

LEDJ

Stage Par CZ 100

User Manual



Order codes:

LEDJ190 - 3000K Black Housing

LEDJ190P - 3000K Polished Housing

LEDJ191 - 5700K Black Housing

LEDJ191P - 5700K Polished Housing

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 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.

Stage Par CZ 100

The CZ 100 Zoom Par series are powered by a high output 100W white COB (chip-on-board) LED with colour temperatures of either 3000K or 5700K and a CRI of up to 90 (CW version), ideal for stage productions, concerts or theatre applications, these Stage Pars are an LED replacement for traditional halogen par cans, and have an impressive output comparable to a 1000W halogen sealed beam par (WW Lux 44,280 CW Lux 43,300). The beam angle can be manually adjusted between 15° and 32° and on-board controls offer 4 different dimmer curve options, whilst the 5-pin DMX and powerCON input/output allow for easy connections, adding to the host of professional features on these fixtures. The traditional par can style housing is available in black or polished aluminium and a gel frame holder is supplied enabling diffusion filters to be fitted.

3000K Version

- 1 x 100W warm white LED (3000K)
- Manually adjustable beam angle: 15° - 32°
- 44,280 Lux @ 2m
- CRI: 80

Features

- 3kHz refresh rate
- DMX channels: 1/2 or 3 selectable
- Manual mode
- 0 - 100% dimming with variable strobe
- Supplied with hanging bracket
- 4 push button menu with LED display

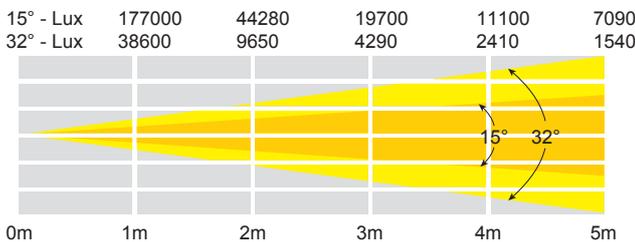
5700K Version

- 1 x 100W cool white LED (5700K)
- Manually adjustable beam angle: 15° - 32°
- 43,300 Lux @ 2m
- CRI: 90

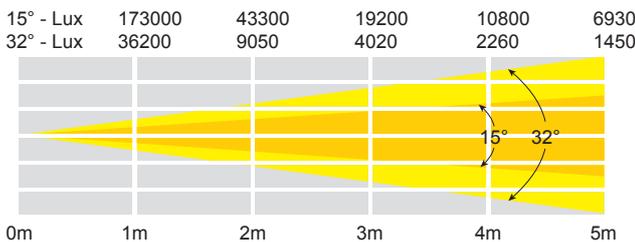
- PowerCON input/output
- 5-Pin XLR input/output
- Fan cooled
- Filter frame included



