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octoblox

(Order code: LEDJ94)

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.

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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 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.
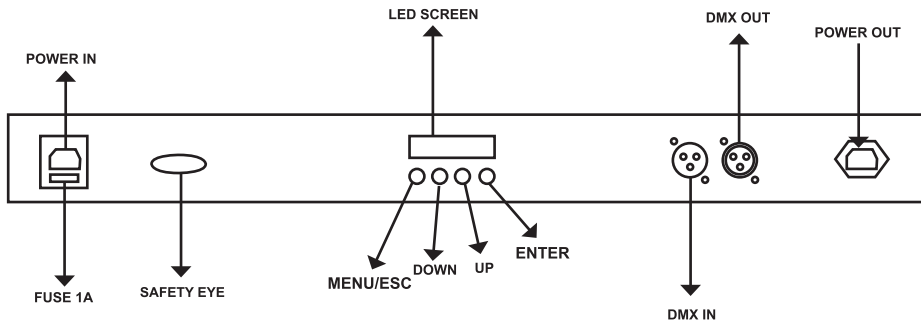
Incorrect operation may lead to danger e.g.: short-circuit, burns, electric shocks, lamp failure etc.

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

Overview:

```
              LED SCREEN              DMX OUT    POWER OUT

POWER IN




FUSE 1A    SAFETY EYE    MENU/ESC  DOWN  UP  ENTER

                                              DMX IN
```

Operation:

After the power is switched on, Press the **"MENU/ESC"** button to access the main menu:
DMX mode, Auto run mode, DMX channel selection mode, Preset colour mode, Sound active mode,
Slave mode or Software mode.

• The **"MENU/ESC"** button is to access or return to the main menu.
• The **"UP"** button is to increase the value of the current setting or to scroll up through the different modes.
• The **"DOWN"** button is to decrease the value of the current setting or to scroll down through the different modes.
• The **"ENTER"** button is to access each mode.

DMX mode:

To control the Octoblox via your DMX controller, press the **"MENU/ESC"** button until **"Addr"**, is shown on the LED display, it is now in DMX mode. Now press the **"ENTER"** 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)

Note: When in this mode the first **"DOT"** on the LED display will blink continuously showing that it is receiving DMX data. If it is not blinking it is **NOT** receiving any DMX data from the controller.

To set the unit in one of the channel modes 3/5/8/14/24 or 26 see **DMX channel selection mode**.

Auto run mode:

To set the Octoblox in Auto run, press the **"MENU/ESC"** button and use the **"UP"** and **"DOWN"** buttons until **"AUto"** is shown on the LED display. Press the **"ENTER"** button to choose from one of the three auto run modes, **"AUt1"**, **"AUt2"** or **"AUt3"**. Now press the **"ENTER"** button a second time and you can set the desired speed **"SP 1"** (slow) to **"SP 9"** (fast) using the **"UP"** and **"DOWN"** buttons.

Note: In order to return to the main menu in any of the modes press the "MENU/ESC" button.

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DMX channel selection mode:

In this DMX channel selection mode you can set the Octoblox into one of the following DMX channel modes;

1) 3CH mode, 2) 5CH mode, 3) 8CH mode, 4) 14CH mode,   5) 24CH mode, 6) 26CH mode

First press the **"MENU/ESC"** button and use the **"UP"** and **"DOWN"** buttons until until **"Chnd"**, is shown on the LED display, now press the **"ENTER"** button to choose one of the DMX channel modes using the **"UP"** and **"DOWN"** buttons.

For the DMX channel mode functions see overleaf.

Preset colour mode:

To access the Preset colour mode First press the **"MENU/ESC"** button and use the **"UP"** and **"DOWN"** buttons until **"Colo"**, is shown on the LED display, now press the **"ENTER"** button to choose one of the of the preset colours from **"Col1"** - **"Col9"** or choose **"Atf"** to adjust the individual RGB colour intensity using the **"UP"** and **"DOWN"** buttons.

