

LEDJ

Stage Par CZ 120 RGBA

User Manual



Order codes:

LEDJ192 - Black Housing

LEDJ192P - 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.

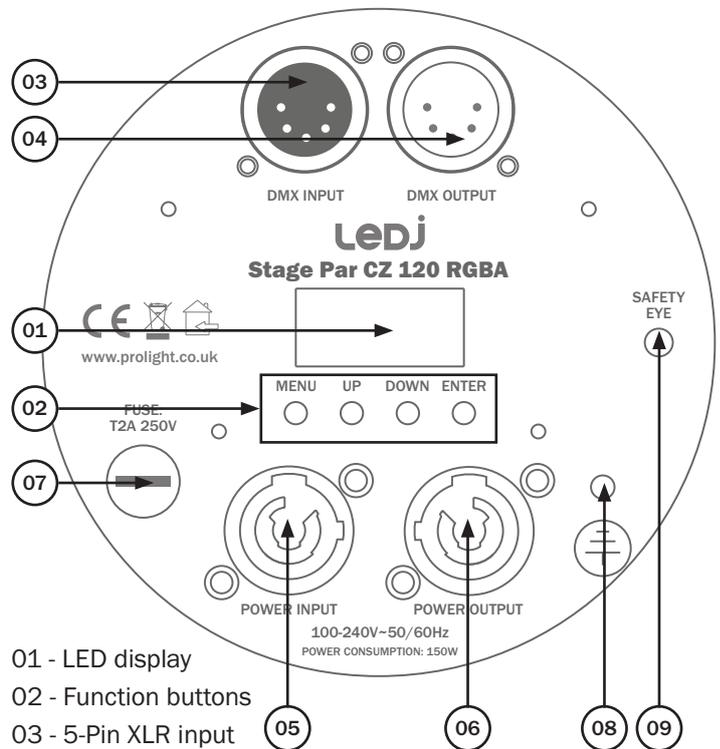
Stage Par CZ 120 RGBA

The CZ 120 RGBA Stage Par is powered by a high output 120W quad-colour COB (chip-on-board) RGBA LED, ideal for stage productions, concerts or theatre applications. The beam angle can be manually adjusted between 15° and 35° 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.

- 1 x 120W quad-colour LED (RGBA)
- Manually adjustable beam angle: 15° - 35°
- 13,800 Lux @ 2m (full on)
- 3kHz refresh rate
- DMX channels: 4/7 or 11 selectable
- Manual and master/slave modes plus built-in programs
- 0-100% dimming and variable strobe
- Supplied with hanging bracket
- 4 push button menu with LED display
- PowerCON input/output
- 5-Pin XLR input/output
- Fan cooled
- Filter frame included



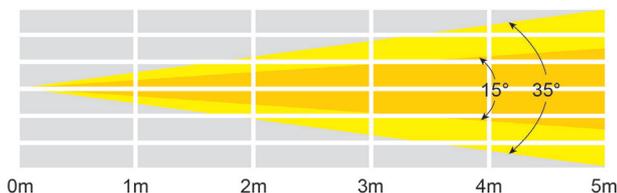
Specifications	Stage Par CZ 120
Power consumption	150W
Power supply	100~240V, 50/60Hz
Fuse	T2A 250V
Dimensions	405 x 302 x 444mm
Weight	3.9kg
Order codes	LEDJ192 - Black Housing LEDJ192P - Polished Housing

