

EQUINOX

Dragonfly Quad

User Manual V1.4



Order code: EQLED101

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 voltage is between 100~240V, 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.

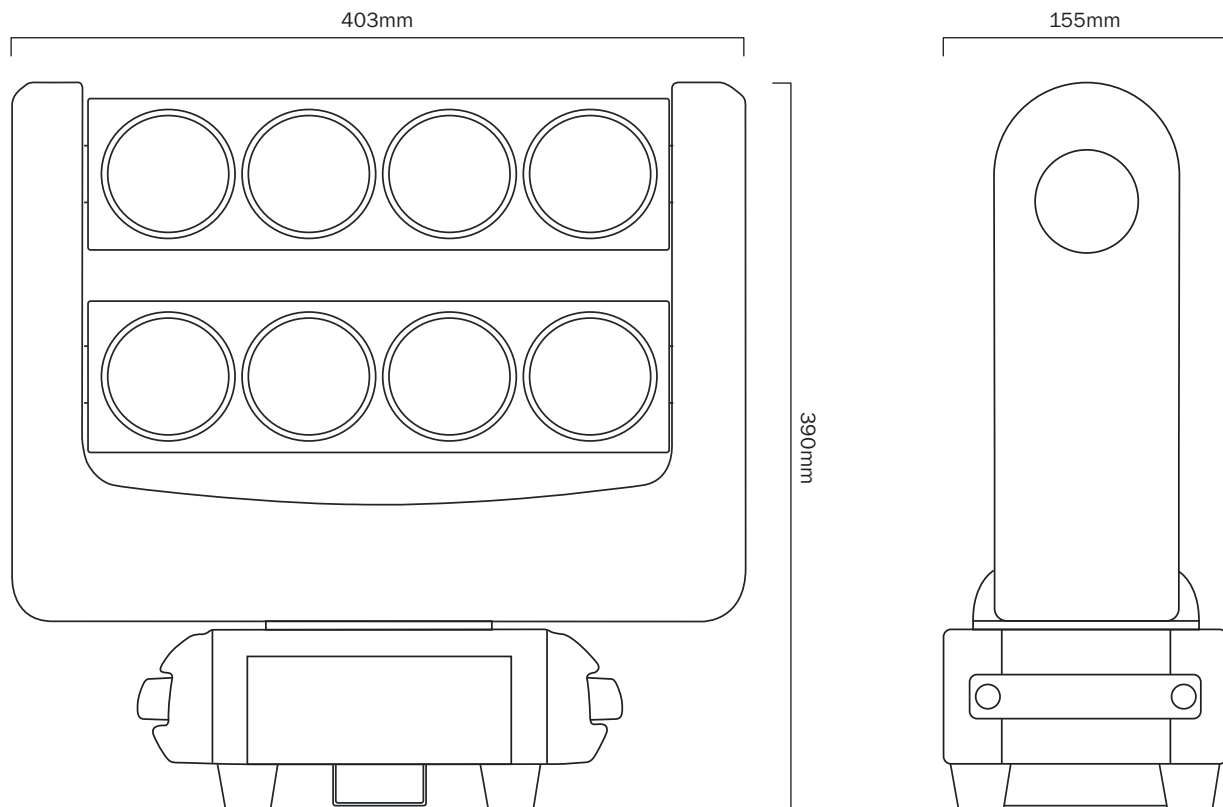
Dragonfly Quad

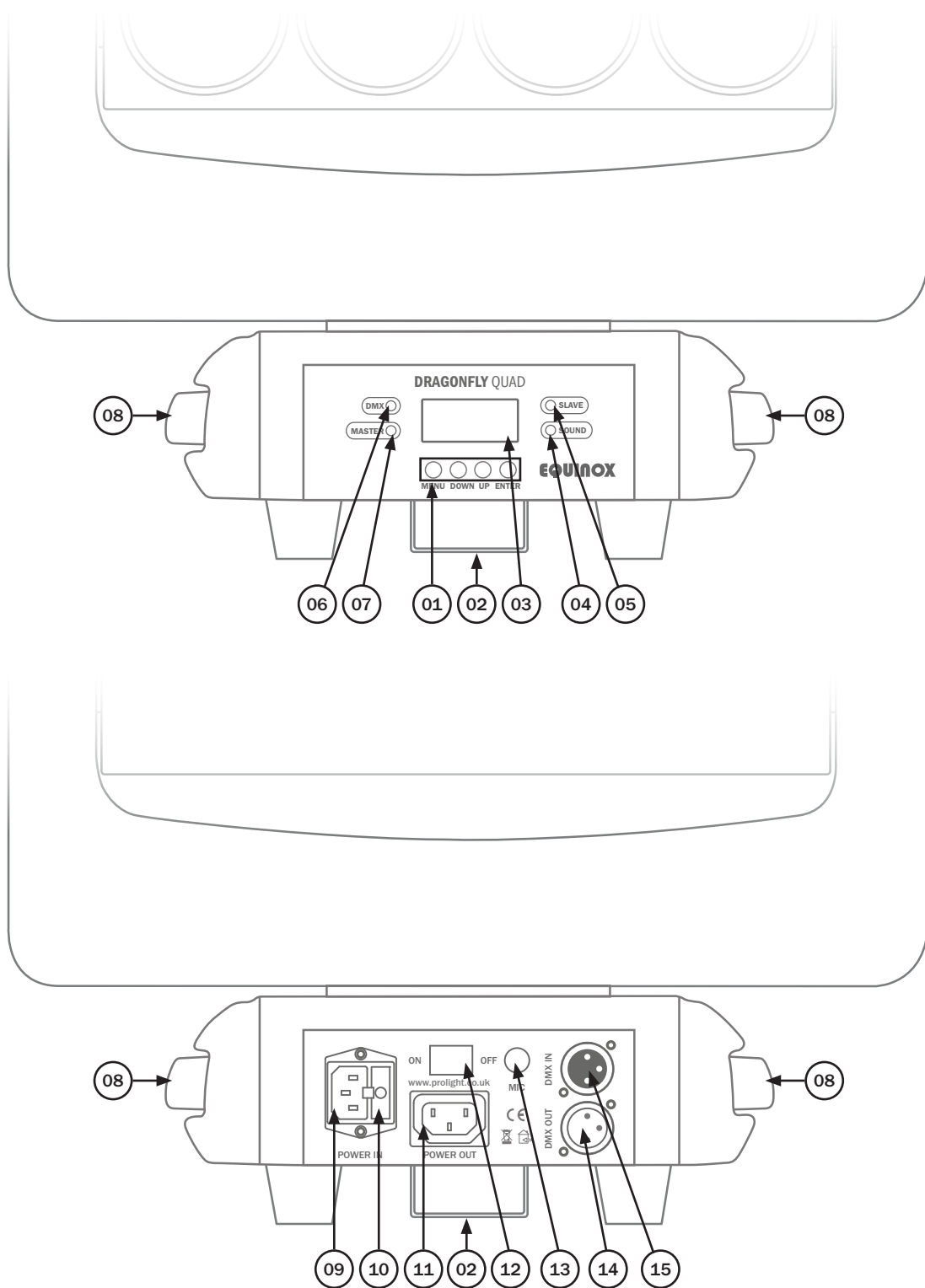
The Dragonfly Quad is a dynamic multi-beam effect featuring two sweeping LED bars, each loaded with four individually controllable 12W quad-colour LEDs. The eight vibrant coloured narrow beams project across the room making the fixture ideal for a multitude of environments from stages and clubs to mobile DJs. This agile fixture creates amazing lighting shows when used in multiples but also makes an outstanding centrepiece.

- 8 x 12W quad-colour LEDs
- Beam angle: 4.5°
- Pixel mapping capabilities
- DMX channels: 11 or 37 selectable
- Auto, sound active and master/slave modes plus built-in programs
- 0 - 100% dimming and variable strobe
- Pan: 630°, Tilt: 360° continuous rotation
- Quick release omega clamp included
- 4 push button menu with LCD display
- IEC power input/output
- 3-Pin XLR input/output



Specifications	
Power consumption	120W
Power supply	100~240V, 50/60Hz
Fuse	F5A 250V
Dimensions	390 x 403 x 155mm
Weight	6.3kg
Order code	EQLED101





- 01 - Function buttons
- 02 - Omega clamp receiver
- 03 - LCD display
- 04 - Sound LED
- 05 - Slave LED

