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LIGHT BRICK - 12 X 3W TRI-COLOUR

(Order code: LEDJ162)

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.
- Cleaning must be done at regular intervals.
- Before cleaning, wait until the unit has cooled.
- Use a vacuum or dry compressed air and a soft brush to remove the dust collected on the external vents and accessible internal components.
- Clean the external surfaces with a mild solution of non-ammonia glass cleaner or isopropyl alcohol and wipe with a soft, lint free cotton cloth or lense cleaning tissue.
- 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 100V-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.
- LEDJ products are designed and intended for professional use only by competent persons. The products are not suitable for domestic use.

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.

You should find inside the LEDJ carton the following items:

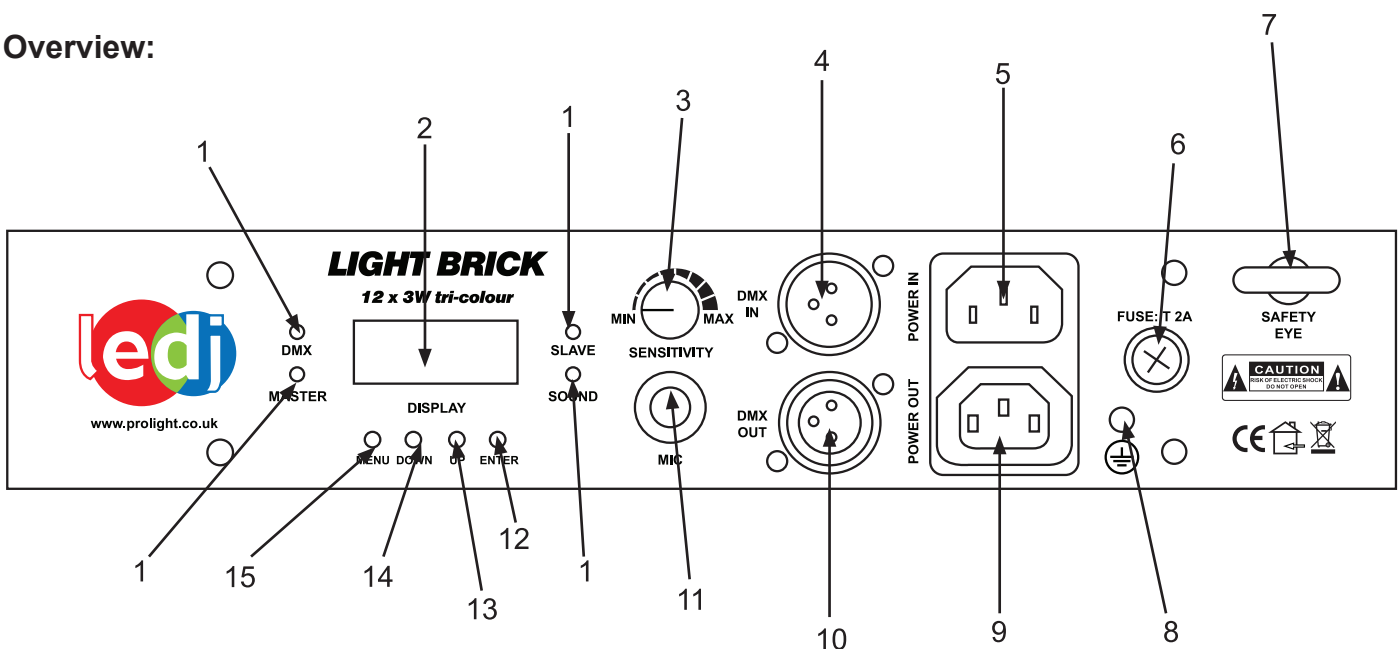
- 1, Light Brick - 12 x 3W tri-colour 2, Instruction manual, 3, Power Cable

Technical Specifications:

DMX channels: 3/7/10/12 or 16 selectable
 12 x 3W tri-colour LEDs
 Sound active, master/slave and DMX modes
 4 push button LED display
 IEC power in/out sockets
 3-pin XLR in/out sockets
 Beam angle: 30 degrees
 Power supply: 100-240V~50/60Hz
 Power consumption: 60W
 Dimensions: 395 x 80 x 300mm
 Weight: 3Kgs

Operating modes: 1, Sound active
 2, master/slave
 3, DMX

Overview:



Identification:

- | | |
|------------------------------|------------------------|
| 1. Function LEDs | 9. Power output socket |
| 2. LCD display | 10. DMX output socket |
| 3. Sound sensitivity control | 11. Microphone |
| 4. DMX input socket | 12. Enter button |
| 5. Power input socket | 13. Up button |
| 6. Fuse | 14. Down button |
| 7. Safety eye | 15. Menu button |
| 8. Earthing point | |

1. DMX Mode

To enter the DMX mode, press the “**MENU**” button to show “**SET DMX ADDRESS**” on the LCD display. Now press the “**ENTER**” button and use the “**UP**” and “**DOWN**” buttons to set the DMX address from 001-512. Now press the “**ENTER**” button again to confirm the setting.