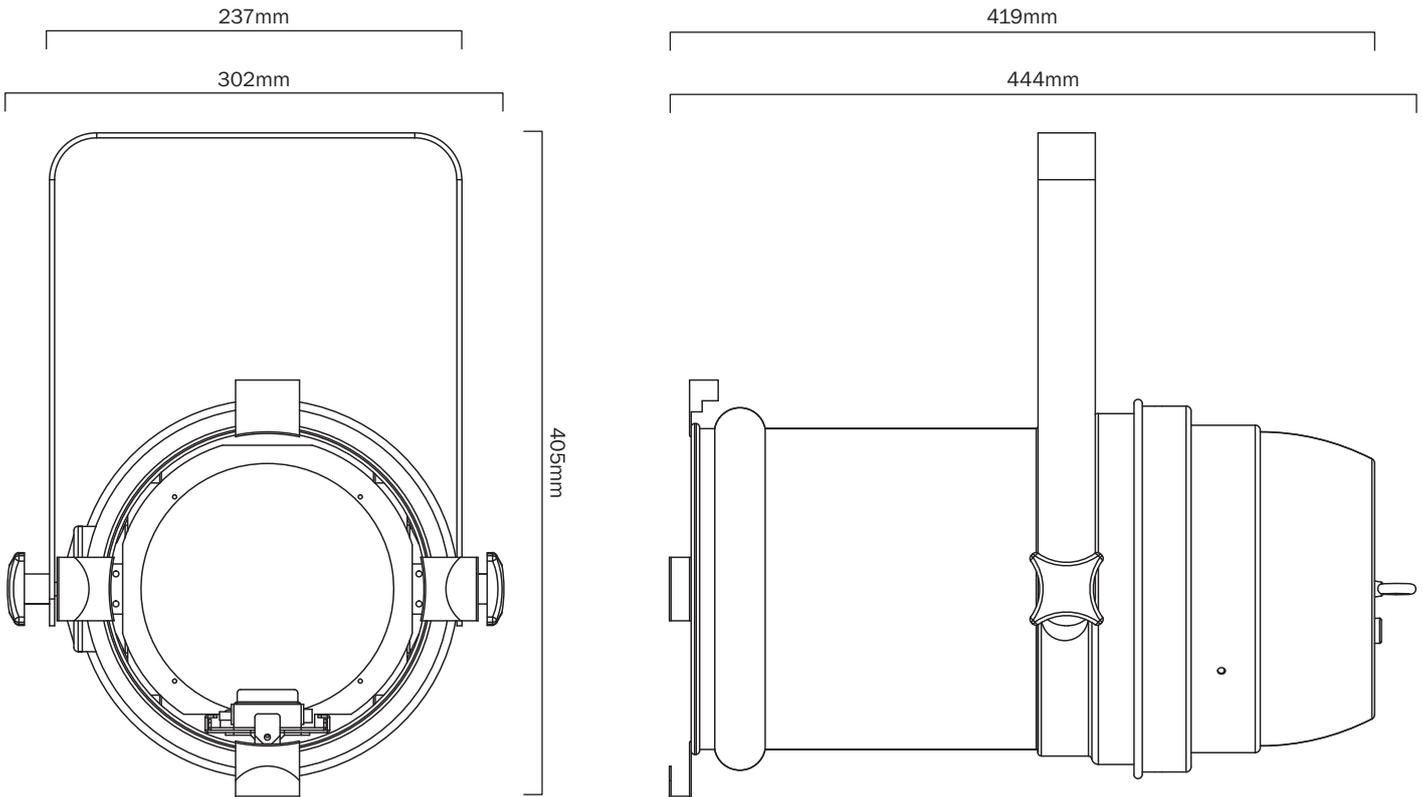


- 01 - LED display
- 02 - Function buttons
- 03 - 5-Pin XLR input
- 04 - 5-Pin XLR output
- 05 - PowerCON input
- 06 - PowerCON output
- 07 - Fuse T2A 250V
- 08 - Earth point
- 09 - Safety eye

