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Pro RGB

Spectra Batten 1.0m

(Order code: LEDJ75B)

User Manual

WARNING

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

CAUTION!

**Keep this equipment away from rain,
moisture and liquids.**

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
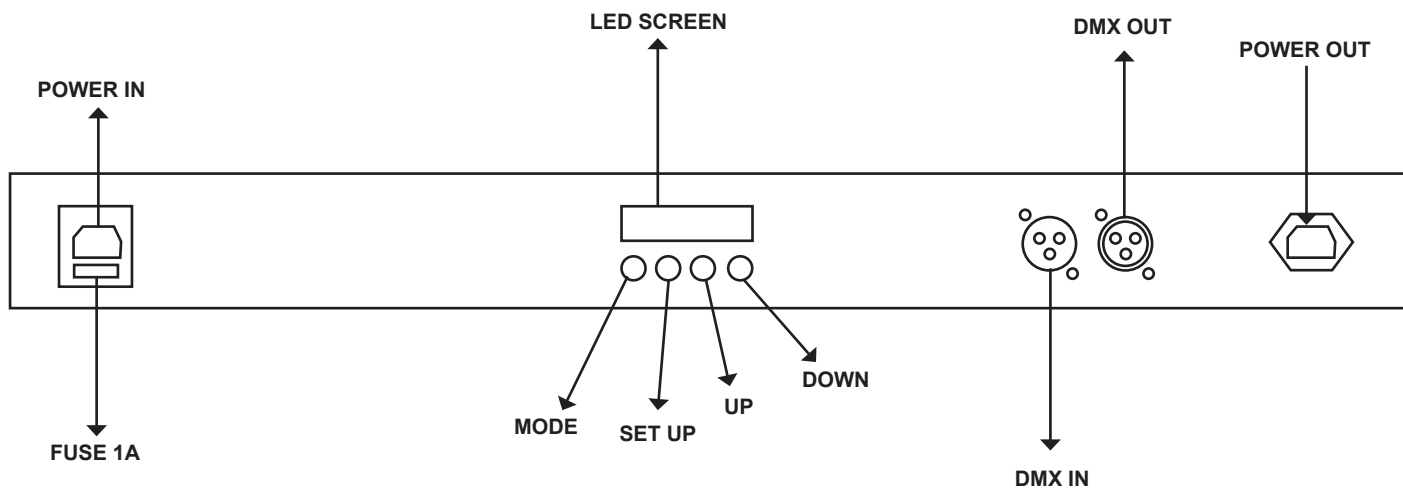equipment.**

- 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, 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 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 the equipment has been exposed to drastic temperature fluctuation (e.g. after transportation), do not 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, 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.

Over view:

LED SCREEN DMX OUT

POWER OUT

POWER IN

DOWN

UP

MODE SET UP

FUSE 1A

DMX IN

Operation:

After the power is switched on, Press the **"MODE"** button to activate the main menu:
Built-in programmes mode, Auto run mode, DMX mode, Slave mode or Sound active mode.

"SETUP" button is to change the settings of the current mode.
"UP" button is to increase the value of the current setting.
"DOWN" button is to decrease the value of the current setting.

Built-in programmes mode:

With the LEDJ Pro RGB Spectra Batten, you can select any one of seven different
built-in programmes.

First press the **"MODE"** button to show **"P---"** in the LED display. Then by using the **"UP"** and
"DOWN" buttons you can select one of the following 7 built-in programmes.

1, **"P100"** = Colour change > Speed adjustment > 00-99 (00 = slow, 99 = Fast)
2, **"P200"** = Colour chase > Speed adjustment > 00-99 (00 = slow, 99 = Fast)
3, **"P300"** = Colour Fade > Speed adjustment > 00-99 (00 = slow, 99 = Fast)
4, **"P400"** = Multi-colour chase > Speed adjustment > 00-99 (00 = slow, 99 = Fast)
5, **"P500"** = Fading flow > Speed adjustment > 00-99 (00 = slow, 99 = Fast)
6, **"P600"** = Two colour flow > Speed adjustment > 00-99 (00 = slow, 99 = Fast)
7, **"P700"** = Flash > Speed adjustment > 00-99 (00 = slow, 99 = Fast)

Once you have made your choice press the **"SET UP"** button to confirm the setting.

Static Colour selection mode

To activate the the static colour selection mode on the Pro RGB Spectra Batten, press the **"MODE"** button to show **"C---"** in the LED screen. Now by using the **"UP"** and **"DOWN"** buttons choose one of the following 4 options:

1, **"C100"** = Red > Brightness adjustment > 00-99 (00 = Low, 99 = High)
2, **"C200"** = Green > Brightness adjustment > 00-99 (00 = Low, 99 = High)
3, **"C300"** = Blue > Brightness adjustment > 00-99 (00 = Low, 99 = High)
4, **"CF00"** = Strobe > Speed adjustment > 00-99 (00 = Slow, 99 = Fast)

Once you have made your choice press the **"SET UP"** button to confirm the setting.

Auto run mode:

To select the Auto run mode, Press the **"MODE"** button until the LED display shows **"AUTO"**, it will now run through the built-in programmes automatically.

DMX mode:

To control the Pro RGB Spectra Batten via your DMX controller, press the **"MODE"** button until **"A001"**, is shown on the LED display, it is now in DMX mode. Now press the **"SETUP"** button so the LED display shows **"A001"**, this now means that the DMX address is set at 001. You can select your DMX address by using the **"UP"** and **"DOWN"** buttons. (A001-A512)

Once you have made your choice press the **"SET UP"** button to confirm the setting.

