

EQUINOX

Fusion Saber

User Manual



Order code: EQLED070

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 voltage is between 110~240V, 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.
- 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.

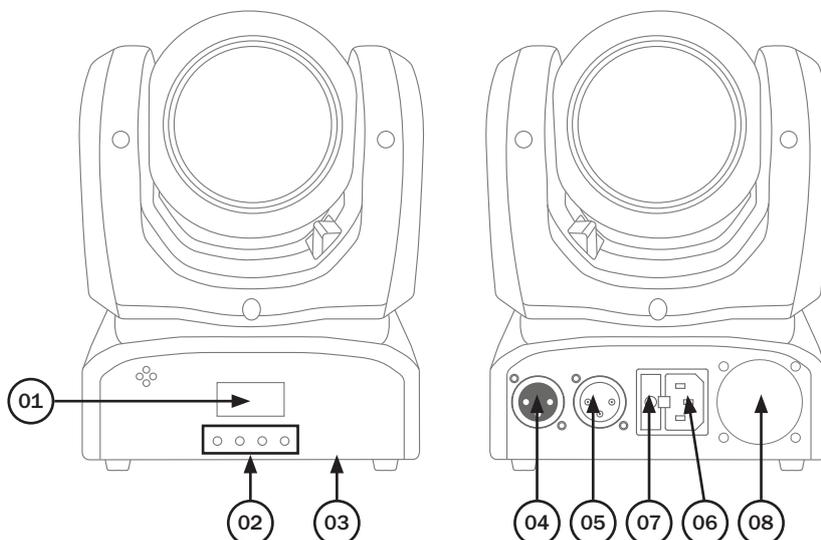
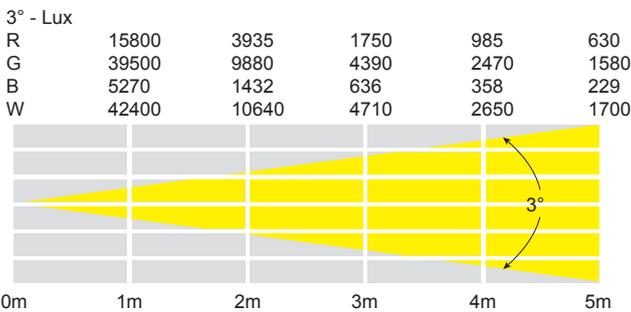
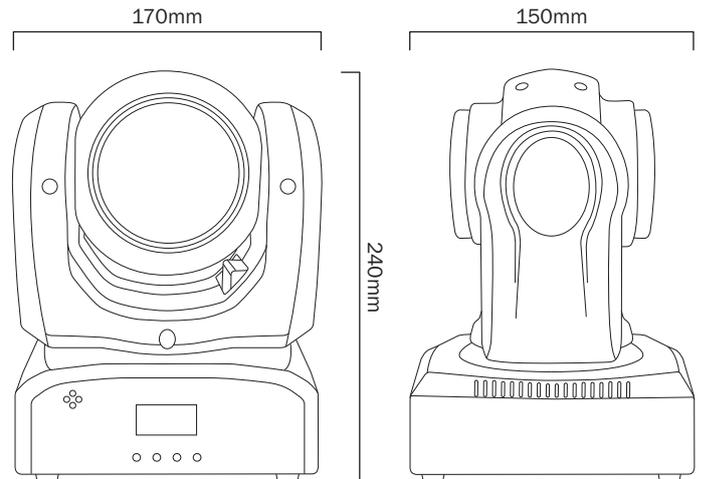
Fusion Saber

This compact moving head from Equinox is loaded with 24W of LED output power. Each face of the head has a 12W CREE quad-colour (RGBW) LED engine to create superb beam effects. Due to its unique twin face design the fixture creates continuous tumbling effects which look superb in haze or fog.