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

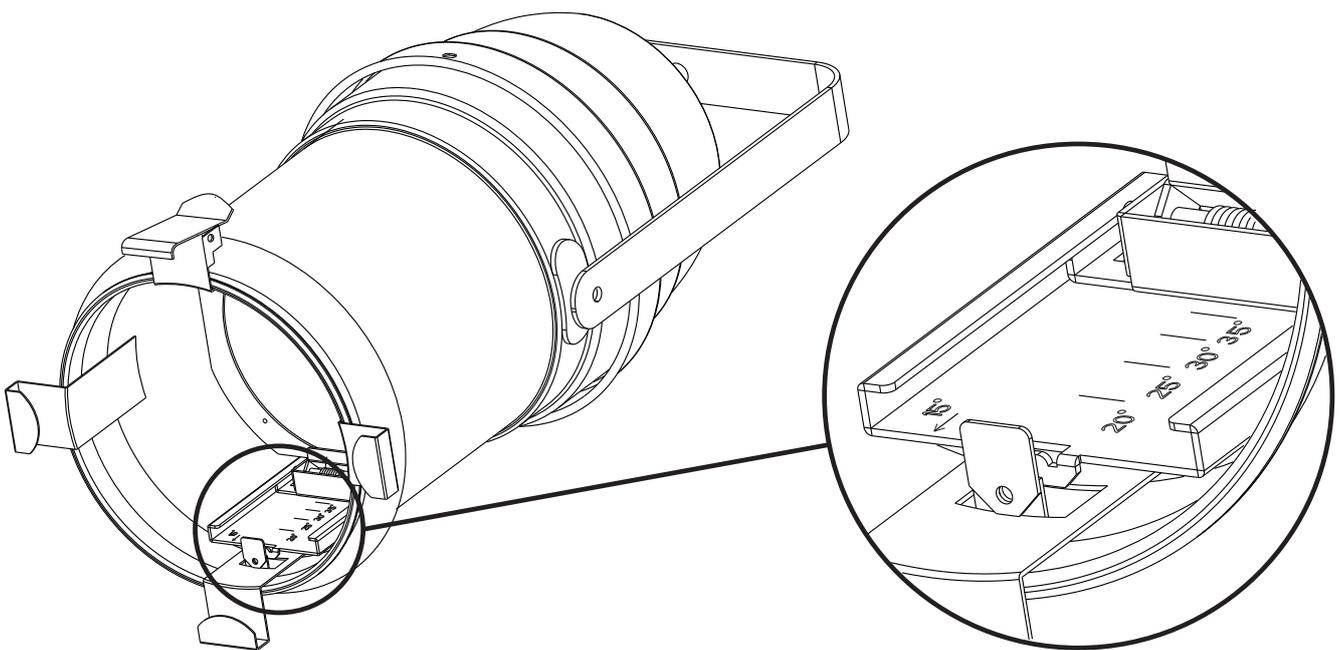
15° - Lux					
FULL ON	75200	18820	8360	4700	3010
R	14000	3512	1560	878	562
G	26900	6725	2990	1680	1080
B	6280	1568	698	393	251
A	30200	7543	3350	1890	1210
35° - Lux					
FULL ON	17300	4321	1920	1080	691
R	3450	863	384	216	138
G	6880	1721	764	430	275
B	1810	452	201	113	72.3
A	7520	1881	836	470	301