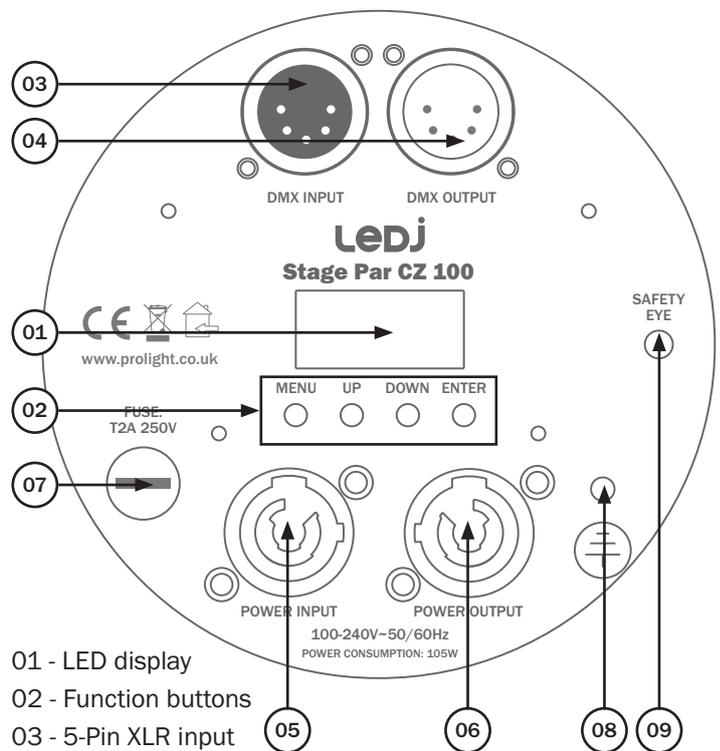
3000K Version



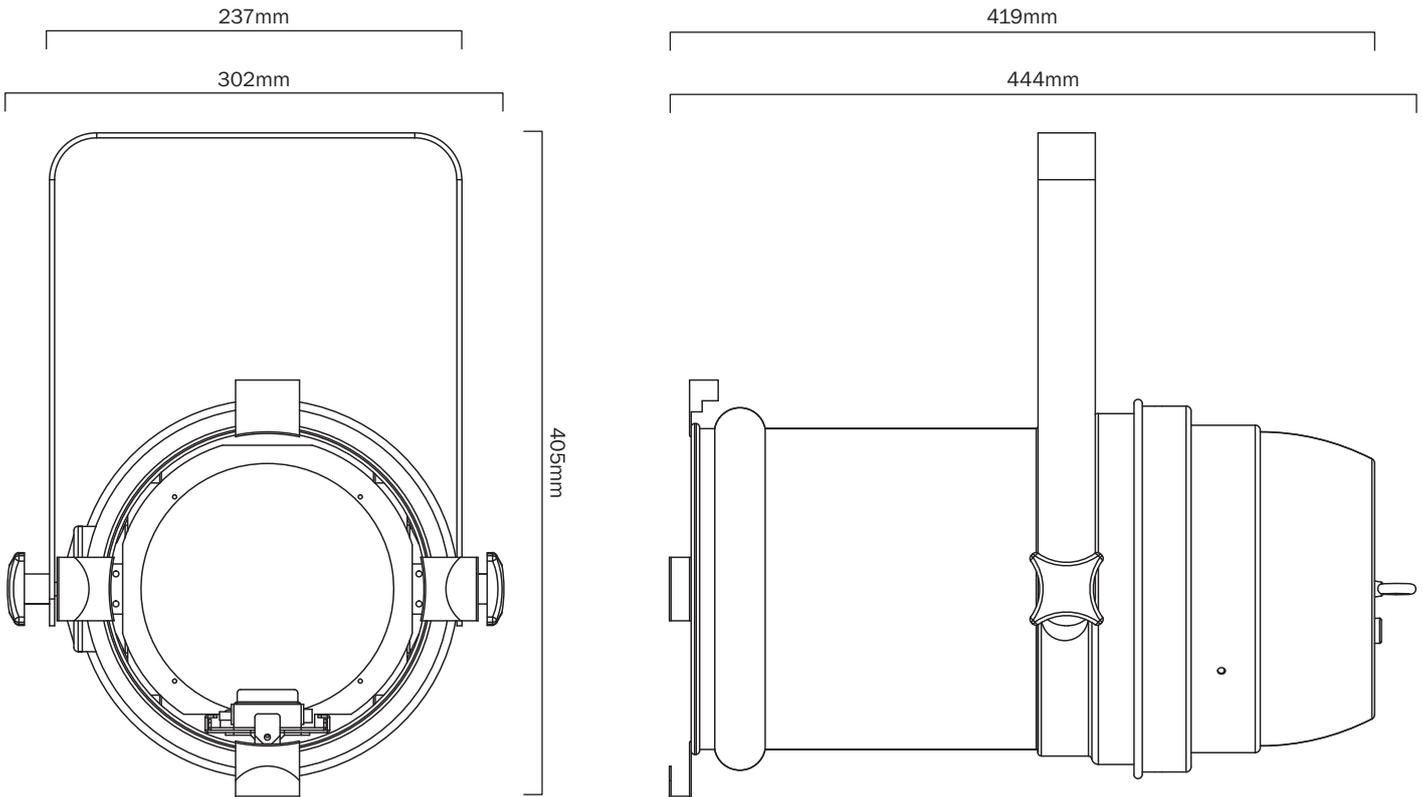
5700K Version



Specifications	Stage Par CZ 100
Power consumption	107W
Power supply	100~240V, 50/60Hz
Fuse	T2A 250V
Dimensions	405 x 302 x 444mm
Weight	3.3kg
Order codes	LEDJ190 - 3000K Black Housing LEDJ190P - 3000K Polished Housing LEDJ191 - 5700K Black Housing LEDJ191P - 5700K Polished Housing

