EQUINOX

RGB Power Batten MKII

User Manual

Order codes:

EQLED036 - Black Housing

EQLED036A - White Housing

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 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!

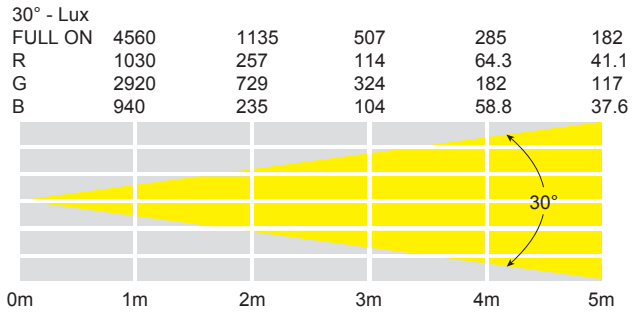
Incorrect installation or use can cause serious damage to people and/or property.

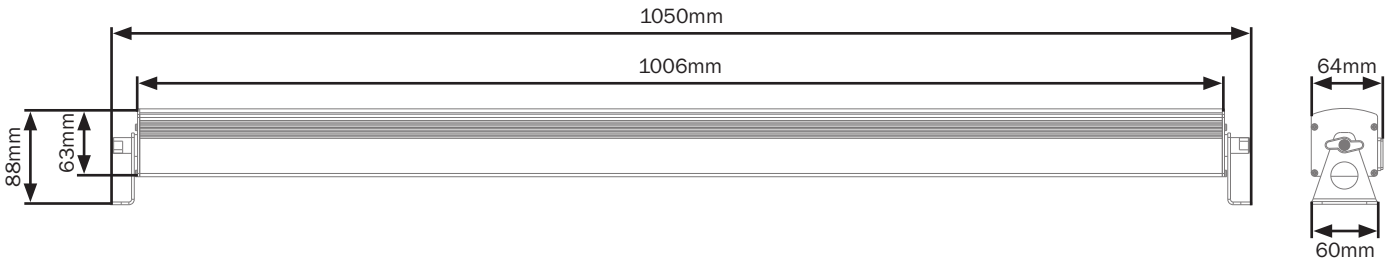
RGB Power Batten MKII

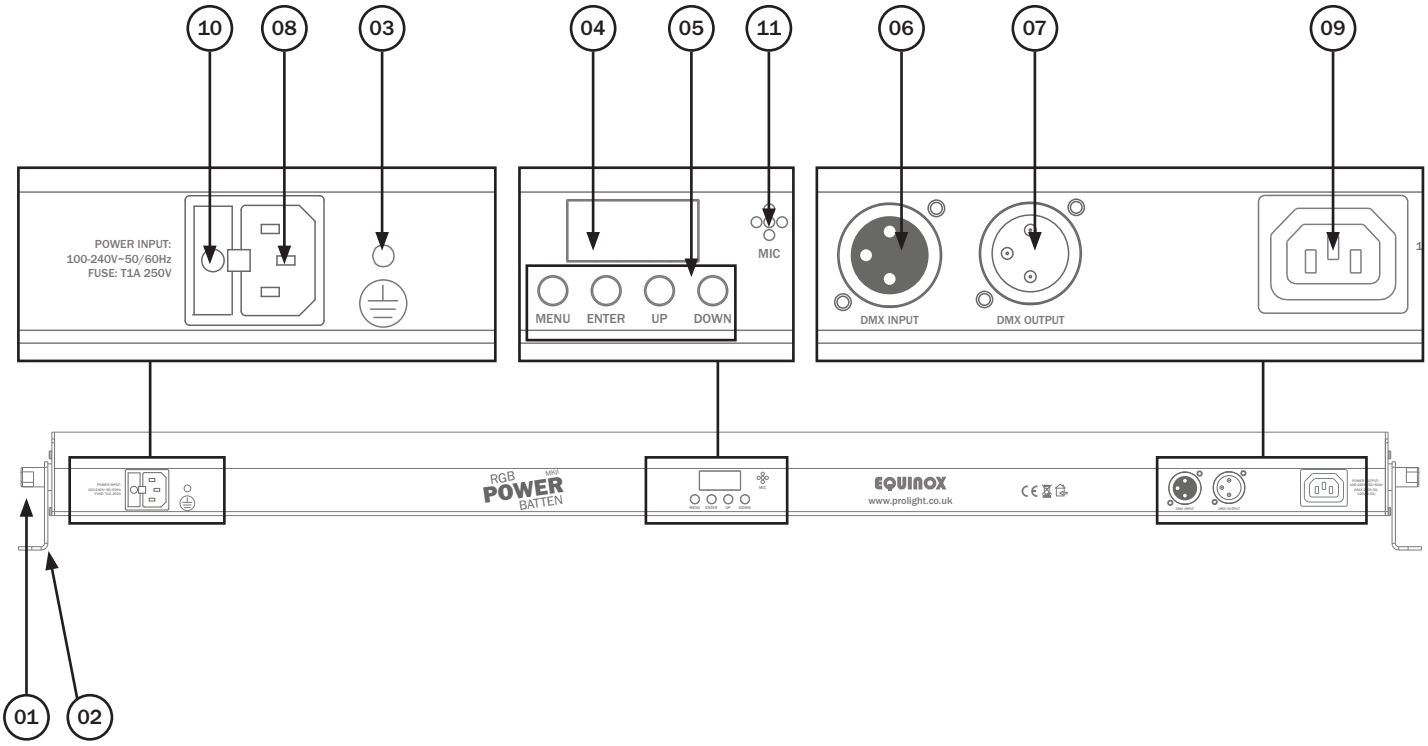
The 1m RGB Power Batten contains 240 RGB LEDs divided into 8 segments. On board features include colour mixing to create soft washes from its rich colour palette, and chase programs controlled in auto mode or activated by music. Several different chase programs are included and can be selected by the control panel along with brightness and speed.

- 240 x 10mm LEDs (R: 96, G: 72, B: 72)
- Beam angle: 30°
- DMX channels: 2/3/4/7/14 or 26 selectable
- Sound active, auto and master/slave modes
- 0-100% dimming and variable strobe
- Bracket allows for multiple rigging or floor standing applications
- 4 push button menu with LED display
- IEC power input/output
- 3-Pin XLR input/output
- Convection cooled

Specifications	
Power consumption	30W
Power supply	100~240V, 50/60Hz
Fuse	T1A 250V
Dimensions	88 x 1050 x 64mm
Weight	1.9kg
Order code	EQLED036 - Black Housing EQLED036A - White Housing

