

LEDJ

HEX Par 7 Exterior Fixture

User Manual



Order code: LEDJ228

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.
- Do not expose to flammable sources 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 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.

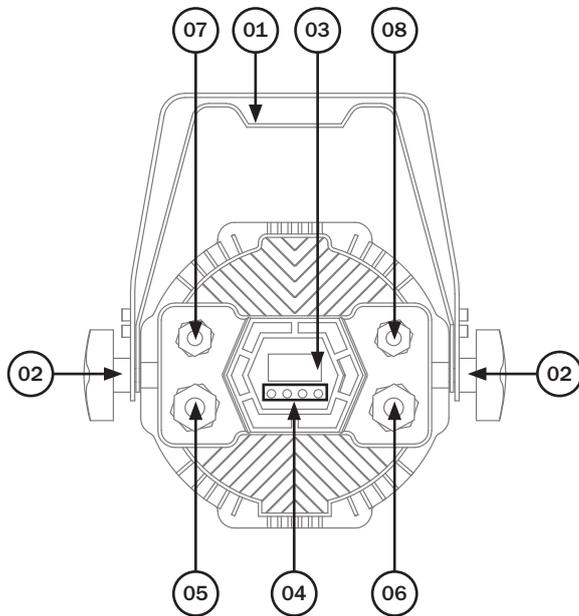
HEX Par 7



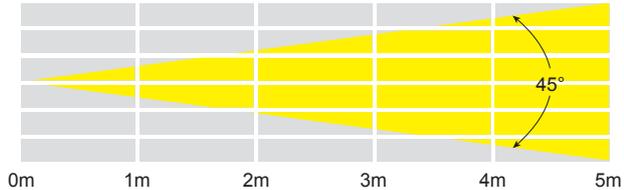
The exterior HEX Par 7 features 7 x 10W six-colour LEDs, giving smooth colour mixing from rich saturated hues to subtle pastel shades, controlled via a 4 push button LED menu which allows for easy access to the modes including DMX, auto and master/slave.

This fixture can be used for interior and exterior applications (IP65 rated) making it suitable for both architectural and stage lighting.

- 7 x 10W six-colour LEDs (RGBWAUV)
- Beam angle: 45°
- 1900 Lux @ 2m (full on)
- 2.2kHz refresh rate
- DMX channels: 2/3/3/4/4/5/6 or 9 selectable
- Auto and master/slave modes
- 0 - 100% dimming and variable strobe
- 4 push button menu with LED display
- IP rated power input/output
- IP rated 3-Pin DMX input/output



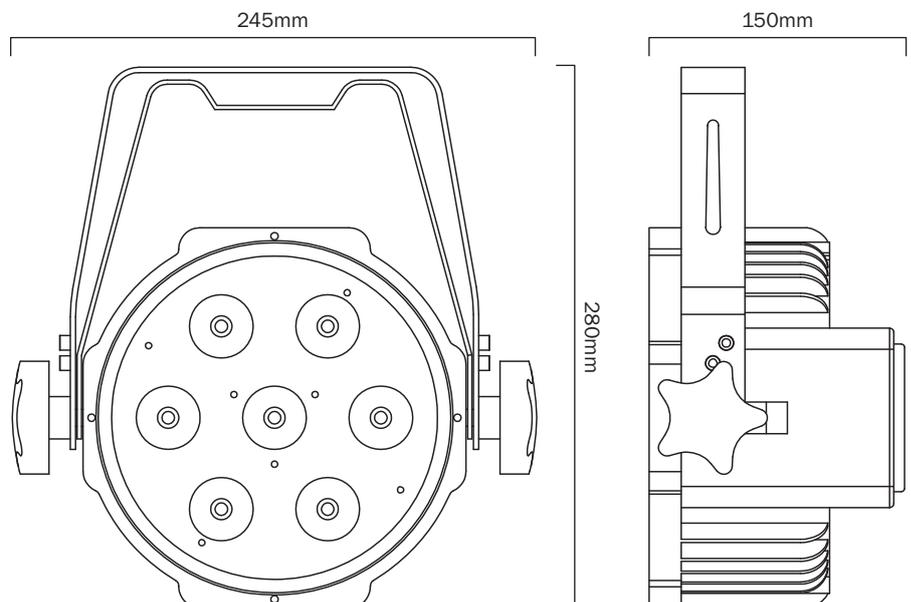
45° - Lux	1900	844	475	304	
FULL ON	7600	1900	844	475	304
R	1380	345	153	86	55
G	2960	740	329	185	118
B	920	230	102	57	36
W	3200	800	356	200	128
A	1680	420	187	105	67
UV	496	124	55	31	19

