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COLOUR STORM

QUAD

(Order code: LEDJ168)

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!

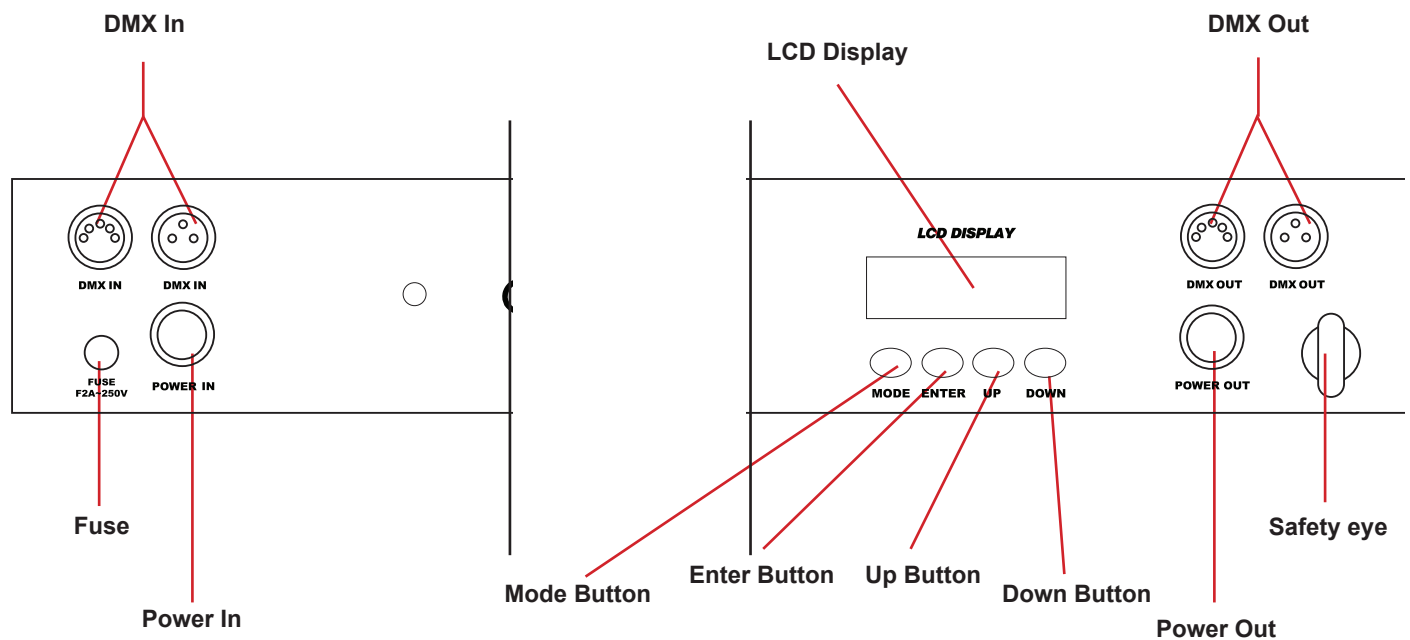
Incorrect installation or use can cause serious damage to people and property.

Introduction

Features

- DMX channels: 4/6/7/11/19/64 and 67 selectable
- LEDs: 16 x Mega Bright 8W quad-colour LEDs
- Sound active, auto run, master/slave and DMX modes
- 400Hz flicker free LEDs
- Powercon in/out sockets
- 3-Pin XLR in/out sockets
- 5-pin XLR in/out sockets
- 4 push button LCD display
- 0-100% dimming
- Long life LEDs
- Beam angle: 25 degrees

Overview



Setup

Operating Instructions

The Colour Storm Quad is a DMX-512 controllable unit made up of high efficiency and Ultra Bright Quad-colour LEDs and will operate in auto run, master/slave, sound activated or DMX control modes.

Operation modes

Sound Active mode:

To activate the unit in sound active mode, press the **"MODE"** button to show **"SOUND MODE"** on the LCD screen. Now press the **"ENTER"** button to select the desired sensitivity level by using the **"UP"** and **"DOWN"** buttons. Press the **"ENTER"** button again to select the frequency level and adjust by using the **"UP"** and **"DOWN"** buttons.

"SENS" 00 - 31 (00 = low, 31 = high)

"FQN" 01-99 (01 = low, 99 = high)

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.STATIC"** 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 5 DMX modes 4, 6, 7, 11, 19, 64 or 67 channel, press the **"ENTER"** button again to choose the desired DMX mode by using the **"UP"** and **"DOWN"** buttons.

For the 4, 6, 7, 11, 19, 64 or 67 channel DMX address information please see pages 6, 7 & 8.

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

STATIC COLOR BLACKOUT - RGBW Flash00-99	BLAC= Blackout, R=Red, G=Green, B=Blue, W=White, RG=Yellow, GB=Cyan, BW=L-Blue, RW=Pink, GW=L-Green, RB=Purple, RGB=White, GBW=L-Cyan, RGW=L-Yellow, RBW=L-Purple RGBW=White
DREAM Speed 00-99 Flash 00-99	15 colour fade Speed & Flash adjustable
METEOR Speed 00-99 Flash 00-99	15 colour flow Speed & Flash adjustable
FADE Speed 00-99 Flash 00-99	15 colour Fade in, fade out Speed & Flash adjustable
CHANGE Speed 00-99 Flash 00-99	15 colour change Speed & Flash adjustable
FLOW 1 Speed 00-99 Flash 00-99	15 colour chase (forward) Speed & Flash adjustable
FLOW 2 Speed 00-99 Flash 00-99	15 colour chase (forward & reverse) Speed & Flash adjustable
FLOW 3 Speed 00-99 Flash 00-99	15 colour fade chase in relay pattern (forward) Speed & Flash adjustable
FLOW 4 Speed 00-99 Flash 00-99	15 colour fade chase in relay pattern (forward & reverse) Speed & Flash adjustable
FLOW 5 Speed 00-99 Flash 00-99	15 colour chase from sides to centre Speed & Flash adjustable
FLOW 6 Speed 00-99 Flash 00-99	15 colour chase from centre to sides Speed & Flash adjustable
FLOW 7 Speed 00-99 Flash 00-99	15 colour rotating chase Speed & Flash adjustable
FLOW 8 Speed00-99 Flash 00-99 1.BLA- RGBW 2. BLA-RGBW	Two colour chase (forward) Speed & Flash adjustable BLAC= Blackout, R=Red, G=Green, B=Blue, W=White, RG=Yellow, GB=Cyan, BW=L-Blue, RW=Pink, GW=L-Green, RB=Purple, RGB=White, GBW=L-Cyan, RGW=L-Yellow, RBW=L-Purple RGBW=White
FLOW 9 Speed00-99 Flash 00-99 1.BLA- RGBW 2. BLA-RGBW	Two colour chase (forward & reverse) Speed & Flash adjustable BLAC= Blackout, R=Red, G=Green, B=Blue, W=White, RG=Yellow, GB=Cyan, BW=L-Blue, RW=Pink, GW=L-Green, RB=Purple, RGB=White, GBW=L-Cyan, RGW=L-Yellow, RBW=L-Purple RGBW=White

4 channel DMX chart

CH1	CH2	CH3	CH4
All Red 0-255	All Green 0-255	All Blue 0-255	All White 0-255

6 channel DMX chart

CH1	CH2	CH3	CH4	CH5	CH6
All Red 0-255	All Green 0-255	All Blue 0-255	All White 0-255	Master Dimmer 0-255	Flash 0-255

7 channel DMX chart

CH1	CH2	CH3	CH4	CH5	CH6	CH7
0-15	Master Dimmer 0-255	Flash 0-255	All Red 0-255	All Green 0-255	All Blue 0-255	All White 0-255
16-23 Red		Flash 0-255				
24-31 Green		Flash 0-255				
32-39 Blue		Flash 0-255				
40-47 White		Flash 0-255				
48-55 Yellow		Flash 0-255				
56-63 Cyan		Flash 0-255				
64-71 light Blue		Flash 0-255				
72-79 Pink		Flash 0-255				
80-87 Light Green		Flash 0-255				
88-95 Purple		Flash 0-255				
96-103 White, rgb		Flash 0-255				
104-111 Light green		Flash 0-255				
112-119 Light yellow		Flash 0-255				
120-127 Light purple		Flash 0-255				
128-135 White, rgbw		Flash 0-255				
136-143 Dream	Speed 0-255	Flash 0-255				
144-151 Meteor	Speed 0-255	Flash 0-255				
152-159 Fade	Speed 0-255	Flash 0-255				
160-167 Change	Speed 0-255	Flash 0-255				
168-175 Flow 1	Speed 0-255	Flash 0-255				
176-183 Flow 2	Speed 0-255	Flash 0-255				
184-191 Flow 3	Speed 0-255	Flash 0-255				
192-199 Flow 4	Speed 0-255	Flash 0-255				
200-207 Flow 5	Speed 0-255	Flash 0-255				
208-215 Flow 6	Speed 0-255	Flash 0-255				
216-223 Flow 7	Speed 0-255	Flash 0-255				
224-231 Flow 8	Speed 0-255	Flash 0-255	Colour select 0-255	Colour select 0-255		
232-239 Flow 9	Speed 0-255	Flash 0-255	Colour select 0-255	Colour select 0-255		
240-255 Sound	Sensitivity 0-255					

Note that from address 0-15 and 16 - 255 also applies to DMX channel modes 67, 19 and 11.

11 channel DMX chart

CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8	CH9	CH10	CH11
0-15	Master Dimmer 0-255	Flash 0-255	R1 0-255	G1 0-255	B1 0-255	W1 0-255	R2 0-255	G2 0-255	B2 0-255	W2 0-255

19 channel DMX chart

CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8	CH9	CH10	CH11	CH12	CH13	CH14	CH15
0-15	Master Dimmer 0-255	Flash 0-255	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

CH16	CH17	CH18	CH19
R4 0-255	G4 0-255	B4 0-255	W4 0-255

64 channel DMX chart

CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8	CH9	CH10	CH11	CH12	CH13	CH14	CH15
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	R4 0-255	G4 0-255	B4 0-255

CH16	CH17	CH18	CH19	CH20	CH21	CH22	CH23	CH24	CH25	CH26	CH27	CH28	CH29	CH30
W4 0-255	R5 0-255	G5 0-255	B5 0-255	W5 0-255	R6 0-255	G6 0-255	B6 0-255	W6 0-255	R7 0-255	G7 0-255	B7 0-255	W7 0-255	R8 0-255	G8 0-255

CH31	CH32	CH33	CH34	CH35	CH36	CH37	CH38	CH39	CH40	CH41	CH42	CH43	CH44	CH45
B8 0-255	W8 0-255	R9 0-255	G9 0-255	B9 0-255	W9 0-255	R10 0-255	G10 0-255	B10 0-255	W10 0-255	R11 0-255	G11 0-255	B11 0-255	W11 0-255	R12 0-255

CH46	CH47	CH48	CH49	CH50	CH51	CH52	CH53	CH54	CH55	CH56	CH57	CH58	CH59	CH60
G12 0-255	B12 0-255	W12 0-255	R13 0-255	G13 0-255	B13 0-255	W13 0-255	R14 0-255	G14 0-255	B14 0-255	W14 0-255	R15 0-255	G15 0-255	B15 0-255	W15 0-255

CH61	CH62	CH63	CH64
R16 0-255	G16 0-255	B16 0-255	W16 0-255

67 channel DMX chart

CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8	CH9	CH10	CH11	CH12	CH13	CH14	CH15
0-15	Master Dimmer 0-255	Flash 0-255	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

