EQUINOX

MidiPar Tri Plus

User Manual

Order codes:
MidiPar Tri Plus - EQLED132

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.
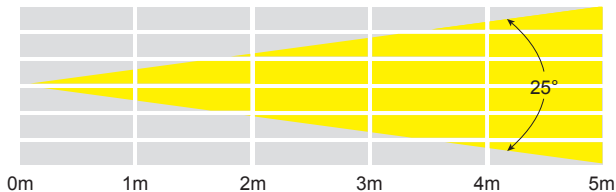
MidiPar Tri Plus

This extremely powerful fixture feature 1.5W tri-colour LEDs (RGB) and produce a varied range of effects including colour change and fade effects along with eye candy effects created with its 6 segments, all controllable in auto and sound active modes along with DMX. A dual bracket is included allowing the fixture to be hung or stood on the floor.
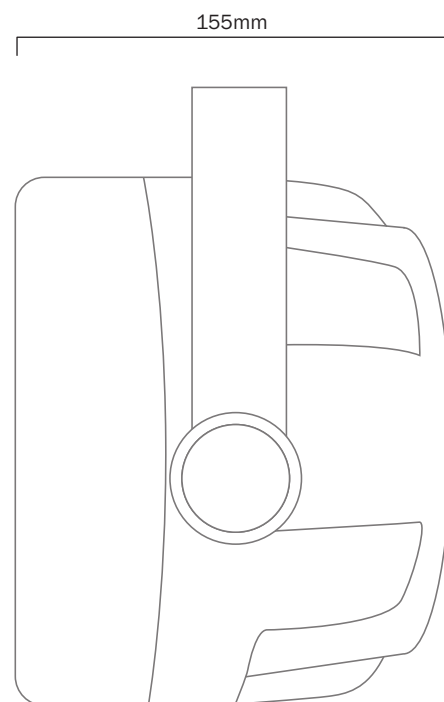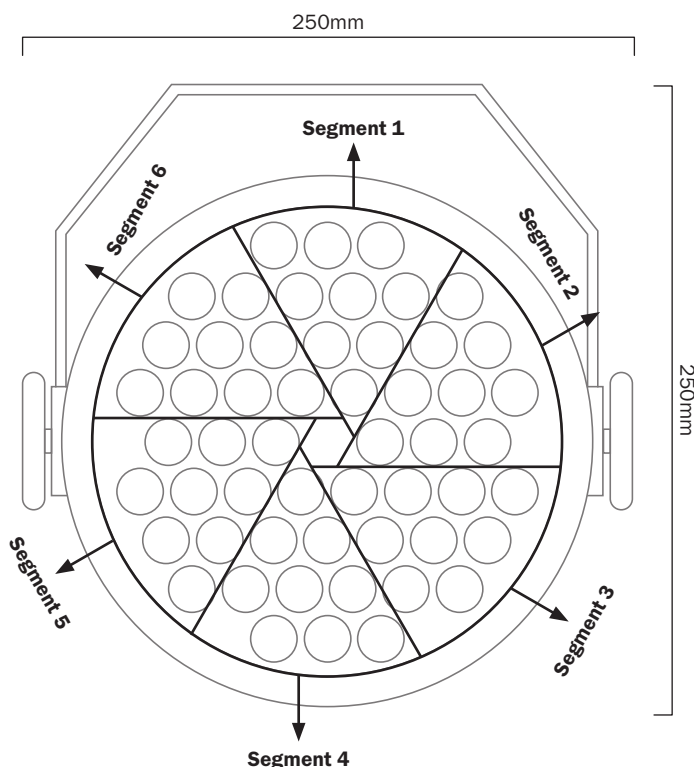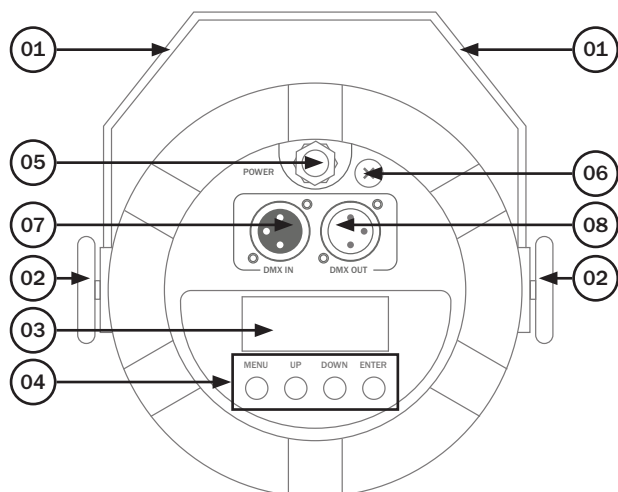
- 54 x 1.5W tri-colour LEDs (RGB)
- Beam angle: 25°
- 1250 Lux @ 2m (full on)
- DMX channels: 4/8/11 or 23 selectable
- Auto, sound active and master/slave modes
- 0-100% dimming and variable strobe
- 4 push button menu with LED display
- Captive power connection
- 3-Pin XLR input/output
- Fan cooled