2. DMX channel selection

To choose a DMX channel mode press the “**MENU**” button to show “**SET RUN CHANNEL**” on the LCD display. Now press the “**ENTER**” button and use the “**UP**” and “**DOWN**” buttons to select one of the channel modes: 3, 7, 10, 12 or 16 channel modes.

When you are happy with your choice, press the “**ENTER**” button to confirm it.

3. Built-in sound active programmes mode

To enter the built-in sound active programmes mode, press the “**MENU**” button to show “**SET RUN MODE**” on the LCD display. Now press the “**ENTER**” button and use the “**UP**” and “**DOWN**” buttons to scroll through the 14 built-in sound active programmes, 0 - 13.

To increase or decrease the sensitivity levels, simply use the sensitivity control on the rear of the unit.

4. Master/slave mode

To enter the master/slave mode, press the “**MENU**” button to show “**SET MAST MODE**” on the LCD display. Now press the “**ENTER**” button and use the “**UP**” and “**DOWN**” buttons to select “**MASTER**”, “**SLAVE**” or “**OFF**”.

Master = When the unit is set as the master this unit should be the first in line of the set up.

Slave = When the unit is set as the slave, the unit will follow in sequence with the master unit.

Off = When the unit is set to the off option the unit will blackout. To turn back on, simply set it back to the master option.

DMX charts:

3CH

Channel	Value	Function
1	000-255	Red 0-100%
2	000-255	Green 0-100%
3	000-255	Blue 0-100%

7 Channel DMX chart

Channel	Value	Function
1	0-7	No function
	8-15	Macro 1
	16-23	Macro 2
	24-31	Macro 3
	32-39	Macro 4
	40-47	Macro 5
	48-55	Macro 6
	56-63	Macro 7
	64-71	Macro 8
	72-79	Macro 9
	80-87	Macro 10
	88-95	Macro 11
	96-103	Macro 12
	104-111	Macro 13
	112-119	Macro 14
	120-127	Macro 15
	128-135	Macro 16
	136-143	Macro 17
	144-151	Macro 18
	152-159	Macro 19
	160-167	Macro 20
	168-175	Macro 21
	176-183	Macro 22
	184-191	Macro 23
192-199	Macro 24	
200-207	Macro 25	
208-215	Macro 26	
216-223	Macro 27	
224-231	Macro 28	
232-239	Macro 29	
	240-255	Sound Active
2	000-255	Red 0-100%
3	000-255	Green 0-100%
4	000-255	Blue 0-100%

7 Channel DMX chart cont.....

Channel	Value	Function
5	0-7	No function
	8-15	Red
	16-23	Green
	24-31	Blue
	32-39	Yellow
	40-47	Pink
	48-55	Turquoise
	56-63	Cold white
	72-79	Light pink
	80-87	Light blue
	88-95	Golden yellow
	96-103	Light Blue
	104-111	Light Pink
	112-118	Pink
	119-127	Green/blue
	128-135	Neutral white
	136-195	Colour fade (slow to fast)
	196-255	7 colour change (slow to fast)
6	000-255	Strobe
7	000-255	Dimmer 0-100% (will not control CH1 or CH5)

10 Channel DMX chart:

Channel	Value	Function
1	0-7	No function
	8-15	Macro 1
	16-23	Macro 2
	24-31	Macro 3
	32-39	Macro 4
	40-47	Macro 5
	48-55	Macro 6
	56-63	Macro 7
	64-71	Macro 8
	72-79	Macro 9
	80-87	Macro 10
	88-95	Macro 11
	96-103	Macro 12
	104-111	Macro 13
	112-119	Macro 14
	120-127	Macro 15
	128-135	Macro 16
	136-143	Macro 17
	144-151	Macro 18
	152-159	Macro 19
	160-167	Macro 20
	168-175	Macro 21
	176-183	Macro 22
	184-191	Macro 23
192-199	Macro 24	
200-207	Macro 25	
208-215	Macro 26	
216-223	Macro 27	
224-231	Macro 28	
232-239	Macro 29	
	240-255	Sound Active
2	000-255	Red 1
3	000-255	Green 1
4	000-255	Blue 1
5	000-255	Red 2
6	000-255	Green 2
7	000-255	Blue 2

10 Channel DMX chart cont.....:

8	0-7	No function
	8-15	Red
	16-23	Green
	24-31	Blue
	32-39	Yellow
	40-47	Pink
	48-55	Turquoise
	56-63	Cold white
	64-71	Summer yellow/green
	72-79	Light pink
	80-87	Light blue
	88-95	Golden yellow
	96-103	Light Blue
	104-111	Light Pink
	112-118	Pink
	119-127	Green/blue
	128-135	Neutral white
	136-195	Colour fade (slow to fast)
196-255	7 colour change (slow to fast)	
9	000-255	Strobe
10	000-255	Dimmer 0-100% (will not control CH1 or CH8)