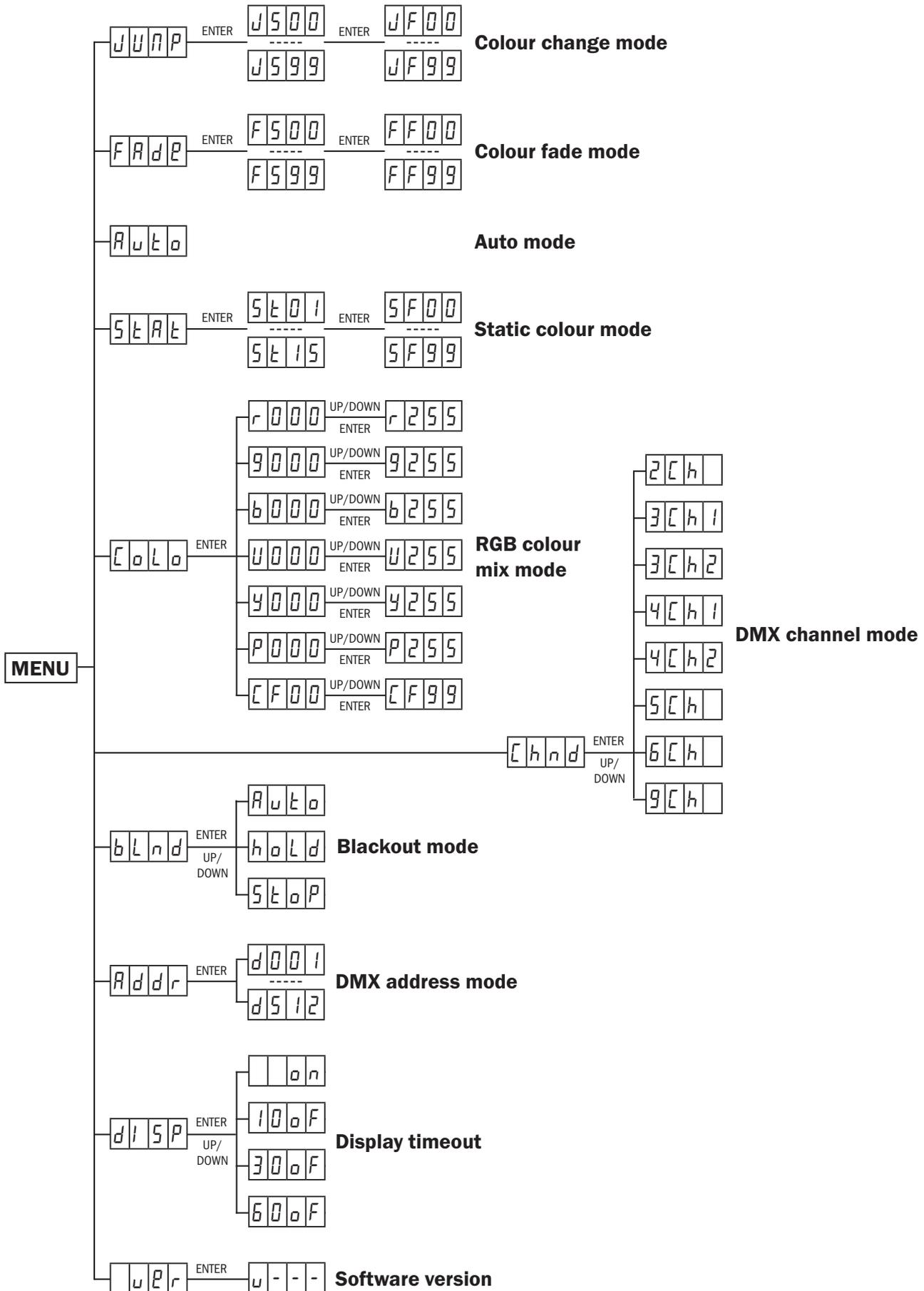


In the box:
1 x fixture, 1 x power cable & 1 x user manual

- 01 - Hanging bracket
- 02 - Hanging bracket adjustment knobs
- 03 - LED display
- 04 - Function buttons
- 05 - IP rated power input
- 06 - IP rated power output
- 07 - IP rated DMX input
- 08 - IP rated DMX output

Specifications	HEX Par 7
Power consumption	70W
Power supply	100~240V, 50/60Hz
Dimensions	280 x 245 x 150mm
Weight	3.8kg
Order code	LEDJ228





DMX mode:

To select the DMX address, press the “MENU” button on the rear of the unit to show *Addr* 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 *Chnd* on the LED display. Now press the “ENTER” button and use the “UP” and “DOWN” buttons to select between 2/3/3/4/4/5/6 or 9 channel modes.

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

2 channel mode:

Channel	Value	Function
1	000-255	Master dimmer (0-100%)
2	000-016	Red
	017-033	Green
	034-050	Blue
	051-067	White
	068-084	Amber
	085-101	UV
	102-118	Yellow (R: 255, G: 200, A: 255)
	119-135	Cyan (G: 255, B: 255)
	136-152	Lavender (R: 170, B: 210)
	153-169	Bright green (G: 255, A: 180)
	170-186	Magenta (R: 255, B: 90, UV: 255)
	187-203	Turquoise (G: 255, B: 180, UV: 255)
	204-220	Orange (R: 200, A: 200)
	221-237	Cool white (R: 70, G: 190, B: 255, A: 200)