25° - Lux

FULL ON	5000	1250	556	313	200
R	1580	395	176	98.8	63.2
G	3000	751	334	188	120
B	256	64	28.4	16	10.2

25°

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

Specifications	
Power consumption	90W
Power supply	100~240V, 50/60Hz
Fuse	F3A 250V
Dimensions	250 x 250 x 155mm
Weight	1.26kg
Order codes	EQLED132

250mm

155mm

Segment 1
Segment 6
Segment 2
Segment 5
Segment 3
Segment 4

250mm

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01 - Hanging bracket
02 - Hanging bracket
    adjustment knob
03 - LED display
04 - Function buttons

05 - Captive power connection
06 - Fuse: F3A 250V
07 - 3-Pin XLR DMX input
08 - 3-Pin XLR DMX output

In the box: **1 x fixture & 1 x user manual**

Operating instructions

DMX mode:

To select the DMX address, press the "**MENU**" button on the rear of the unit to show $d.001$ on the LED display. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to select the DMX address between 001-512. To exit out of any of the above options, press the "**MENU**" button.

DMX channel 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 channel mode, press the "**MENU**" button on the rear of the unit to show $d.001$ on the LED display. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to select the desired DMX channel between $d-04, d-08, d-11$ or $d-23$. Now press the "**ENTER**" button to confirm the setting. To exit out of any of the above options, press the "**MENU**" button.

4 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%)

8 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	Strobe (slow-fast)
6	000-015	No function
	016-023	Red
	024-031	Green
	032-039	Blue
	040-047	Yellow
	048-055	Cyan
	056-063	Magenta
	064-071	S1: Red, S2: Green, S3: Blue, S4: Red, S5: Green, S6: Blue
	072-079	S1: Yellow, S2: Cyan, S3: Magenta, S4: Yellow, S5: Cyan, S6: Magenta
	080-087	S1: Red, S2: Red, S3: Green, S4: Green, S5: Blue, S6: Blue
	088-095	S1: Red, S2: Green, S3: Blue, S4: Yellow, S5: Cyan, S6: Magenta
	096-103	S1: Red, S2: Red, S3: Green, S4: Red, S5: Red, S6: Green
	104-111	S1: Green, S2: Green, S3: Blue, S4: Green, S5: Green, S6: Blue
	112-119	S1: Blue, S2: Blue, S3: Red, S4: Blue, S5: Blue, S6: Red
	120-127	S1: Red, S2: Blackout, S3: Green, S4: Blackout, S5: Blue, S6: Blackout
	128-189	Colour change (slow-fast)
	190-249	Colour fade (slow-fast)
	250-255	Sound active
Please note: S1 = Segment 1, please see page 3 for segment locations		
7	000-003	No function
	004-007	Auto show 1
	008-011	Auto show 2
	012-251	...
	252-255	Auto show 64
Please note: There is a different auto show every 4 values.		
8	000-255	Segment macro speed (slow-fast)

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11 channel mode:

Channel	Value	Function	
1	000-255	Master dimmer (0-100%)	
2	000-031	Segment 1	Blackout
	032-063		Red
	064-095		Green
	096-127		Blue
	128-159		Yellow
	160-191		Cyan
	192-223		Magenta
	224-255		White (RGB)
3	000-255	Segment 2 (Values same as Segment 1)	
4	000-255	Segment 3 (Values same as Segment 1)	
5	000-255	Segment 4 (Values same as Segment 1)	
6	000-255	Segment 5 (Values same as Segment 1)	
7	000-255	Segment 6 (Values same as Segment 1)	
8	000-255	Strobe (slow-fast)	
9	000-015	No function	
	016-023	Red	
	024-031	Green	
	032-039	Blue	
	040-047	Yellow	
	048-055	Cyan	
	056-063	Magenta	
	064-071	S1: Red, S2: Green, S3: Blue, S4: Red, S5: Green, S6: Blue	
	072-079	S1: Yellow, S2: Cyan, S3: Magenta, S4: Yellow, S5: Cyan, S6: Magenta	
	080-087	S1: Red, S2: Red, S3: Green, S4: Green, S5: Blue, S6: Blue	
	088-095	S1: Red, S2: Green, S3: Blue, S4: Yellow, S5: Cyan, S6: Magenta	
	096-103	S1: Red, S2: Red, S3: Green, S4: Red, S5: Red, S6: Green	
	104-111	S1: Green, S2: Green, S3: Blue, S4: Green, S5: Green, S6: Blue	
	112-119	S1: Blue, S2: Blue, S3: Red, S4: Blue, S5: Blue, S6: Red	
	120-127	S1: Red, S2: Blackout, S3: Green, S4: Blackout, S5: Blue, S6: Blackout	
	128-189	Colour change (slow-fast)	
	190-249	Colour fade (slow-fast)	
	250-255	Sound active	
Please note: S1 = Segment 1, please see page 3 for segment locations			
10	000-003	No function	
	004-007	Auto show 1	
	008-011	Auto show 2	
	012-251	...	
	252-255	Auto show 64	
Please note: There is a different auto show every 4 values.			
11	000-255	Segment macro speed (slow-fast)	

23 channel mode:

Channel	Value	Function
1	000-255	Master dimmer (0-100%)
2	000-010	No function
2	011-255	Segment 1 Red (0-100%)
3	000-010	No function
3	011-255	Segment 1 Green (0-100%)
4	000-010	No function
4	011-255	Segment 1 Blue (0-100%)
5	000-010	No function
5	011-255	Segment 2 Red (0-100%)
6	000-010	No function
6	011-255	Segment 2 Green (0-100%)
7	000-010	No function
7	011-255	Segment 2 Blue (0-100%)
8	000-010	No function
8	011-255	Segment 3 Red (0-100%)
9	000-010	No function
9	011-255	Segment 3 Green (0-100%)
10	000-010	No function
10	011-255	Segment 3 Blue (0-100%)
11	000-010	No function
11	011-255	Segment 4 Red (0-100%)
12	000-010	No function
12	011-255	Segment 4 Green (0-100%)
13	000-010	No function
13	011-255	Segment 4 Blue (0-100%)
14	000-010	No function
14	011-255	Segment 5 Red (0-100%)
15	000-010	No function
15	011-255	Segment 5 Green (0-100%)
16	000-010	No function
16	011-255	Segment 5 Blue (0-100%)
17	000-010	No function
17	011-255	Segment 6 Red (0-100%)
18	000-010	No function
18	011-255	Segment 6 Green (0-100%)
19	000-010	No function
19	011-255	Segment 6 Blue (0-100%)
20	000-255	Strobe (slow-fast)

Channel	Value	Function
21	000-015	No function
21	016-127	Colour macros
21	128-189	Colour change
21	190-249	Colour fade
21	250-255	Sound active
22	000-003	No function
22	004-007	Auto show 1
22	008-011	Auto show 2
22	012-251	...
22	252-255	Auto show 64
Please note: There is a different auto show every 4 values.		
23	000-255	Segment macro speed (slow-fast)

Master/slave mode:

To set the master unit select your desired program (colour macro, colour change, colour fade, sound active, strobe, auto or DMX).

To set the other units in slave mode, press the "**MENU**" button on the front of the unit to show $SLAu$ on the LED display. 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.

Colour macro mode:

To access static colour mode, press the "**MENU**" button on the rear of the unit to show $A\,1.0\,1$ on the LED display. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to choose between $A\,1.0\,1 \sim A\,1.15$. Press the "**ENTER**" button to confirm the setting.

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

Colour change mode:

To access colour change mode, press the "**MENU**" button on the rear of the unit to show $A2.0\,1$ on the LED display. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to adjust the speed between $A2.0\,1 \sim A2.32$. Press the "**ENTER**" button to confirm the setting.

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

Colour fade mode:

To access the colour fade mode, press the "**MENU**" button on the rear of the unit to show $A3.0\,1$ on the LED display. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to adjust the speed between $A3.0\,1 \sim A3.32$. Press the "**ENTER**" button to confirm the setting.

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

Sound mode:

To access the sound active mode, press the "**MENU**" button on the rear of the unit to show $A4.0\,1$ on the LED display. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to adjust the sound sensitivity between $A4.0\,1 \sim A4.09$. Press the "**ENTER**" button to confirm the setting.