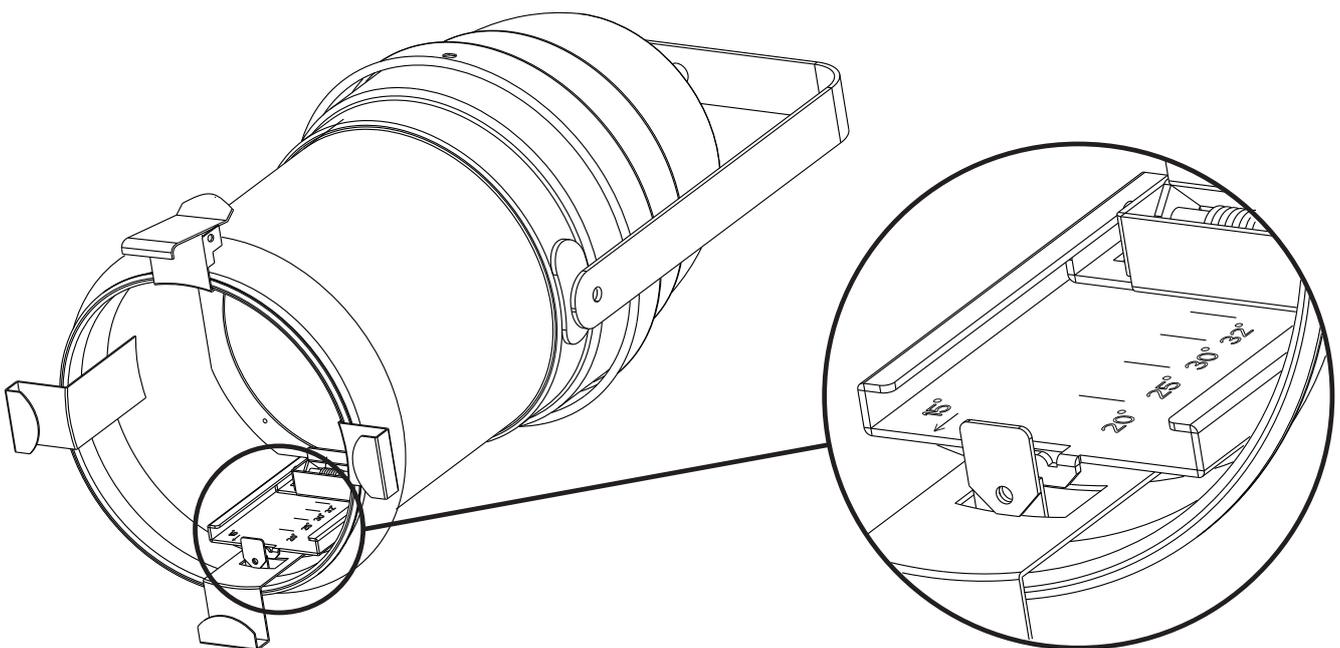


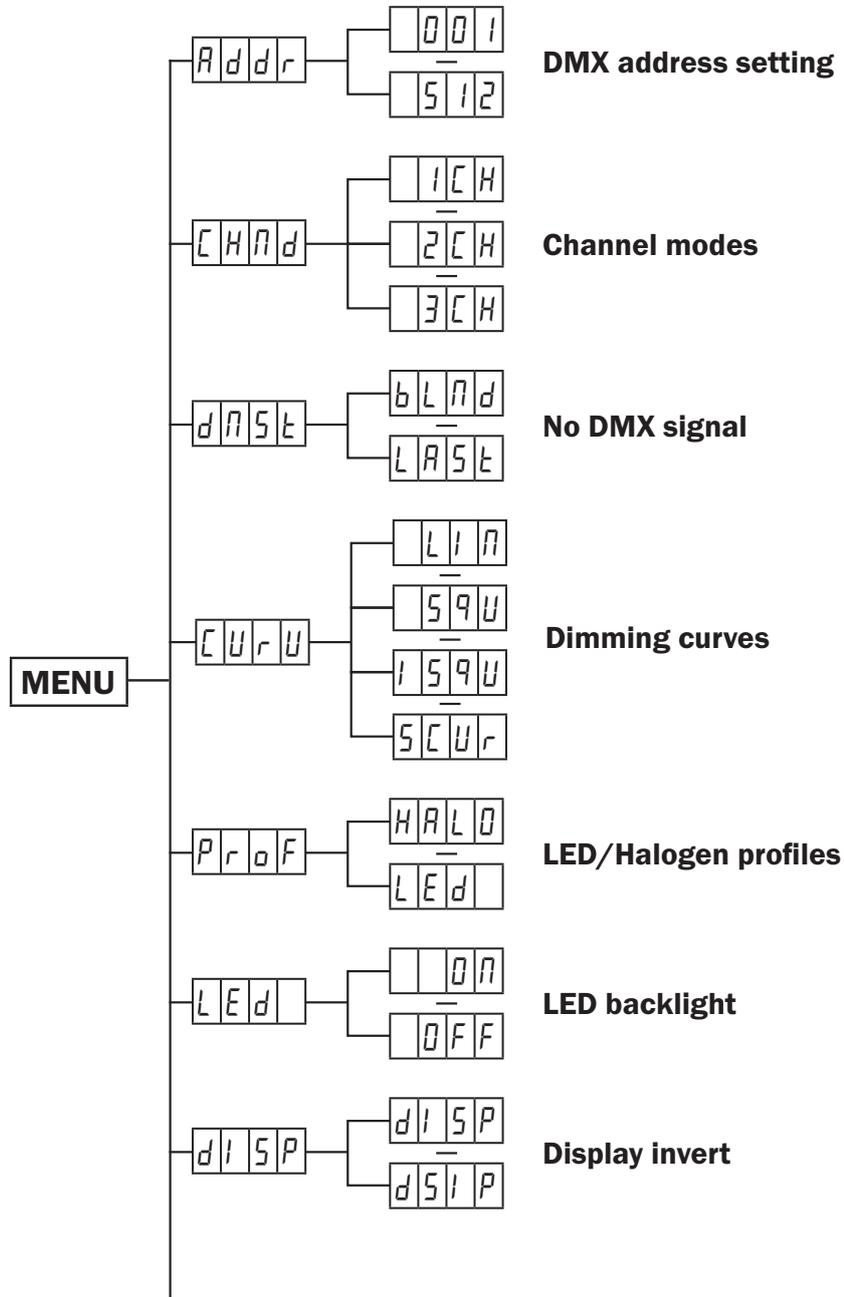
In the box: **1 x fixture,**
1 x filter frame,
1 x power cable
& 1 x user manual