- 06 - DMX input LED
- 07 - Master LED
- 08 - Handles
- 09 - IEC power input
- 10 - Fuse F5A 250V

- 11 - IEC power output
- 12 - Power switch
- 13 - Microphone
- 14 - 3-Pin XLR DMX input
- 15 - 3-Pin XLR DMX output

In the box: **1 x fixture,**
1 x omega clamp,
1 x power cable
& 1 x user manual

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 “**DMX Address**” on the LCD display. Now press the “**ENTER**” button and use the “**UP**” and “**DOWN**” buttons to set the required DMX address. Press the “**ENTER**” button to confirm the setting.

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

To access the DMX channel mode, press the “**MENU**” button on the front of the unit to show “**Channel Mode**” on the LCD display. Now press the “**ENTER**” button and use the “**UP**” and “**DOWN**” buttons to choose one of the 11 or 37 DMX channel modes. Press the “**ENTER**” button to confirm the setting.

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

11 channel mode:

Channel	Value	Function
CH1	000-255	Pan Movement (0°-630°)
CH2	000-127	Tilt 1 Movement (0°-360°)
	128-191	Fast-slow continuous reverse rotation
	192-255	Slow-fast continuous rotation
CH3	000-127	Tilt 2 Movement (0°-360°)
	128-191	Fast-slow continuous reverse rotation
	192-255	Slow-fast continuous rotation
CH4	000-255	Master dimmer (0-100%)
CH5	000-009	No function
	010 -255	Strobe (slow-fast)
CH6	000-255	Red (0-100% dimming)
CH7	000-255	Green (0-100% dimming)
CH8	000-255	Blue (0-100% dimming)
CH9	000-255	White (0-100% dimming)
CH10	000-007	No function
	008-017	Program 1
	018-027	Program 2
	028-037	Program 3
	038-047	Program 4
	048-057	Program 5

CH10	058-067	Program 6	
	068-077	Program 7	
	078-087	Program 8	
	088-097	Program 9	
	098-107	Program 10	
	108-117	Program 11	
	118-127	Program 12	
	128-136	Program 13	
	137-146	Program 14	
	147-156	Program 15	
	157-166	Program 16	
	167-176	Program 17	
	177-186	Program 18	
	187-196	Program 19	
	197-206	Program 20	
	207-216	Program 21	
	217-226	Program 22	
	227-236	Program 23	
	237-246	Program 24	
	247-255	Program 25	
	CH11	0-255	Program speed (fast-slow)

36 channel mode:

Channel	Value	Function
CH1	000-255	Pan Movement (0°-630°)
CH2	000-127	Tilt 1 Movement (0°-360°)
	128-191	Fast-slow continuous reverse rotation
	192-255	Slow-fast continuous rotation
CH3	000-127	Tilt 2 Movement (0°-360°)
	128-191	Fast-slow continuous reverse rotation
	192-255	Slow-fast continuous rotation
CH4	000-255	Master dimmer (0-100%)
CH5	000-009	No function
	010-255	Strobe (slow-fast)
CH6	000-255	LED 1 Red (0-100% dimming)
CH7	000-255	LED 1 Green (0-100% dimming)
CH8	000-255	LED 1 Blue (0-100% dimming)
CH9	000-255	LED 1 White (0-100% dimming)
CH10	000-255	LED 2 Red (0-100% dimming)
CH11	000-255	LED 2 Green (0-100% dimming)
CH12	000-255	LED 2 Blue (0-100% dimming)
CH13	000-255	LED 2 White (0-100% dimming)
CH14	000-255	LED 3 Red (0-100% dimming)
CH15	000-255	LED 3 Green (0-100% dimming)

