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PRO SERIES SPECTRA BATTEN 1 M

(EXTERIOR IP44)

(ORDER CODE: LEDJ76B)

WARNING

**FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY
BEFORE YOUR INITIAL START-UP!**

**CAUTION!**

**Keep this equipment away from
flammable sources or gases.**

**SAFETY INSTRUCTIONS**

Every person involved with the installation, operation & maintenance of this equipment should:

- Be competent
- Follow the instructions of this manual



**CAUTION! TAKE CARE USING THIS EQUIPMENT!
HIGH VOLTAGE-RISK OF ELECTRIC SHOCK!!**



Before your initial start-up, please make sure that there is no damage caused during transportation. Should there be any, 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 equipment.
- Do not open the equipment and do not modify the equipment.
- 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 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 220v/240v.
- 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. Have a qualified engineer inspect the equipment before operating again.
- If your product fails to function correctly, discontinue use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Prolight 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, electric shocks, lamp failure etc.

Do not endanger your own safety and the safety of others!

Incorrect installation or use can cause serious damage to people and property.

The LEDJ Pro Series Spectra Batten together with the LEDJ90B IR remote control can produce colourful and dynamic lighting effects. It can be used for a wide variety of applications and is suitable for outdoor building illumination.

Back View:



DMX chart:

CHANNEL	VALUE	FUNCTION
CH1	0-255	Master dimmer (0-100%)
CH2	0-255	Red dimmer
CH3	0-255	Green dimmer
CH4	0-255	Blue dimmer
CH5	0-10	No function
	11-255	Strobe (000 = slowest to 255 = fastest)

Spectra Batten Specifications

- DMX channels: 5
- LEDJ90B Optional remote features: Blackout, Auto run, Speed and Dimmer
- Water resistant: IP44 rating
- Heavy duty aluminium construction
- Adjustable mounting brackets
- Static colour mixing
- RGB colour mixing
- Master/slave
- 27 x 1W LEDs (R: 9, G: 9, B: 9)
- Power consumption: 43 watts
- Beam: 40 degrees
- Input power: AC 240V
- Dimensions: 1000 x 80 x 75mm
- Weight: 5Kgs

I.R Remote (purchased separately: LEDJ90B)**Functions:**

The “**BLACKOUT**” button is used to set the LED’s into the power on or off modes.

The “**AR**” button is used to set the LED’s into the auto run mode.

The “**S PR**” button is used to set the LED’s to run the built-in programmes

Built-in programme selection: 7 colour selection, colour changing and colour fade.

Choose between the 9 built-in programmes by pressing the “**+**” and “**-**” buttons.

The “**FL**” button is used to set the LED’s to flash on and off, to change the flash frequency use the “**+**” and “**-**” buttons.

The “**SP**” button is used to set the run speed, this button is available only in the colour change or colour fade modes. To change the speed use the “**+**” and “**-**” buttons.

The “**D**” button is used to set the LED’s into DMX mode. (See DMX value table)

The “**SA**” button is used to set the LED’s into sound activated mode. This function is unavailable on the Exterior Spectra Series.

The “**SL**” button is used to set the LED’s into slave mode.

The “**S**”, “**0**”, “**1**”, “**2**”, “**3**”, “**4**”, “**5**”, “**6**”, “**7**”, “**8**” and “**9**” buttons are used to set the DMX address for the LED’s. (see example below)

The “**R**”, “**G**”, and “**B**” buttons are used to set the brightness for the LEDs, to change the brightness use the “**+**” and “**-**” buttons.

DMX Address Examples:**To set the DMX address “245”;**

- 1) Press the “**S**” button, so the red LED’s come on, this means you can now start to set the DMX address.
- 2) Press the “**2**” button, so the green LED’s come on, this means the first digit “**2**” (the hundreds place) setting is successful.
- 3) Now Press the “**4**” button, and the blue LED’s will come on, this now means that the second digit “**4**” (tens place) setting is successful.
- 4) Now Press the “**5**” button, and all of the R/G/B LED’s will come on, this means that the final digit “**5**” (units place) setting is successful and the full DMX address setting has been changed.
- 5) Now press the “**DMX MODE**” button to save the new address into memory.