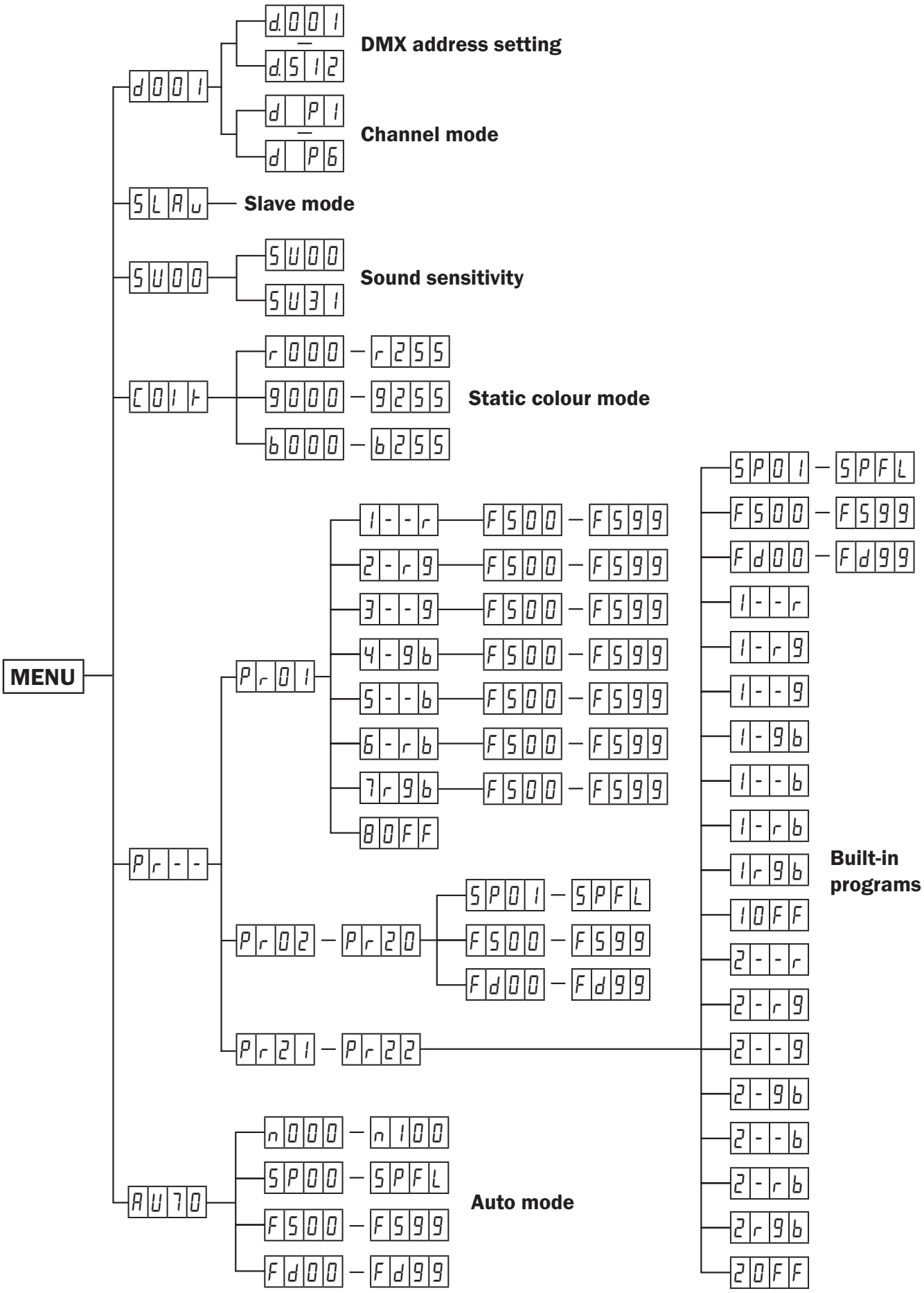






01 - Bracket tightening knobs
02 - Bracket
03 - Earth point
04 - LED display
05 - Function buttons
06 - 3-Pin XLR input
07 - 3-Pin XLR output
08 - IEC power input
09 - IEC power output
10 - Fuse T1A 250V
11 - Microphone

In the box: **1 x fixture, 2 x mounting brackets/feet 1 x power cable & 1 x user manual**


MENU
d001
d.001 – d.512
DMX address setting
d P1 – d P6
Channel mode
SLAu
Slave mode
SU00
SU00 – SU31
Sound sensitivity
C01r
r000 – r255
9000 – 9255
Static colour mode
b000 – b255
Pr-1
Pr01
1--r – FS00 – FS99
2-r9 – FS00 – FS99
3--9 – FS00 – FS99
4-9b – FS00 – FS99
5--b – FS00 – FS99
6-rb – FS00 – FS99
7r9b – FS00 – FS99
80FF
Pr02 – Pr20
SP01 – SPFL
FS00 – FS99
Fd00 – Fd99
Pr21 – Pr22
SP01 – SPFL
FS00 – FS99
Fd00 – Fd99
1--r
1-r9
1--9
1-9b
1--b
1-rb
1r9b
10FF
2--r
2-r9
2--9
2-9b
2--b
2-rb
2r9b
20FF
Built-in programs
AUTO
n000 – n100
SP00 – SPFL
FS00 – FS99
Fd00 – Fd99
Auto 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 front of the unit to show d001 on the LED display. Now use the "**UP**" and "**DOWN**" buttons to set the required DMX address. Press the "**ENTER**" button to confirm the setting. The display will now show d P1 on the LED display. Now use the "**UP**" and "**DOWN**" buttons to choose one of the 2/3/4/7/14 or 26 DMX channel modes. Press the "**ENTER**" button to confirm the setting.