- 2 x 12W CREE quad-colour LEDs (RGBW)
- Beam angle: 3°
- DMX channels: 9 or 17 selectable
- Auto, sound active and master/slave modes
- Pan: 540°, Tilt: 360° continuous rotation
- 0-100% dimming and variable strobe
- IEC in socket
- 3-pin XLR in/out sockets
- Fan cooled
- Supplied with hanging bracket

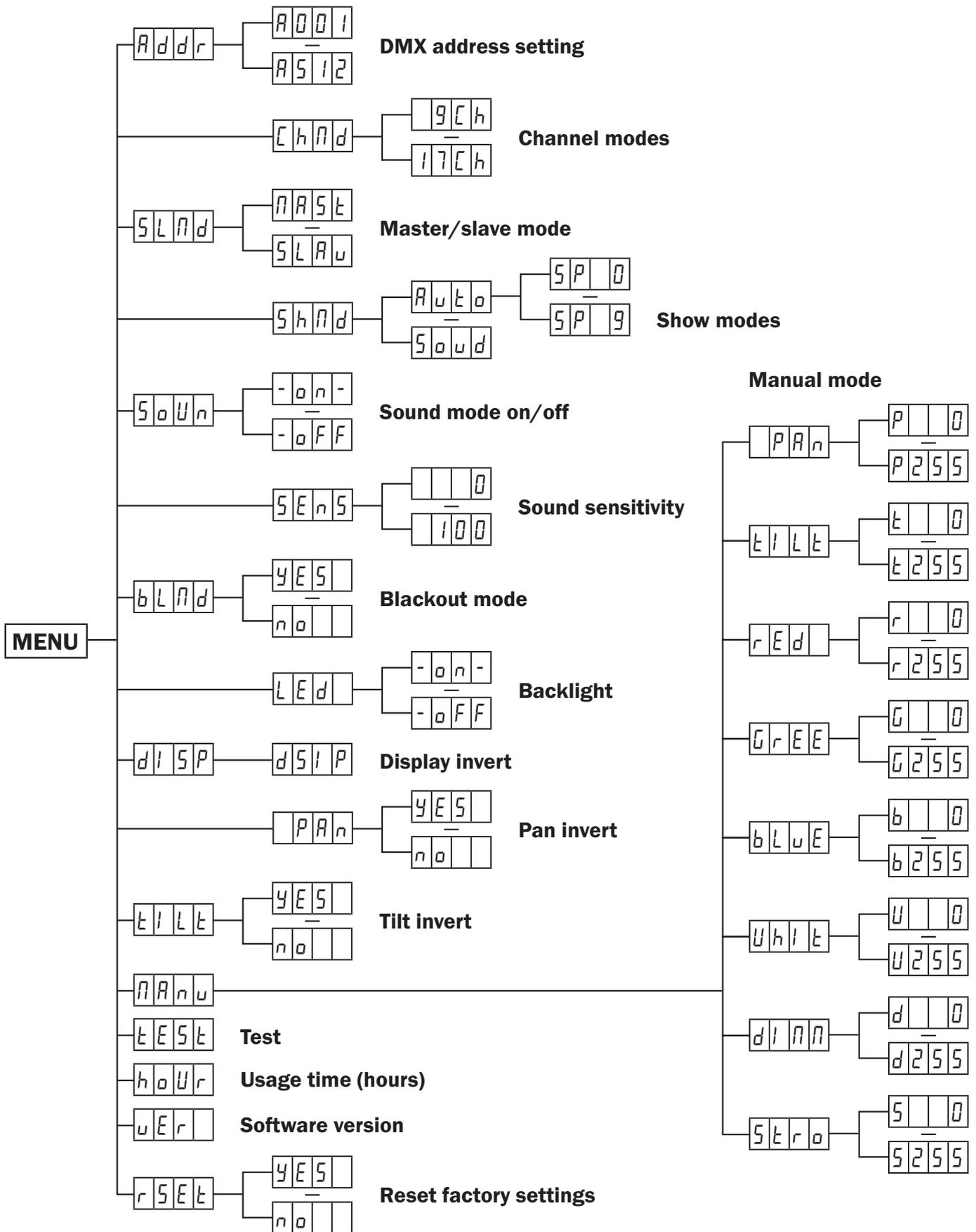


Specifications	
Power consumption	30W
Power supply	110~240V, 50/60Hz
Fuse	F2A 250V
Dimensions	240 x 170 x 150mm
Weight	2.58kg
Order code	EQLED070



- 01 - LED display
- 02 - Function buttons
- 03 - Microphone
- 04 - DMX input socket
- 05 - DMX output socket
- 06 - IEC power input socket
- 07 - Fuse F1A 250V
- 08 - Fan

In the box: **1 x fixture,**
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 *Addr* on the LED 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.