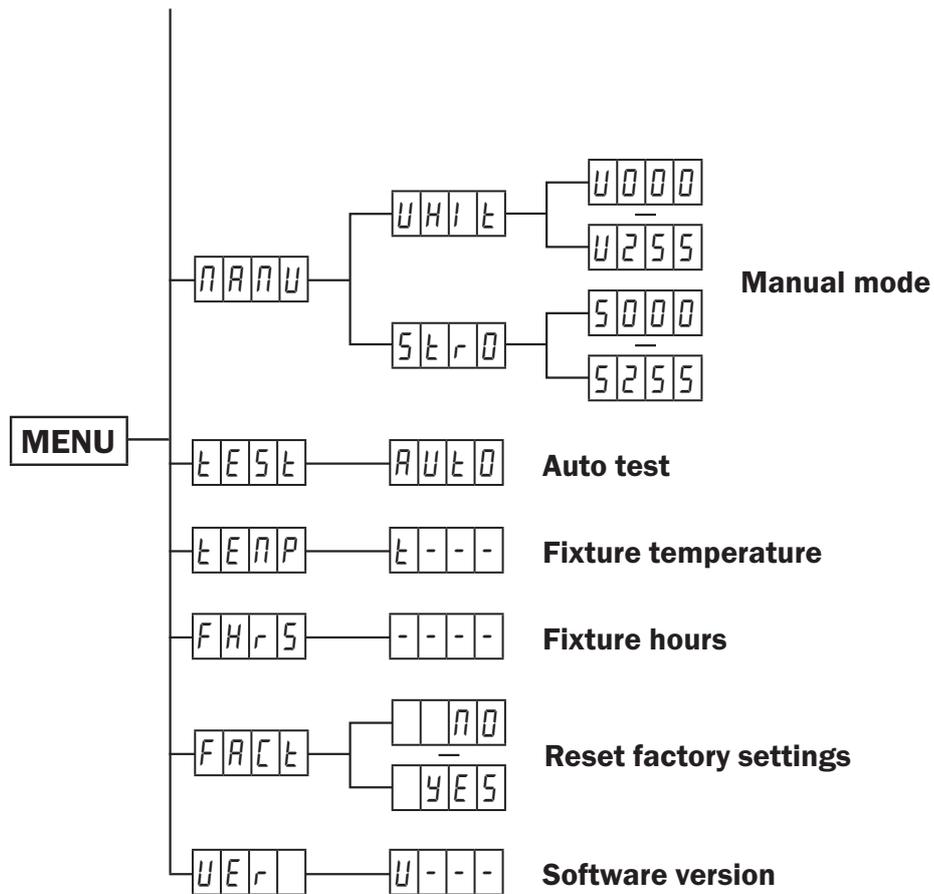


Beam angle (lens) adjustment:

To adjust the beam angle squeeze the spring loaded latch inside the front nose of the par can. The latch can then be moved forwards or backwards smoothly, allowing the operator to select the beam angle required between 15° and 32° using the markers provided as a guide. Release the spring loaded latch once the beam angle has been selected to prevent any further movement.







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 and use the “**UP**” and “**DOWN**” buttons 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 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 and use the “**UP**” and “**DOWN**” buttons 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 choose one of the 1/2 or 3 DMX channel modes. Press the “**ENTER**” button to confirm the setting. To exit out of any of the above options, press the “**MENU**” button.

DMX channel modes:

Channel			Value	Function
1	2	3		
1	1	1	000-255	Master dimmer (0-100%)
		2	000-255	Master dimmer fine
	2	3	000-031	No function
			032-063	Open
			064-095	Strobe (slow-fast)
			096-127	Open
			128-159	Pulse strobe (slow-fast)
			160-191	Open
			192-223	Random strobe (slow-fast)
			224-255	Open

No DMX signal:

To change how the unit responds when the DMX signal is lost, press the “MENU” button and use the “UP” and “DOWN” buttons on the rear of the unit to show *dnsE* on the LED display. Now press the “ENTER” button and use the “UP” and “DOWN” buttons to choose between *LAsE* (Hold the last DMX command) or *bLnD* (Blackout). Press the “ENTER” button to confirm the setting.

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

Dimming curves:

To access the dimming curve setting, press the “MENU” button on the front of the unit to show *CUU* on the LED display. Now press the “ENTER” button and use the “UP” and “DOWN” buttons to choose between *LI n* (Linear), *SQU* (Square), *ISQU* (Inverse square) or *SCUr* (S-Curve).

Press the “ENTER” button to confirm the setting.

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

Dimming profile:

To access the LED dimming profile setting, press the “MENU” button and use the “UP” and “DOWN” buttons on the rear of the unit to show *Pr oF* on the LED display. Now press the “ENTER” button and use the “UP” and “DOWN” buttons to choose between *HALO* (Halogen) or *LEd* (LED). Press the “ENTER” button to confirm the setting. To exit out of any of the above options, press the “MENU” button.

LED backlight:

To access the LED backlight setting, press the “MENU” button and use the “UP” and “DOWN” buttons on the rear of the unit to show *LEd* 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 exit out of any of the above options, press the “MENU” button.

