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(Order code: LEDJ222)

USER MANUAL

WARNING

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

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 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.

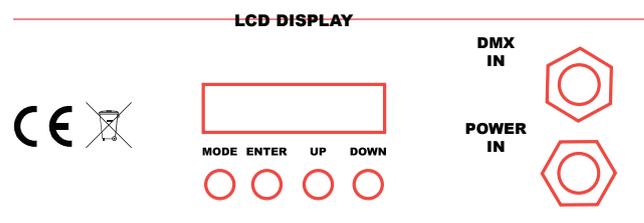
Do not endanger your own safety and the safety of others!
Incorrect installation or use can cause serious damage to people and property.

Introduction

Features

- DMX channels: 4/6/19 selectable
- 48 x 3W Ultra Bright RGBW LEDs (R: 12, G: 12, B: 12, W: 12)
- 14 built-in programmes
- 4 push button LCD display
- Master/Slave functions
- Auto run mode
- Power in/out connections
- DMX in/out connections
- Consumption: 84W
- Beam 25 degrees
- Power supply: 240V
- Dimensions: 1000 x 120 x 175mm
- Weight: 10.2Kgs

Overview



Setup

Operating Instructions

The Archi Bar 48 is a DMX-512 controllable unit made up of high efficiency and Ultra Bright RGBW LEDs and will operate in stand alone, master/slave or DMX control modes.

Operation modes

Dimming mode:

To activate the unit in dimming mode, press the **“MODE”** button to show **“DIMMING”** on the LCD screen. Now press the **“ENTER”** button to set the brightness of the LEDs by using the **“UP”** and **“DOWN”** buttons.

Press the **“ENTER”** button once for the Red LEDs, twice for Green LEDs, three for Blue LEDs and four for the White LEDs. Each of the colours can be set from 00 - 99 by using the **“UP”** and **“DOWN”** buttons. Press the **“ENTER”** button once more to select the desired flash value and adjust by using the **“UP”** and **“DOWN”** buttons.

Brightness levels 00-99 (00 = low, 99 = high), Flash values: 00 - 99 (00 = slow, 99 = fast)

Auto run mode:

To activate the unit in auto run mode, press the **“MODE”** button to show **“AUTO RUN”** on the LCD screen. Now press the **“ENTER”** button to select the desired frequency level by using the **“UP”** and **“DOWN”** buttons.

“FQN” 01-99 (01 = low, 99 = high)

Note: In this mode, it will run 13 built-in programmes in a continuous loop.

Slave mode:

To activate the unit in slave mode, first you must link multiple units together and press the **“MODE”** button to show **“SLAVE MODE”** on the LCD screen. Now on the master unit press the **“MODE”** button to select the desired mode and the slave units will now run in sequence with the master unit.

Built-in programmes:

To activate the units built-in programmes, press the **“MODE”** button to show **“01.DIMMING”** on the LCD screen. Press the **“ENTER”** button to choose between the 14 built-in programmes by using the **“UP”** and **“DOWN”** buttons. Now press the **“ENTER”** button to select the desired speed and adjust by using the **“UP”** and **“DOWN”** buttons. Press the **“ENTER”** button once more to select the desired flash value and adjust by using the **“UP”** and **“DOWN”** buttons.

Speed values: 00 - 99 (00 = slow, 99 = fast), Flash values: 00 - 99 (00 = slow, 99 = fast)

For the 14 built-in programmes please see page 5.

DMX mode:

To activate the unit in DMX mode, press the **“MODE”** button to show **“DMX MODE”** on the LCD screen. Press the **“ENTER”** button and select the desired DMX address setting by using the **“UP”** and **“DOWN”** buttons. Then to select one of the 3 DMX modes 19, 6 or 4 channel, press the **“ENTER”** button again to choose the desired DMX mode by using the **“UP”** and **“DOWN”** buttons.

For the 4, 6, and 19 channel DMX address information please see pages 6 & 7.

NOTE: Once the desired settings have been selected in each of the above modes, **ALWAYS** confirm the settings by pressing the **“ENTER”** button.

14 Built-in programme chart

01. Dimming Blackout - Full on Flash 00 - 99	Red: 00-99, Green: 00-99, Blue: 00-99, White: 00-99 Flash adjustable
02. Colour Jump Speed 00 - 99, Flash 00 - 99	7 colour change Speed & Flash adjustable
03. Colour Fade Speed 00 - 99, Flash 00 - 99	7 colour fade in, fade out Speed & Flash adjustable
04. Dream Speed 00 - 99, Flash 00 - 99	7 colour fade Speed & Flash adjustable
05. Colour Flow Speed 00 - 99, Flash 00 - 99	7 colour chase (forward & reverse) Speed & Flash adjustable
06. Over Flow Speed 00 - 99, Flash 00 - 99	7 colour chase in relay pattern (forward & reverse) Speed & Flash adjustable
07. Colour Chase Speed 00 - 99, Flash 00 - 99	7 colour chase (forward) Speed & Flash adjustable
08. Multi-colour Speed 00 - 99, Flash 00 - 99	Multi-colour relay chase Speed & Flash adjustable
09. Fade Flow Speed 00 - 99, Flash 00 - 99	7 colour fade relay chase Speed & Flash adjustable
10. Two Flow Speed 00 - 99, Flash 00 - 99	2 colour relay chase Speed & Flash adjustable
11. One Way Speed 00 - 99, Flash 00 - 99	7 colour relay chase Speed & Flash adjustable
12. Two Way Speed 00 - 99, Flash 00 - 99	7 colour relay chase (criss cross) Speed & Flash adjustable
13. Two colour Speed 00 - 99, Flash 00 - 99	7 multi-colour relay chase (criss cross) Speed & Flash adjustable

4 channel mode DMX chart

CH1	CH2	CH3	CH4
R 0-255	G 0-255	B 0-255	W 0-255

6 channel mode DMX chart

CH1	CH2	CH3	CH4	CH5	CH6
R 0-255	G 0-255	B 0-255	W 0-255	Master Dimmer 0-255	0-10 - On 11-255 - Flash

19 channel mode DMX chart

CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8	CH9	CH10	CH11	CH12	CH13	CH14	CH15	
0-5 black out															
6-10 dimmer	Dimmer 0-255	Flash 0-255	R 0-255	G 0-255	B 0-255	W 0-255									
11-15 dimmer			R1 0-255	G1 0-255	B1 0-255	W1 0-255	R2 0-255	G2 0-255	B2 0-255	W2 0-255	R3 0-255	G3 0-255	B3 0-255	W3 0-255	
16-20 Red															
21-25 Green															
26-30 Blue															
31-35 White															
36-40 R/W															
41-45 R/G															
46-50 R/B															
51-55 G/B															
56-60 W/B															
61-65 W/G															
66-70 R/G/B															
71-75 R/G/W															
76-80 R/B/W															
81-85 G/B/W															
86-90 R/G/B/W															
91-100 R/G/B/W	Speed 0-255	Flash 0-255													
101-110 Colour jump															
111-120 Dream															
121-130 Colour flow															
131-140 Over Lap flow															
141-150 Colour chase															
151-160 Multi-colour															
161-170 Fade flow															
171-180 Two flow															
181-190 One way															
191-200 Two way															
201-210 Two colour															
211-255 N/A															

CH1	CH2	CH3					CH16	CH17	CH18	CH19
11-15 dimmer	Dimmer 0-255	Flash 0-255					R4 0-255	G4 0-255	B4 0-255	W4 0-255

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 Archi Bar 48 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 (figure 1).

Figure 1

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

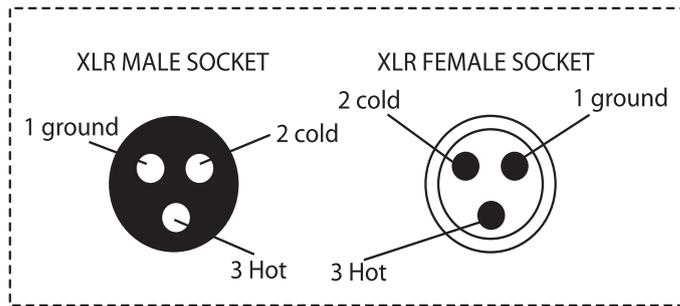
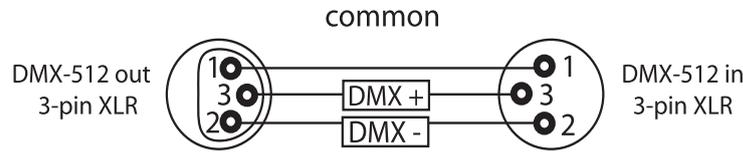


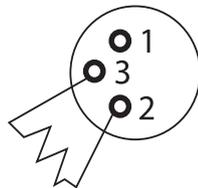
FIGURE 3

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.

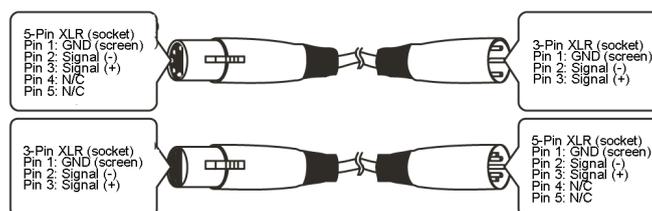


Termination reduces signal transmission problems and interference. it is always advisable to connect a DMX terminal, (resistance 120 Ohm 1/4 W) between pin 2 (DMX-) and pin 3 (DMX+) of the last fixture.

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.



Technical Specifications

Weight & Dimensions

- Length.....1000mm
- Width.....120mm
- Height.....175mm
- Weight.....10.2sKgs

Power

- AC input.....240V/50hz
- Power consumption.....84W

• **Fuse**

- Main.....F2A

Control & Programming

- Data input.....Locking 3-pin XLR male socket
- Data output.....Locking 3-pin XLR female socket
- Protocols.....DMX-512 USITT
- DMX channels.....19, 6 and 4



CREATE THE RIGHT EFFECT

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