megaBAR *System*

Order code: EQLED63

USER MANUAL

WARNING

**FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY
BEFORE YOUR INITIAL START-UP!**

CAUTION!

**Keep this equipment away from rain,
moisture and liquids.**

SAFETY INSTRUCTIONS

Every person involved with the installation, operation & maintenance of this
equipment should:
- Be competent
- Follow the instructions of this manual

**CAUTION! TAKE CARE USING THIS EQUIPMENT!
HIGH VOLTAGE-RISK OF ELECTRIC SHOCK!!**

Before your initial start-up, please make sure that there is no damage caused during
transportation. Should there be any, 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 equipment.
- Do not open the equipment and do not modify the equipment.
- 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 voltage is between 220v/240v.
- 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.
  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 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, discontinue use immediately. Pack the unit
  securely (preferably in the original packing material), and return it to your Prolight 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.
- 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, electric shocks,
lamp failure etc.

Do not endanger your own safety and the safety of others!
Incorrect installation or use can cause serious damage to people and property.

You should find inside the carton the following items**:**

1, Equinox Megabar   2, Power cable   3, User manual

Technical Specifications:

DMX channels: 6, 9 and 15 selectable
Operating modes: 1, Sound Activated
                              2, Built-in programmes
                              3, Auto Run
                              4, DMX
                              5, Slave
28 x 3W Tri-colour LEDs (total) - 7 x RGB tri-colour - per panel
14 built-in programmes
4 Push button LCD digital display
Beam angle: 25°
Mains IEC Power In/Out sockets
3-Pin XLR In/Out sockets for DMX
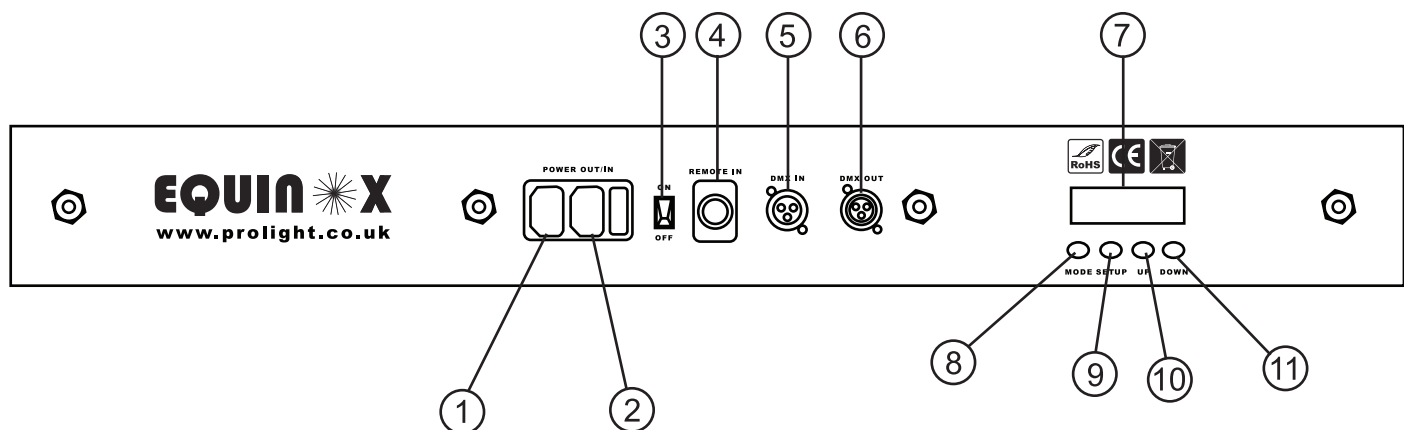5-Pin socket for foot controller (MB-1)
Power consumption: Max.100W
Power supply: 240V
Dimensions: 1030x 100 x 290mm
Weight: 7Kgs
Fuse: F2A

Overview

Identification:

1, Power output   7, LCD digital display
2, Power input   8, Mode button
3, On/Off switch   9, Setup button
4, Remote input   10, Up button
5, DMX In   11, Down button
6, DMX out

Operation modes:

The Equinox Megabar has five modes of operation as follows:

1, Sound active mode
To select the sound active mode, press the **"MODE"** button to show **"SOUND MODE"** in the LCD display window. Now press the **"SETUP"** button and use the **"UP"** and **"DOWN"** buttons to adjust the sound sensitivity level (SENS00-31) and press the **"SET UP"** button again to adjust the frequency level (FQN01-99). Finally press the **"SETUP"** button to confirm your setting.

2, Built-in programmes mode
To access the built-in programme mode, press the **"MODE"** button to show **"01.STATIC"** in the LCD display window. Now press the **"SETUP"** button and use the **"UP"** and **"DOWN"** buttons to choose one of the 14 built-in programmes (01-14) (see table overleaf).

