

EQUINOX

Microbar Quad System

User Manual



Order code: EQLED60A

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 120~240V 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: 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.

Microbar Quad System

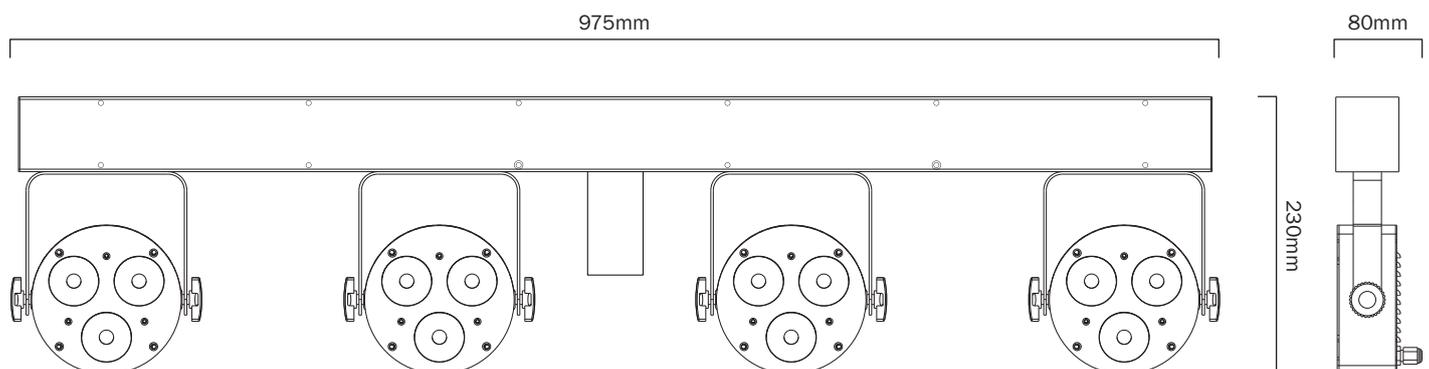
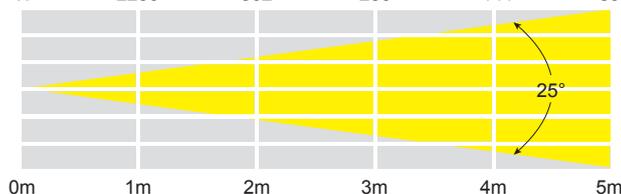
Designed to be an all-in-one lighting package, the Equinox Microbar Quad System includes a robust, heavy duty stand, heavy duty road bag, foot controller and 4 multi-colour LED Par panels fitted to a powered T-bar. The 4 LED Par panels are of a micro size and slimline design and each feature 3 x 8W quad-colour LEDs. The user has control over colour, auto, sound active and DMX modes, via the LED display and push buttons. The foot controller gives instant and simple control over several control modes: blackout, auto, sound and colour.

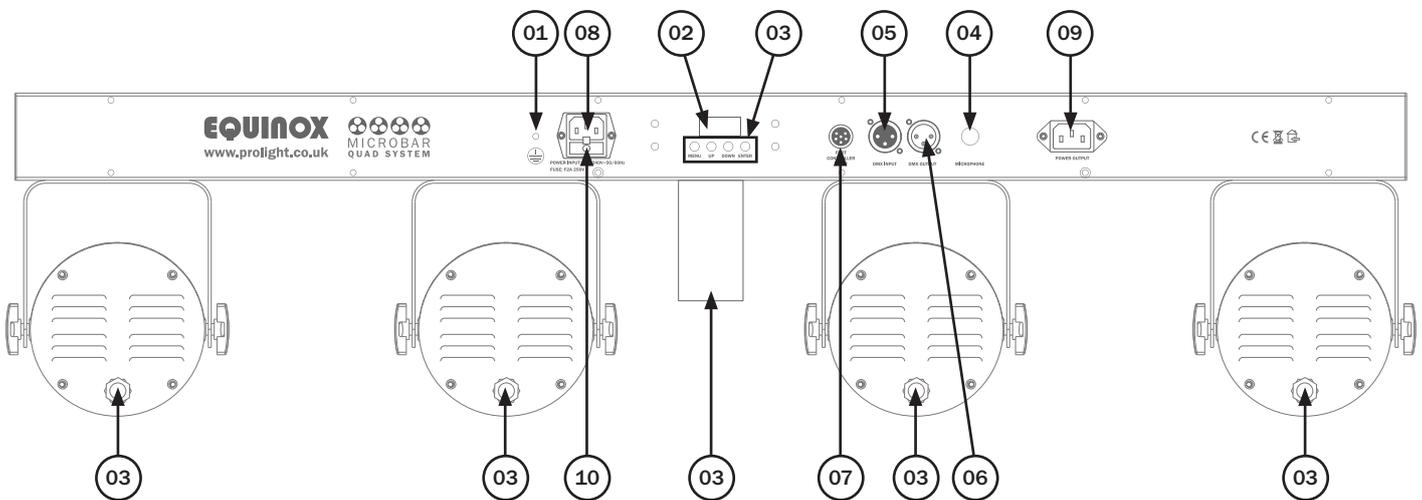
- 12 x 8W quad-colour LEDs (RGBW)
- Beam angle: 25°
- 1585 Lux @ 2m (per par, full on)
- DMX channels: 4/6/10/16 or 18 selectable
- Auto, sound active and master/slave modes plus built-in programs
- 0-100% dimming and variable strobe
- 4 push button menu with LED digital display
- 3-Pin XLR input/output
- 6-Pin input for included foot controller
- IEC power input/output
- Height adjustable stand
- Supplied with brackets for floor standing applications
- Carry bag included
- All metal design
- Convection cooled