DMX channel mode:

To access the DMX channel mode, press the “**MENU**” button on the front of the unit to show *Chan* on the LED display. Now press the “**ENTER**” button and use the “**UP**” and “**DOWN**” buttons to choose one of the 9 or 17 DMX channel modes. Press the “**ENTER**” button to confirm the setting.

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

9 channel mode:

Channel	Value	Function
CH1	000-255	Pan 0-540°
CH2	000-127	Rotation 360°
	128-191	Continuous rotation (fast-slow)
	192-255	Reversed continuous rotation (slow-fast)
CH3	000-255	Master dimmer (0-100%)
CH4	000-255	Red (0-100%)
CH5	000-255	Green (0-100%)
CH6	000-255	Blue (0-100%)
CH7	000-255	White (0-100%)
CH8	000-015	No function
	016-131	Strobe (slow-fast)
	132-139	No function
	140-181	Strobe (fast close, slow open)
	182-189	No function
	190-231	Strobe (slow close, fast open)
	232-239	No function
	240-247	Strobe (random effects)
CH9	248-255	No function
	000-069	No function
	070-079	Blackout during movement
	080-089	No blackout during movement
	090-199	No function
	200-209	Reset
	210-249	No function
	250-255	Sound mode

17 channel mode:

Channel	Value	Function	
CH1	000-255	Pan 0-540°	
CH2	000-255	Pan fine	
CH3	000-127	Rotation 360°	
	128-191	Continuous rotation (fast-slow)	
	192-255	Reversed continuous rotation (slow-fast)	
CH4	000-255	Tilt fine	
CH5	000-069	No function	
	070-079	Blackout during movement	
	080-089	No blackout during movement	
	090-199	No function	
	200-209	Reset	
CH6	210-249	No function	
	250-255	Sound mode	
	000-255	Master dimmer (0-100%)	
	CH7	000-015	No function
		016-131	Strobe (slow-fast)
132-139		No function	
140-181		Strobe (fast close, slow open)	
182-189		No function	
190-231		Strobe (slow close, fast open)	
232-239		No function	
240-247		Strobe (random effects)	
248-255	No function		
CH8	000-255	Red LED 1 (0-100%)	
CH9	000-255	Green LED 1 (0-100%)	
CH10	000-255	Blue LED 1 (0-100%)	
CH11	000-255	White LED 1 (0-100%)	
CH12	000-255	Red LED 2 (0-100%)	
CH13	000-255	Green LED 2 (0-100%)	
CH14	000-255	Blue LED 2 (0-100%)	
CH15	000-255	White LED 2 (0-100%)	
CH16	000-007	No function	
	008-127	Static colour	
	128-191	Colour change	
	192-255	Colour fade	
CH17	000-255	CH16 speed (slow-fast)	

Master/slave mode:

To set the master unit, press the “MENU” button on the front of the master unit to show *SLNd* on the LED display. Now press the “ENTER” button and use the “UP” and “DOWN” buttons to choose *MASt*. Press the “ENTER” button to confirm the setting. Then select your desired program (sound active, DMX or auto).

To set the other units in slave mode, press the “MENU” button on the front of the unit to show *SLNd* on the LED display. Now press the “ENTER” button and use the “UP” and “DOWN” buttons to choose either *SLAv*. 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.

Show mode:

To access the show modes, press the “MENU” button on the front of the unit to show *ShNd* on the LED display. Now press the “ENTER” button and use the “UP” and “DOWN” buttons to choose between *SoUd* (Sound active) or *AutO* (Auto). Press the “ENTER” button to confirm the setting.