238-255	Warm white (R: 230, G: 255, B: 255, A: 255, W: 255)	

3 channel mode 1:

Channel	Value	Function
1	000-255	Master dimmer (0-100%)
2	000-009	No function
	010-255	Strobe (slow-fast)
3	000-005	Blackout
	006-010	Red
	011-015	Green
	016-020	Blue
	021-025	White
	026-030	Amber
	031-035	UV
	036-040	Yellow (R: 255, G: 200, A: 255)
	041-045	Cyan (G: 255, B: 255)
	046-050	Lavender (R: 170, B: 210)
	051-055	Bright green (G: 255, A: 180)
	056-060	Magenta (R: 255, B: 90, UV: 255)
	061-065	Turquoise (G: 255, B: 180, UV: 255)
	066-070	Orange (R: 200, A: 200)
	071-075	Cool white (R: 70, G: 190, B: 255, A: 200)
	076-080	Warm white (R: 230, G: 255, B: 255, A: 255, W: 255)
081-170	Colour change (slow-fast)	
171-255	Colour fade (slow-fast)	

3 channel mode 2:

Channel	Value	Function
1	000-255	Red (0-100%)
2	000-255	Green (0-100%)
3	000-255	Blue (0-100%)

4 channel mode 1:

Channel	Value	Function
1	000-255	Red (0-100%)
2	000-255	Green (0-100%)
3	000-255	Blue (0-100%)
4	000-255	White (0-100%)

4 channel mode 2:

Channel	Value	Function
1	000-255	Red (0-100%)
2	000-255	Green (0-100%)
3	000-255	Blue (0-100%)
4	000-255	Amber (0-100%)

5 channel mode:

Channel	Value	Function
1	000-255	Red (0-100%)
2	000-255	Green (0-100%)
3	000-255	Blue (0-100%)
4	000-255	White (0-100%)
5	000-255	Amber (0-100%)

6 channel mode:

Channel	Value	Function
1	000-255	Red (0-100%)
2	000-255	Green (0-100%)
3	000-255	Blue (0-100%)
4	000-255	White (0-100%)
5	000-255	Amber (0-100%)
6	000-255	UV (0-100%)

9 channel mode:

Channel	Value	Function
1	000-255	Master dimmer (0-100%)
2	000-009	No function
	010-255	Strobe (slow-fast)
3	000-255	Red (0-100%)
4	000-255	Green (0-100%)
5	000-255	Blue (0-100%)
6	000-255	White (0-100%)
7	000-255	Amber (0-100%)
8	000-255	UV (0-100%)
9	000-005	Blackout
	006-010	Red
	011-015	Green
	016-020	Blue
	021-025	White
	026-030	Amber
	031-035	UV
	036-040	Yellow (R: 255, G: 200, A: 255)
	041-045	Cyan (G: 255, B: 255)
	046-050	Lavender (R: 170, B: 210)
	051-055	Bright green (G: 255, A: 180)
	056-060	Magenta (R: 255, B: 90, UV: 255)
	061-065	Turquoise (G: 255, B: 180, UV: 255)
	066-070	Orange (R: 200, A: 200)
	071-075	Cool white (R: 70, G: 190, B: 255, A: 200)
	076-080	Warm white (R: 230, G: 255, B: 255, A: 255, W: 255)
081-170	Colour change (slow-fast)	
171-255	Colour fade (slow-fast)	

Colour change mode:

To access colour change mode press “MENU” until the display shows *JUNP* on the LED display. Press “ENTER” to and use the “UP” and “DOWN” buttons to adjust the speed between *J500 ~ J599*. Press “ENTER” to and use the “UP” and “DOWN” buttons to adjust the flash speed between *JF00 ~ JF99*. Press the “ENTER” button to confirm the setting.

Value: 0 - 99 (0 = slow speed, 99 = fast speed)

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

Colour fade mode:

To access colour fade mode press “MENU” until the display shows *FADe* on the LED display. Press “ENTER” to and use the “UP” and “DOWN” buttons to adjust the speed between *F500 ~ F599*. Press “ENTER” to and use the “UP” and “DOWN” buttons to adjust the flash speed between *FF00 ~ FF99*. Press the “ENTER” button to confirm the setting.

Value: 0 - 99 (0 = slow speed, 99 = fast speed)

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

Auto mode:

To access auto mode press “MENU” until the display shows *AutO* on the LED display. Press “ENTER” to confirm the setting. The fixture will now run through its colour change and colour fade programs.

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

Static colour mode:

To access colour fade mode press “MENU” until the display shows *StAt* on the LED display. Press “ENTER” to and use the “UP” and “DOWN” buttons to choose the static colour between *St01 ~ St15*. Press “ENTER” to and use the “UP” and “DOWN” buttons to adjust the flash speed between *5F00 ~ 5F99*. Press the “ENTER” button to confirm the setting.

Value: 0 - 99 (0 = slow speed, 99 = fast speed)

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

<i>St01</i> - Red	<i>St06</i> - UV	<i>St11</i> - Magenta
<i>St02</i> - Green	<i>St07</i> - Yellow	<i>St12</i> - Turquoise
<i>St03</i> - Blue	<i>St08</i> - Cyan	<i>St13</i> - Orange
<i>St04</i> - White	<i>St09</i> - Lavender	<i>St14</i> - Cool White
<i>St05</i> - Amber	<i>St10</i> - Bright Green	<i>St15</i> - Warm White

RGB colour mix mode:

To access the RGB colour mix mode press “MENU” until *COLO* shows on the LED display. Press the “ENTER” button and use the “UP” and “DOWN” buttons to select the brightness between *r.000 ~ r.255*. Press the “ENTER” button and repeat for green (*g*), blue (*b*), white (*W*), amber (*Y*) and UV (*P*). Press “ENTER” to and use the “UP” and “DOWN” buttons to adjust the flash speed between *CF00 ~ CF99*. Press the “ENTER” button to confirm the setting.