To choose one of the seven colours in the **"STATIC"** mode, press the set **"SETUP"** button and use the **"UP"** and **"DOWN"** buttons to choose one of the following 7 colours:
(1) RGB = all on, (2) BR = purple, (3) B = blue, (4)GB = cyan,
(5) G = green, (6) RG = yellow, (7) R = red, BLA = blackout.

To adjust the speed level in the remaining 13 built-in programmes, press the **SETUP"** button and use the **"UP"** and **"DOWN"** buttons to set the desired speed level (00-99).
To adjust the flash speed press the **"SETUP"** button and use the **"UP"** and **"DOWN"** buttons to set the desired flash speed level (00-99). Finally press the **"SETUP"** button to confirm your setting.

3, Auto Run mode
To select the Auto run mode, press the **"MODE"** button to show **"AUTO RUN"** in the LCD display window. Now press the **"SET UP"** button to adjust the frequency level (FQN01-99). Finally press the **"SETUP"** button to confirm your setting. The unit will now run all 13 built-in programmes one after another.

4, DMX mode
To select the DMX mode, press the **"MODE"** button to show **"DMX MODE"** in the LCD display window. Press the **"SETUP"** button and use the **"UP"** and **"DOWN"** buttons to set a DMX address from 001-512. Now press the **"SETUP"** button again and use the **"UP"** and **"DOWN"** buttons to choose one of the 3 DMX channel settings (6CH, 9CH or 15CH) Finally press the **"SETUP"** button to confirm your setting. (see DMX chart). The starting address for this fixture is 001.

5, Slave mode
To select Slave mode, first link the units together via 3-Pin XLR cable(s), press the **"MODE"** button to show **"SLAVE MODE"** on all of the slave units. Now the slave units will follow in conjunction with the master unit.

NOTE: If the Mega Bar is being used in conjunction with the MB-1 foot controller any number of Mega bars can be controlled via the foot controller by setting all bar systems into "SLAVE" mode.
NOTE: The frequency level (FQN01-99) adjusts how many times the programme repeats before moving to the next programme.

Built-in programme chart

Static Colour	Red-Yellow-Green-Cyan-Blue-Purple-White-Blackout
BLAC-RGB Flash00-99	Flash speed adjustable
Dream	7 colour dreaming
Speed00-99 Flash00-99	Speed & Flash adjustable
Meteor	7 colour flow
Speed00-99 Flash00-99	Speed & Flash adjustable
Fade	7 colour fade
Speed00-99 Flash00-99	Speed & Flash adjustable
Change	7 colour change
Speed00-99 Flash00-99	Speed & Flash adjustable
Flow 1	7 colour chase in 1 direction
Speed00-99 Flash00-99	Speed & Flash adjustable
Flow 2	7 colour chase in 2 directions
Speed00-99 Flash00-99	Speed & Flash adjustable
Flow 3	7 colour relay chase in 1 direction
Speed00-99 Flash00-99	Speed & Flash adjustable
Flow 4	7 colour relay chase in 2 directions
Speed00-99 Flash00-99	Speed & Flash adjustable
Flow 5	7 colour chase from sides to centre
Speed00-99 Flash00-99	Speed & Flash adjustable
Flow 6	7 colour chase from centre to side
Speed00-99 Flash00-99	Speed & Flash adjustable
Flow 7	7 colour chase
Speed00-99 Flash00-99	Speed & Flash adjustable
Flow 8	2 colour chase in 1 direction
Speed00-99 Flash00-99	Speed & Flash adjustable
1. BLAC-RGB 2. BLAC-RGB	Red-Yellow-Green-Cyan-Blue-Purple-White-Blackout
Flow 9	2 colour chase in 2 directions
Speed00-99 Flash00-99	Speed & Flash adjustable
1. BLAC-RGB 2. BLAC-RGB	Red-Yellow-Green-Cyan-Blue-Purple-White-Blackout

6 channel DMX chart (All four LED pods adjusted at the same time)

