



WWW.PROLIGHT.CO.UK

●●●● PRO WHITE LED ●●●● MATRIX BLOCK



(Order code: LEDJ231)

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!

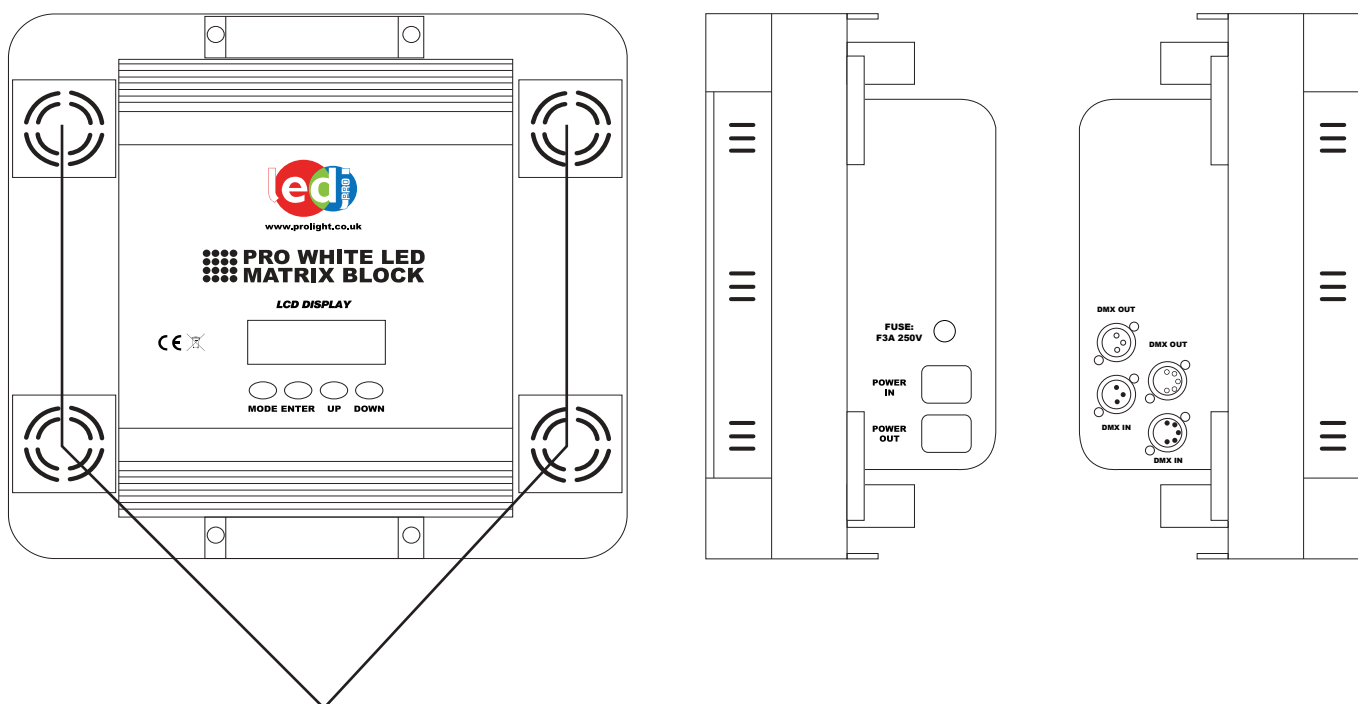
Incorrect installation or use can cause serious damage to people and property.

Introduction

Features

- DMX channels: 3/16 or 19 selectable
- 16 x 20W White LEDs (3200K)
- Sound active, auto, master/slave and DMX modes
- Individually addressable LEDs
- 400Hz refresh rate
- Powercon in/out sockets
- 3-Pin XLR in/out sockets
- 5-Pin XLR in/out sockets
- 4 push button menu with LCD display
- 0-100% dimming and variable strobe
- Beam angle: 80 degrees
- Power consumption: 348W
- Power supply: 100-240V~50/60Hz
- Dimensions: 180 x 425 x 400mm
- Weight: 10.2Kgs

Overview



Setup

COOLING FANS

Operating Instructions

The Pro White LED Matrix Block is a DMX-512 controllable unit made up of high efficiency RGB 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 “**SET UP**” button to select the desired sensitivity level by using the “**UP**” and “**DOWN**” buttons. Press the “**SET UP**” 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 “**SET UP**” 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 14 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 “**SET UP**” button to choose between the 14 built-in programmes by using the “**UP**” and “**DOWN**” buttons. Now press the “**SET UP**” button to select the desired speed and adjust by using the “**UP**” and “**DOWN**” buttons. Press the “**SET UP**” 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 “**SET UP**” button and select the desired DMX address setting by using the “**UP**” and “**DOWN**” buttons. Then to select one of the 3 DMX modes 3, 16 or 19 channel, press the “**SET UP**” button again to choose the desired DMX mode by using the “**UP**” and “**DOWN**” buttons.

For the 3, 16 or 19 channel DMX address information please see pages 6 & 7.

NOTE: Once the desired settings have been selected in each of the above modes, **ALWAYS** confirm the settings by pressing the “**SET UP**” button.