12 Channel DMX chart:

Channel	Value	Function
1	000-255	Red 1
2	000-255	Green 1
3	000-255	Blue 1
4	000-255	Red 2
5	000-255	Green 2
6	000-255	Blue 2
7	000-255	Red 3
8	000-255	Green 3
9	000-255	Blue 3
10	000-255	Red 4
11	000-255	Green 4
12	000-255	Blue 4

16 Channel DMX chart:

Channel	Value	Function
1	0-7	No function
	8-15	Macro 1
	16-23	Macro 2
	24-31	Macro 3
	32-39	Macro 4
	40-47	Macro 5
	48-55	Macro 6
	56-63	Macro 7
	64-71	Macro 8
	72-79	Macro 9
	80-87	Macro 10
	88-95	Macro 11
	96-103	Macro 12
	104-111	Macro 13
	112-119	Macro 14
	120-127	Macro 15
	128-135	Macro 16
	136-143	Macro 17
	144-151	Macro 18
	152-159	Macro 19
	160-167	Macro 20
	168-175	Macro 21
	176-183	Macro 22
	184-191	Macro 23
192-199	Macro 24	
200-207	Macro 25	
208-215	Macro 26	
216-223	Macro 27	
224-231	Macro 28	
232-239	Macro 29	
	240-255	Sound Active
2		Red 1
3		Green 1
4		Blue 1
5		Red 2
6		Green 2
7		Blue 2
8		Red 3
9		Green 3
10		Blue 3
11		Red 4
12		Green 4
13		Blue 4

16 Channel DMX chart cont....:

Channel	Value	Function
14	0-7	No function
	8-15	Red
	16-23	Green
	24-31	Blue
	32-39	Yellow
	40-47	Pink
	48-55	Turquoise
	56-63	Cold White
	64-71	Summer yellow/green
	72-79	Light pink
	80-87	Light blue
	88-95	Golden yellow
	96-103	Light Blue
	104-111	Light Pink
	112-118	Pink
	119-127	Green/blue
	128-135	Neutral white
	136-195	Colour fade (slow to fast)
196-255	7 colour change (slow to fast)	
15	000-255	Strobe
16	000-255	Dimmer 0-100% (will not control CH1 or CH14)

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 LEDJ Light Brick 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.

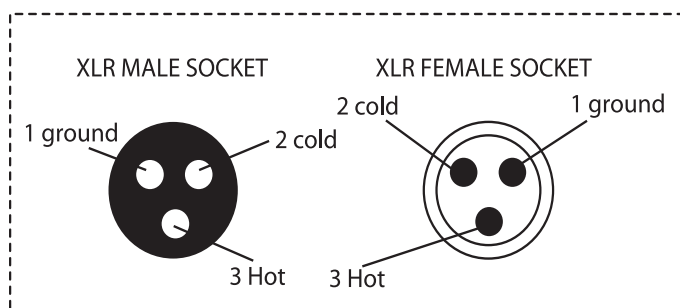
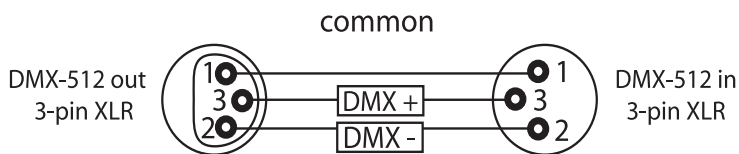


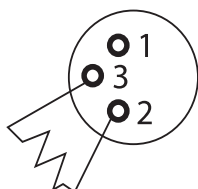
FIGURE 3

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.

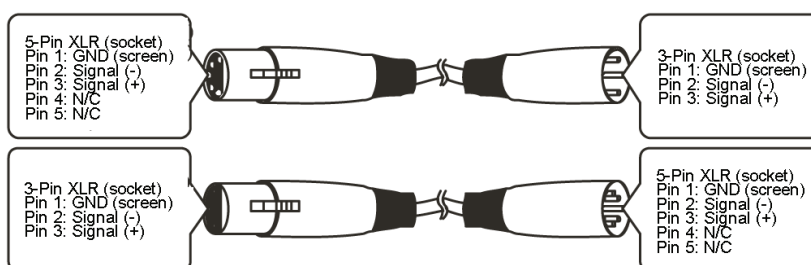


Termination reduces signal transmission problems and interference. it is always advisable to connect a DMX terminal, (resistance 120 Ohm 1/4 W) between pin 2 (DMX-) and pin 3 (DMX+) of the last fixture.

Using a cable terminator (part number CABL90 3-pin, CABL89 5-pin) 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.



Notes:

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English



**Correct Disposal of this Product
(Waste Electrical & Electronic Equipment)**

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.



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