

EQUINOX

FX Block User Manual



Order codes: EQLED423

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 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.

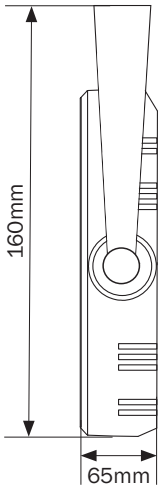
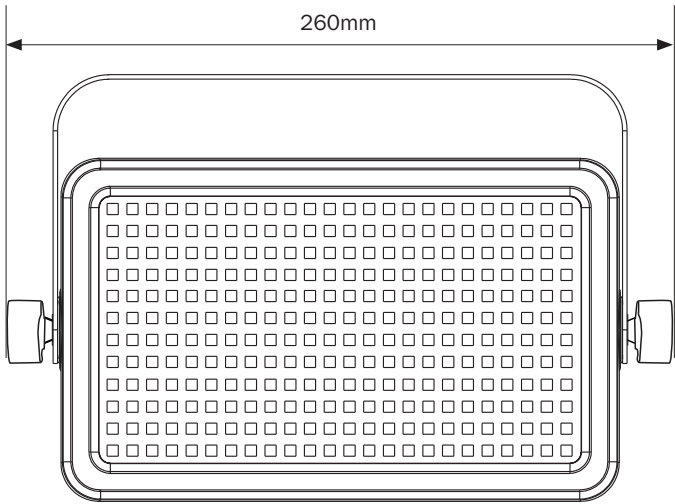
FX Block

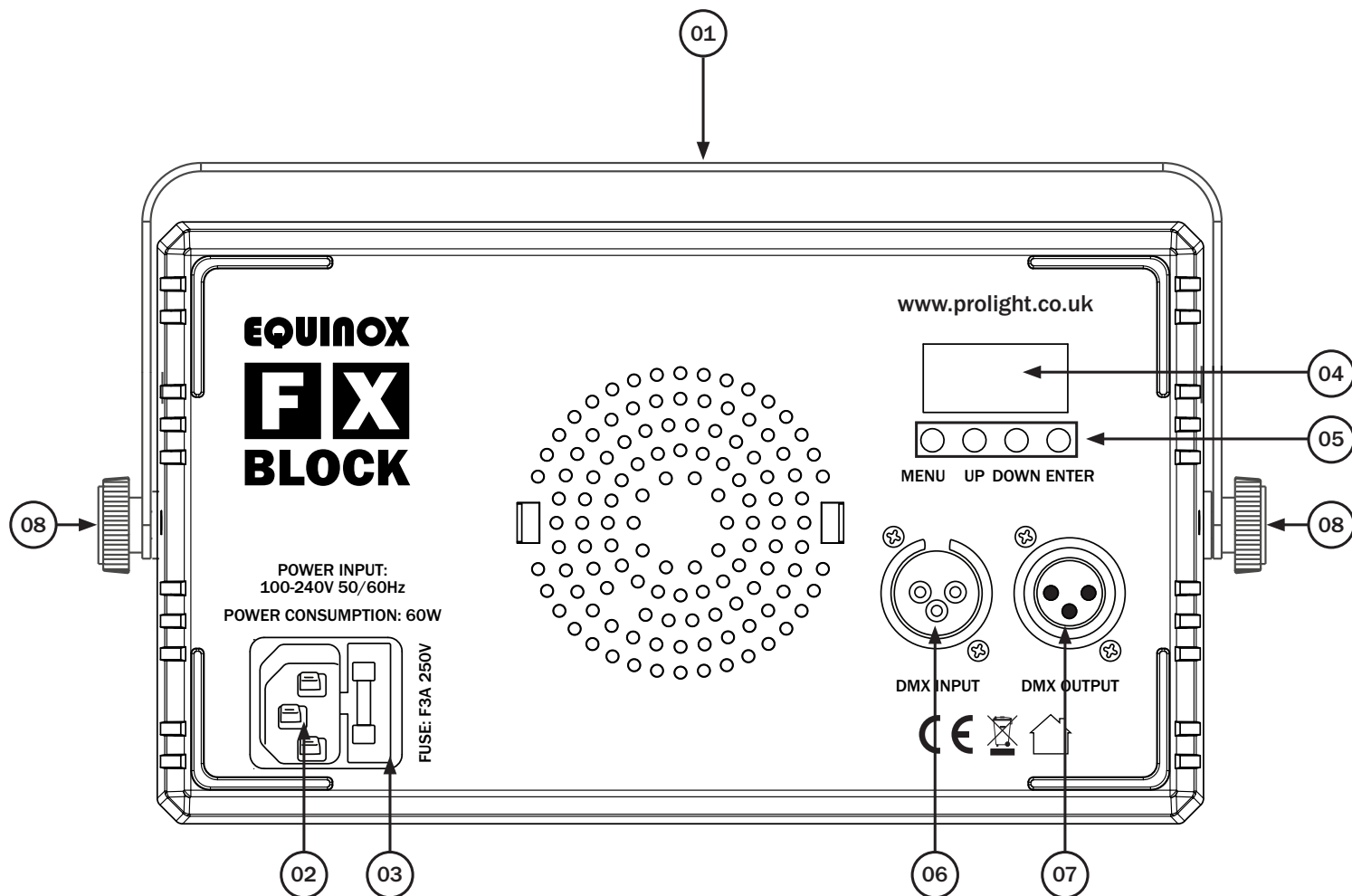
The Equinox FX Block is a compact, highly portable RGB LED strobe and effect panel, featuring 288 SMD 5050 LEDs divided into 48 segments for stunning pixel effects. Weighing just 0.65kg, this ultra-light fixture is perfect for mobile DJs and performers alike.