CH 1		CH 2	CH 3	CH 4	CH 5	CH 6
0-10		Blackout	Blackout	Blackout	Blackout	Blackout
11-21		Master dimmer (0-255)	Flash (0-255)	Red (0-255)	Green (0-255)	Blue (0-255)
22-32	Red	Not used	Flash (0-255)	Not used	Not used	Not used
33-43	Yellow	Not used	Flash (0-255)	Not used	Not used	Not used
44-54	Green	Not used	Flash (0-255)	Not used	Not used	Not used
55-65	Cyan	Not used	Flash (0-255)	Not used	Not used	Not used
66-76	Blue	Not used	Flash (0-255)	Not used	Not used	Not used
77-87	Purple	Not used	Flash (0-255)	Not used	Not used	Not used
89-98	White	Not used	Flash (0-255)	Not used	Not used	Not used
99-109	Dream	Speed (0-255)	Flash (0-255)	Not used	Not used	Not used
110-120	Meteor	Speed (0-255)	Flash (0-255)	Not used	Not used	Not used
121-131	Fade	Speed (0-255)	Flash (0-255)	Not used	Not used	Not used
132-142	Change	Speed (0-255)	Flash (0-255)	Not used	Not used	Not used
143-153	Flow 1	Speed (0-255)	Flash (0-255)	Not used	Not used	Not used
154-164	Flow 2	Speed (0-255)	Flash (0-255)	Not used	Not used	Not used
165-175	Flow 3	Speed (0-255)	Flash (0-255)	Not used	Not used	Not used
176-186	Flow 4	Speed (0-255)	Flash (0-255)	Not used	Not used	Not used
187-197	Flow 5	Speed (0-255)	Flash (0-255)	Not used	Not used	Not used
198-208	Flow 6	Speed (0-255)	Flash (0-255)	Not used	Not used	Not used
209-219	Flow 7	Speed (0-255)	Flash (0-255)	Not used	Not used	Not used
220-230	Flow 8	Speed (0-255)	Flash (0-255)	Colour select	Not used	Not used
231-241	Flow 9	Speed (0-255)	Flash (0-255)	Colour select	Not used	Not used
242-255	Sound	Sens (0-255)	Flash (0-255)	Not used	Not used	Not used

9 channel mode (Adjusts the LED pods in pairs)

CH 1	CH 2	CH 3	CH 4	CH 5	CH 6	CH 7	CH 8	CH 9
11-21	Master dimmer (0-255)	Flash (0-255)	Red pods 3+4	Green pods 3+4	Blue pods 3+4	Red pods 1+2	Green pods 1+2	Blue pods 1+2

15 channel mode (Adjusts each LED pod individually)

CH 1	CH 2	CH 3	CH 4	CH 5	CH 6	CH 7	CH 8	CH 9	CH 10	CH 11	CH 12	CH 13	CH 14	CH 15
11-21	Master dimmer (0-255)	Flash (0-255)	Red pod 4	Green pod 4	Blue pod 4	Red pod 3	Green pod 3	Blue pod 3	Red pod 2	Green pod 2	Blue pod 2	Red pod 1	Green pod 1	Blue pod 1

DMX Control 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.

Setting the DMX address
The DMX mode enables the use of a universal DMX controller. Each fixture requires a "start address" from 1- 511. 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):
• The Equinox Megabar 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 (figure 1).

Figure 1

Further DMX cables can be purchased from all good sound and lighting suppliers or Prolight 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 figures 2 & 3 when making your own cables. Do not connect the cable's shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR's outer casing. Grounding the shield could cause a short circuit and erratic behaviour.
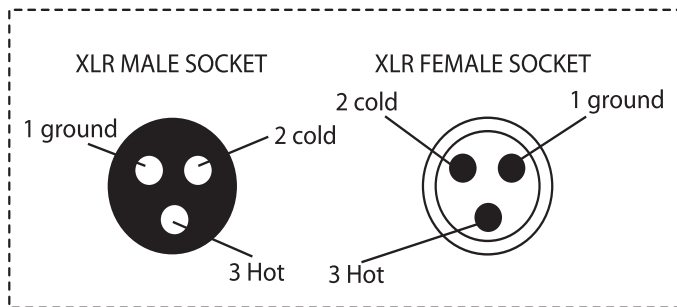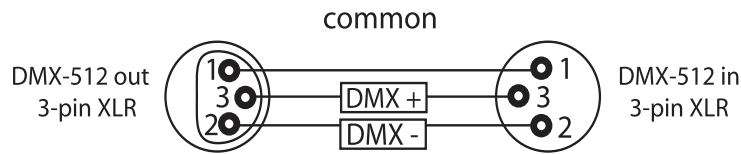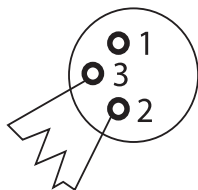
common

DMX-512 out
3-pin XLR

1
3
2

DMX +
DMX -

1
3
2

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

FIGURE 3   FIGURE 2

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.
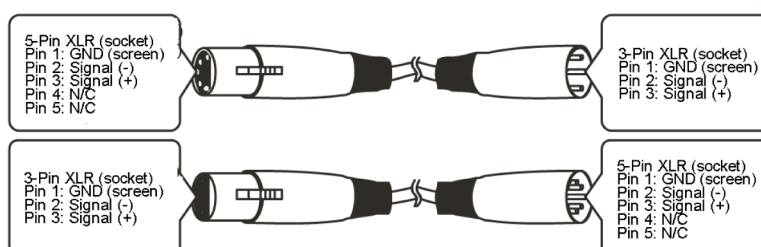
1
3
2