CH16	000-255	LED 3 Blue (0-100% dimming)
CH17	000-255	LED 3 White (0-100% dimming)
CH18	000-255	LED 4 Red (0-100% dimming)
CH19	000-255	LED 4 Green (0-100% dimming)
CH20	000-255	LED 4 Blue (0-100% dimming)
CH21	000-255	LED 4 White (0-100% dimming)
CH22	000-255	LED 5 Red (0-100% dimming)
CH23	000-255	LED 5 Green (0-100% dimming)
CH24	000-255	LED 5 Blue (0-100% dimming)
CH25	000-255	LED 5 White (0-100% dimming)
CH26	000-255	LED 6 Red (0-100% dimming)
CH27	000-255	LED 6 Green (0-100% dimming)
CH28	000-255	LED 6 Blue (0-100% dimming)
CH29	000-255	LED 6 White (0-100% dimming)
CH30	000-255	LED 7 Red (0-100% dimming)
CH31	000-255	LED 7 Green (0-100% dimming)
CH32	000-255	LED 7 Blue (0-100% dimming)
CH33	000-255	LED 7 White (0-100% dimming)
CH34	000-255	LED 8 Red (0-100% dimming)
CH35	000-255	LED 8 Green (0-100% dimming)
CH36	000-255	LED 8 Blue (0-100% dimming)
CH37	000-255	LED 8 White (0-100% dimming)

Show mode:

To access the show modes, press the **"MENU"** button on the front of the unit to show **"Show Mode"** on the LCD display. Now press the **"ENTER"** button and use the **"UP"** and **"DOWN"** buttons to choose the show you require from either **"Auto Run"** or **"Sound"**. Press the **"ENTER"** button to confirm the setting.

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

Master/slave mode:

To set the master unit, press the **"MENU"** button on the front of the master unit to show **"Slave Mode"** on the LCD display. Now press the **"ENTER"** button and use the **"UP"** and **"DOWN"** buttons to choose **"Master"**. Press the **"ENTER"** button to confirm the setting. Then select your desired program (sound active, DMX or one of the built-in programs).

To set the other units in slave mode, press the **"MENU"** button on the front of the unit to show **"Slave Mode"** on the LCD display. Now press the **"ENTER"** button and use the **"UP"** and **"DOWN"** buttons to choose either **"Slave1"** or **"Slave2"**. Press the **"ENTER"** button to confirm the setting. The unit will now run in sequence with the master unit. 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.

Blackout mode:

Blackout mode ensures when the fixture loses DMX signal it will blackout. To set the blackout mode, press the “**MENU**” button on the front of the master unit to show “**Blackout**” on the LCD display. Now press the “**ENTER**” button and use the “**UP**” and “**DOWN**” buttons to choose “**YES**” or “**NO**”. Press the “**ENTER**” button to confirm the setting.

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

Sound active mode:

To access the sound active mode, press the “**MENU**” button on the front of the unit to show “**Sound State**” on the LCD display. Now press the “**ENTER**” button and use the “**UP**” and “**DOWN**” buttons to set the sound mode “**ON**” or “**OFF**”. Press the “**ENTER**” button to confirm the setting.

To adjust the sound sensitivity, press the “**MENU**” button on the rear of the unit to show “**Sound Sense**” on the LCD display. Now press the “**ENTER**” button and use the “**UP**” and “**DOWN**” buttons to set the sound sensitivity between 0-100. Press the “**ENTER**” button to confirm the setting.

Value: 0 - 100 (0 = low sensitivity, 100 = high sensitivity)

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

Pan/Tilt restricted movements:

To access the sound active mode, press the “**MENU**” button on the front of the unit to show “**Pati Mode**” on the LCD display. Now press the “**ENTER**” button and use the “**UP**” and “**DOWN**” buttons to choose between the following:

“**PanTilt Angle 1**” - Tilt movement angle 210°, ideal for fixtures situated on the ground.

“**PanTilt Angle 2**” - Tilt movement angle 90°, ideal for fixtures mounted on the ceiling or similar.

“**PanTilt Angle 3**” - Tilt movement angle 90° (60° above horizon, 30° below horizon),
Pan movement 160°, Beams projected in audiences direction.

“**PanTilt Angle 4**” - Tilt movement angle 90° (75° front, 15 back),
Pan movement 160° ideal for fixtures mounted on the ceiling or similar.

Press the “**ENTER**” button to confirm the setting.

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

Pan Inverse:

To enable/disable pan inverse, press the “**MENU**” button on the front of the unit to show “**Pan Inverse**” on the LCD display. Now press the “**ENTER**” button and use the “**UP**” and “**DOWN**” buttons to choose “**YES**” or “**NO**”. Press the “**ENTER**” button to confirm the setting.