With 40 built-in RGB chase and strobe patterns, the FX Block delivers bright eye-candy visuals. Its versatile operation includes DMX control (3 or 8 channels), auto mode, sound activation, and an RF remote, making it ideal for plug-and-play or more advanced use.

- 288 tri-colour SMD 5050 LEDs (RGB)
- Beam angle: 60°
- Field angle: 112°
- Refresh rate: 4kHz
- DMX channels: 3 or 8 selectable
- Static colour, auto, sound active, and primary/secondary modes
- 0-100% dimming
- Variable strobe
- Supplied with hanging bracket
- 4-button menu with LED display
- IEC power input
- 3-Pin XLR input/output
- Fan cooled
- Supplied with RF remote

Specifications	FX Block
Power consumption	60W
Power supply	100~240V, 50/60Hz
Fuse	F3A 250V
Dimensions	160 x 260 x 65mm
Weight	0.65kg
Order code	EQLED423





01 - Bracket

02 - IEC power input

03 - Fuse F3A 250V

04 - LED display

05 - Function buttons

06 - 3-Pin DMX input

07 - 3-Pin DMX output

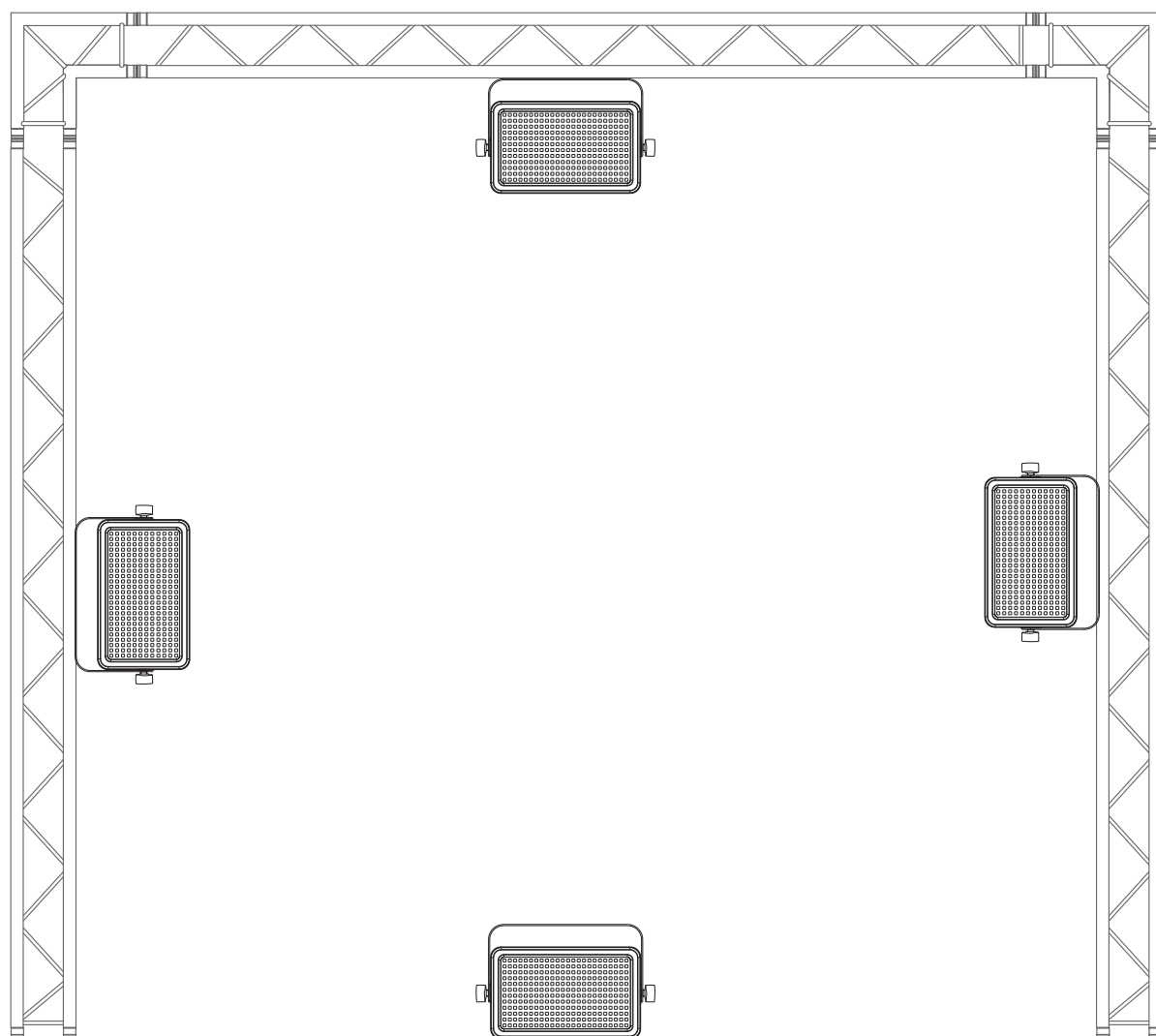
08 - Bracket knobs

In the box:

**1 x fixture with hanging bracket,
1 x IR remote,
2 x adjustable knobs
& 1 x power cable**

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.

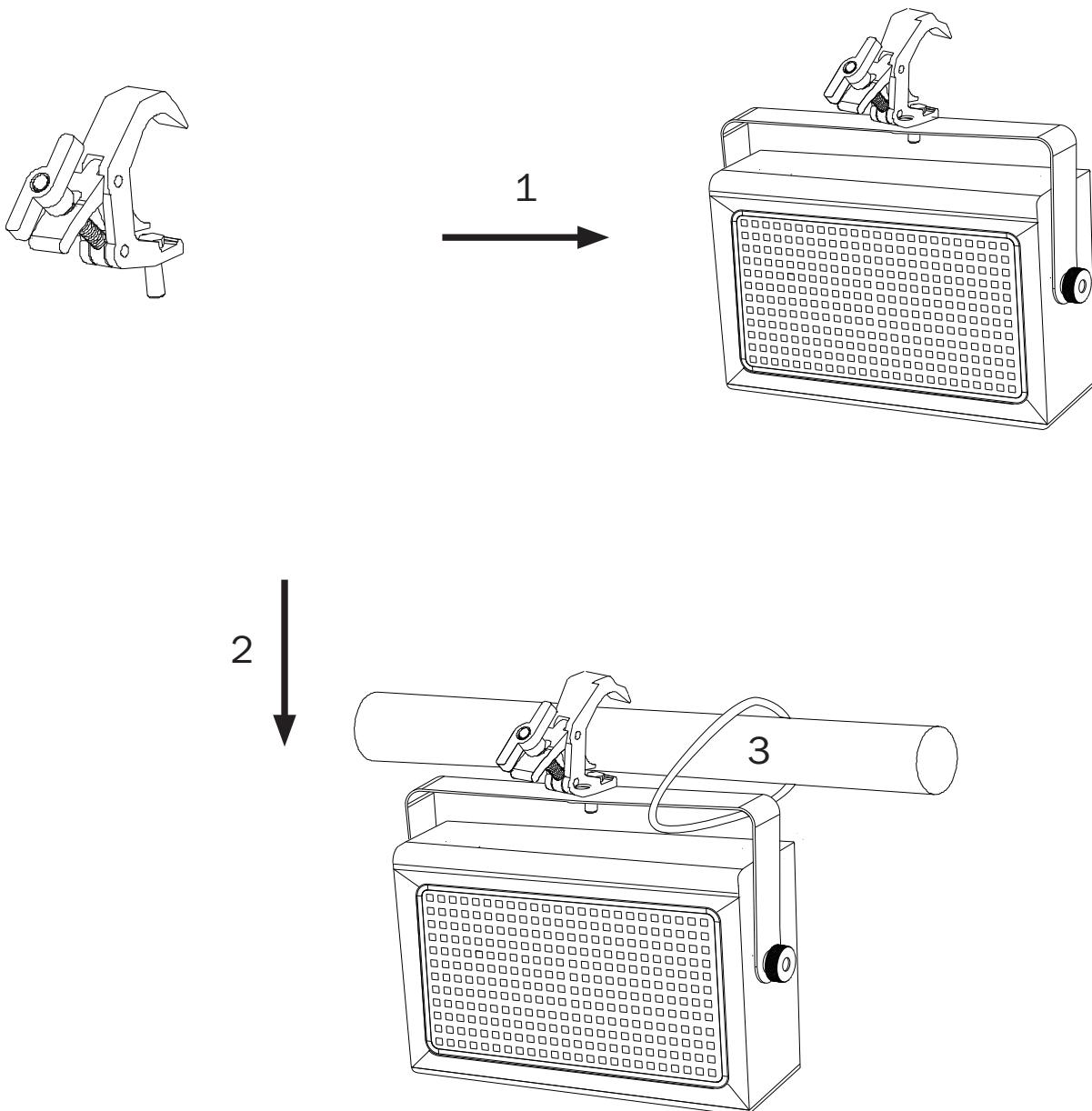
Overhead installation requires experience and qualifications to calculate working load limits, the material being used at the installation area and periodic safety inspections of the fixture and installation material. If you do not have the relevant experience and/or qualifications please do not attempt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