Blackout Mode:

To select the Blackout mode, press the **"SET UP"** button to show **"BLAC"** in the LED screen and press the **"SET UP"** button again to confirm the setting.

LED Display On/Off Mode:

To choose whether you want to have the LED screen On or Off, Press the **"MODE"** button to show **"LED"** in the LED display window and press the **"SET UP"** button to choose one of the two following options using the **"UP"** and **"DOWN"** buttons.

1) **"ON"** = The LED display will stay ON all of the time
2) **"OFF"** = The LED display will turn OFF after the setting has been confirmed

Once you have made your choice press the **"SET UP"** button to confirm the setting.

Slave Mode:

To activate the Slave Mode, press the **"MODE"** button to show **"SLAV"** in the LED screen, this will now run the Pro RGB Spectra Batten/s in slave mode.

Sound Active Mode:

To activate the Sound Active Mode, press the **"MODE"** button to select **"SU00"**, now the sound mode is activated it will run one step at a time, you can adjust the sensitivity by using the **"UP"** and **"DOWN"** buttons. **(Sensitivity: 00 - 99, 00 = low, 99 = high)**

DMX Values

	CH 1	CH 2	CH 3	CH 4	CH 5	CH 6	CH 7	CH 8	CH 9	CH 10	CH 11	CH 12
000	blackout	blackout	blackout	blackout	blackout	blackout	blackout	blackout	blackout	blackout	blackout	blackout
1 - 15 mode 1	master dimmer	0-255 strobe speed	0-255 dimmer red 1	0-255 dimmer green 1	0-255 dimmer blue 1	0-255 dimmer red 2	0-255 dimmer green 2	0-255 dimmer blue 2	0-255 dimmer red 3	0-255 dimmer green 3	0-255 dimmer blue 3
16 - 31 mode 2	master dimmer	0-255 strobe speed	0-255 dimmer all red	0-255 dimmer all green	0-255 dimmer all blue						
32 - 47 red	0-255 dimmer	0-255 strobe speed									
48 - 63 green	0-255 dimmer	0-255 strobe speed									
64 - 79 blue	0-255 dimmer	0-255 strobe speed									
80 - 95 purple	0-255 dimmer	0-255 strobe speed									
96 - 111 yellow	0-255 dimmer	0-255 strobe speed									
112-127 cyan	0-255 dimmer	0-255 strobe speed									
128-143 white	0-255 dimmer	0-255 strobe speed									
144-159 colour chase	0-255 chase speed	0-255 strobe speed									
160-175 colour flow	0-255 flow speed	0-255 strobe speed									
176-191 colour fade	0-255 fade speed	0-255 strobe speed									
192-207 multi colour flow	0-255 flow speed	0-255 strobe speed									
208-223 fade flow	0-255 flow speed	0-255 strobe speed	0-255 select colour	not used							
224-239 two colour flow	0-255 flow speed	0-255 strobe speed	0-255 select colour1	0-255 select colour2							
240-255 sound activated	0-255 sound sens	not used	not used	not used							

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.
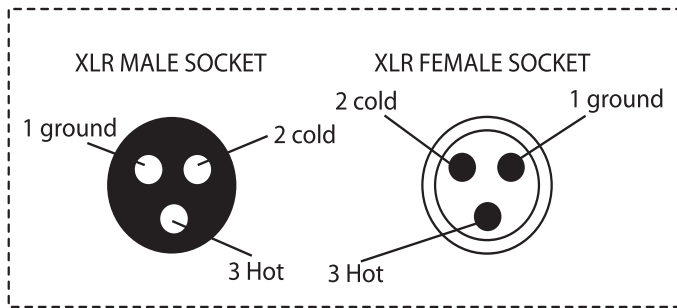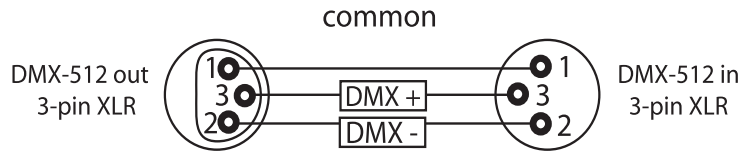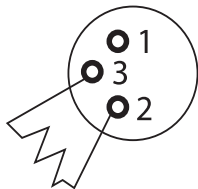

common

DMX-512 out
3-pin XLR

DMX +
DMX -

DMX-512 in
3-pin XLR

XLR MALE SOCKET

XLR FEMALE SOCKET

2 cold   1 ground

1 ground   2 cold

3 Hot   3 Hot

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 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.

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.

3- Pin XLR to 5-PIN XLR Conversion		
Conductor	**3-Pin XLR out**	**5-Pin XLR in**
Ground shield	Pin 1	Pin 1
Negative (-)	Pin 2	Pin 2
Positive (+)	Pin 3	Pin 3

Spectra Batten Specifications:

DMX channels: 12
LEDS: 27 Ultra Bright 1W LEDs (R: 9, G: 9, B: 9)
Beam angle: 30 degrees
3 pin female XLR socket and 3 pin male XLR socket
IEC power in and power out sockets
Linkable via 3-pin XLR cable
Built-in microphone
Black aluminium housing
4 push button LED display for easy operation.
Selectable built-in programmes mode, Auto run mode,
DMX mode, Slave mode, and Sound-activated mode.
Power consumption: 40W
Power supply: 240V - 50Hz
Size: 1018 x 63 x 87mm
Weight: 3kgs