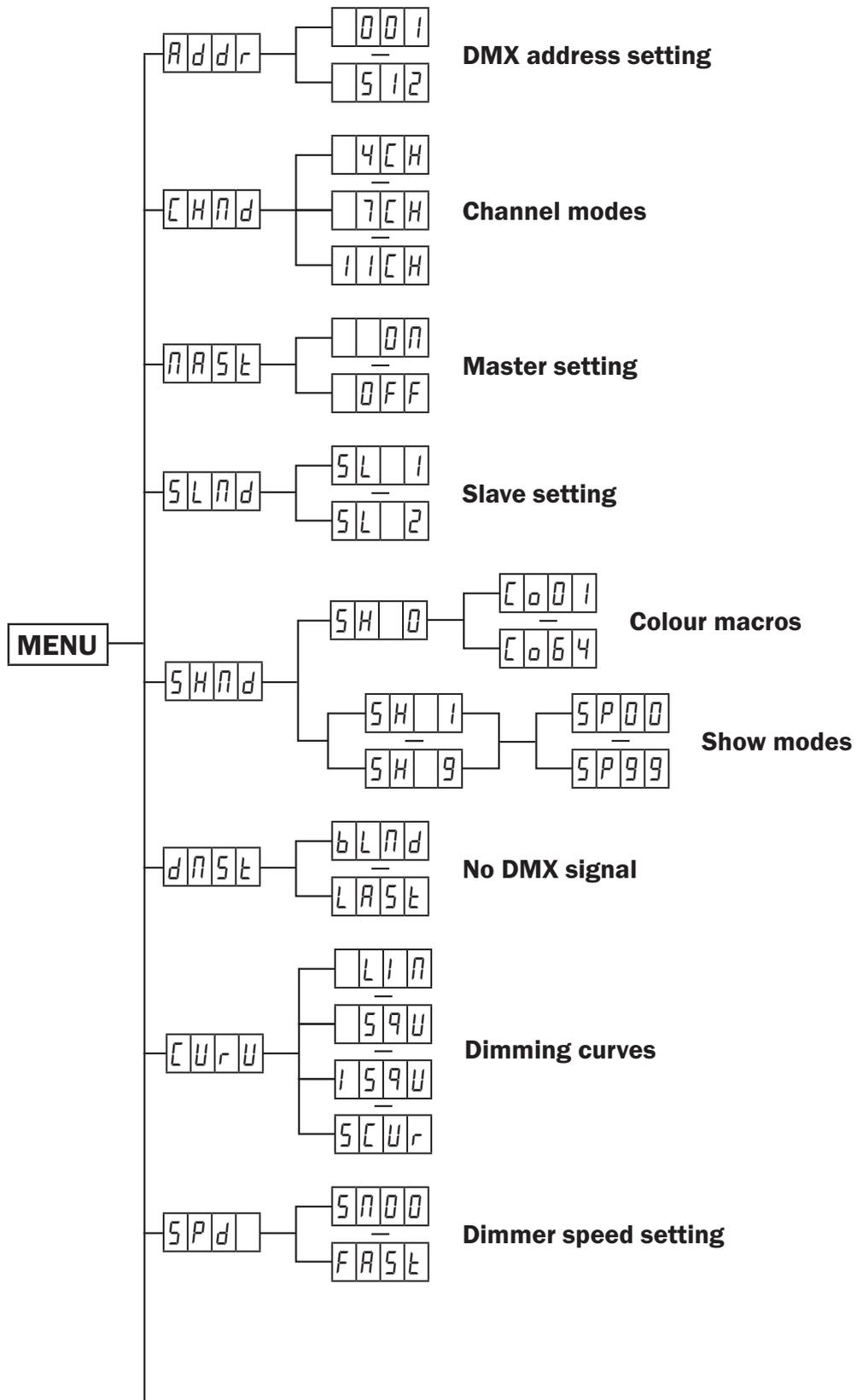


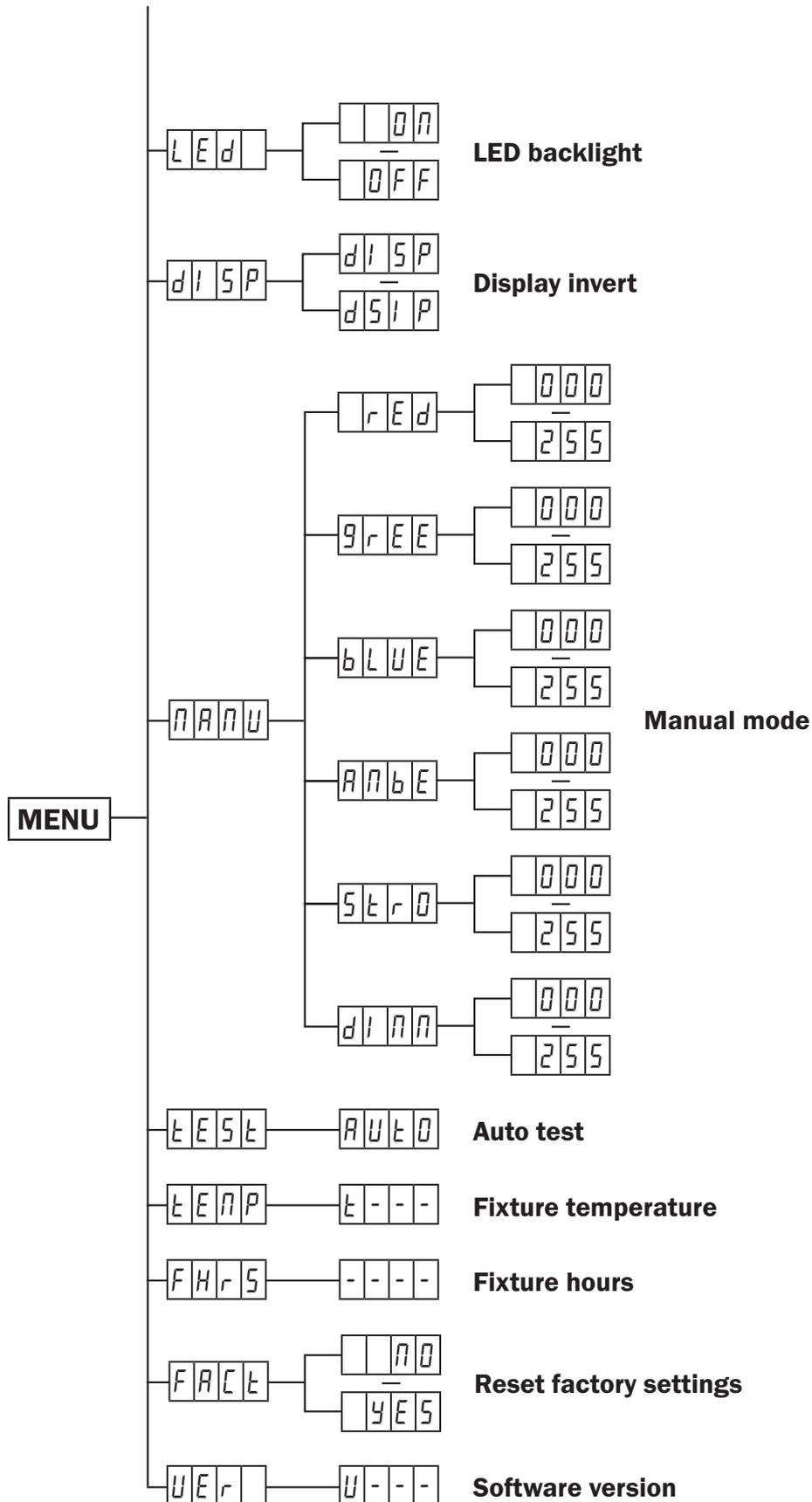


Beam angle (lens) adjustment:

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 35° 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 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 to show *CHnd* on the LED display. Now press the “ENTER” button and use the “UP” and “DOWN” buttons to choose one of the 4/7 or 11 DMX channel modes. 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
CH1	000-255	Red dimmer (0-100%)
CH2	000-255	Green dimmer (0-100%)
CH3	000-255	Blue dimmer (0-100%)
CH4	000-255	Amber dimmer (0-100%)

7 channel mode:

Channel	Value	Function
CH1	000-255	Red dimmer (0-100%)
CH2	000-255	Green dimmer (0-100%)
CH3	000-255	Blue dimmer (0-100%)
CH4	000-255	Amber dimmer (0-100%)
CH5	000-255	Colour temperature (3000K-7000K)
CH6	000-255	Master dimmer (0-100%)
CH7	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

11 channel mode:

Channel	Value	Function
CH1	000-255	Red dimmer (0-100%)
CH2	000-255	Green dimmer (0-100%)
CH3	000-255	Blue dimmer (0-100%)
CH4	000-255	Amber dimmer (0-100%)
CH5	000	No function
	001-004	Colour 1
	005-008	Colour 2
	009-012	Colour 3
	013-016	Colour 4
	017-020	Colour 5
	021-024	Colour 6
	025-028	Colour 7
	029-032	Colour 8
	033-036	Colour 9
	037-040	Colour 10
	041-044	Colour 11
	045-048	Colour 12
	049-052	Colour 13
	053-056	Colour 14
	057-060	Colour 15
	061-064	Colour 16
	065-068	Colour 17
	069-072	Colour 18
	073-076	Colour 19

11 channel mode:

