EQUINOX

Quad Pix Batten

User Manual

Order code: EQLED034

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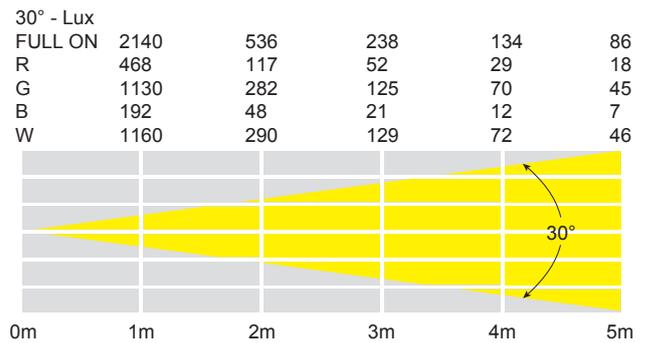
Do not endanger your own safety and the safety of others!

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

Quad Pix Batten

The Quad Pix Batten is a Pixel controllable LED bar with 12 x 4W 4-in-1 RGBW LEDs. Full pixel control is available when operated in 48 channel mode to create stunning colour flows and chases but can also be controlled in several other channel modes.

- 12 x 4W quad-colour LEDs (RGBW)
- Beam angle: 30°
- 536 Lux @ 2m (full on)
- 2kHz refresh rate
- Pixel mapping capabilities
- DMX channels: 3/4/6 or 48 selectable
- Static colour, auto, sound active and master/slave modes plus built-in programs
- 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

30° - Lux					
FULL ON	2140	536	238	134	86
R	468	117	52	29	18
G	1130	282	125	70	45
B	192	48	21	12	7
W	1160	290	129	72	46

0m	1m	2m	3m	4m	5m

Specifications	
Power consumption	48W
Power supply	100~240V, 50/60Hz
Fuse	T1A 250V
Dimensions	88 x 1070 x 65mm
Weight	2kg
Order code	EQLED034