The Equinox FX Block can be operated in a number of mounting positions as shown in the diagram above, hanging upside-down 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 clamp to the hole on the bracket.
2. Mount the fixture onto your truss system via the clamp and tighten to ensure secure.
3. Pull the safety cable around the bracket and around the truss.



DMX:

To setup and control your light by an external DMX controller:

Press “**MENU**” until *ADD 1* (3 channel mode) or *d00 1* (8 channel mode) is shown on the display.

Press “**ENTER**” and use “**UP**” and “**DOWN**” buttons to set the required DMX address (full DMX charts can be found on pages 8-9). Press the “**ENTER**” button to confirm the settings.

Now connect your DMX controller to the fixtures DMX input via a 3-Pin DMX cable.

Show modes:

To use one of the fixtures built-in programs:

Press “**MENU**” until *CC - -* shown on the display. Now press “**ENTER**” and use “**UP**” and “**DOWN**” buttons to select between *CC0 1 ~ CC42*. To change the speed press “**ENTER**” and use “**UP**” and “**DOWN**” buttons to choose between *SP0 1 ~ SP99*.

If you would like the fixture to change to the beat of the music:

Press “**MENU**” until *SU - -* shown on the display. Now press “**ENTER**” and use “**UP**” and “**DOWN**” buttons to select between *SU0 1 ~ SU02*.

Press the “**ENTER**” button to confirm any of the above settings.

Static colour / pattern mode:

To use one of the fixtures static colours/patterns:

Press “**MENU**” until *CL - -* shown on the display. Now press “**ENTER**” and use “**UP**” and “**DOWN**” buttons to select between *CL0 1 ~ CL 12* (full colour chart can be found on page10).

Linking multiple fixtures (primary/secondary):