Channel	Value	Function
CH5 cont.	077-080	Colour 20
	081-084	Colour 21
	085-088	Colour 22
	089-092	Colour 23
	093-096	Colour 24
	097-100	Colour 25
	101-104	Colour 26
	105-108	Colour 27
	109-112	Colour 28
	113-116	Colour 29
	117-120	Colour 30
	121-124	Colour 31
	125-128	Colour 32
	129-132	Colour 33
	133-136	Colour 34
	137-140	Colour 35
	141-144	Colour 36
	145-148	Colour 37
	149-152	Colour 38
	153-156	Colour 39
	157-160	Colour 40
	161-164	Colour 41
	165-168	Colour 42
	169-172	Colour 43
	173-176	Colour 44
	177-180	Colour 45
	181-184	Colour 46
	185-188	Colour 47
	189-192	Colour 48
	193-196	Colour 49
	197-200	Colour 50
	201-204	Colour 51
205-208	Colour 52	
209-212	Colour 53	
213-216	Colour 54	
217-220	Colour 55	
221-224	Colour 56	
225-228	Colour 57	
229-232	Colour 58	

Channel	Value	Function
CH5 cont.	233-236	Colour 59
	237-240	Colour 60
	241-244	Colour 61
	245-248	Colour 62
	249-252	Colour 63
	253-255	Colour 64
CH6	000-255	Colour temperature (3000K-7000K)
CH7	000-255	Master dimmer (0-100%)
CH8	000-255	Dimmer fine (0-100%)
CH9	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
CH10	000-002	No function
	003-030	Show 1
	031-058	Show 2
	059-086	Show 3
	087-114	Show 4
	115-142	Show 5
	143-170	Show 6
	171-198	Show 7
	199-226	Show 8
227-255	Show 9	
CH11	000-255	Show mode speed (slow-fast)

Master/slave mode:

To set the master unit, press the “MENU” button and use the “UP” and “DOWN” buttons to show *MASTER* on the LED display. Now press the “ENTER” button and use the “UP” and “DOWN” buttons to choose *ON* choose *OFF*. Press the “ENTER” button to confirm the setting.

Then select your desired program.

To set the other units in slave mode, press the “MENU” button and use the “UP” and “DOWN” buttons to show *SLAVE* on the LED display. Now press the “ENTER” button and use the “UP” and “DOWN” buttons to choose either *SL 1* ~ *SL 2*. 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 and use the “UP” and “DOWN” buttons to show *SHOW* on the LED display. Now press the “ENTER” button and use the “UP” and “DOWN” buttons to choose between *SH 0* ~ *SH 9*.

To change the speed of the selected program press the “ENTER” button and then use the “UP” and “DOWN” buttons to select any value from *SP00* ~ *SP99*.

Press the “ENTER” button to confirm the setting.

In *SH 0* you are able to set a specific static colour. When in *SH 0* press the “ENTER” button and then use the “UP” and “DOWN” buttons to go through the static colours. Press the “ENTER” button to confirm the setting.

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

Show 0	Colour macros (Colour 1 - Colour 64)
Show 1	3 colour fade (red, green, blue)
Show 2	4 colour fade (red, green, blue, amber)
Show 3	3 colour fade (red, green, blue) with amber @ 100%
Show 4	4 colour change (red, green, blue, amber)
Show 5	10 colour change (red, green, blue, amber, yellow, magenta, cyan, orange, lime green, lilac)
Show 6	Red continuous fade in/out
Show 7	Green continuous fade in/out
Show 8	Blue continuous fade in/out
Show 9	Amber continuous fade in/out

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 to show *dNSt* on the LED display. Now press the “ENTER” button and use the “UP” and “DOWN” buttons to choose between *LASt* (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 to show *CUrU* on the LED display. Now press the “ENTER” button and use the “UP” and “DOWN” buttons to choose between *LIn* (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 speed:

To access the dimmer speed setting, press the “MENU” button and use the “UP” and “DOWN” buttons to show *SPd* on the LED display. Now press the “ENTER” button and use the “UP” and “DOWN” buttons to choose between *SNoo* (Smooth) or *FAST* (Fast).

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 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 to show *dISP* on the LED display. Now press the “ENTER” button and use the “UP” and “DOWN” buttons to choose between *dISP* or *dSiP*. 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 to show *MANU* on the LED display.

Now press the “ENTER” button and use the “UP” and “DOWN” buttons to choose between *rEd* (Red), *GrEE* (Green), *bLUE* (Blue), *AmBE* (Amber), *Stro* (Strobe) and *dInN* (Master dimmer).