To set the DMX address “002”;

- 1) Press the “**S**” button, so the red LED’s come on, this means you can now start to set the DMX address.
- 2) Press the “**0**” button, so the green LED’s come on, this means the first digit “**0**” (the hundreds place) setting is successful.
- 3) Now Press the “**0**” button, and the blue LED’s will come on, this now means that the second digit “**0**” (tens place) setting is successful.
- 4) Now Press the “**2**” button, and all of the R/G/B LED’s will come on, this means that the final digit “**2**” (units place) setting is successful and the full DMX address setting has been changed.
- 5) Now press the “**DMX MODE**” button to save the new address into memory.

Important notes:

- Set the DMX address on each fixture before plugging into the DMX controller.
- The I.R Remote is not usable when the fixture(s) are being controlled by a DMX controller.
- The maximum transmitter distance is 10M. Please make sure that you have the I.R remote aimed directly at each fixture to be programmed,
- If you do not press the “**DMX MODE**” button after you have changed the DMX address, when you power down the fixture it will lose the address you have set.

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):

- The LEDJ Pro Spectra Batten 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 3-pin XLR connector for data input/output (figure 1).

Figure 1

DMX cables can be purchased from all LEDJ dealers.

Please quote:

LEDJ91 - 1M

LEDJ92 - 1M



Further exterior extension DMX cables can be purchased from all LEDJ dealers.

Please quote:

LEDJ140 - 1M

LEDJ142 - 2M

LEDJ143 - 5M

LEDJ144 - 10M

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

Notice:

• Be sure to follow figures 2 & 3 when making your own cables. Do not connect the cable's shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR's outer casing. Grounding the shield could cause a short circuit and erratic behaviour.

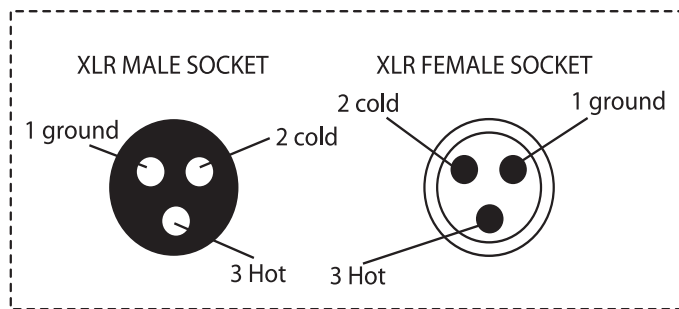
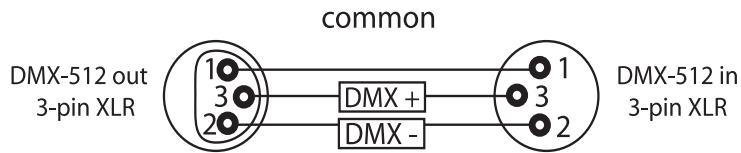


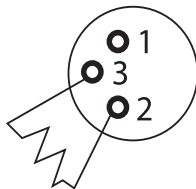
FIGURE 3

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

FIGURE 2

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.

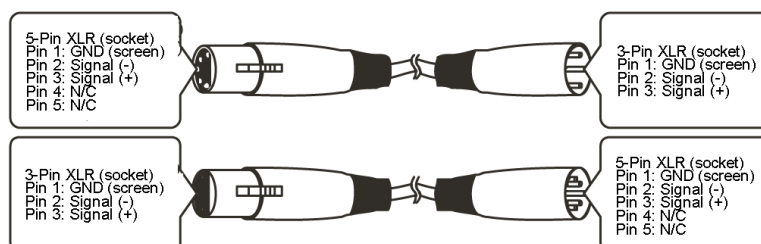


Termination reduces signal transmission problems and interference. it is always advisable to connect a DMX terminal, (resistance 120 Ohm 1/4 W) between pin 2 (DMX-) and pin 3 (DMX+) of the last fixture.

Using a cable terminator (part number CABL90) will decrease the possibilities of erratic behaviour.

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 Chart below details the correct cable conversion.





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