Specifications	Microbar Quad System
Power consumption	108W
Power supply	120~240V, 50/60Hz
Fuse	F2A 250V
Dimensions	230 x 975 x 80mm (without stand)
Weight	10.2kg
Order code	EQLED60A

25° - Lux					
FULL ON	6360	1585	707	398	254
R	1030	258	115	64	41
G	2580	645	287	161	103
B	392	98	43	24	15
W	2250	562	250	141	89



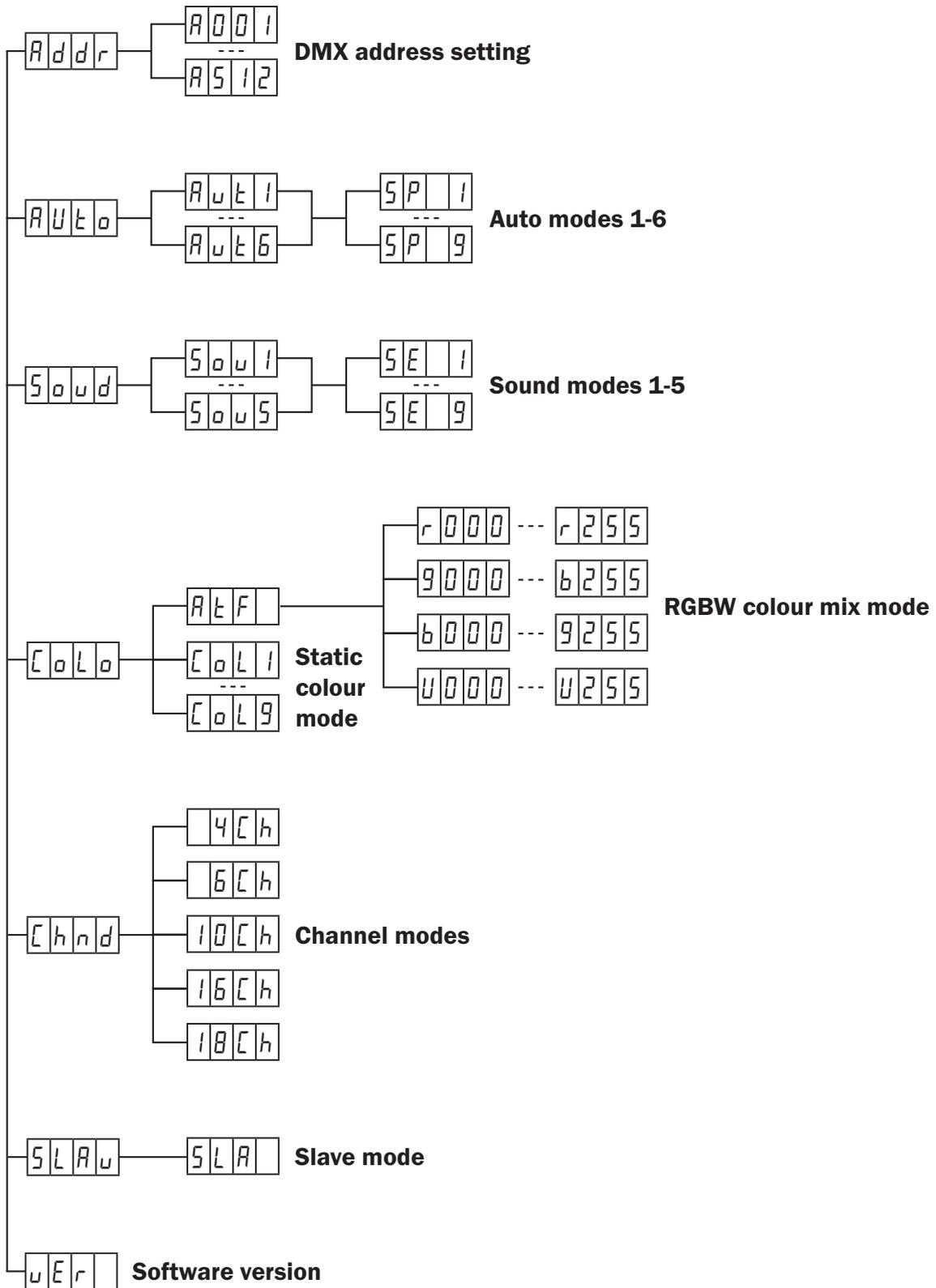


01 - Earth point
 02 - LED display
 03 - Function buttons
 04 - Microphone

05 - 3-Pin DMX input
 06 - 3-Pin DMX output
 07 - 6-Pin foot
 controller output

08 - IEC power input
 09 - IEC power output
 10 - Fuse: F2A 250V

In the box: **1 x fixture & case,**
1 x stand, 1 x foot controller,
1 x power cable &
1 x user manual



DMX mode:

Operating in a DMX control mode environment 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 address mode, press the “MENU” button on the rear of the unit and use the “UP” and “DOWN” buttons to show *Addr* on the LED display. Press the “ENTER” button and use the “UP” and “DOWN” buttons to set the required DMX address. Press the “ENTER” button to confirm the setting.

To access the DMX channel mode, press the “MENU” button on the rear of the unit and use the “UP” and “DOWN” buttons to show *Chnd* on the LED display. Press the “ENTER” button and use the “UP” and “DOWN” buttons to choose one of the 4/6/10/16 or 18 DMX channel modes. Press the “ENTER” button to confirm the setting.

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

4 channel mode:

Channel	Value	Function
CH1	000-255	Red (0-100%)
CH2	000-255	Green (0-100%)
CH3	000-255	Blue (0-100%)
CH4	000-225	White (0-100%)

6 channel mode:

Channel	Value	Function
CH1	000-239	Auto modes
	240-255	Sound modes
CH2	000-255	Auto/sound mode speed (when using CH1) Strobe (slow-fast) (when using CH3-CH6)
CH3	000-255	Red (0-100%)
CH4	000-255	Green (0-100%)
CH5	000-255	Blue (0-100%)
CH6	000-225	White (0-100%)

10 channel mode:

Channel	Value	Function
CH1	000-239	Auto modes
	240-255	Sound modes
CH2	000-255	Auto/sound mode speed (when using CH1) Strobe (slow-fast) (when using CH3-CH6)
CH3	000-255	Par 1 & 2 Red (0-100%)
CH4	000-255	Par 1 & 2 Green (0-100%)
CH5	000-255	Par 1 & 2 Blue (0-100%)
CH6	000-225	Par 1 & 2 White (0-100%)
CH7	000-255	Par 3 & 4 Red (0-100%)
CH8	000-255	Par 3 & 4 Green (0-100%)
CH9	000-255	Par 3 & 4 Blue (0-100%)
CH10	000-225	Par 3 & 4 White (0-100%)

16 channel mode:

Channel	Value	Function
CH1	000-255	Par 1 Red (0-100%)
CH2	000-255	Par 1 Green (0-100%)
CH3	000-255	Par 1 Blue (0-100%)
CH4	000-225	Par 1 White (0-100%)
CH5	000-255	Par 2 Red (0-100%)
CH6	000-255	Par 2 Green (0-100%)
CH7	000-255	Par 2 Blue (0-100%)
CH8	000-225	Par 2 White (0-100%)
CH9	000-255	Par 3 Red (0-100%)
CH10	000-255	Par 3 Green (0-100%)
CH11	000-255	Par 3 Blue (0-100%)
CH12	000-225	Par 3 White (0-100%)
CH13	000-255	Par 4 Red (0-100%)
CH14	000-255	Par 4 Green (0-100%)
CH15	000-255	Par 4 Blue (0-100%)
CH16	000-225	Par 4 White (0-100%)

18 channel mode:

Channel	Value	Function
CH1	000-255	Master dimmer (0-100%)
CH2	000-255	Strobe (slow-fast)
CH3	000-255	Par 1 Red (0-100%)
CH4	000-255	Par 1 Green (0-100%)
CH5	000-255	Par 1 Blue (0-100%)
CH6	000-225	Par 1 White (0-100%)
CH7	000-255	Par 2 Red (0-100%)
CH8	000-255	Par 2 Green (0-100%)
CH9	000-255	Par 2 Blue (0-100%)
CH10	000-225	Par 2 White (0-100%)
CH11	000-255	Par 3 Red (0-100%)
CH12	000-255	Par 3 Green (0-100%)
CH13	000-255	Par 3 Blue (0-100%)
CH14	000-225	Par 3 White (0-100%)
CH15	000-255	Par 4 Red (0-100%)
CH16	000-255	Par 4 Green (0-100%)
CH17	000-255	Par 4 Blue (0-100%)
CH18	000-225	Par 4 White (0-100%)

Auto mode (built-in programs):

To access the auto modes, press the “MENU” button on the rear of the unit and use the “UP” and “DOWN” buttons to show *AUTO* on the LED display. Press the “ENTER” button and use the “UP” and “DOWN” buttons to set the required auto mode *AUT 1 ~ AUT 6*. Press the “ENTER” button and use the “UP” and “DOWN” buttons to select the required speed *SP 1 ~ SP 9*.

Press the “ENTER” button to confirm the setting.

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

Sound active mode:

To access the sound active mode, press the “MENU” button on the rear of the unit and use the “UP” and “DOWN” buttons to show *SOUND* on the LED display. Press the “ENTER” button and use the “UP” and “DOWN” buttons to set the required sound mode *SOU 1 ~ SOU 5*. Press the “ENTER” button and use the “UP” and “DOWN” buttons to select the required sensitivity *SE 1 ~ SE 9*.

Press the “ENTER” button to confirm the setting.

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

Static colour mode:

To access the static colour mode press “MENU” button on the rear of the unit and use the “UP” and “DOWN” buttons until *COL* shows on the LED display. Now press the “ENTER” button and use the “UP” and “DOWN” buttons to select between *COL 1 ~ COL 9*.

Press the “ENTER” button to confirm the setting.

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

COL 1 - Red

COL 4 - White

COL 7 - Magenta

COL 2 - Green

COL 5 - Yellow

COL 8 - White (RGB)

COL 3 - Blue

COL 6 - Cyan

COL 9 - White (RGBW)

RGBW colour mix mode:

To access the RGBW colour mix mode press “MENU” button on the rear of the unit and use the “UP” and “DOWN” buttons until *COL* shows on the LED display. Now press the “ENTER” button and use the “UP” and “DOWN” buttons to select *AEF*. Press the “ENTER” button and use the “UP” and “DOWN” buttons to adjust the brightness between *r.000 ~ r.255*. Press the “ENTER” button and repeat for green (*G*), blue (*B*) and white (*W*).

Value: 000 - 255 (000 = low brightness, 255 = high brightness)

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

Master/slave mode:

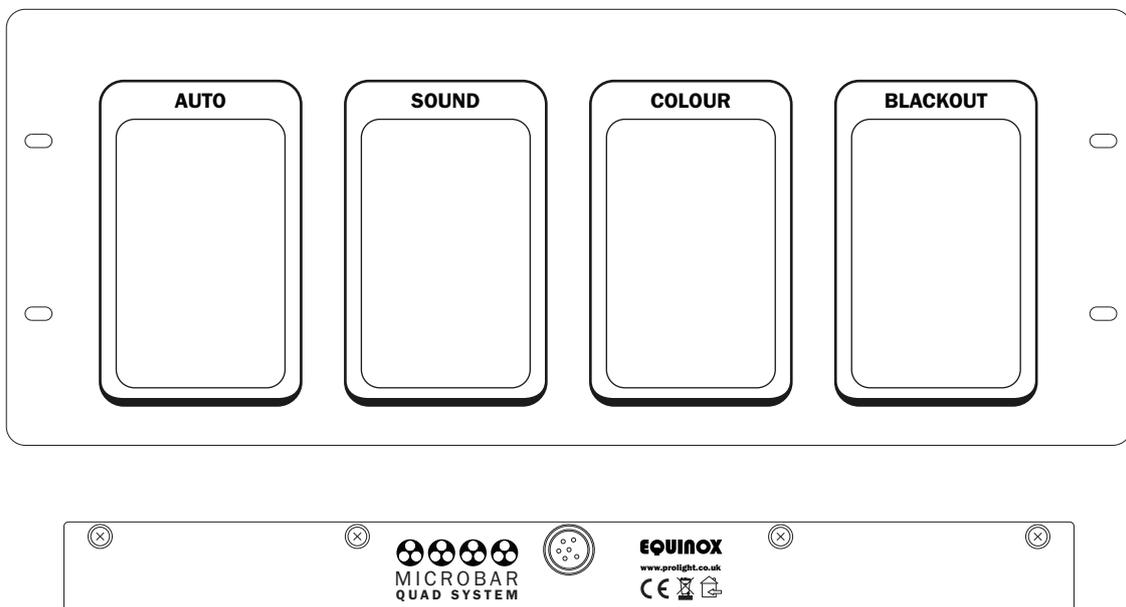
The default setting for this unit is master.

To access slave mode press “**MENU**” button on the rear of the unit and use the “**UP**” and “**DOWN**” buttons until *SLAVE* shows on the LED display. Now press the “**ENTER**” button and *SLAVE* will be displayed. The fixture is now in slave mode.

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

Operating the foot controller:

This foot controller is made specially for the Microbar Quad system. Many of the built-in programmes can be accessed via the 4 foot switches.



Auto mode:

To activate this mode, press the “**AUTO**” foot switch. Once pressed, auto mode will start. Pressing repeatedly will scroll through the auto modes (1-6). To set the speed please use the menu on the rear of the bar.

Sound active mode:

To activate this mode, press the “**SOUND**” foot switch. Once pressed, sound active mode will start. Pressing repeatedly will scroll through the sound active modes (1-5). To set the sensitivity please use the menu on the rear of the bar.

Static colour mode:

To activate this mode, press the “**COLOUR**” foot switch. Once pressed, colour mode will start. Pressing repeatedly will scroll through the built-in colours (1-9). For the list of colours please see page 8.

Blackout:

To activate blackout, press the “**BLACKOUT**” foot switch. Once pressed, the unit will blackout.

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 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

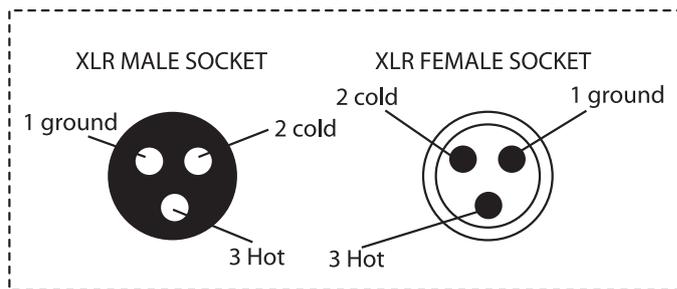
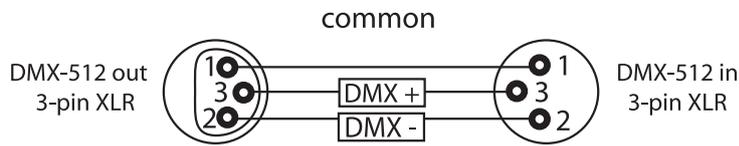
CABL11 – 5m

CABL12 – 10m

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.



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

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.

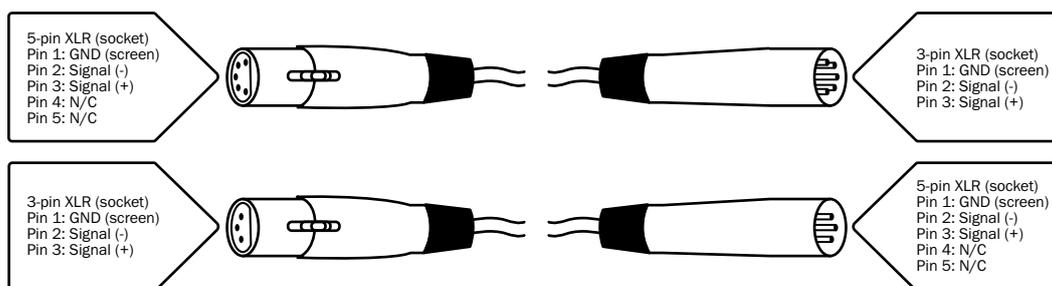
Using a cable terminator will decrease the possibilities of erratic behaviour.

(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 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.