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

Sound/sound sensitivity:

To turn the sound mode on or off, press the “MENU” button on the front of the unit to show *SoUd* on the LED display. Now press the “ENTER” button and use the “UP” and “DOWN” buttons to choose between *oN* or *oFF*. Press the “ENTER” button to confirm the setting.

To adjust the sound sensitivity, press the “MENU” button on the front of the unit to show *SEnS* on the LED display. Now press the “ENTER” button and use the “UP” and “DOWN” buttons to choose between *0 ~ 100*. Value: 0 - 100 (0 = low, 100 = high)

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

Manual mode:

To access manual mode, press the “MENU” button on the front of the unit to show *MANU* on the LED display. Now press the “ENTER” button and use the “UP” and “DOWN” buttons to choose between *PAAn* (Pan), *tI Lt* (Tilt), *rEd* (Red 0-100%), *GrEE* (Green 0-100%), *bLUe* (Blue 0-100%), *WhIt* (White 0-100%), *dI nN* (Master dimmer 0-100%), or *Stro* (Strobe). Press the “ENTER” button to confirm the setting and use the “UP” and “DOWN” buttons to choose between *0 ~ 255*.

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

Pan/Tilt offset:

To access the pan/tilt sub menu, press the “MENU” button on the front of the unit and then press and hold the “ENTER” button show *PAAn* on the LED display. Use the “UP” and “DOWN” buttons to choose between *PAAn* (Pan) and *tI Lt* (Tilt). Now press the “ENTER” button and use the “UP” and “DOWN” buttons to adjust the value between *- 127 ~ 127*. Press the “ENTER” button to confirm the setting.

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 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

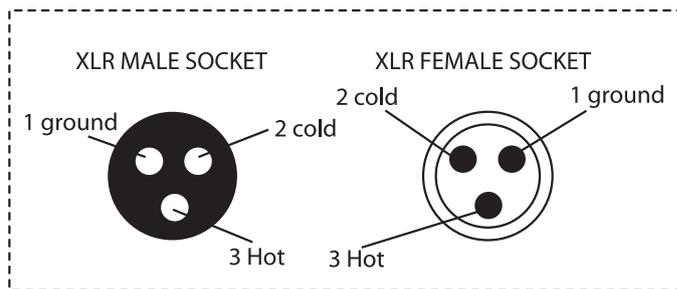
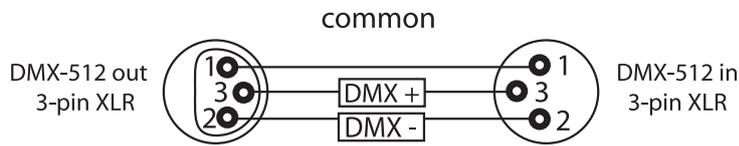
CABL11 – 5m

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.

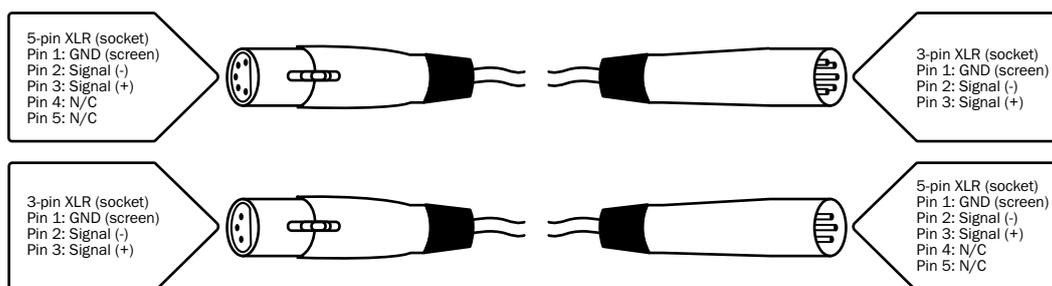
Using a cable terminator will decrease the possibilities of erratic behaviour.

(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