1070mm

65mm

88mm

POWER INPUT: 100-240V~50/60Hz

FUSE: T1A 250V

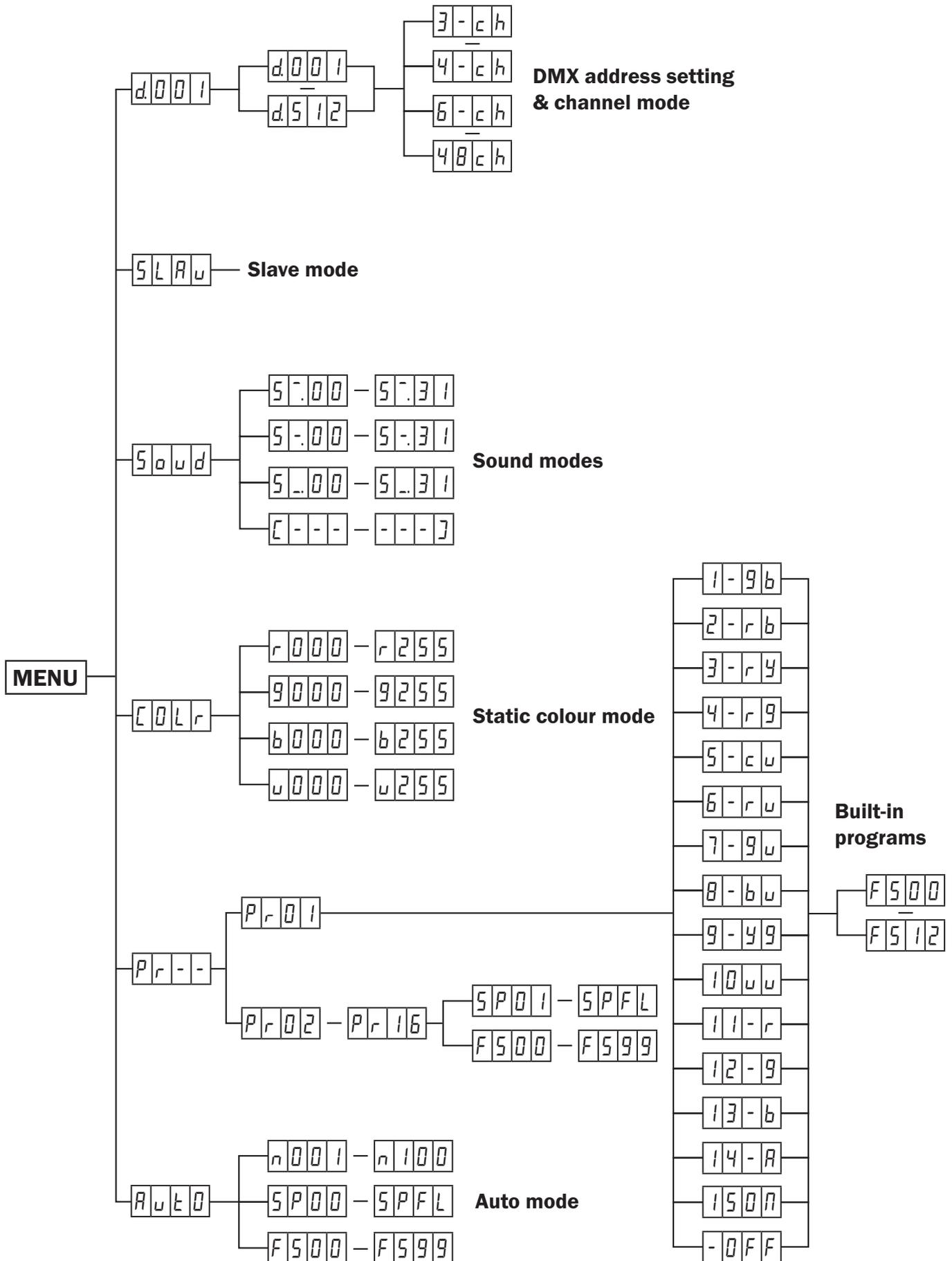MENU ENTER UP DOWN

DMX INPUT DMX OUTPUT
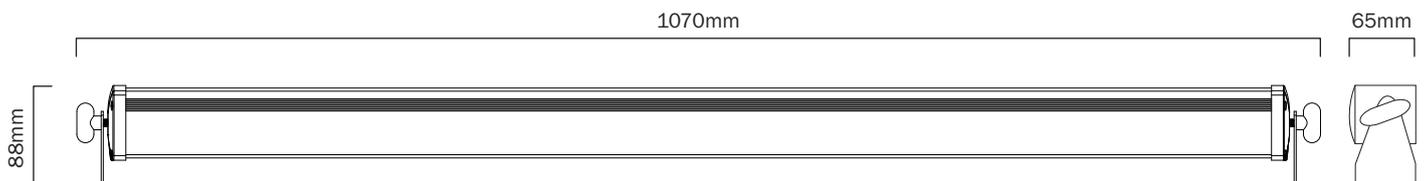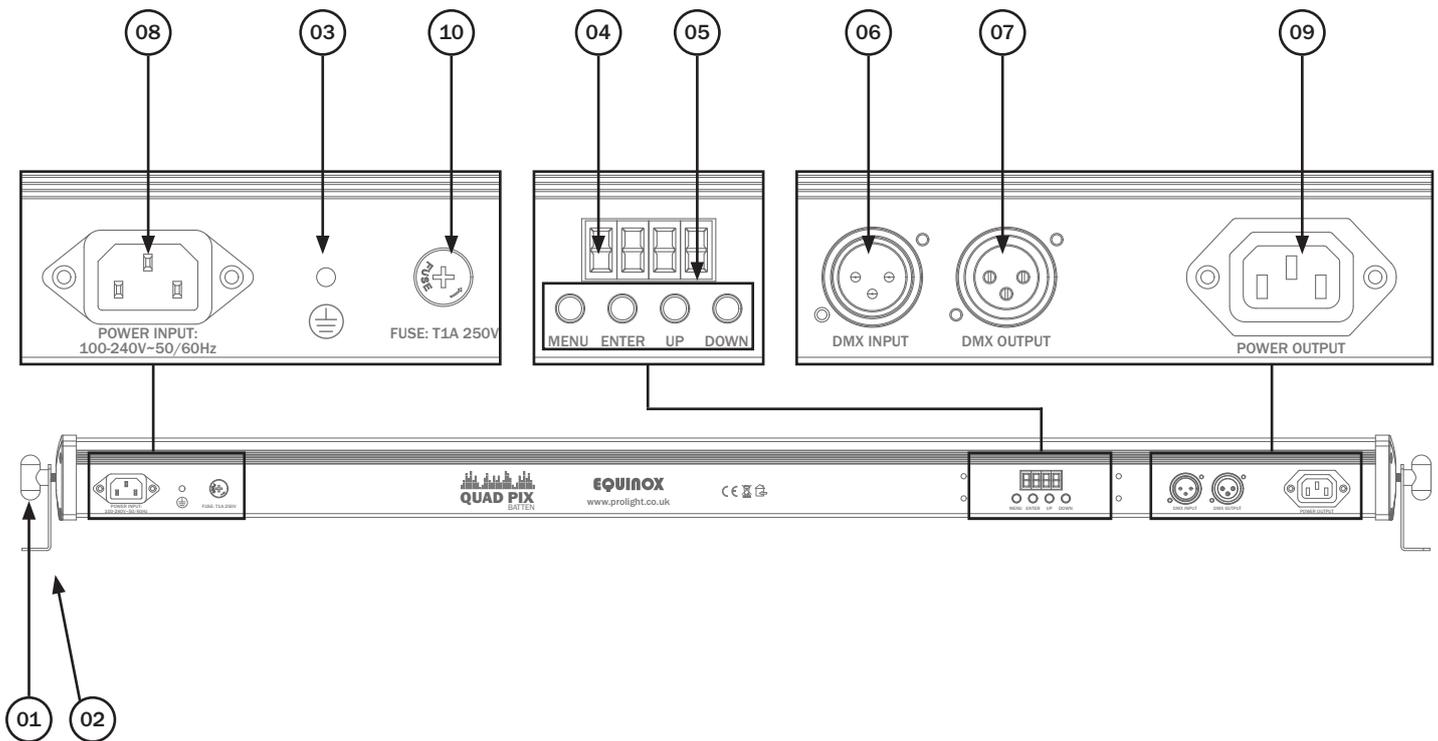
POWER OUTPUT

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

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

MENU

- d.001
  - d.001 – d.512
    - 3-ch
    - 4-ch
    - 6-ch
    - 48ch

  DMX address setting & channel mode

- SLAu — **Slave mode**

- Soud
  - S˥.00 – S˥.31
  - S-.00 – S-.31
  - S_.00 – S_.31
  - C--- – ---Ɔ

  Sound modes

- COLr
  - r000 – r255
  - 9000 – 9255
  - b000 – b255
  - u000 – u255

  Static colour mode

- Pr--
  - Pr01
  - Pr02 – Pr16
    - SP01 – SPFL
    - FS00 – FS99

- Auto
  - n001 – n100
  - SP00 – SPFL
  - FS00 – FS99

  Auto mode

Built-in programs:
- 1-9b
- 2-rb
- 3-rY
- 4-r9
- 5-cu
- 6-ru
- 7-9u
- 8-bu
- 9-Y9
- 10uu
- 11-r
- 12-9
- 13-b
- 14-A
- 15On
- -OFF

Built-in programs
- FS00 – FS12

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 $d.001$ 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 $--ch$ on the LED display. Now use the "**UP**" and "**DOWN**" buttons to choose one of the 3/4/6 or 48 DMX channel modes. Press the "**ENTER**" button to confirm the setting.