15 Built-in programme chart

DIMMER WW:0-255 Flash00-99	Blackout, dimming from 0-255 Flash speed adjustable.
DREAM Speed00-99 Flash00-99	Dreaming Speed & Flash adjustable
METEOR Speed00-99 Flash00-99	Meteor flow Speed & Flash adjustable
FADE Speed00-99 Flash00-99	Fading Speed & Flash adjustable
CHANGE Speed00-99 Flash00-99	Change Speed & Flash adjustable
FLOW 1 Speed00-99 Flash00-99	Spot chase Speed & Flash adjustable
FLOW 2 Speed00-99 Flash00-99	Spot chase Speed & Flash adjustable
FLOW 3 Speed00-99 Flash00-99	Spot chase Speed & Flash adjustable
FLOW 4 Speed00-99 Flash00-99	Spot chase Speed & Flash adjustable
FLOW 5 Speed00-99 Flash00-99	Spot chase Speed & Flash adjustable
FLOW 6 Speed00-99 Flash00-99	Spot chase Speed & Flash adjustable
FLOW 7 Speed00-99 Flash00-99	Spot chase Speed & Flash adjustable
FLOW 8 Speed00-99 Flash00-99	Spot chase Speed & Flash adjustable
FLOW 9 Speed00-99 Flash00-99	Spot chase Speed & Flash adjustable
FLOW 10 Speed00-99 Flash00-99	Spot chase Speed & Flash adjustable

3 channel mode DMX chart

CH1	CH2	CH3
0-7 All 16 spots	Master Dimmer 0-100%	
8-15 Spot 1	Dimmer 0-255	Flash 0-255
16-23 Spot 2		
24-31 Spot 3		
32-39 Spot 4		
40-47 Spot 5		
48-55 Spot 6		
56-63 Spot 7		
64-71 Spot 8		
72-79 Spot 9		
80-87 Spot 10		
88-95 Spot 11		
96-103 Spot 12		
104-111 Spot 13		
112-119 Spot 14		
120-127 Spot 15		
128-135 Spot 16		
136-143 Dream	Speed 0-255	
144-151 Meteor		
152-159 Fade		
160-167 Change		
168-175 Flow1		
176-183 Flow2		
184-191 Flow3		
192-199 Flow4		
200-207 Flow5		
208-215 Flow6		
216-223 Flow7	Sensitivity 0-255	
224-231 Flow8		
232-239 Flow9		
240-247 Flow10		
248-255 Sound control		

16 channel mode DMX chart

CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8	CH9	CH10	CH16
Spot 1	Spot 2	Spot 3	Spot 4	Spot 5	Spot 6	Spot 7	Spot 8	Spot 9	Spot 10	Spot 16

19 channel mode DMX chart

CH1	CH2	CH3	CH4	CH19	
0-7	Master Dimmer 0-100%	Flash 0-255	Spot 1 0-255	Spot 16 0-255	
8-15 Spot 1	Dimmer 0-255					
16-23 Spot 2						
24-31 Spot 3						
32-39 Spot 4						
40-47 Spot 5						
48-55 Spot 6						
56-63 Spot 7						
64-71 Spot 8						
72-79 Spot 9						
80-87 Spot 10						
88-95 Spot 11						
96-103 Spot 12						
104-111 Spot 13						
112-119 Spot 14						
120-127 Spot 15						
128-135 Spot 16						
136-143 Dream	Speed 0-255					
144-151 Meteor						
152-159 Fade						
160-167 Change						
168-175 Flow1						
176-183 Flow2						
184-191 Flow3						
192-199 Flow4						
200-207 Flow5						
208-215 Flow6						
216-223 Flow7						
224-231 Flow8						
232-239 Flow9						
240-247 Flow10						
248-255 Sound control	Sensitivity 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 Pro White LED Matrix Block 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

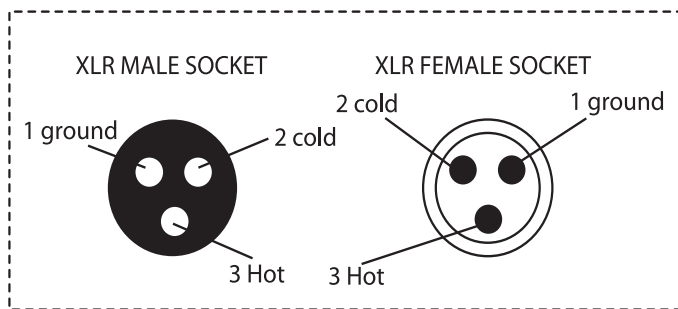
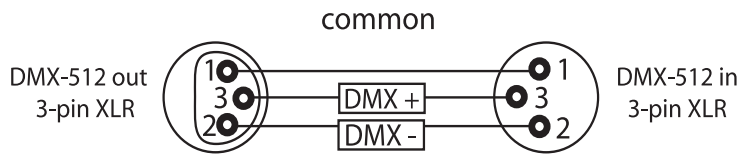
CABL11 – 5M

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.



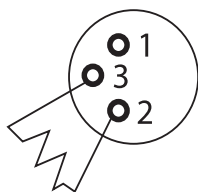
XLR Pin Configuration
Pin 1 = Ground
Pin 2 = Negative
Pin 3 = Postive

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.

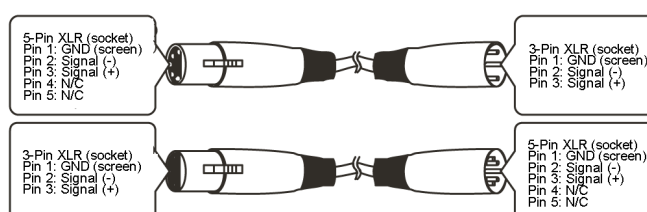


Termination reduces signal transmission problems and interference. it is always advisable to connect a DMX terminal, (resistance 120 Ohm 1/4 W) between pin 2 (DMX-) and pin 3 (DMX+) of the last fixture.

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.





WWW.PROLIGHT.CO.UK