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

d P1 - 3 channel mode
d P2 - 4 channel mode
d P3 - 14 channel mode
d P4 - 26 channel mode
d P5 - 2 channel mode
d P6 - 7 channel mode

2 channel mode:

Value	CH1	CH2
000-007	No function	No function
008-015	Red	Speed (0-255)
016-023	Yellow	
024-031	Green	
032-039	Cyan	
040-047	Blue	
048-055	Purple	
056-063	White	
064-071	Program 1	
072-079	Program 2	
080-087	Program 3	
088-095	Program 4	
096-103	Program 5	
104-111	Program 6	
112-119	Program 7	
120-127	Program 8	
128-135	Program 9	
136-143	Program 10	
144-151	Program 11	
152-159	Program 12	
160-167	Program 13	
168-175	Program 14	Speed (0-255)
176-183	Program 15	
184-191	Program 16	
192-199	Program 17	
200-207	Program 18	
208-215	Program 19	
216-223	Program 20	
224-231	Program 21	
232-255	Sound active mode	Sound sensitivity (0-255)

3 channel mode:

CH1	CH2	CH3
Red (0-255)	Green (0-255)	Blue (0-255)

4 channel mode:

CH1	CH2	CH3	CH4
Red (0-255)	Green (0-255)	Blue (0-255)	Master dimmer (0-255)

7 channel mode:

Value	CH1	CH2	CH3	CH4	CH5	CH6	CH7
000-007	Red (0-255)	Green (0-255)	Blue (0-255)	No function	No function	Flash (0-255)	Master dimmer (0-255)
008-015				Red	Speed (0-255)		
016-023				Yellow			
024-031				Green			
032-039				Cyan			
040-047				Blue			
048-055				Purple			
056-063				White			
064-071				Program 1			
072-079				Program 2			
080-087				Program 3			
088-095				Program 4			
096-103				Program 5			
104-111				Program 6			
112-119				Program 7			
120-127				Program 8			
128-135				Program 9			
136-143				Program 10			
144-151				Program 11			
152-159				Program 12			
160-167				Program 13			
168-175				Program 14			
176-183				Program 15			
184-191				Program 16			
192-199				Program 17			
200-207				Program 18			
208-215				Program 19			
216-223				Program 20			
224-231				Program 21			
232-255				Sound active mode	Sound sensitivity (0-255)	No function	No function

14 channel mode:

CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8	CH9
Segment 1&2 Red (0-255)	Segment 1&2 Green (0-255)	Segment 1&2 Blue (0-255)	Segment 3&4 Red (0-255)	Segment 3&4 Green (0-255)	Segment 3&4 Blue (0-255)	Segment 5&6 Red (0-255)	Segment 5&6 Green (0-255)	Segment 5&6 Blue (0-255)

CH10	CH11	CH12	CH13	CH14
Segment 7&8 Red (0-255)	Segment 7&8 Green (0-255)	Segment 7&8 Blue (0-255)	Flash (0-255) Slow-fast	Master dimmer (0-255)

26 channel mode:

CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8	CH9
Segment 1 Red (0-255)	Segment 1 Green (0-255)	Segment 1 Blue (0-255)	Segment 2 Red (0-255)	Segment 2 Green (0-255)	Segment 2 Blue (0-255)	Segment 3 Red (0-255)	Segment 3 Green (0-255)	Segment 3 Blue (0-255)

CH10	CH11	CH12	CH13	CH14	CH15	CH16	CH17	CH18
Segment 4 Red (0-255)	Segment 4 Green (0-255)	Segment 4 Blue (0-255)	Segment 5 Red (0-255)	Segment 5 Green (0-255)	Segment 5 Blue (0-255)	Segment 6 Red (0-255)	Segment 6 Green (0-255)	Segment 6 Blue (0-255)