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

3 channel mode:

Value	CH1	CH2	CH3
000	No funtion	No funtion	No funtion
001-014	Program 2		
015-029	Program 3		
030-044	Program 4		
045-059	Program 5		
060-074	Program 6		
075-089	Program 7		
090-104	Program 8		
105-119	Program 9	Speed (0-255)	Flash (0-255)
120-134	Program 10		
135-149	Program 11		
150-164	Program 12		
165-179	Program 13		
180-194	Program 14		
195-209	Program 15		
210-224	Program 16		
225-255	Sound active	Sensitivity (0-255)	No function

4 channel mode:

Channel	Value	Function
1	000-255	Red (0-100%)
2	000-255	Green (0-100%)
3	000-255	Blue (0-100%)
4	000-255	White (0-100%)

6 channel mode:

Channel	Value	Function
1	000-255	Master dimmer (0-100%)
2	000-255	Red (0-100%)
3	000-255	Green (0-100%)
4	000-255	Blue (0-100%)
5	000-255	White (0-100%)
6	000-255	Strobe (slow-fast)

48 channel mode:

CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8	CH9	CH10	CH11	CH12
R1 (0-100%)	G1 (0-100%)	B1 (0-100%)	W1 (0-100%)	R2 (0-100%)	G2 (0-100%)	B2 (0-100%)	W2 (0-100%)	R3 (0-100%)	G3 (0-100%)	B3 (0-100%)	W3 (0-100%)

CH13	CH14	CH15	CH16	CH17	CH18	CH19	CH20	CH21	CH22	CH23	CH24
R4 (0-100%)	G4 (0-100%)	B4 (0-100%)	W4 (0-100%)	R5 (0-100%)	G5 (0-100%)	B5 (0-100%)	W5 (0-100%)	R6 (0-100%)	G6 (0-100%)	B6 (0-100%)	W6 (0-100%)

CH25	CH26	CH27	CH28	CH29	CH30	CH31	CH32	CH33	CH34	CH35	CH36
R7 (0-100%)	G7 (0-100%)	B7 (0-100%)	W7 (0-100%)	R8 (0-100%)	G8 (0-100%)	B8 (0-100%)	W8 (0-100%)	R9 (0-100%)	G9 (0-100%)	B9 (0-100%)	W9 (0-100%)

CH37	CH38	CH39	CH40	CH41	CH42	CH43	CH44	CH45	CH46	CH47	CH48
R10 (0-100%)	G10 (0-100%)	B10 (0-100%)	W10 (0-100%)	R11 (0-100%)	G11 (0-100%)	B11 (0-100%)	W11 (0-100%)	R12 (0-100%)	G12 (0-100%)	B12 (0-100%)	W12 (0-100%)

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 $r.000 \sim r.255$. Press the "**ENTER**" button and repeat for green (G), blue (b) and white (u).

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 $Pr01 \sim Pr16$. 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 $FS00 \sim FS99$. Press the "**ENTER**" button to confirm the setting.

$Pr02 \sim Pr16$ - Now use the "**UP**" and "**DOWN**" buttons to select the running speed $SP01 \sim SPFL$. Press the "**ENTER**" button to confirm the setting. Now use the "**UP**" and "**DOWN**" buttons to select the flash speed $FS00 \sim FS99$. Press the "**ENTER**" button to confirm the setting. Finally use the "**UP**" and "**DOWN**" buttons to select the fading time $Fd00 \sim Fd99$. Press the "**ENTER**" button to confirm the setting.

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

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 $n001 \sim n100$. Press the "**ENTER**" button then use the "**UP**" and "**DOWN**" buttons to select the running speed $SP01 \sim SPFL$. Finally press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to select the flash speed $F500 \sim F599$.

