HEX Par 9
Exterior Fixture
User Manual

Order code: LEDJ226

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!
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.
- 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.
- 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 9 Exterior Fixture

IP65

The exterior HEX Par 9 features 9 x 12W 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.

- 9 x 12W six-colour LEDs (RGBWAUV)
- Beam angle: 25°
- 4kHz refresh rate
- DMX channels: 2/3/4/5/6 or 9 selectable
- Auto and master/slave modes
- 0 - 100% dimming and variable strobe
- 4 push button menu with LED display
- IP rated power in/out sockets
- IP rated 3-Pin DMX in/out sockets

Specifications	HEX Par 9
Power consumption	115W
Power supply	100~240V, 50/60Hz
Dimensions	235 x 230 x 205mm
Weight	4.8kg
Order code	LEDJ280

25° - Lux 10050 2520 446

0m   1m   2m   5m

25°

230mm

205mm

235mm
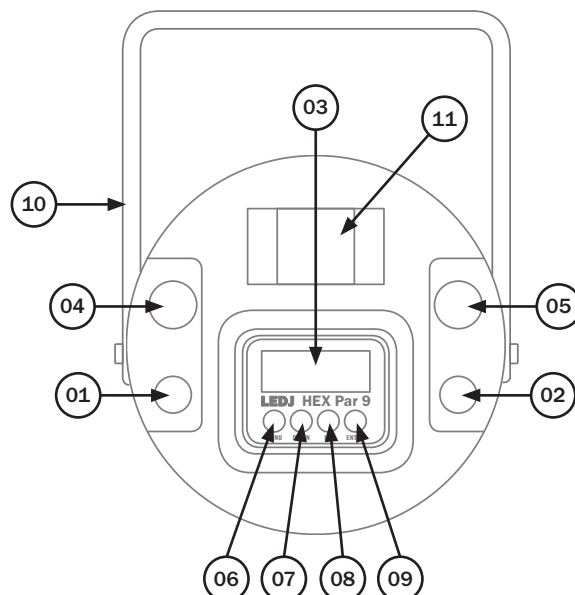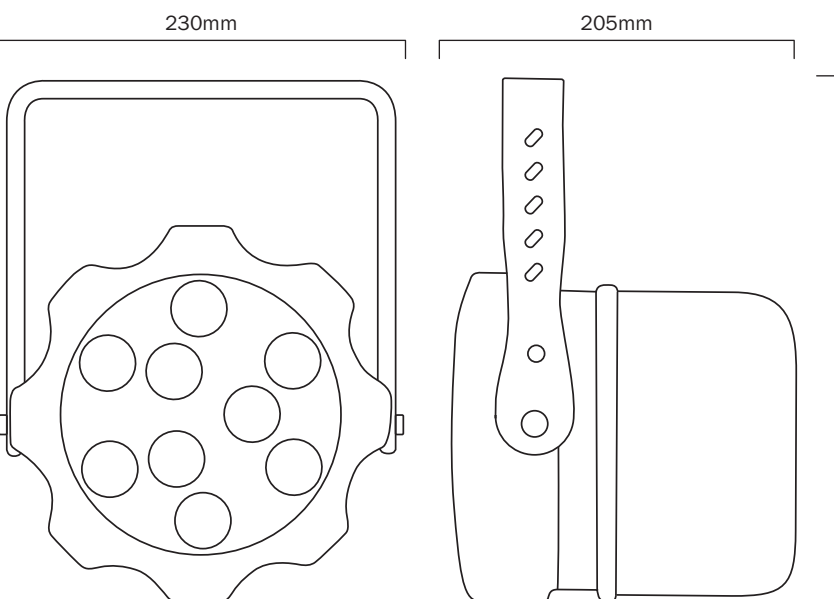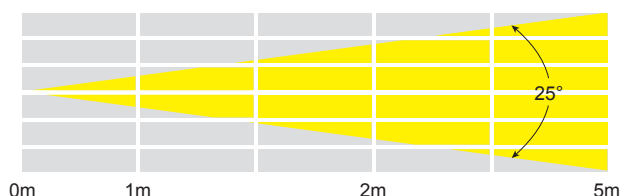
01 - DMX input socket
02 - DMX output socket
03 - LED display
04 - Power in socket
05 - Power out socket
06 - Mode selection button
07 - Down button
08 - Up button
09 - Enter button
10 - Bracket
11 - For safety wire

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

IMPORTANT! PLEASE NOTE: The LED display for this fixture has a menu locking function where after 30 seconds of inactivity it will lock. To unlock the menu hold you must return to the main menu before you can then access the sub menus.

DMX mode:

To access the DMX mode, press the "**MODE**" button until the display shows $Addr$ and press the "**ENTER**" button. Use the "**UP**" and "**DOWN**" buttons to select the desired DMX address and then press "**ENTER**" to confirm your selection.