Display invert setting:

To access the display invert setting, press the “MENU” button and use the “UP” and “DOWN” buttons on the rear of the unit to show *dI SP* on the LED display. Now press the “ENTER” button and use the “UP” and “DOWN” buttons to choose between *dI SP* or *dSI P*. Press the “ENTER” button to confirm the setting. 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 *nAnU* on the LED display. Now press the “ENTER” button and use the “UP” and “DOWN” buttons to choose between *WHI t* (White dimmer) or *Stro* (Strobe). Press the “ENTER” button and use the “UP” and “DOWN” buttons to choose between *000 ~ 255*. Press the “ENTER” button to confirm the setting.

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

Test mode:

To access the test mode, press the “MENU” button and use the “UP” and “DOWN” buttons on the rear of the unit to show *TEST* on the LED display. Now press the “ENTER” button.

The unit will now display *TEST* and run the fixtures test mode.

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

Fixture temperature:

To access the fixtures temperature, press the “MENU” button and use the “UP” and “DOWN” buttons on the rear of the unit to show *TEMP* on the LED display. Now press the “ENTER” button.

The unit will now display the fixtures temperature.

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

Fixture hours:

To access the fixtures usage time, press the “MENU” button and use the “UP” and “DOWN” buttons on the rear of the unit to show *HR5* on the LED display. Now press the “ENTER” button.

The unit will now display the fixtures usage time (hours).

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

Reset factory settings:

To reset factory settings, press the “MENU” button and use the “UP” and “DOWN” buttons on the rear of the unit to show *FACT* on the LED display. Now press the “ENTER” button and use the “UP” and “DOWN” buttons to choose *YES*. Press the “ENTER” button to confirm the setting. The fixture will reset to factory default settings. To exit out of any of the above options, press the “MENU” button.

Software version:

To access the fixtures software version, press the “MENU” button and use the “UP” and “DOWN” buttons on the rear of the unit to show *VER* on the LED display. Now press the “ENTER” button.

The unit will now display the fixtures software version.

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

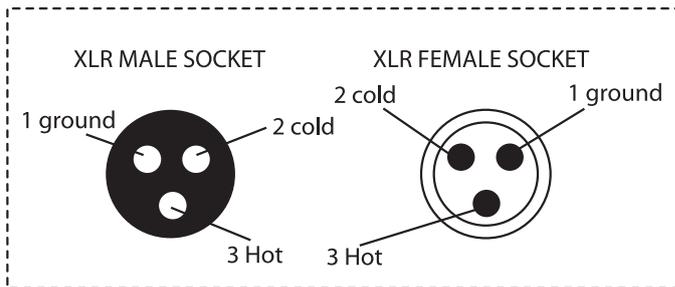
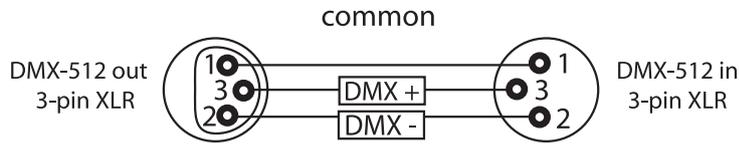
CABL11 – 5m

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.

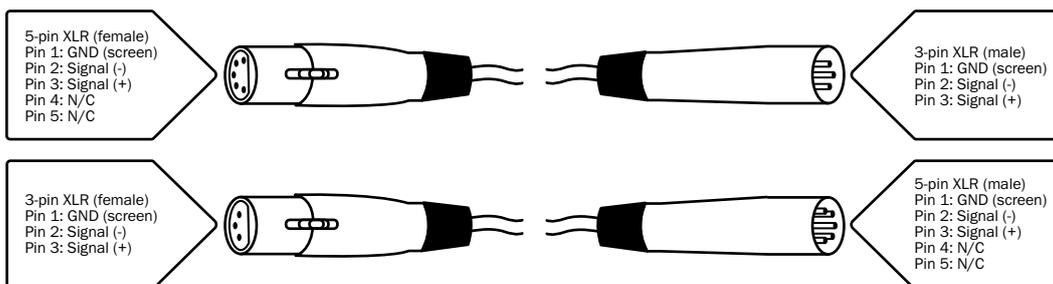
Using a cable terminator will decrease the possibilities of erratic behaviour.

(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.