CH19	CH20	CH21	CH22	CH23	CH24	CH25	CH26
Segment 7 Red (0-255)	Segment 7 Green (0-255)	Segment 7 Blue (0-255)	Segment 8 Red (0-255)	Segment 8 Green (0-255)	Segment 8 Blue (0-255)	Flash (0-255) Slow-fast	Master dimmer (0-255)

Auto mode:

To access auto mode, press the "**MENU**" button on the front of the unit to show Auto on the LED display. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to choose the required program n001~n100. Press the "**ENTER**" button then use the "**UP**" and "**DOWN**" buttons to select the running speed SP01~SPFL. Press the "**ENTER**" button again and use the "**UP**" and "**DOWN**" buttons to select the flash speed F500~F599. Finally press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to select the fading time Fd00~Fd99.

Press the "**ENTER**" button to confirm the setting.

Master/slave mode:

The default setting for this fixture is Master.

To set the slave unit, press the "**MENU**" button on the front of the master unit to show SLAu on the LED display. The unit is now in Slave mode.

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.

Sound active mode:

To access the sound active mode, press the "**MENU**" button on the front of the unit to show SU31 on the LED display. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to set the sound sensitivity 01~31. Press the "**ENTER**" button to confirm the setting.

Value: 01 - 31 (01 = low sensitivity, 31 = high sensitivity)

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

Static colour mode:

To access the static colour mode press "**MENU**" until `Colr` shows on the LED display.
Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to select the brightness between `r.000 ~ r.255`. Press the "**ENTER**" button and repeat for green (`G`) and blue (`b`).

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

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

Built-in programs:

To access the built-in programs, press the "**MENU**" button on the front of the unit to show `Pr--` on the LED display. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to choose the required program `Pr01 ~ Pr31`. Press the "**ENTER**" button to confirm the setting.

`Pr01` - Now use the "**UP**" and "**DOWN**" buttons to select the required colour. Press the "**ENTER**" button to confirm the setting and use the "**UP**" and "**DOWN**" buttons to choose the flash speed `F500 ~ F599`. Press the "**ENTER**" button to confirm the setting.

`Pr02 ~ Pr20` - Now use the "**UP**" and "**DOWN**" buttons to select the running speed `SP01 ~ SPFL`. Press the "**ENTER**" button to confirm the setting. Now use the "**UP**" and "**DOWN**" buttons to select the flash speed `F500 ~ F599`. Press the "**ENTER**" button to confirm the setting. Finally use the "**UP**" and "**DOWN**" buttons to select the fading time `Fd00 ~ Fd99`.
Press the "**ENTER**" button to confirm the setting.

`Pr21 ~ Pr22` - Now use the "**UP**" and "**DOWN**" buttons to select the running speed `SP01 ~ SPFL`. Press the "**ENTER**" button to confirm the setting. Now use the "**UP**" and "**DOWN**" buttons to select the flash speed `F500 ~ F599`. Press the "**ENTER**" button to confirm the setting. Use the "**UP**" and "**DOWN**" buttons to select the fading time `Fd00 ~ Fd99`. Press the "**ENTER**" button to confirm the setting. To set the background colour use the "**UP**" and "**DOWN**" buttons to select between `1--r ~ 10FF`. Press the "**ENTER**" button to confirm the setting. Finally to set the chasing colour use the "**UP**" and "**DOWN**" buttons to select between `2--r ~ 20FF`.

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

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.