Note: In the **"Atf"** mode, to adjust the brightness of the RGB LEDs, press the **"ENTER"** button to choose one of the three colours; "**red" = Red, "Gree" = green and "blue" = Blue** using the **"UP"** and **"DOWN"** buttons. Now to select the desired colour press the **"ENTER"** button and use the **"UP"** and **"DOWN"** buttons to set the intensity. (ooo = off, 255 = full on)

Sound active mode:

To access the Sound active mode First press the **"MENU/ESC"** button and use the **"UP"** and **"DOWN"** buttons until **"SoUn"** is shown on the LED display. Now press the **"ENTER"** button to choose one of the of the sound active modes from **"SoU1"** - **"SoU3"** using the **"UP"** and **"DOWN"** buttons. To set the sensitivity level on the chosen mode, press the **"ENTER"** button and use the **"UP"** and **"DOWN"** buttons to set the sensitivity from **"Sen1"** - **"Sen9"**

Slave mode:

To set the unit in Slave mode**,** press the **"MENU/ESC"** button and use the **"UP"** and **"DOWN"** buttons until **"Slav"** is shown on the LED display. Now press the **"ENTER"** button to choose **"SLA"**. The unit will now be set into slave mode and follow in sync with the master unit.

Software version mode:

This mode displays the software version of the unit.
To access this mode, press the **"MENU/ESC"** button and use the **"UP"** and **"DOWN"** buttons until **"uEr"** is shown on the LED display. Now press the **"ENTER"** button to show the version number, e.g. "12".

Note: In order to return to the main menu in any of the modes press the **"MENU/ESC"** button.

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DMX chart modes:

Channels	3 Channel mode	5 Channel mode	8 Channel mode	14 Channel mode	24 Channel mode	26 Channel mode	Features
	1	3	3	3	1	3	Red
	2	4	4	4	2	4	Green
	3	5	5	5	3	5	Blue
			6	6	4	6	Red
			7	7	5	7	Green
			8	8	6	8	Blue
				9	7	9	Red
				10	8	10	Green
				11	9	11	Blue
				12	10	12	Red
				13	11	13	Green
				14	12	14	Blue
					13	15	Red
					14	16	Green
					15	17	Blue
					16	18	Red
					17	19	Green
					18	20	Blue
					19	21	Red
					20	22	Green
					21	23	Blue
					22	24	Red
					23	25	Green
					24	26	Blue
		1	1	1		1	Functions
		2	2	2		2	Speed/Sensitivity

DMX function chart:

DMX Value	Functions
0-7	Master Dimmer
8-15	Strobe
16-23	Programme 1
24-31	Programme 2
32-39	Programme 3
40-47	Programme 4
48-55	Programme 5
56-63	Programme 6
64-71	Programme 7
72-79	Programme 8
80-87	Programme 9
88-95	Programme 10
96-103	Programme 11
104-111	Programme 12
112-119	Programme 13
120-127	Programme 14
128-135	Programme 15
136-143	Programme 16
144-151	Programme 17
152-159	Programme 18
160-167	Programme 19
168-175	Programme 20
176-183	Programme 21
184-191	Programme 22
192-199	Programme 23
200-207	Programme 24
208-215	Programme 25
216-223	Programme 26
224-231	Programme 27
232-239	Sound mode 1
240-247	Sound mode 2
248-255	Sound mode 3

Speed/Sensitivity chart:

DMX Value	Functions
0-255	Speed (slow to fast)/Sensitivity (low to high)

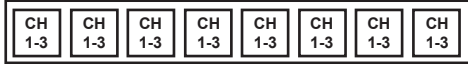**Note: When set in Sound mode 1, 2 or 3 in the above chart, use channel 2 for sensitivity.**

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LED segments
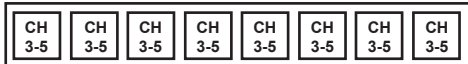
This Octoblox is split up into 8 LED segments/spots which can be controlled in the following channel modes;
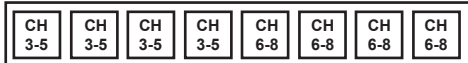
3 channel mode

CH 1-3	CH 1-3	CH 1-3	CH 1-3	CH 1-3	CH 1-3	CH 1-3	CH 1-3

Every block occupies the same 3 channels.
The unit occupies 3 channels.

5 channel mode

CH 3-5	CH 3-5	CH 3-5	CH 3-5	CH 3-5	CH 3-5	CH 3-5	CH 3-5

Every block occupies the same 3 channels.
The unit occupies 5 channels.