2 channel mode:

Channel	Value	Function
1	000-255	Dimmer (0-100%)
2	000-255	Colour change

3 channel mode 01:

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

3 channel mode 02:

Channel	Value	Function
1	000-255	Dimmer (0-100%)
2	000-255	Strobe (slow to fast)
3	000-004	No function
	005-255	Fading & effect mode

4 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 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	Dimmer (0-100%)
2	000-255	Strobe (slow to 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	000-004	No function
	005-255	Fading & effect mode

Channel mode:

To access the channel mode, press the "MODE" button until the display shows $ChNd$ and press the "ENTER" button. Use the "UP" and "DOWN" buttons to select the desired channel mode and then press "ENTER" to confirm your selection.

Addr → ENTER → A001 → UP & DOWN / ENTER → A512		**DMX address setting**

ChNd → ENTER → 2Ch → UP / ENTER → 3Ch1 → UP / ENTER → 3Ch2
UP → 4Ch → UP / ENTER → 5Ch → UP / ENTER → 6Ch → UP / ENTER → 9Ch   **Channel mode**

SLNd → ENTER → NASt → ENTER   **Master mode**
UP → SLAU → ENTER   **Slave mode**

ShNd → ENTER → ShoU   **Auto run**
CoLo → ENTER → CoL1 → d000 → UP & DOWN / ENTER → d255 → ENTER   **Dimmer**
S000 → UP & DOWN / ENTER → S255 → ENTER   **Strobe** - Slow to fast
ENTER / UP → Co63 → d000 → UP & DOWN / ENTER → d255 → ENTER   **Dimmer**

JuNP → ENTER → SP00 → UP & DOWN / ENTER → SP99 → ENTER   **Speed** - Slow to fast
UP → d000 → UP & DOWN / ENTER → d255 → ENTER   **Dimmer**

FadE → ENTER → SP00 → UP & DOWN / ENTER → SP99 → ENTER   **Speed** - Slow to fast
UP → d000 → UP & DOWN / ENTER → d255 → ENTER   **Dimmer**

bALA → ENTER → rEd → ENTER → 50 → UP & DOWN / ENTER → 255
GrEE → ENTER → 50 → UP & DOWN / ENTER → 255   **RGB colour mixing**
bLuE → ENTER → 50 → UP & DOWN / ENTER → 255

LEd → ENTER → on → ENTER   **LED display ON**
UP → oFF → ENTER   **LED display OFF**

dISP → MENU
ENTER → dSIP → MENU   **LED display invertion**

tESt → ENTER   **Auto test**

hour → ENTER → 0 → 9999   **Life time**

MENU

Master/Slave mode:

To access the Master/Slave mode, press the mode button until the display shows *SLMd* and press the "**ENTER**" button. Use the "**UP**" and "**DOWN**" buttons to select *MASt* (master) or *SLAU* (slave) and then press "**ENTER**" to confirm your selection.

Show mode:

To access the colour change mode, press the "**MODE**" button until the display shows *ShMd* and press the "**ENTER**" button. Use the "**UP**" and "**DOWN**" buttons to select the desired colour change mode (see below) and then press "**ENTER**" to confirm your selection.

CoLo (Static Colour) press "**ENTER**" and the display will show *CoL 1*, press "**ENTER**" again and the display will show CoL. Use the "**UP**" and "**DOWN**" buttons to select the desired colour *CoL 1 - Co63* and then press "**ENTER**" to confirm your selection. You can now set the dimmer by pressing the "**UP**" button followed by the "**ENTER**" button, now use the "**UP**" and "**DOWN**" buttons to select the desired brightness *d000 - d255* and then press "**ENTER**" to confirm your selection.

JuMP (colour change) press "**ENTER**" and the display will show *SP00*, press "**ENTER**" again and use the "**UP**" and "**DOWN**" buttons to select the desired colour change speed SP00-SP99 and then press "**ENTER**" to confirm your selection. You can now set the dimmer by pressing the "**UP**" button followed by the "**ENTER**" button, now use the "**UP**" and "**DOWN**" buttons to select the desired brightness *d000 - d255* and then press "**ENTER**" to confirm your selection.

FadE (colour fade) press "**ENTER**" and the display will show *SP00*, press "**ENTER**" again and use the "**UP**" and "**DOWN**" buttons to select the desired colour fade speed *SP00 - SP99* and then press "**ENTER**" to confirm your selection. You can now set the dimmer by pressing the "**UP**" button followed by the "**ENTER**" button, now use the "**UP**" and "**DOWN**" buttons to select the desired brightness *d000 - d255* and then press "**ENTER**" to confirm your selection.

RGB colour mixing:

To access the colour mixing mode, press the "**MODE**" button until the display shows baLa and press the "**ENTER**" button. Use the "**UP**" and "**DOWN**" buttons to select the desired colour *rEd*, *GrEE*, *bLuE* and then press "**ENTER**" to confirm your selection. Use the "**UP**" and "**DOWN**" buttons to select the colour level *S0 - 255* then press "**ENTER**" to confirm your selection.

Display On/Off:

To access the LED display on/off mode, press the "**MODE**" button until the display shows LEd and press the "**ENTER**" button. Use the "**UP**" and "**DOWN**" buttons to select on or oFF and then press "**ENTER**" to confirm your selection.