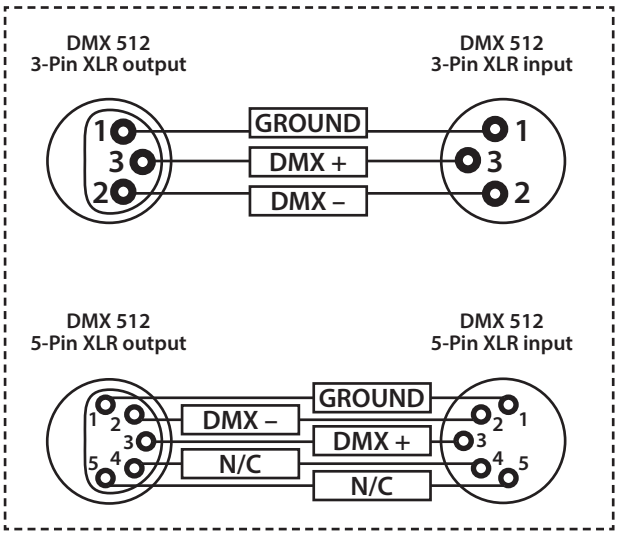
Please quote:	3-Pin:	**CABL10 – 2m**	**CABL11 – 5m**	**CABL12 – 10m**
	5-Pin:	**CABL185 – 2m**	**CABL187 – 5m**	**CABL188 – 10m**

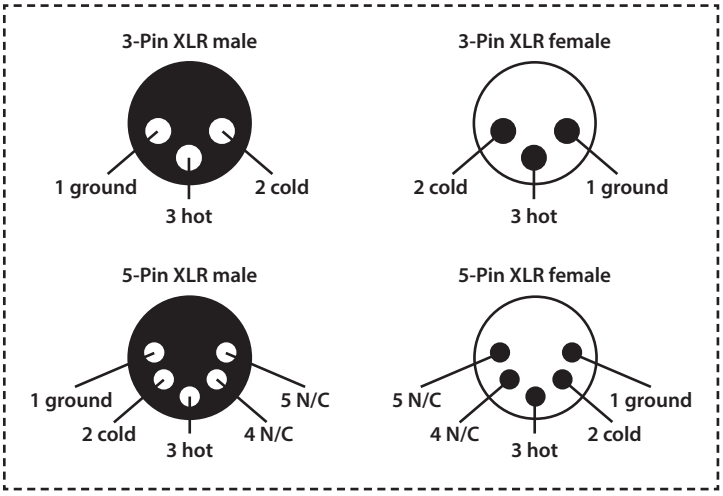
Also remember that DMX cable must be daisy chained and cannot be split.

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

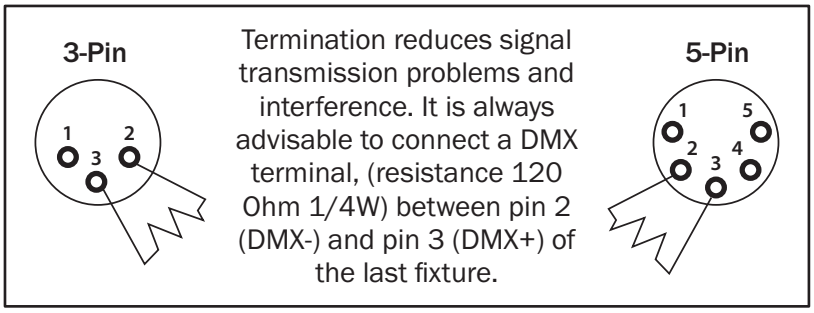




Line termination:

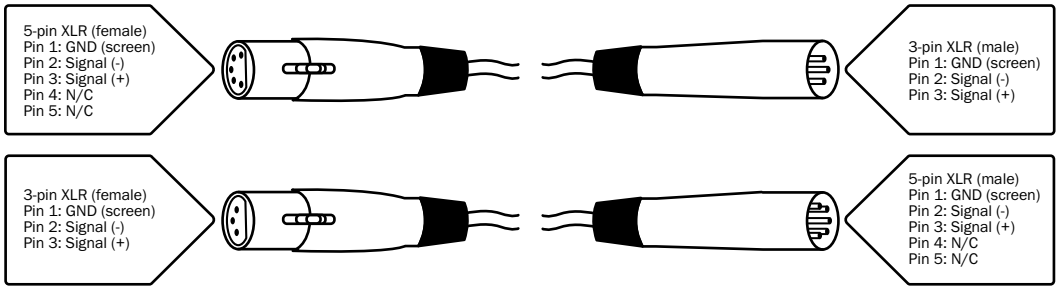
When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behaviour.

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.



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.