CH16	CH17	CH18	CH19	CH20	CH21	CH22	CH23	CH24	CH25	CH26	CH27	CH28	CH29	CH30
R4 0-255	G4 0-255	B4 0-255	W4 0-255	R5 0-255	G5 0-255	B5 0-255	W5 0-255	R6 0-255	G6 0-255	B6 0-255	W6 0-255	R7 0-255	G7 0-255	B7 0-255

CH31	CH32	CH33	CH34	CH35	CH36	CH37	CH38	CH39	CH40	CH41	CH42	CH43	CH44	CH45
W7 0-255	R8 0-255	G8 0-255	B8 0-255	W8 0-255	R8 0-255	G9 0-255	B9 0-255	W9 0-255	R10 0-255	G10 0-255	B10 0-255	W10 0-255	R11 0-255	G11 0-255

CH46	CH47	CH48	CH49	CH50	CH51	CH52	CH53	CH54	CH55	CH56	CH57	CH58	CH59	CH60
B11 0-255	W11 0-255	R12 0-255	G12 0-255	B12 0-255	W12 0-255	R13 0-255	G13 0-255	B13 0-255	W13 0-255	R14 0-255	G14 0-255	B14 0-255	W14 0-255	R15 0-255

CH61	CH62	CH63	CH64	CH65	CH66	CH67
G15 0-255	B15 0-255	W15 0-255	R16 0-255	G16 0-255	B16 0-255	W16 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 Colour Storm Quad 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.

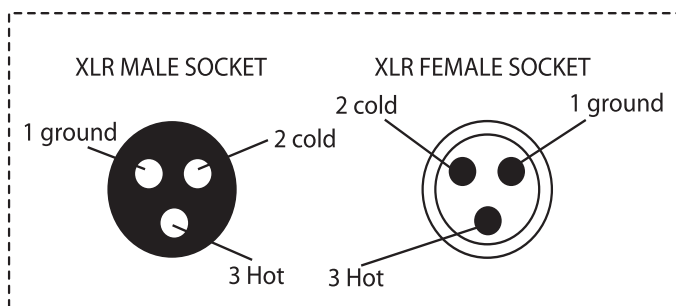
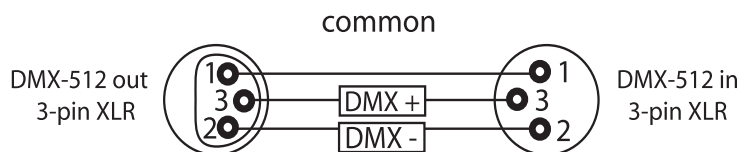


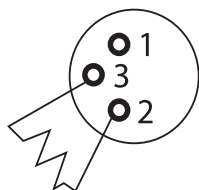
FIGURE 3

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.

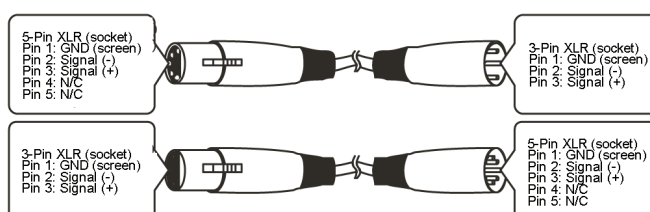


Termination reduces signal transmission problems and interference. it is always advisable to connect a DMX terminal, (resistance 120 Ohm 1/4 W) between pin 2 (DMX-) and pin 3 (DMX+) of the last fixture.

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

- With brackets.....1120 x 165 x 176mm
- Without brackets.....1066 x 165 x 89mm

- Weight.....7.3Kgs

Power

- AC input.....240V/50hz
- Power consumption.....196W

Fuse

- Main.....F2A

Control & Programming

- Data input.....Locking 3/5-pin XLR male socket
- Data output.....Locking 3/5-pin XLR female socket
- Protocols.....DMX-512 USITT
- DMX channels.....4, 6, 7, 11, 19, 64 and 67