EQUINOX

microBAR

Order code: EQLED60

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.

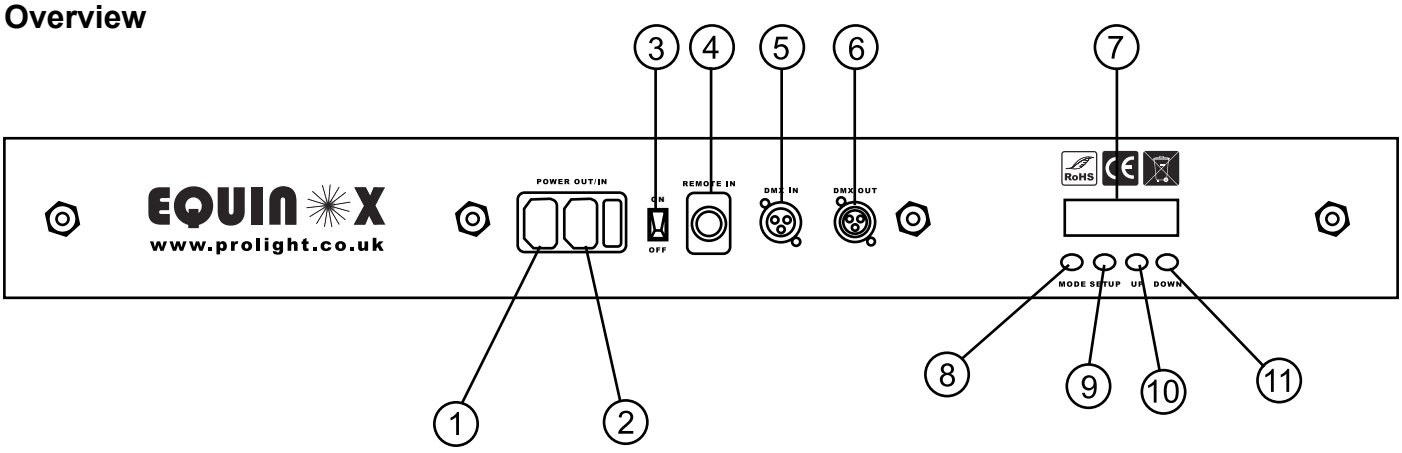
You should find inside the carton the following items**:**

1, Equinox Microbar 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
192 Ultra Bright 10mm LEDs (R: 36, G: 72, B: 84)
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
Optional foot controller: MB-1 Foot Switch (EQLED61)
Power consumption: 35W
Power supply: 240V - 50Hz
Dimensions: 800 x 54 x 280mm
Weight: 5Kgs
Fuse: 0.5A

Overview



Identification:

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

Operation modes:

The Equinox Microbar 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 Micro Bar is being used in conjunction with the optional MB-1 foot controller any number of Micro bars can be controlled via the foot controller by setting all Micro Bars to 6 channel DMX 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 BLAC-RGB Flash00-99	Red-Yellow-Green-Cyan-Blue-Purple-White-Blackout Flash speed adjustable
Dream Speed00-99 Flash00-99	7 colour dreaming Speed & Flash adjustable
Meteor Speed00-99 Flash00-99	7 colour flow Speed & Flash adjustable
Fade Speed00-99 Flash00-99	7 colour fade Speed & Flash adjustable
Change Speed00-99 Flash00-99	7 colour change Speed & Flash adjustable
Flow 1 Speed00-99 Flash00-99	7 colour chase in 1 direction Speed & Flash adjustable
Flow 2 Speed00-99 Flash00-99	7 colour chase in 2 directions Speed & Flash adjustable
Flow 3 Speed00-99 Flash00-99	7 colour relay chase in 1 direction Speed & Flash adjustable
Flow 4 Speed00-99 Flash00-99	7 colour relay chase in 2 directions Speed & Flash adjustable
Flow 5 Speed00-99 Flash00-99	7 colour chase from sides to centre Speed & Flash adjustable
Flow 6 Speed00-99 Flash00-99	7 colour chase from centre to side Speed & Flash adjustable
Flow 7 Speed00-99 Flash00-99	7 colour chase Speed & Flash adjustable
Flow 8 Speed00-99 Flash00-99	2 colour chase in 1 direction Speed & Flash adjustable
1. BLAC-RGB 2. BLAC-RGB Flow 9	Red-Yellow-Green-Cyan-Blue-Purple-White-Blackout 2 colour chase in 2 directions
Speed00-99 Flash00-99 1. BLAC-RGB 2. BLAC-RGB	Speed & Flash adjustable 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)	Master dimmer (0-255)	Red (0-255)	Green (0-255)	Green (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 Microbar 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).

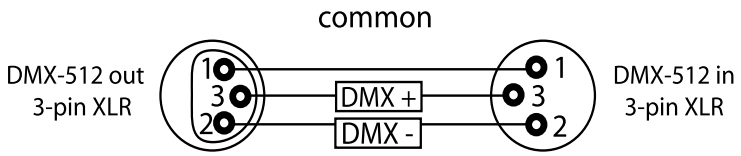
Figure 1

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.



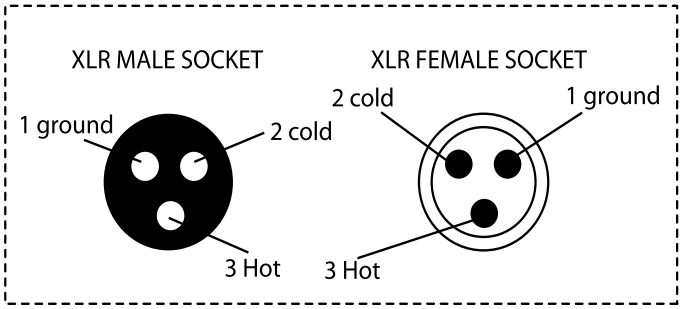


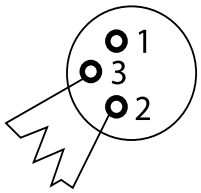
FIGURE 3

XLR Pin Configuration
Pin 1 = Ground
Pin 2 = Negative
Pin 3 = Postive

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.

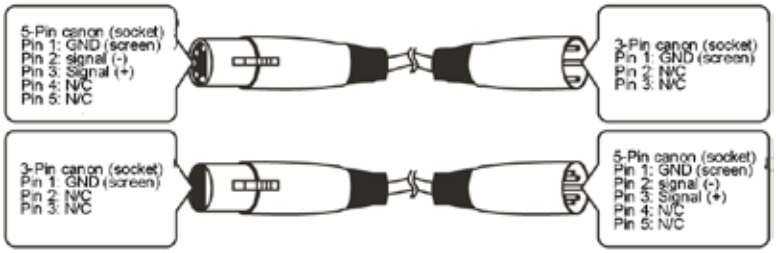


Termination reduces signal transmission problems and interferance. it is always advisable to connect a DMX terminal, (resistance 120 Ohm 1/4 W) between pin 2 (DMX-) and pin 3 (DMX+) of the last fixture.

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.



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