EQUINOX

Microbar COB System

User Manual

Order code: EQLED137

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.
- This unit is not intended for fixed installation.
- 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

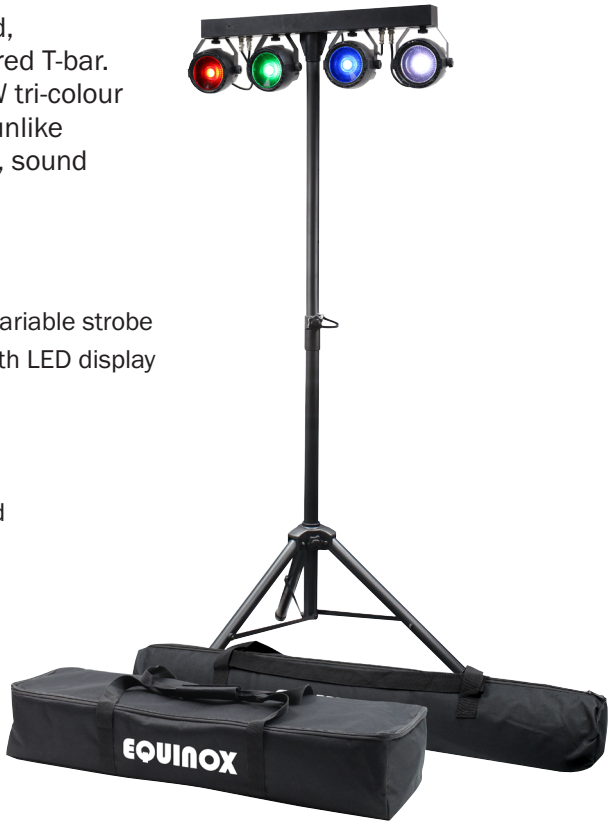
If this equipment is operated in any other way, than those described in this manual, the product may suffer damage and the warranty becomes void. Incorrect operation may lead to danger e.g: short-circuit, burns and electric shocks etc.