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

Sound strobe mode:

To access the strobe modes, press the "**MENU**" button on the rear of the unit to show $A5.0\,1$ on the LED display. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to adjust the sound sensitivity between $A5.0\,1 \sim A5.09$. Press the "**ENTER**" button to confirm the setting.

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

Auto modes:

To access the auto modes, press the "**MENU**" button on the rear of the unit to show $A6.0\,1$ on the LED display. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to select the desired auto program between $A6.0\,1 \sim A6.64$. Press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to adjust the program speed between $A6.0\,1 \sim A6.32$. 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 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.
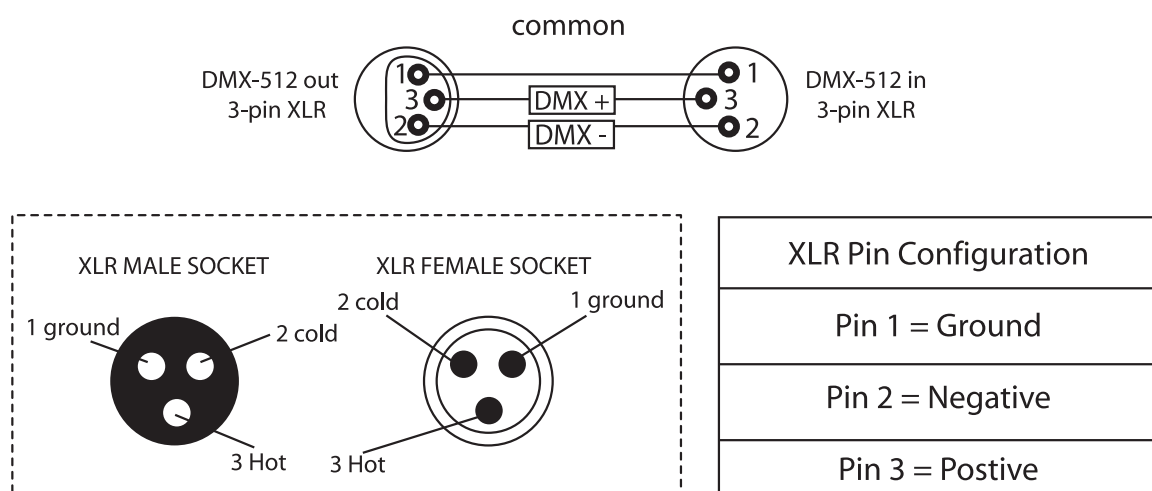Please quote:
  CABL10 – 2m
  CABL11 – 5m
  CABL12 – 10m

Also remember that DMX cable must be daisy chained and cannot be split.

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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.
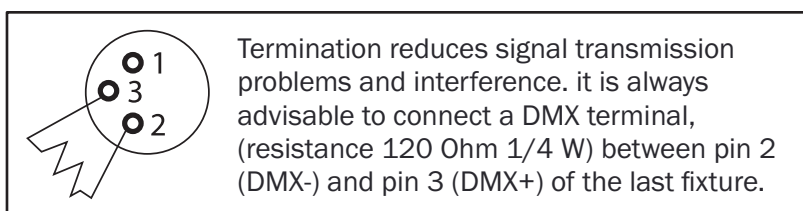
common

DMX-512 out
3-pin XLR

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

3 Hot

1 ground

3 Hot

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

Special note:

Line termination:

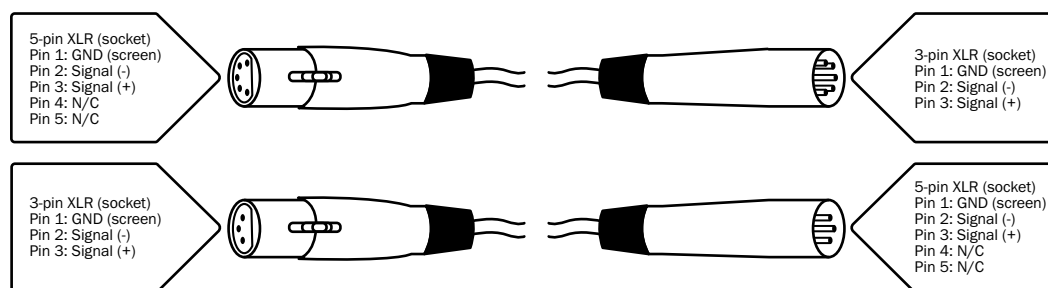When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behaviour.

Using a cable terminator will decrease the possibilities of erratic behaviour.
(3-pin - Order ref: CABL90, 5-pin - Order ref: CABL89)

1
3
2

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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