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 $Soud$ on the LED display. Now press the "**ENTER**" button to choose Sound mode 1 and use the "**UP**" and "**DOWN**" buttons to choose the required sound sensitivity $S\bar{}.00 \sim S\bar{}.31$. Press the "**ENTER**" button again to choose Sound mode 2 and use the "**UP**" and "**DOWN**" buttons to choose the required sound sensitivity $S\bar{}.00 \sim S\bar{}.31$. Press the "**ENTER**" button again to choose Sound mode 3 and use the "**UP**" and "**DOWN**" buttons to choose the required sound sensitivity $S\_.00 \sim S\_.31$. Finally press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to select the direction $[\ -\ -\ -$ or $-\ -\ -\ ]$. 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.

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.
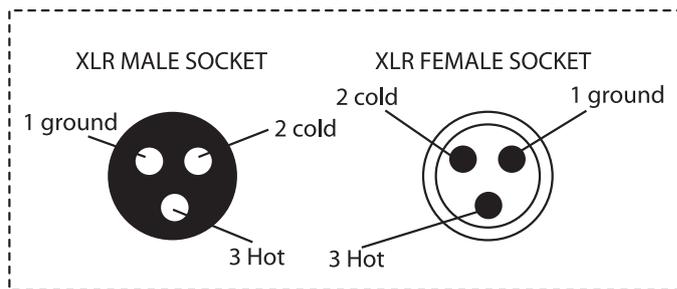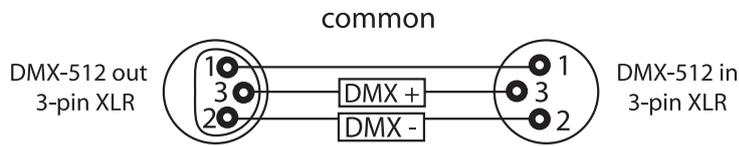Please quote:

    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.

common

DMX-512 out
3-pin XLR

DMX +
DMX -

DMX-512 in
3-pin XLR

XLR MALE SOCKET

1 ground
2 cold
3 Hot

XLR FEMALE SOCKET

2 cold
1 ground
3 Hot

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.
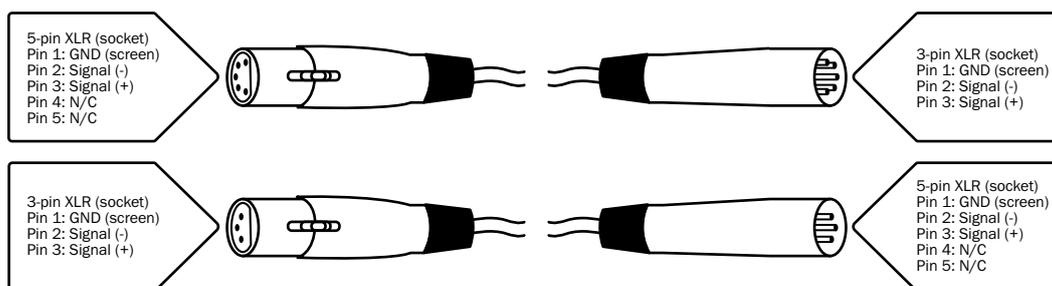
Using a cable terminator will decrease the possibilities of erratic behaviour.
(3-pin - Order ref: CABL9O, 5-pin - Order ref: CABL89)

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.

5-pin XLR (socket)
Pin 1: GND (screen)
Pin 2: Signal (-)
Pin 3: Signal (+)
Pin 4: N/C
Pin 5: N/C

3-pin XLR (socket)
Pin 1: GND (screen)
Pin 2: Signal (-)
Pin 3: Signal (+)

3-pin XLR (socket)
Pin 1: GND (screen)
Pin 2: Signal (-)
Pin 3: Signal (+)

5-pin XLR (socket)
Pin 1: GND (screen)
Pin 2: Signal (-)
Pin 3: Signal (+)
Pin 4: N/C
Pin 5: N/C

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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