8 channel mode

| CH 3-5	CH 3-5	CH 3-5	CH 3-5	CH 6-8	CH 6-8	CH 6-8	CH 6-8

Every 4 blocks occupies the same 3 channels.
8 Spots occupy 6 channels.
The unit occupies eight channels.

14 channel mode

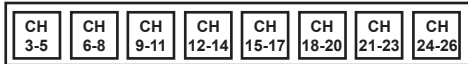| CH 3-5	CH 3-5	CH 6-8	CH 6-8	CH 9-11	CH 9-11	CH 12-14	CH 12-14
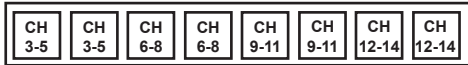
Every 2 blocks occupies the same 3 channels.
8 Spots occupy 12 channels.
The unit occupies 14 channels.

24 channel mode

CH 1-3	CH 4-6	CH 7-9	CH 10-12	CH 13-15	CH 16-18	CH 19-21	CH 22-24
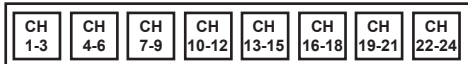
Every block occupies 3 channels.
The unit occupies 26 channels.

26 channel mode

CH 3-5	CH 6-8	CH 9-11	CH 12-14	CH 15-17	CH 18-20	CH 21-23	CH 24-26

Every block occupies 3 channels.
8 Spots occupy 24 channels.
The unit occupies 26 channels.

Setting the DMX address
The DMX mode enables the use of a universal DMX controller. Each fixture requires a
"start address" from 1- 511. A fixture requiring one or more channels for control begins to read the
data on the channel indicated by the start address. For example, a fixture that occupies or uses 7
channels of DMX and was addressed to start on DMX channel 100, would read data from
channels: 100,101,102,103,104,105 and 106. Choose a start address so that the channels used
do not overlap. E.g. the next unit in the chain starts at 107.

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 to-
gether and operate from a single controller, as long as all fixtures and the controller are DMX com-
pliant. 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 LEDJ Octoblox 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.

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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.
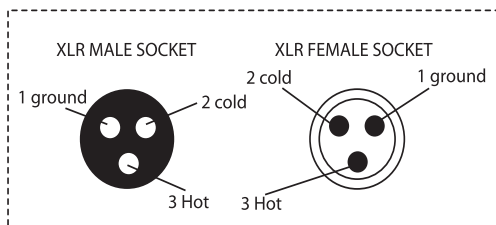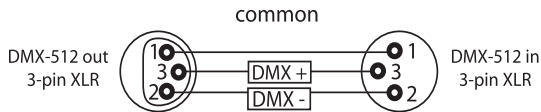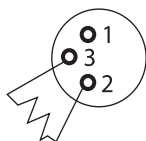
common

DMX-512 out
3-pin XLR

1
3
2

DMX +
DMX -

1
3
2

DMX-512 in
3-pin XLR

XLR MALE SOCKET   XLR FEMALE SOCKET

2 cold   1 ground
1 ground   2 cold

3 Hot   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.
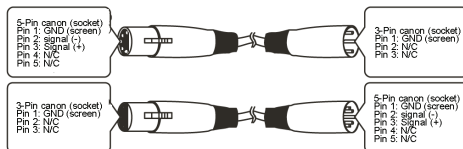
1
3
2

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

3-Pin canon (socket)
Pin 1: GND (screen)
Pin 2: N/C
Pin 3: N/C

3-Pin canon (socket)
Pin 1: GND (screen)
Pin 2: N/C
Pin 3: N/C

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

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Specifications:

DMX Channels: .... 3/5/8/14/24 or 26 selectable
Display: ....4 Push button LED display
Connections: ....3-Pin XLR In/Out for DMX, IEC Power In/Out sockets
Modes: ....Preset colour, Auto run, Sound active, Slave and DMX
LEDs: ....384 Ultra Bright 5mm LEDs (R: 128, G: 128, B: 128)
Beam angle: ....30 degrees
Power consumption: 26W
Power supply: ....………………………240v
Dimensions: ....1061 x 70 x 115mm
Weight: 2.0Kgs

CREATE THE RIGHT EFFECT

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