Value: 000 - 255 (000 = low brightness, 255 = high brightness)

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

DMX signal interruption:

DMX signal interruption will allow the user to choose what the fixture does when it loses DMX signal. To access DMX signal interruption press “**MENU**” until the display shows *bLnd* on the LED display. Press “**ENTER**” to and use the “**UP**” and “**DOWN**” buttons to choose between Auto mode (*Auto*), Hold mode (*hold*) and Stop mode (*Stop*). Press the “**ENTER**” button to confirm the setting.

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

Display timeout:

Display timeout allows the user to choose after what period of time the display goes off.

To change the display timeout press “**MENU**” until the display shows *diSP* on the LED display. Press “**ENTER**” to and use the “**UP**” and “**DOWN**” buttons to choose between on (*on*), 10 second timeout (*10oF*), 30 second timeout (*30oF*) and 60 second timeout (*60oF*).

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

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

Software version:

To see what version the fixture is press “**MENU**” until the display shows *uEr* on the LED display. Press “**ENTER**” to and the fixture version will be displayed.

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.

Further DMX cables can be purchased from all good sound and lighting suppliers or Prolight Concepts dealers. Please quote:

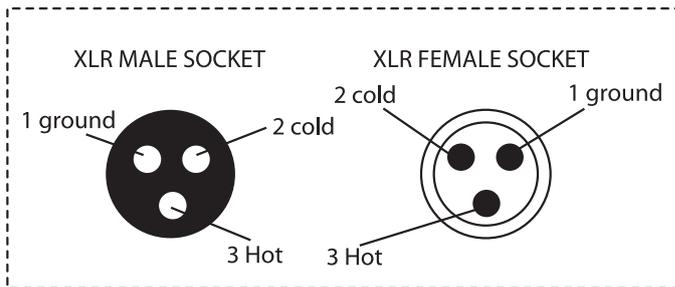
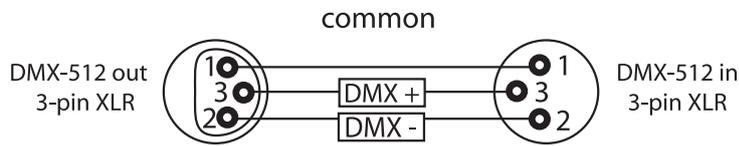
LEDJ 1m Interior - Exterior DMX cable	LEDJ 1m Exterior DMX cable	LEDJ 2m Exterior DMX cable	LEDJ 5m Exterior DMX cable	LEDJ 10m Exterior DMX cable
				
Order code: LEDJ91	Order code: LEDJ141	Order code: LEDJ142	Order code: LEDJ143	Order code: LEDJ144

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

LEDJ 1m Exterior Power cable	LEDJ 2m Exterior Power cable	LEDJ 5m Exterior Power cable	LEDJ 10m Exterior Power cable
			
Order code: LEDJ146	Order code: LEDJ147	Order code: LEDJ148	Order code: LEDJ149

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.

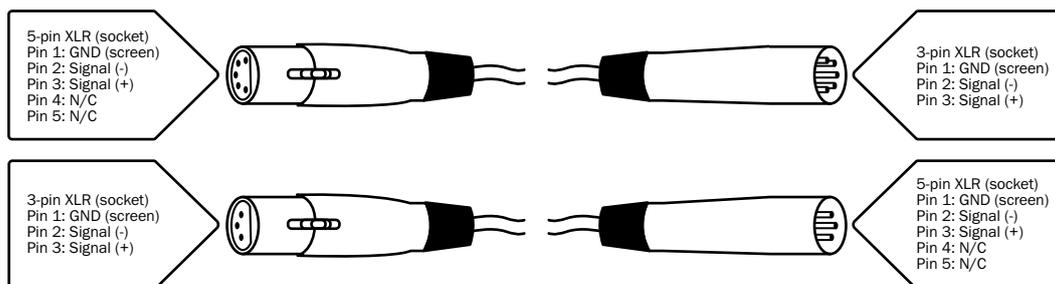
Using a cable terminator will decrease the possibilities of erratic behaviour.

(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.