Termination reduces signal transmission problems and interferance. 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.
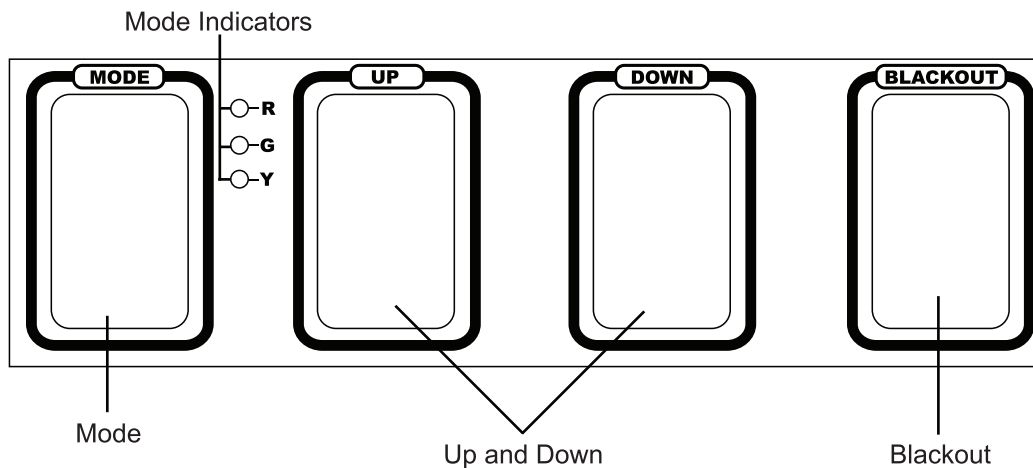
Using a cable terminator (part number CABL90) will decrease the possibilities of erratic behaviour.
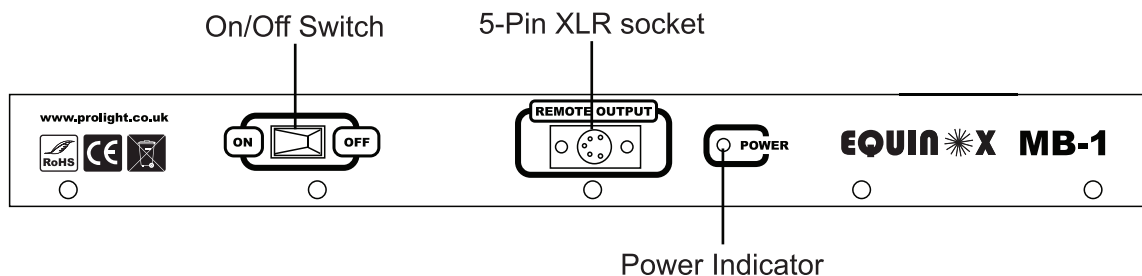
5-Pin XLR DMX Connectors:

 • 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 Chart 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

Overview (top)

Mode Indicators

| MODE | UP | DOWN | BLACKOUT |

R
G
Y

Mode   Up and Down   Blackout

Overview (back)

On/Off Switch   5-Pin XLR socket

www.prolight.co.uk

RoHS   CE

ON   OFF   REMOTE OUTPUT   POWER   EQUIN✳X MB-1

Power Indicator

Operations

This foot controller is made specially for the Megabar system. All of the built-in programmes can be accessed via the 4 foot switches. To control the Megabar using the foot switch controller, you must first set the bar systems into **"SLAVE"** mode.

Static colour selection mode:
To activate this mode, press the **"MODE"** foot switch so the **"R"** LED indicator is lit, now use the **"UP"** and **"DOWN"** foot switches to select the desired colour. To blackout the unit, press the **"BLACKOUT"** foot switch and press it again to return it to the previous setting.

Sound active mode:
To activate this mode, press the **"MODE"** foot switch so the **"G"** LED indicator is lit, now the unit will work to the music. If you require to blackout the unit at any point, press the **"BLACKOUT"** foot switch and press it again to return it to the previous setting.

Built-in programmes:
To activate this mode, press the **"MODE"** foot switch so the **"Y"** LED indicator is lit, now use the **"UP"** and **"DOWN"** foot switches to select the desired built-in programme. To blackout the unit, press the **"BLACKOUT"** foot switch and press it again to return it to the previous setting.

Full on mode:
To set the unit to Full On you can press and hold down for 3 seconds any of the four foot switches, this will give Full ON **"WHITE"**. To return to the previous setting press the **"MODE"** foot switch. When Full On is activated you can still use the **"BLACKOUT"** foot switch.

Notes:

Notes: