℮lumen8

60W Tri Par 64
User Manual

Code: ELUM101

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.
- 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 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.

Overview:

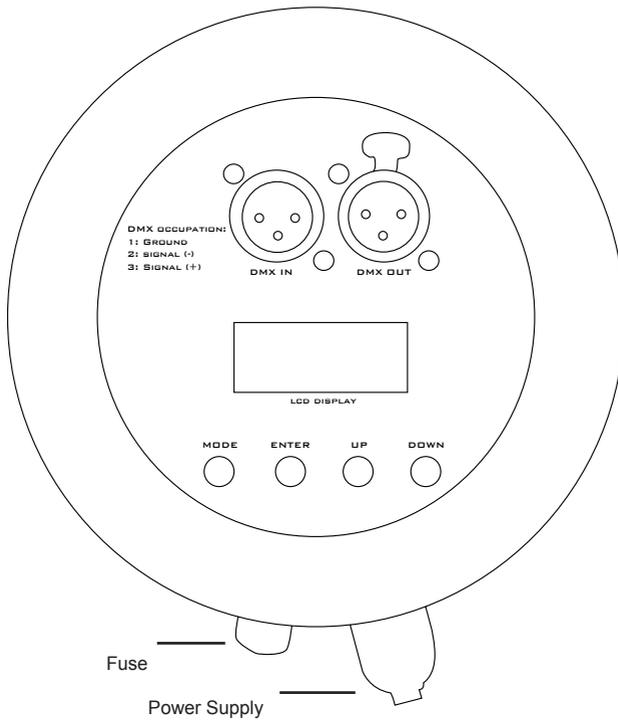You should find inside the Elumen8 carton the following items**:**

1, LED 60W Tri Par 64   2, Instruction manual

Technical Specifications:

DMX channels: 3 or 5 selectable
1 x 60W Tri LED
Static, sound active, master/slave and DMX modes
2 dimmer curves
400Hz refresh rate
3-pin XLR in/out sockets
4 push button menu with LCD display
Beam angle: 60 degrees
Power supply: 110-240V-50/60HZ
Power consumption: 86W
Dimensions: 390 x 240 x 195mm
Weight: 2.6Kgs

Operating modes: 1, Dimming 0-100%
                          2, DMX
                          3, Master/slave
                          4, Channel select
                          5, Dimming curves

Overview:

DMX OCCUPATION:
1: GROUND
2: SIGNAL (-)
3: SIGNAL (+)

DMX IN   DMX OUT

LCD DISPLAY

MODE   ENTER   UP   DOWN

Fuse

Power Supply

Operation:

Built-in programmes:
To activate the units built-in programmes, press the **"MODE"** button to show **"01.STATIC"** on the LCD screen. Press the **"ENTER"** button to choose between the 4 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)

Programme 1 - Static colour
In this mode you can set the 60W Tri Par to any colour and any brightness.
When you are in the **"01.STATIC"** mode, press the **"ENTER"** button to change the brightness of each individual colour.

The **"R"** represents Red, **"G"** = Green, **"B"** = Blue and **"F"** = strobe.
The two digits after it are the brightness 00 to 99 or in "CF" they are the strobe speed.

Example: If you set R, G, and B all to zero, the 60W Tri will have no LEDs showing (blackout).
If you set R to 99 and G, and B to zero the 60W Tri will be 100% Red.

Programme 2 - 7 colour change
In this mode the 60W Tri Par will run through its 7 preset colours.

Programme 3 - 3 colour change
In this mode the 60W Tri Par will run through its 3 colours.

Programme 4 - colour fade
In this mode the 60W Tri Par will fade through its 7 preset colours.

2. Dimmer Response
Press **"MODE"** until you get to **"Dimmer Response"**, press the **"ENTER"** button and use the **"UP/DOWN"** buttons to choose between Dimmer Response 01 or 02.

01 = Dimmer curve linear response LED
02 = Dimmer curve linear response Halogen

3. DMX Channel Mode
Press the **"MODE"** button until **"Channel"** is shown on the LCD display. Press the **"ENTER" button** and use the **"UP/DOWN"** buttons to select between 3 and 5 channel modes.

4. 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.

5. Sound Active Mode
To activate the units sound active mode, first press the "**MODE**" button until the **"SOUND SENS"** is displayed. Press **"ENTER"** and use the **"UP/DOWN"** buttons to change the amount of sensitivity between 00 and 31.

6. DMX Mode
To enter the DMX mode, press the **"MODE"** button to show **"DMX MODE"** on the LCD display. Now press the **"ENTER"** button and use the **"UP"** and **"DOWN"** buttons to select the DMX address from 001-512.

When you are happy with your setting, press the **"ENTER"** button to confirm it.

DMX Charts

3 channel mode:

Channel	Value	Function
CH1	0-255	Red 0-100%
CH2	0-255	Green 0-100%
CH3	0-225	Blue 0-100%

5 channel mode:

Channel	Value	Function
CH1	0-255	Red
CH2	0-255	Green
CH3	0-255	Blue
CH4	0-255	Master Dimming 0-100%
CH5	0-255	Strobe Slow-Fast

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 form 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 60W Tri Par 64 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

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.
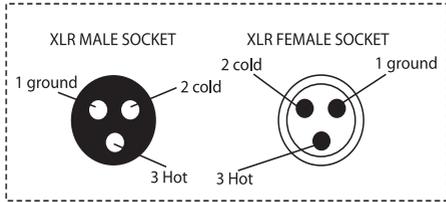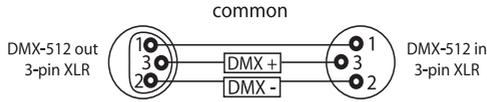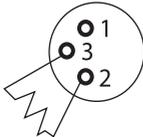
common

DMX-512 out
3-pin XLR

1
3
2

DMX +
DMX -

1
3
2

DMX-512 in
3-pin XLR

XLR MALE SOCKET

1 ground

2 cold

3 Hot

XLR FEMALE SOCKET

2 cold

1 ground

3 Hot

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

FIGURE 3

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.
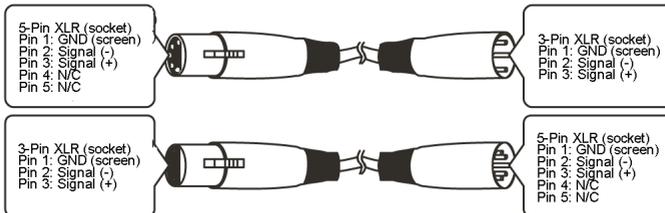
1
3
2

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.

5-Pin XLR (socket)
Pin 1: GND (screen)
Pin 2: Signal (-)
Pin 3: Signal (+)
Pin 4: N/C
Pin 5: N/C

3-Pin XLR (socket)
Pin 1: GND (screen)
Pin 2: Signal (-)
Pin 3: Signal (+)

3-Pin XLR (socket)
Pin 1: GND (screen)
Pin 2: Signal (-)
Pin 3: Signal (+)

5-Pin XLR (socket)
Pin 1: GND (screen)
Pin 2: Signal (-)
Pin 3: Signal (+)
Pin 4: N/C
Pin 5: N/C

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