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

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

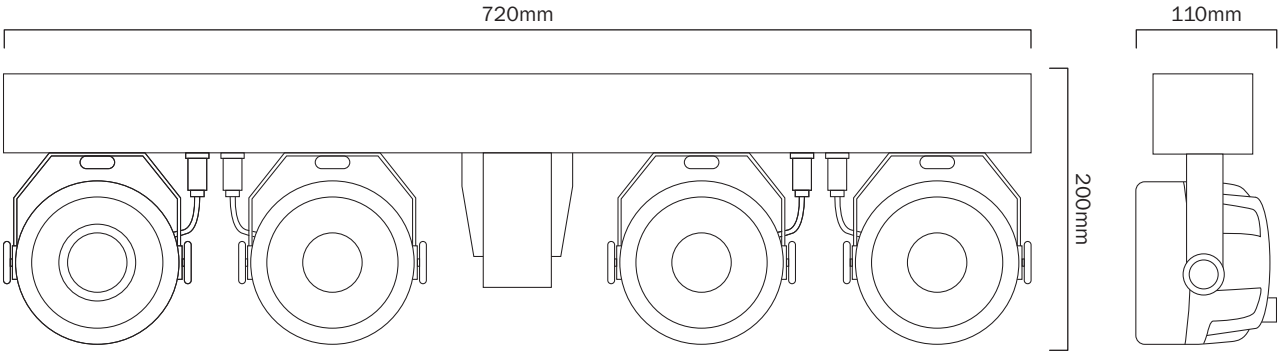
Microbar COB System

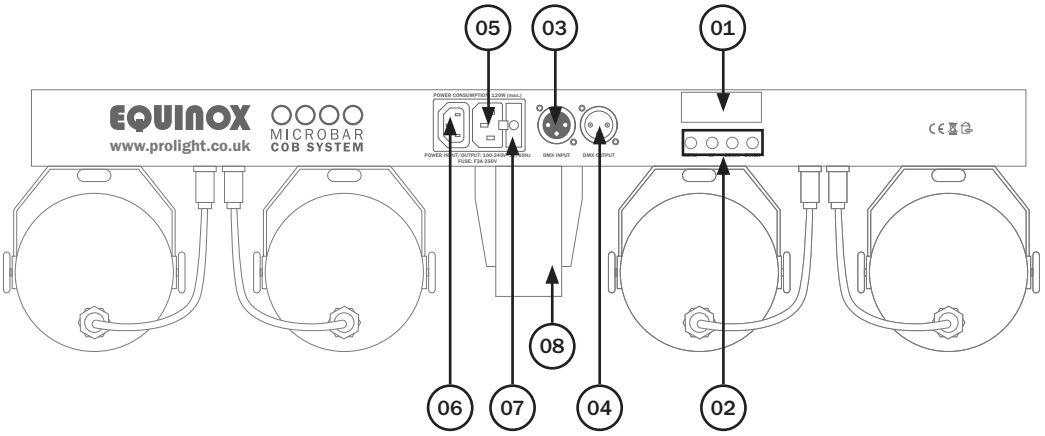
This compact, all-in-one lighting package includes a robust, stand, road bag, IR remote and 4 multi-colour LED Pars fitted to a powered T-bar. The 4 LED Par panels are of a micro size and each feature a 20W tri-colour LED that can flash to the music or change colour independently unlike many inferior bar systems. The user has control over colour, auto, sound active and DMX modes, via the LED display and push buttons. The IR remote gives instant and simple control over several control modes.



- 4 pars each containing 1 x 20W tri-colour LEDs (RGB)
- Beam angle: 25°
- DMX channels: 4/7/12 or 16 selectable
- Auto, sound active and master/slave modes plus built-in programs
- Each par can independently flash and change colour
- 0-100% dimming and variable strobe
- 4 push button menu with LED display
- IEC power input/output
- 3-Pin XLR input/output
- IR remote control
- Height adjustable stand
- Road bag included

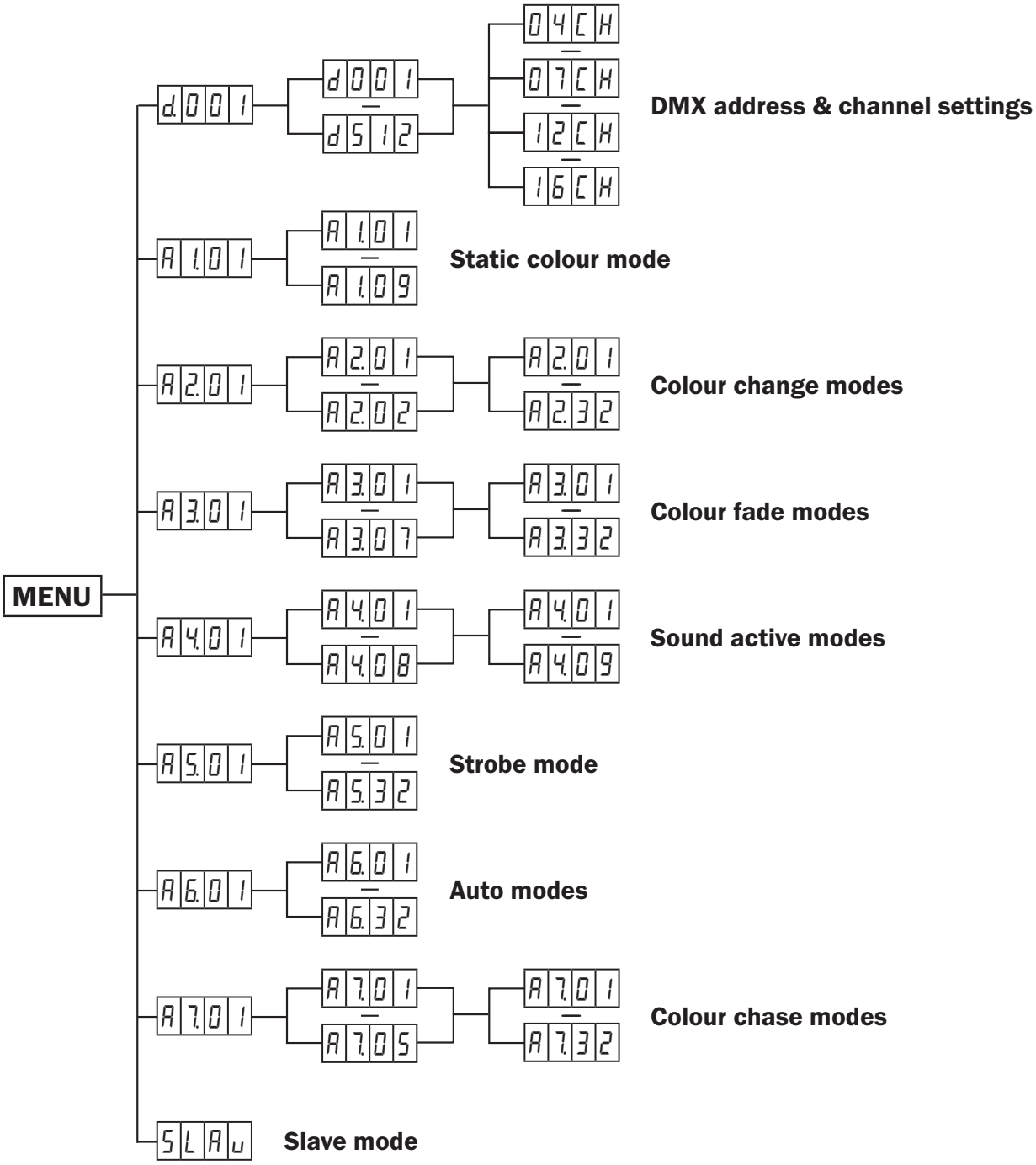
Specifications	Microbar COB System
Power consumption	90W
Power supply	100~240V, 50/60Hz
Fuse	F3A 250V
Dimensions (without stand)	200 x 720 x 110mm
Weight	5.7kg
Order code	EQLED137





01 - LED display
02 - Function buttons
03 - DMX input
04 - DMX output
05 - IEC power input
06 - IEC power output
07 - Fuse F3A 250V
08 - 35mm stand adaptor

In the box: **1 x fixture, 1 x road bag, 1 x stand & bag, 1 x IR remote, 1 x power cable & 1 x user manual**


MENU
d.001
d001
d512
004CH
007CH
012CH
016CH
DMX address & channel settings
A1.01
A1.01
A1.09
Static colour mode
A2.01
A2.01
A2.02
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A2.32
Colour change modes
A3.01
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Colour fade modes
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Sound active modes
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Strobe mode
A6.01
A6.01
A6.32
Auto modes
A7.01
A7.01
A7.05
A7.01
A7.32
Colour chase modes
SLAv
Slave mode

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 to show d001 on the LED display. Now 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. Now use the "**UP**" and "**DOWN**" buttons to choose one of the 4/7/12 or 16 DMX channel modes. Press the "**ENTER**" button to confirm the setting.

4 channel mode:

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

16 channel mode:

Channel	Value	Function	
CH1	000-255	Master dimmer (0-100%)	
CH2	000-255	Strobe (slow-fast)	
CH3	000-255	Red (0-100%)	Par 1
CH4	000-255	Green (0-100%)	
CH5	000-255	Blue (0-100%)	
CH6	000-255	Red (0-100%)	Par 2
CH7	000-255	Green (0-100%)	
CH8	000-255	Blue (0-100%)	
CH9	000-255	Red (0-100%)	Par 3
CH10	000-255	Green (0-100%)	
CH11	000-255	Blue (0-100%)	
CH12	000-255	Red (0-100%)	Par 4
CH13	000-255	Green (0-100%)	
CH14	000-255	Blue (0-100%)	
CH15	000-009	No function	
	010-099	All pars full on	
	100-129	Colour change	
	130-159	Colour fade	
	160-189	Colour chase	
	190-219	Sound active mode 1	
	220-249	Sound active mode 2	
	250-255	Sound active mode 3	
CH16	000-255	Speed adjustment	

7 channel mode:

Channel	Value	Function
CH1	000-255	Master dimmer (0-100%)
CH2	000-255	Strobe (slow-fast)
CH3	000-255	Red (0-100%)
CH4	000-255	Green (0-100%)
CH5	000-255	Blue (0-100%)
CH6	000-009	No function
	010-099	All pars full on
	100-129	Colour change
	130-159	Colour fade
	160-189	Colour chase
	190-219	Sound active mode 1
	220-249	Sound active mode 2
	250-255	Sound active mode 3
CH7	000-255	Speed adjustment

12 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	000-255	Par 2 Red (0-100%)
CH5	000-255	Par 2 Green (0-100%)
CH6	000-255	Par 2 Blue (0-100%)
CH7	000-255	Par 3 Red (0-100%)
CH8	000-255	Par 3 Green (0-100%)
CH9	000-255	Par 3 Blue (0-100%)
CH10	000-255	Par 4 Red (0-100%)
CH11	000-255	Par 4 Green (0-100%)
CH12	000-255	Par 4 Blue (0-100%)

Static colour mode:

To access static colour mode, press the "**MENU**" button on the rear of the unit to show A 1.0 1 on the LED display. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to choose between A 1.0 1 ~ A 1.09. Press the "**ENTER**" button to confirm the setting.