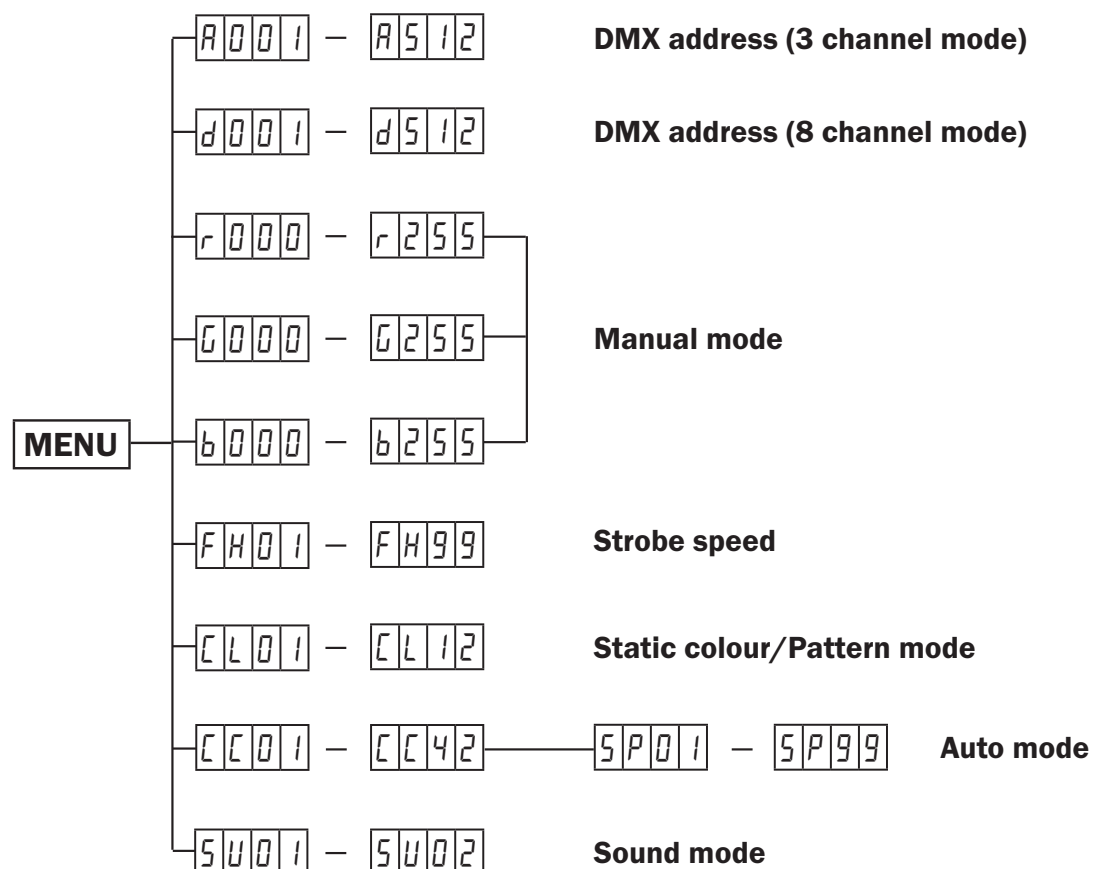
To link multiple fixtures together:

Connect the fixtures together with a 3-Pin DMX cable.

On the primary unit, select your desired program (auto, sound or static colour/pattern) as shown above.

On the secondary unit(s), press “**MENU**” until *ADD 1* or *d00 1* is shown on the display. The unit will now run in sequence with the primary unit.

Ensure all secondary units are set to the same DMX settings as the primary unit.



DMX mode:

To access the DMX address mode, press the “**MENU**” button to show *A0001* (3 channel mode) or *d0001* (8 channel mode) on the LED display.

Press the “**ENTER**” to confirm and use the “**UP**” and “**DOWN**” buttons to set the required DMX address.

3 channel mode:

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

8 channel mode:

Channel	Value	Function
CH1	000-255	Master dimmer (0-100%)
CH2	000	No function
	001-255	Strobe (slow-fast)
CH3	000	No function
	001-085	Static colours (use CH4 to select colours)
	086-171	Auto modes (use CH4 to select programs 1-40)
	172-255	Sound mode (use CH4 to select sound mode)
CH4	000-255	Static colour selection (CH3 must be between 001-085)
		Auto mode selection (CH3 must be between 086-171)
		Sound mode selection (CH3 must be between 172-255)
CH5	000-255	Auto mode speed (slow-fast) (when CH3 is between 086-171)
CH6	000-255	Red dimmer (0-100%)
CH7	000-255	Green dimmer (0-100%)
CH8	000-255	Blue dimmer (0-100%)

Manual mode:

To access the manual mode, press the “MENU” button and use the “UP” and “DOWN” buttons on the rear of the unit to show *r255* on the LED display. Press the “ENTER” button and use the “UP” and “DOWN” buttons to select the red dimmer between *r.000* and *r.255*. Press the “ENTER” button and use the “UP” and “DOWN” to repeat for *g* (green), *b* (Blue). Press the “ENTER” button to confirm the setting. (LED brightness 000 = off, 255 = full brightness)

Strobe mode:

To access strobe mode, press the “MENU” button to show *FH99* on the LED display. Now press the “UP” and “DOWN” buttons to select the speed between *FH01* - *FH99*. Press the “ENTER” button to confirm the setting.

