controller. Then set the DMX value of **“Channel 2”** to **“007”** or **“008”** on the controller (**“007”** - allows the address to be set from 001-255, **“008”** - allows the address to be set from 256-511). Now use **“Channel 3”** on the controller to set the required DMX address. After setting **“Channel 3”** to the required DMX address wait for approximately 20 seconds for the fixture to register the setting.

Example 1:

If the required DMX address is 076, **“Channel 1”** to **“007”** and **“Channel 2”** to **“007”**, then set **“Channel 3”** to a DMX value of **“076”**.

Example 2:

If the required DMX address is 435, **“Channel 1”** to **“007”** and **“Channel 2”** to **“008”**, then set **“Channel 3”** to a DMX value of **“179”** (435-256=179).

Calibrate:

The calibrate function allows fine adjustments to be made to the motors for when a sensor has been knocked slightly out of place. This function has been password protected to refrain from improper use. The password to access this menu is **“050”** and must be entered each time the calibration menu needs to be accessed.

DMX channel modes:

Channel			Value	Function
Basic	Standard	Extend		
1	1	1	000-255	Pan Movement 630°/540° (8 bit)
		2	000-255	Pan Fine (16 bit)
2	2	3	000-255	Tilt Movement (8 bit)
		4	000-255	Tilt Fine (16 bit)
3	3	5	000-127	No function
			128-189	Pan Clockwise Rotation (fast-slow)
			190-193	No function
			194-255	Pan Anti-clockwise Rotation (slow-fast)
4	4	6	000-127	No function
			128-189	Tilt Clockwise Continuous Rotation (fast-slow)
			190-193	No function
			194-255	Tilt Anti-clockwise Continuous Rotation (slow-fast)
5	5	7	000-255	Red dimmer (0-100%)
6	6	8	000-255	Green dimmer (0-100%)
7	7	9	000-255	Blue dimmer (0-100%)
8	8	10	000-255	White dimmer (0-100%)
9	9	11	000	No function
			001-004	Colour Macro 1
			005-008	Colour Macro 2
			009-012	Colour Macro 3
			013-016	Colour Macro 4
			017-020	Colour Macro 5
			021-024	Colour Macro 6
			025-028	Colour Macro 7
			029-032	Colour Macro 8
			033-036	Colour Macro 9
			037-040	Colour Macro 10
			041-044	Colour Macro 11
			045-048	Colour Macro 12
			049-052	Colour Macro 13
			053-056	Colour Macro 14
			057-060	Colour Macro 15
			061-064	Colour Macro 16
			065-068	Colour Macro 17
			069-072	Colour Macro 18
			073-076	Colour Macro 19
			077-080	Colour Macro 20
			081-084	Colour Macro 21
085-088	Colour Macro 22			

DMX channel modes:

Channel			Value	Function
Basic	Standard	Extend		
9	9	11	089-092	Colour Macro 23
			093-096	Colour Macro 24
			097-100	Colour Macro 25
			101-104	Colour Macro 26
			105-108	Colour Macro 27
			109-112	Colour Macro 28
			113-116	Colour Macro 29
			117-120	Colour Macro 30
			121-124	Colour Macro 31
			125-128	Colour Macro 32
			129-132	Colour Macro 33
			133-136	Colour Macro 34
			137-140	Colour Macro 35
			141-144	Colour Macro 36
			145-148	Colour Macro 37
			149-152	Colour Macro 38
			153-156	Colour Macro 39
			157-160	Colour Macro 40
			161-164	Colour Macro 41
			165-168	Colour Macro 42
			169-172	Colour Macro 43
			173-176	Colour Macro 44
			177-180	Colour Macro 45
			181-184	Colour Macro 46
			185-188	Colour Macro 47
			189-192	Colour Macro 48
			193-196	Colour Macro 49
			197-200	Colour Macro 50
			201-204	Colour Macro 51
			205-208	Colour Macro 52
			209-212	Colour Macro 53
213-216	Colour Macro 54			
217-220	Colour Macro 55			
221-224	Colour Macro 56			
225-228	Colour Macro 57			
229-232	Colour Macro 58			
233-236	Colour Macro 59			
237-240	Colour Macro 60			
241-244	Colour Macro 61			

DMX channel modes:

Channel			Value	Function
Basic	Standard	Extend		
9	9	11	245-248	Colour Macro 62
			249-252	Colour Macro 63
			253-255	Colour Macro 64
10	10	12	000-031	LEDs Off
			032-063	LEDs On
			064-095	Strobe (slow-fast)
			096-127	LEDs On
			128-159	Pulse Effect
			160-191	LEDs On
			192-223	Random Strobe (slow-fast)
			224-255	LEDs On
11	11	13	000-255	Master dimmer (0-100%)
12		14	000-255	Dimmer fine (0-100%)
13	12	15	000	No function
			001-014	LEDs Off
			015-030	Auto Program 1
			031-046	Auto Program 2
			047-062	Auto Program 3
			063-078	Auto Program 4
			079-094	Auto Program 5
			095-110	Auto Program 6
			111-126	Auto Program 7
			127-142	Auto Program 8
			143-158	Auto Program 9
			159-174	Auto Program 10
			175-190	Auto Program 11
			191-206	Auto Program 12
			207-222	Auto Program 13
223-238	Auto Program 14			
239-255	Auto Program 15			
14	13	16	000-255	Auto Program Speed (slow-fast)
15	14	17	000	Program Fade Speed (Normal)
			001-255	Program Fade Speed (slow-fast)
16	15	18	000-020	Linear Dimming Curve
			021-040	Square Dimming Curve
			041-060	InvSquare Dimming Curve
			061-080	S-curve Dimming Curve
			081-255	Default unit setting

DMX channel modes:

Channel			Value	Function
Basic	Standard	Extend		
17	15	19	000-225	Pan/Tilt Speed (fast-slow)
			226-235	Move while dark
			236-255	No function
18	16	20	000-079	No function
			080-084	Motor reset
			085-099	No function
			100-119	Internal Program 1
			120-139	Internal Program 2
			140-159	Internal Program 3
			160-179	Internal Program 4
			180-199	Internal Program 5
			200-219	Internal Program 6
			220-239	Internal Program 7
			240-255	No function

Setting the DMX address:

The DMX mode enables the use of a universal DMX controller. Each fixture requires a “start address” from 1- 511. 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 from 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 and your DMX controller require a standard 3-pin XLR connector for data input/output, see image below.



Further DMX cables can be purchased from all good sound and lighting suppliers or Pro Light Concepts dealers.

Please quote:

CABL10 – 2m

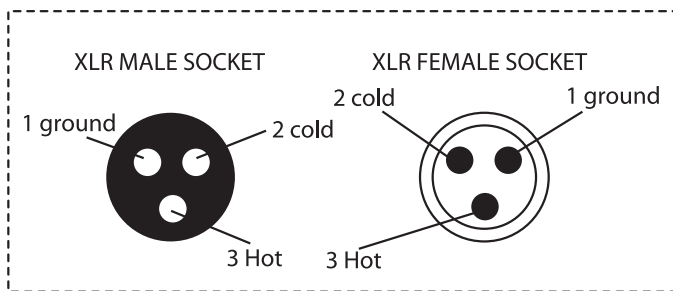
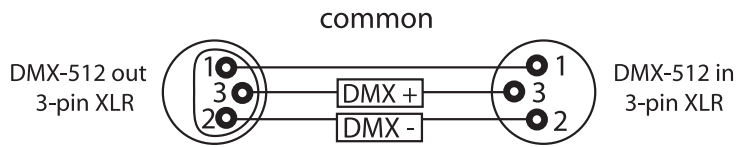
CABL11 – 5m

CABL12 – 10m

Note: 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.



XLR Pin Configuration
Pin 1 = Ground
Pin 2 = Negative
Pin 3 = Postive

Special note:

Line termination:

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

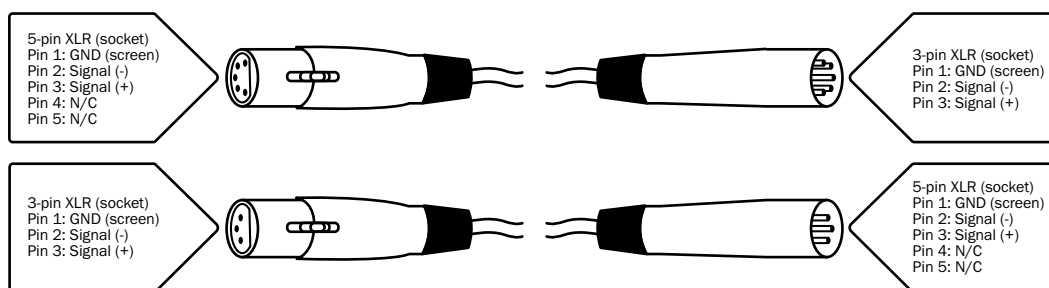
Using a cable terminator will decrease the possibilities of erratic behaviour.

(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 Ohm 1/4 W) 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.





***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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