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.

Fixture temperature:

To access the fixtures temperature, press the “MENU” button and use the “UP” and “DOWN” buttons 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.

Test mode:

To access the test mode, press the “MENU” button and use the “UP” and “DOWN” buttons 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 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 to show *HR* 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 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 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 requires either a standard 3-pin or 5-pin XLR connector for data input/output, see images below.



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

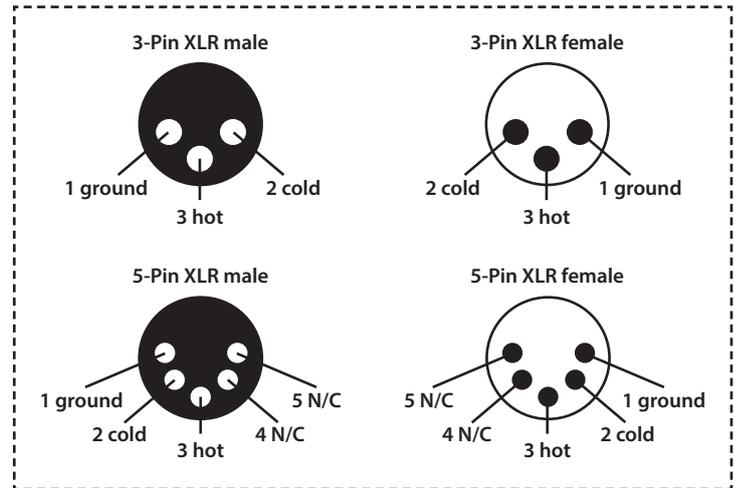
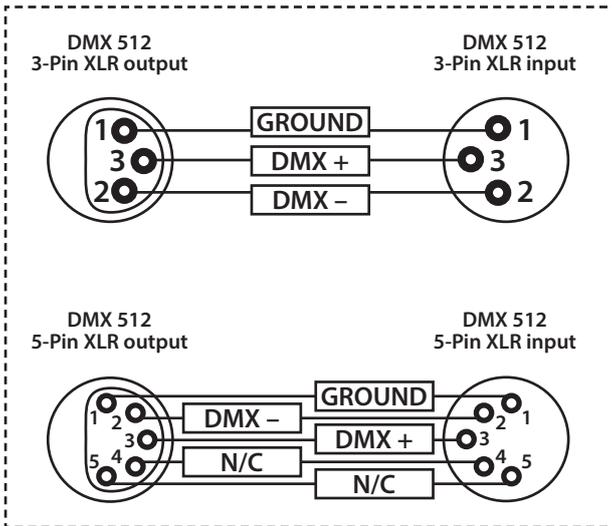
Please quote:	3-Pin:	CABL10 - 2m	CABL11 - 5m	CABL12 - 10m
	5-Pin:	CABL185 - 2m	CABL187 - 5m	CABL188 - 10m

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.

Pin Configuration	
3-Pin	5-Pin
	Pin 1 - Ground
	Pin 2 - Negative
	Pin 3 - Positive
-	Pin 4 - N/C
-	Pin 5 - N/C

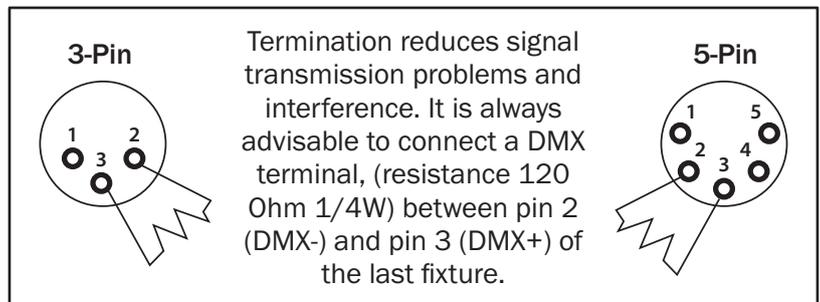


Line termination:

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

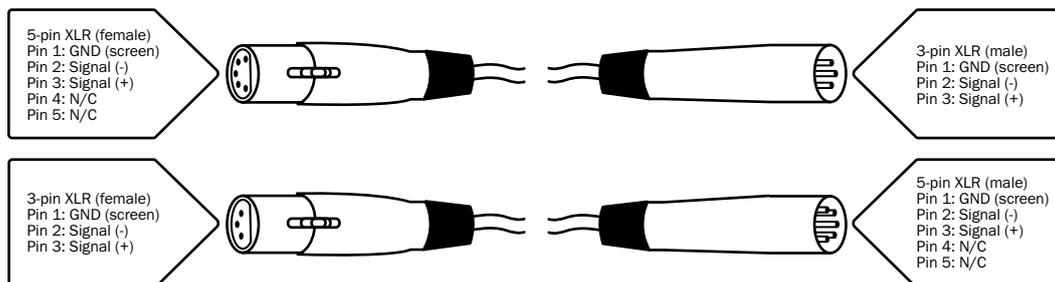
Using a cable terminator will decrease the possibilities of erratic behaviour.

(3-pin - Order ref: CABL90,
5-pin - Order ref: CABL89)



5-pin XLR DMX connectors:

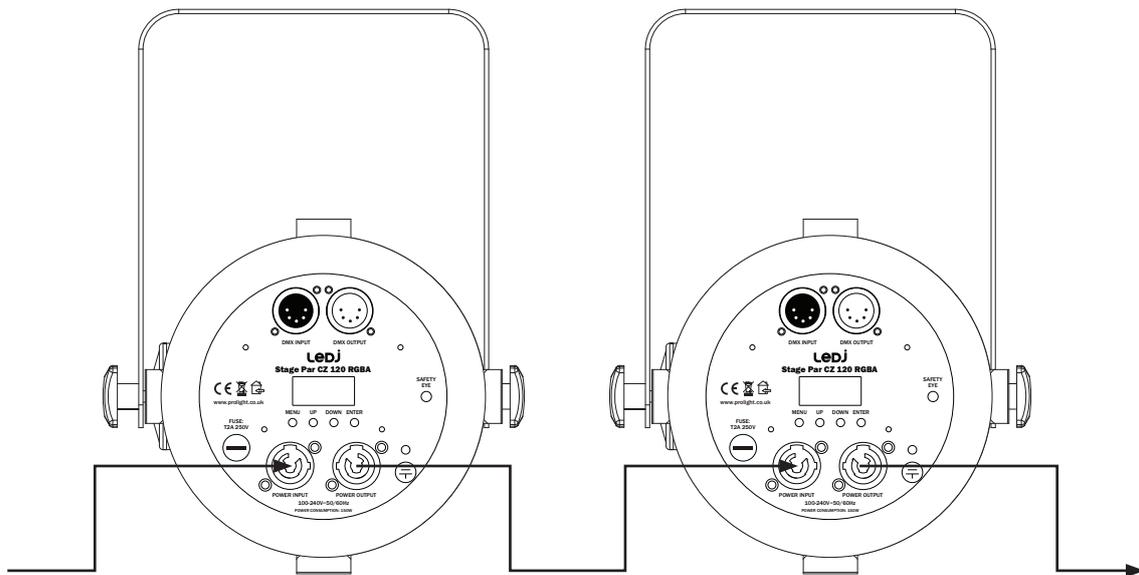
Some manufactures use 5-pin XLR connectors for data transmission in place of 3-pin. 5-pin XLR fixtures may be implemented in a 3-pin XLR DMX line. When inserting standard 5-pin XLR connectors in to a 3-pin line a cable adaptor must be used. The diagram below details the correct cable conversion.



Power linking:

This fixture provides power linking via the power output on the rear allowing multiple units to be connected together. The maximum number of fixtures that can be connected is 15 fixtures @ 240V or 7 fixtures @ 120V (including the first fixture). After the maximum number of fixtures are connected a new power run will need to be started.

Please note: Caution should be used when power linking other fixtures to the Stage Par CZ 120 RGBA as the power consumption of other fixtures will vary. Fixtures fitted with lamps often require 2/3 times more current on startup, these may require their own power source.





***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.



LEDj