Static colour/Pattern mode:

To access the static colour mode, press the “MENU” button and use the “UP” and “DOWN” buttons on the rear of the unit to show *CL01* on the LED display. Press the “ENTER” button and use the “UP” and “DOWN” buttons to select between *CL01* and *CL12*. Press the “ENTER” button to confirm the setting.

CL01 - Red

CL05 - Magenta

CL09 - Pattern 2

CL02 - Green

CL06 - Cyan

CL10 - Pattern 3

CL03 - Blue

CL07 - White

CL11 - Pattern 4

CL04 - Yellow

CL08 - Pattern 1

CL12 - Pattern 5

Auto mode:

To access the auto modes, press the “MENU” button and use the “UP” and “DOWN” buttons on the rear of the unit to show *CC01* on the LED display. Press the “UP” or “DOWN” button to select between *CC01* and *CC42*. Press the “ENTER” button and use the “UP” and “DOWN” buttons to select the speed between *SP01* and *SP99* (slow-fast). Press the “ENTER” button to confirm the setting.

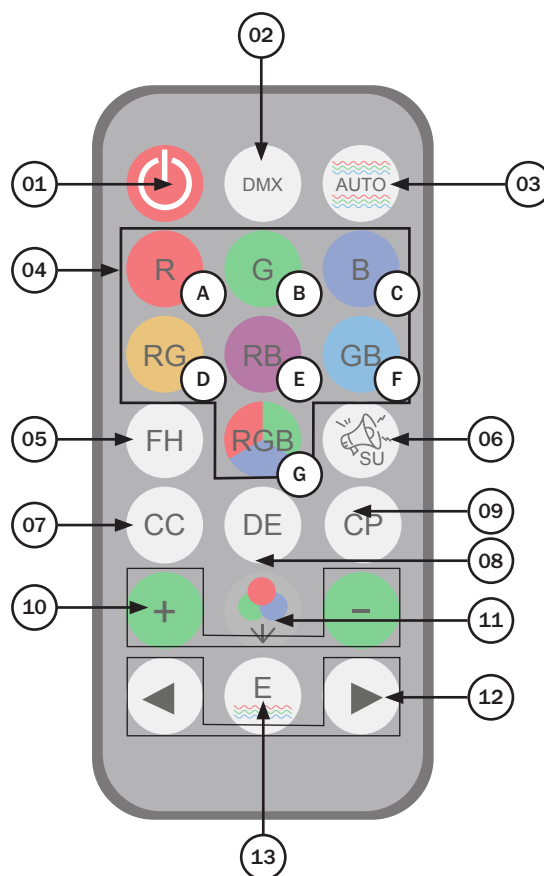
Sound modes:

To access the sound modes, press the “MENU” button to show *SU01* on the LED display. Press the “ENTER” button and use the “UP” and “DOWN” buttons to select between *SU01* and *CSU02*. Press the “ENTER” button to confirm the setting.

IR remote functions:

- 01 - Sets the unit into blackout off (LED off)
- 02 - Sets the DMX address mode (3 channel mode).
Use the '+' and '-' buttons to change the DMX address.
- 03 - Sets the auto mode. Use the '+' and '-' buttons to go through the programs and then the 'Speed' button followed by the '+' and '-' buttons to adjust the program speed.
- 04 - Sets the static colour (see chart key for colours)

A - Red	D - Yellow	G - White
B - Green	E - Magenta	
C - Blue	F - Cyan	
- 05 - Sets the strobe speed. Press this button followed by the '+' and '-' buttons to adjust the program speed
- 06 - Runs the sound programs, use the '+' and '-' buttons to go through the programs
- 07 - Colour change mode
- 08 - Colour fade mode
- 09 - Colour fade in/out mode
- 10 - '+' and '-' buttons to adjust all the settings as detailed above
- 11 - Sets the DMX address mode (8 channel mode).
Use the '+' and '-' buttons to change the DMX address.
- 12 - ◀ and ▶ buttons to scroll through the main menu. Press these buttons to go through the programs, and followed by the '+' and '-' buttons to adjust the program.
- 13 - Pattern 5



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 requires a standard 3-pin XLR connector for data input/output, see images below.