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

Auto test:

To run the auto test function, press the “**MENU**” button on the front of the unit to show “**Auto Test**” on the LCD display. Now press the “**ENTER**” button and the fixture will run its auto test.

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

Fixture time:

To display the total hours the fixture has been used for, press the “**MENU**” button on the front of the unit to show “**Fixture Time**” on the LCD display. Now press the “**ENTER**” button to show the fixtures hours.

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

Firmware version:

To display the firmware version the fixture is running, press the “**MENU**” button on the front of the unit to show “**Firmware Version**” on the LCD display. Now press the “**ENTER**” button to show the what version the fixture is running.

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

Factory reset:

To reset the fixture to factory settings, press the “**MENU**” button on the front of the unit to show “**Defaults**” on the LCD display. Now press the “**ENTER**” button and use the “**UP**” and “**DOWN**” buttons to choose “**YES**” or “**NO**”. Press the “**ENTER**” button to confirm the setting (this will reset all settings to factory defaults).

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

Fixture position reset:

To reset the fixtures positions, press the “**MENU**” button on the front of the unit to show “**System reset**” on the LCD display. Now press the “**ENTER**” button to perform the reset.

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

Pan/tilt offset:

To adjust the pan/tilt in the home position, press the “**MENU**” button on the front of the unit once, now press and hold the “**ENTER**” button until “**Pan Offset**” is shown on the LCD display. Use the “**UP**” and “**DOWN**” buttons to select “**Pan Offset**”, “**Tilt 1 Offset**” (**Top Bar**) or “**Tilt 2 Offset**” (**Bottom Bar**). Press the “**ENTER**” button and use the “**UP**” and “**DOWN**” buttons again to adjust the home position between “**-127**” and “**+127**”. Press the “**ENTER**” button to confirm the setting.

To exit out of the pan/tilt offset, press and hold 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 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 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

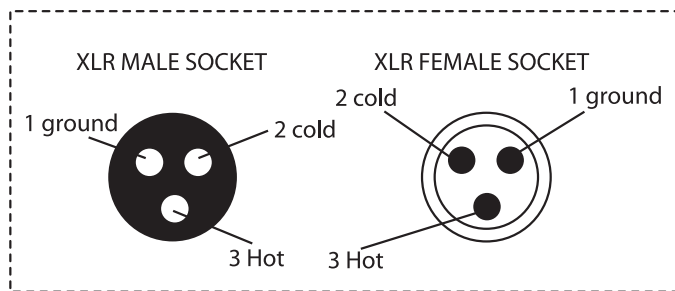
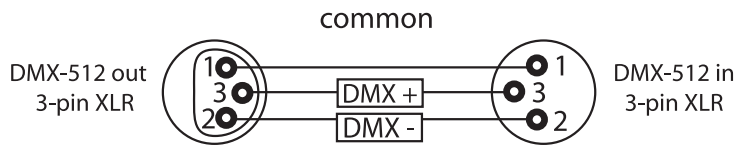
CABL11 – 5m

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.



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.

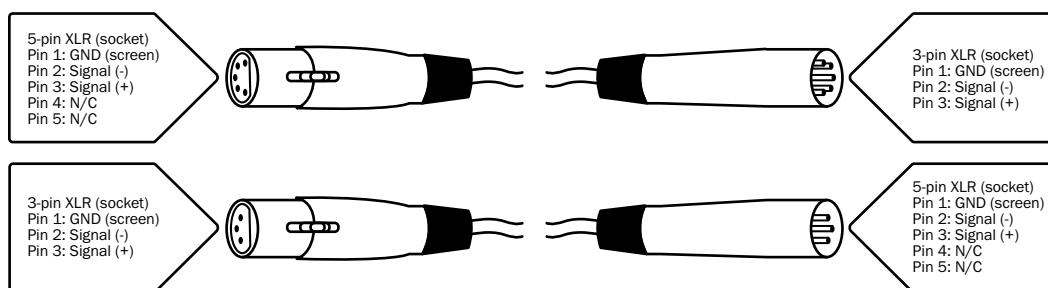
Using a cable terminator will decrease the possibilities of erratic behaviour.

(3-pin - Order ref: CABL90, 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.





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.



EQUINOX