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

Colour change modes:

To access colour change mode, press the "**MENU**" button on the rear of the unit to show A2.0 1 on the LED display. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to choose between A2.0 1 ~ A2.02. Press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to select the speed between A2.0 1 ~ A2.32. Press the "**ENTER**" button to confirm the setting.

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

Colour fade modes:

To access the colour fade modes, press the "**MENU**" button on the rear of the unit to show A3.0 1 on the LED display. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to choose between A3.0 1 ~ A3.07. Press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to select the speed between A3.0 1 ~ A3.32. Press the "**ENTER**" button to confirm the setting. Press the "**ENTER**" button to confirm the setting.

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

Sound modes:

To access the sound active modes, press the "**MENU**" button on the rear of the unit to show A4.0 1 on the LED display. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to choose between A4.0 1 ~ A4.08. Press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to select the sound sensitivity between A4.0 1 ~ A4.09. Press the "**ENTER**" button to confirm the setting. Press the "**ENTER**" button to confirm the setting.

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

Strobe modes:

To access the strobe modes, press the "**MENU**" button on the rear of the unit to show A5.0 1 on the LED display. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to choose between A5.0 1 ~ A5.32. Press the "**ENTER**" button to confirm the setting.

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

Auto modes:

To access the auto modes, press the "**MENU**" button on the rear of the unit to show A6.0 1 on the LED display. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to choose between A6.0 1 ~ A6.32. Press the "**ENTER**" button to confirm the setting.

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

Colour chase modes:

To access the colour chase modes, press the "**MENU**" button on the rear of the unit to show A7.01 on the LED display. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to choose between A7.01 ~ A7.05. Press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to select the speed between A7.01 ~ A732. Press the "**ENTER**" button to confirm the setting.
Press the "**ENTER**" button to confirm the setting.

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

Master/slave mode:

To set the master unit select your desired program (static colour, colour change, colour fade, sound active, strobe, auto, colour chase or DMX).
To set the other units in slave mode, press the "**MENU**" button on the front of the unit to show SLAv on the LED display. Press the "**ENTER**" button to confirm the setting. The unit will now run in sequence with the master unit.

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

Please ensure that all slave units are set to the same DMX channel mode as the master unit.

IR remote functions:

Button functions:

01 - Sets the unit into blackout on or off

02 - Sets the unit into DMX - Use the '+' and '-' DMX buttons to change the DMX address (001-512)

03 - Puts the unit into static colour mode - Use the '+' and '-' colour buttons to select the desired colour.

04 - Puts the unit into colour change mode - Use the '+' and '-' speed buttons to select the desired speed

05 - Puts the unit into colour fade mode - Use the '+' and '-' colour buttons to select the desired program, and the '+' and '-' speed buttons to select the desired program speed

06 - Puts the unit into sound active mode - Use the '+' and '-' colour buttons to select the desired program, and the '+' and '-' sen buttons to select the desired sensitivity level (1-4)

07 - Puts the unit into strobe mode - Use the '+' and '-' colour buttons to select the desired program, and the '+' and '-' speed buttons to select the desired strobe speed

08 - Puts the unit into auto mode - Use the '+' and '-' speed buttons to select the desired speed

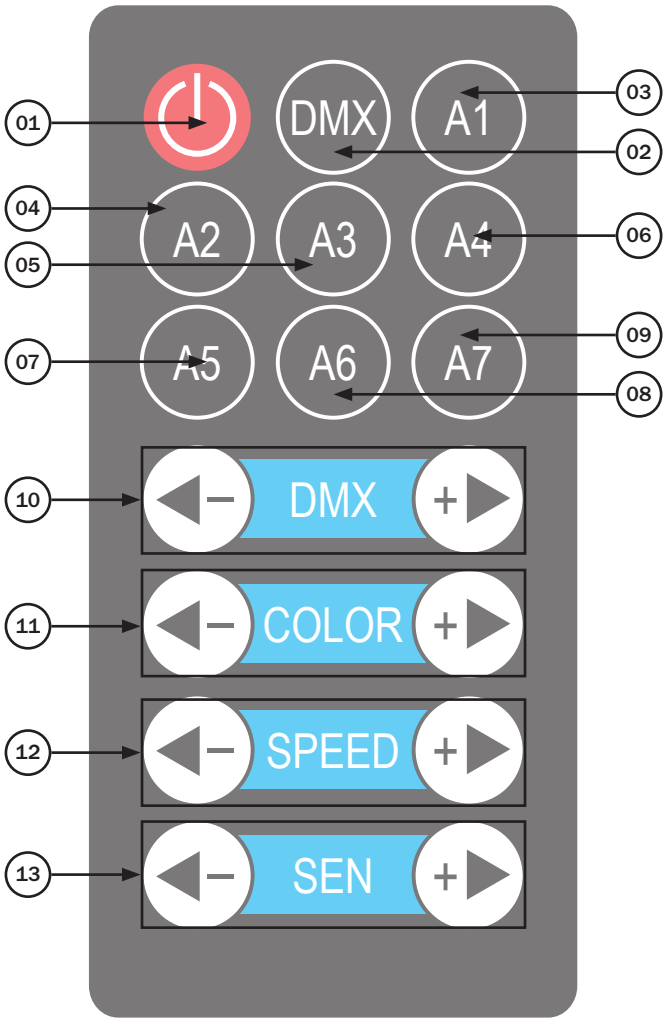
09 - Puts the unit into colour chase mode - Use the '+' and '-' speed buttons to select the desired speed

10 - Sets the unit into DMX - Use the '+' and '-' DMX buttons to change the DMX address (001-512)

11 - Sets the static colour/colour programs - Use the '+' and '-' buttons to change the desired colour/program (note: only available in the static colour, colour fade, sound active and strobe modes)

12 - Sets the program speed level - Use the '+' and '-' buttons to change the desired program speed level (note: only available in the colour change, colour fade, strobe, auto and colour chase modes)

Sets the sound sensitivity level - Use the '+' and '-' buttons to change the desired sound sensitivity level (note: only available in sound active mode)



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 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.

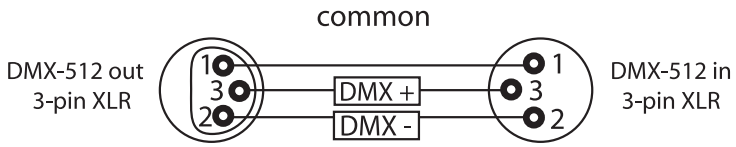
Please quote:

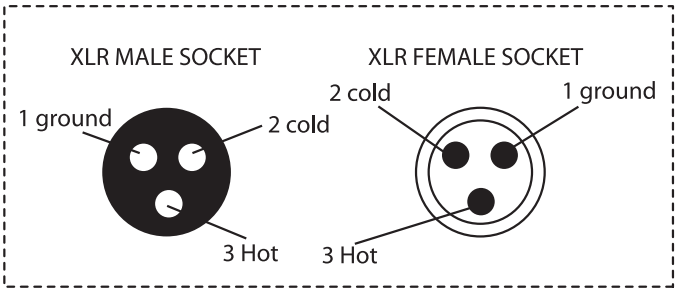
CABL10 – 2m
CABL11 – 5m
CABL12 – 10m

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 = Postive

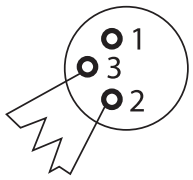
Special note:

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.

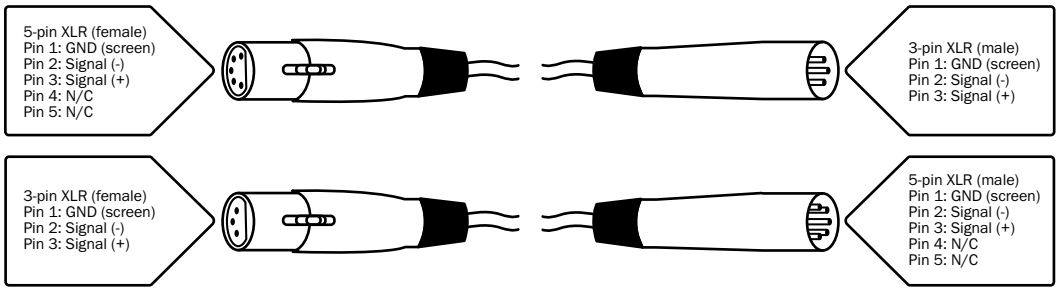
(3-pin - Order ref: CABL90, 5-pin - Order ref: CABL89)



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 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.

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