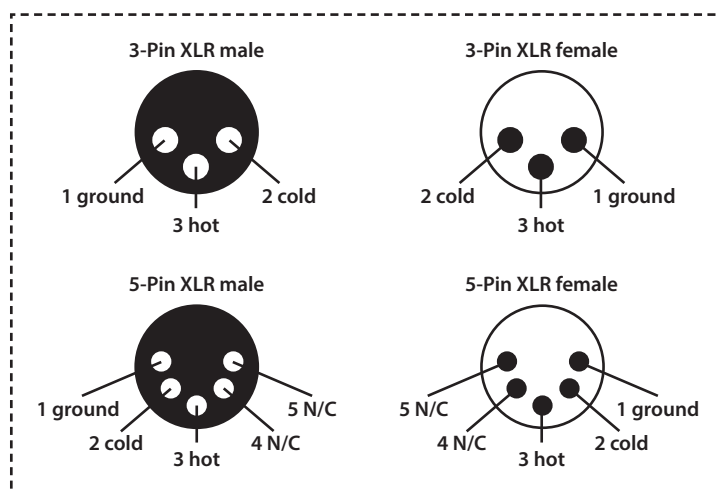
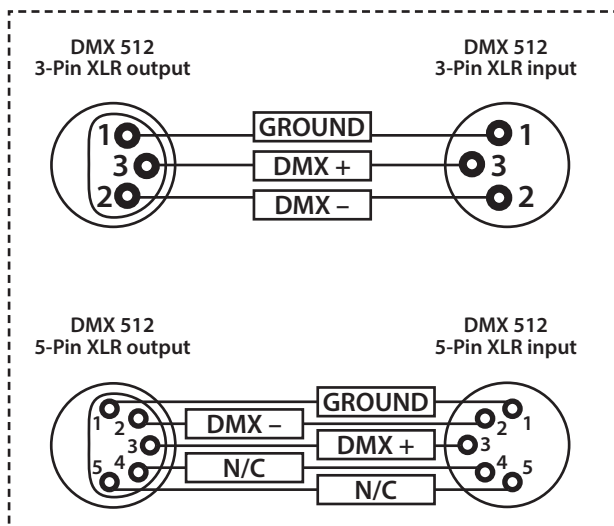
Further DMX cables can be purchased from all good sound and lighting suppliers or Prolight Concepts dealers.
Please quote: 3-Pin: **CABL10 – 2m** **CABL11 – 5m** **CABL12 – 10m**

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



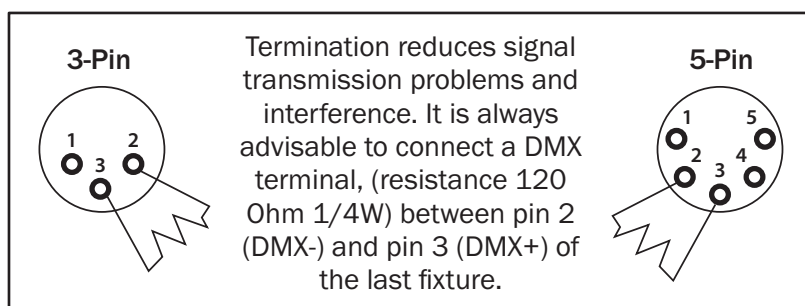
Line termination:

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.

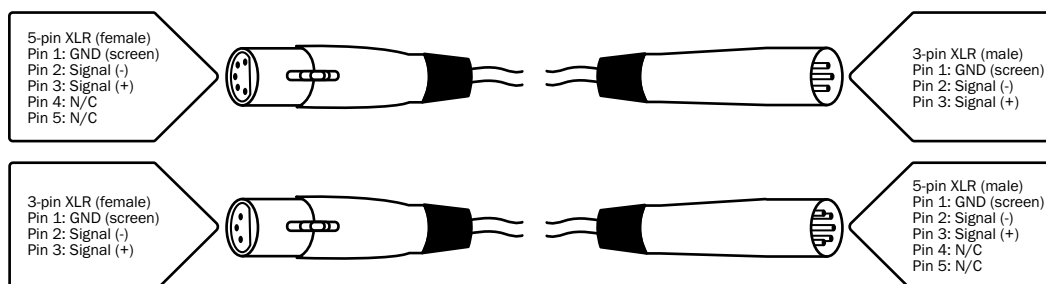
(3-pin - Order ref: CABL90,

5-pin - Order ref: CABL89)



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.

EQUINOX

