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ALU QUAD PAR 64

Order code: LEDJ113

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.
- 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.

Setup

Operating Instructions

The Alu Quad Par 64 is a DMX-512 controllable, full RGBW/RGBA colour mixing Par Can made up of high efficiency and super bright 8W LEDs. There are two four colour groups (RGBW and RGBA) whose intensity can be controlled individually allowing the creation of an unlimited range of colours.

The Alu Quad Par 64 will operate in Stand-alone, Master/Slave, Sound activated and DMX-512 control modes.

Operations:

There are 5 different operation modes to choose from:

- 1) **Static colour mode** 2) **Built-in programme mode** 3) **Sound active mode**
4) **DMX mode** 5) **Master/slave**

1). Static colour mode

By pressing the “**MODE**” button under the LED display, the LED display will show “**C01**”, then you can select one of the 30 static colours using the “**UP**” and “**DOWN**” buttons.

2). Built-in programme mode

Press the **MODE** button until the LED display shows “**P01**”, now use the “**UP**” and “**Down**” buttons to select one of the 6 built-in programmes. For the built-in programme list, please see the built-in programme chart over leaf.

3). Sound active

Press the **MODE** button until the LED display shows “**S01**”, the unit will then run in Sound Active mode. Select the sensitivity level from 00 - 99 via the “**UP**” and “**Down**” buttons.

Please note: The higher the value the more sensitive it will be and is set to “S50” as default.

4). DMX mode

To access any of the 4 DMX channel modes, press the **MODE** button until the LED display shows “**3CH**”, now use the “**UP**” and “**Down**” buttons to select either the 3, 5, 7 or 8 channel DMX modes. The DMX values and functions are as follows over leaf.

To set the units address, press the **MODE** button to show “**001**” on the LED display. Now use the “**UP**” and “**Down**” buttons to set the desired address from “**001**” to “**512**”.

5) Master/slave mode

To set the unit into slave mode, set the slave units address to “**001**”. The slave unit(s) will now follow in sequence with the master unit.

To set the unit as a master simply use any of the above modes.

DMX Charts**3 channel DMX chart**

CHANNEL	VALUE	FUNCTION
1	0-7	Blackout
	8-255	30 preset static colours
2	0-255	Master dimmer 0-100%
3	1-5	Sound mode
	6-10	On
	11-255	Strobe (slow to fast)

5 channel DMX chart

CHANNEL	VALUE	FUNCTION
1	0-255	Red 0-100%
2	0-255	Green 0-100%
3	0-255	Blue 0-100%
4	0-255	Amber 0-100%
5	0-255	White 0-100%

7 channel DMX chart

CHANNEL	VALUE	FUNCTION
1	0-255	Red 0-100%
2	0-255	Green 0-100%
3	0-255	Blue 0-100%
4	0-255	Amber 0-100%
5	0-255	White 0-100%
6	0-255	Master dimmer 0-100%
7	0	On
	1-5	Sound mode (7 colours)
	6-10	On
	11-255	Strobe (slow to fast)

DMX Charts**8 channel DMX chart**

CHANNEL	VALUE	FUNCTION
1	0-255	Red 0-100%
2	0-255	Green 0-100%
3	0-255	Blue 0-100%
4	0-255	Amber 0-100%
5	0-255	Red 0-100%
6	0-255	Green 0-100%
7	0-255	Blue 0-100%
8	0-255	White 0-100%

Built-in programme chart

MODE	OPERATION
P01	5 colour change, every 3 seconds
P02	30 colour change, every 3 seconds
P03	5 colour fade, in every 3 seconds
P04	30 colour fade, every 3 seconds
P05	five colour change via sound
P06	30 colour change via sound

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 Alu Quad Par 64 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.

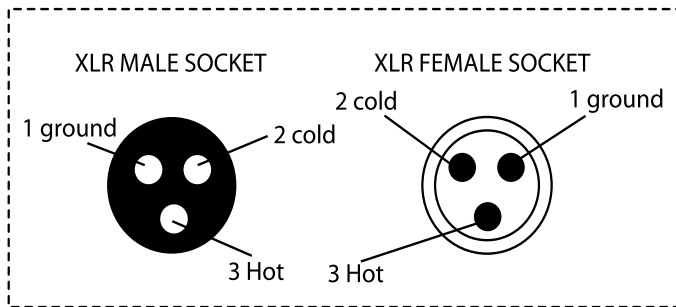
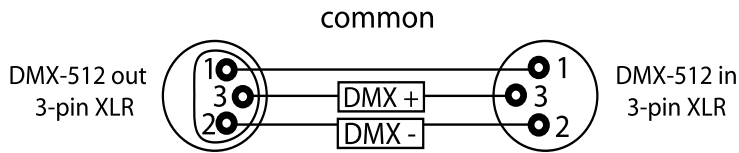


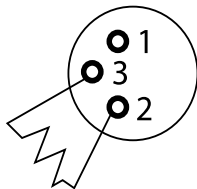
FIGURE 3

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.

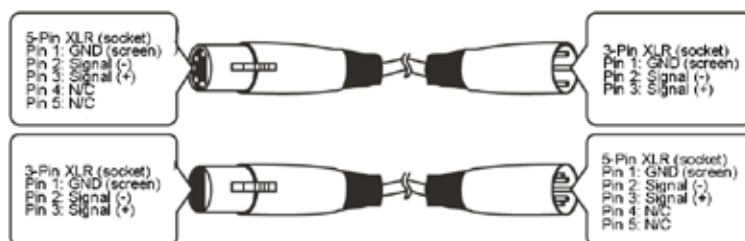


Termination reduces signal transmission problems and interference. it is always advisable to connect a DMX terminal, (resistance 120 Ohm 1/4 W) between pin 2 (DMX-) and pin 3 (DMX+) of the last fixture.

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.....300mm
- Width.....270mm
- Height.....220mm
- Weight.....4.3kgs

Power

- AC input.....AC 120V/240V, 50/60Hz

Fuse

- Main.....20mm Glass 2A Fast Blow

Control & Programming

- Data input.....Locking 3-pin XLR male socket
- Data output.....Locking 3-pin XLR female socket
- Protocols.....DMX-512 USITT
- DMX channels.....3/5/7 and 8 selectable