Display inversion On/Off:

To access the LED display inversion mode, press the "**MODE**" button until the display shows $dISP$ and press the "**ENTER**" button. Use the "**ENTER**" button to select the inversion on or off and press "**ENTER**" to confirm your selection.

Self test:

To access the self test mode, press the "**MODE**" button until the display shows $tESt$ and press the "**ENTER**" button. The fixture will now run an auto test on all the LEDs and colours.

Fixture hours:

To access the fixture hours mode, press the "**MODE**" button until the display shows $hour$ and press the "**ENTER**" button. The fixture will now show the total operating hours.

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.

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

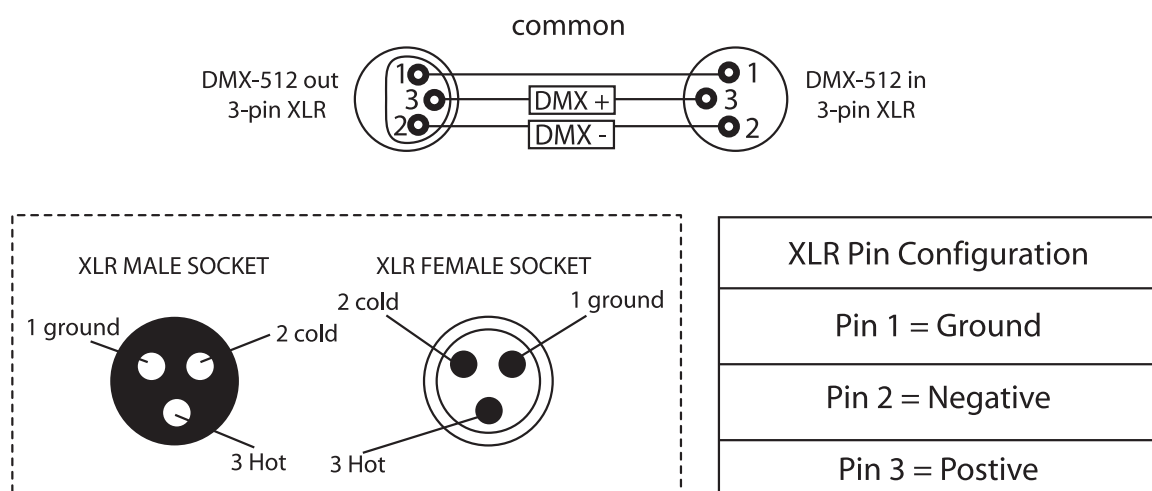| LEDJ 1m Interior - Exterior DMX cable	LEDJ 1m Exterior DMX cable	LEDJ 2m Exterior DMX cable	LEDJ 5m Exterior DMX cable	LEDJ 10m Exterior DMX cable
Order code: LEDJ91	Order code: LEDJ141	Order code: LEDJ142	Order code: LEDJ143	Order code: LEDJ144

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.

common

DMX-512 out
3-pin XLR

DMX +
DMX -

DMX-512 in
3-pin XLR

XLR MALE SOCKET

XLR FEMALE SOCKET

1 ground

2 cold

3 Hot

2 cold

1 ground

3 Hot

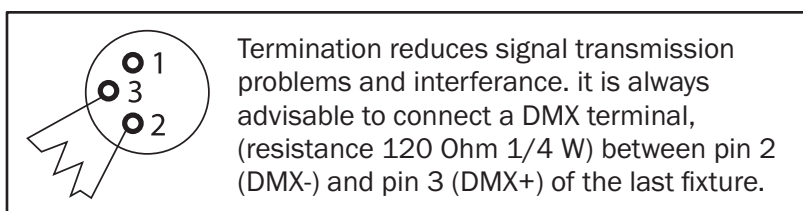| XLR Pin Configuration |
| --- |
| Pin 1 = Ground |
| Pin 2 = Negative |
| Pin 3 = Postive |

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.
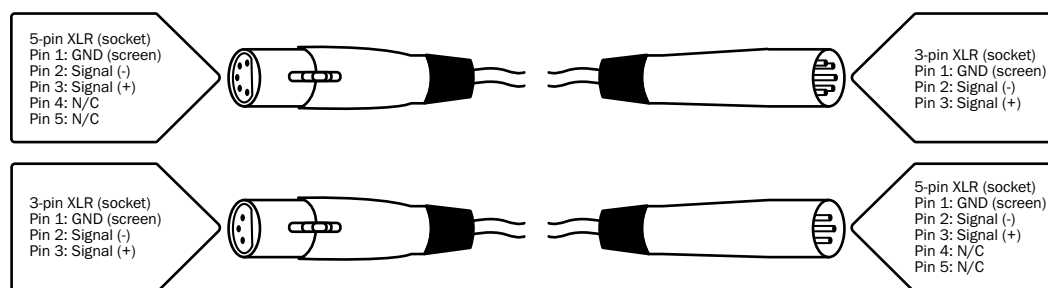
Using a cable terminator will decrease the possibilities of erratic behaviour.
(3-pin - Order ref: CABL9O, 5-pin - Order ref: CABL89)

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.

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.