Pixel Storm 12 Tri Batten

12 x 3W tri-colour LEDs (RGB)

User Manual

Convection cooled, no fan!

Order code: LEDJ291

WARNING

FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE YOUR INITIAL START-UP!

- Before your initial start-up, please make sure that there is no damage caused during transportation.
- Should there be any damage, 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.

CAUTION!
KEEP THIS EQUIPMENT AWAY FROM RAIN, MOISTURE AND LIQUIDS

CAUTION!
TAKE CARE USING THIS EQUIPMENT!
HIGH VOLTAGE-RISK OF ELECTRIC SHOCK!!

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 unit.
- Do not open the equipment and do not modify the unit.
- 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 100~240V, 50/60Hz.
- 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 and 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 connect power or 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, stop use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Pro Light 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 and electric shocks etc.

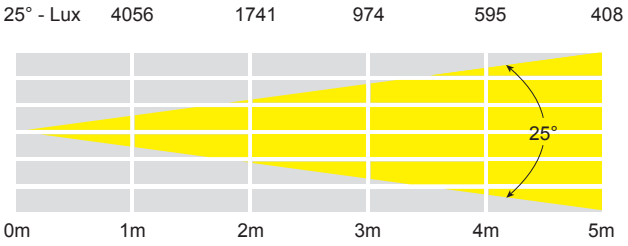
Do not endanger your own safety and the safety of others!

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

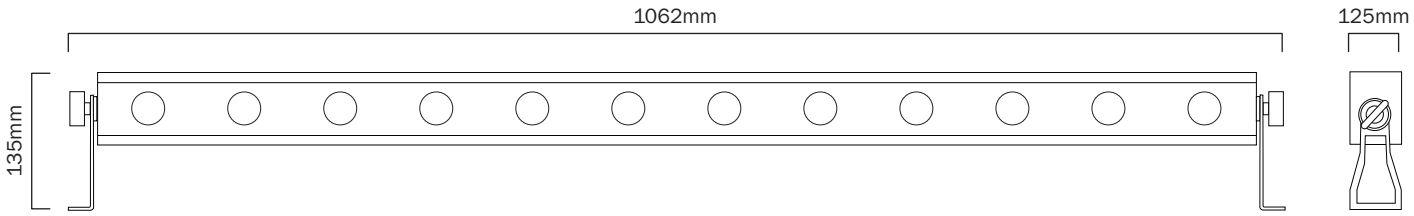
Pixel Storm 12 Tri Batten

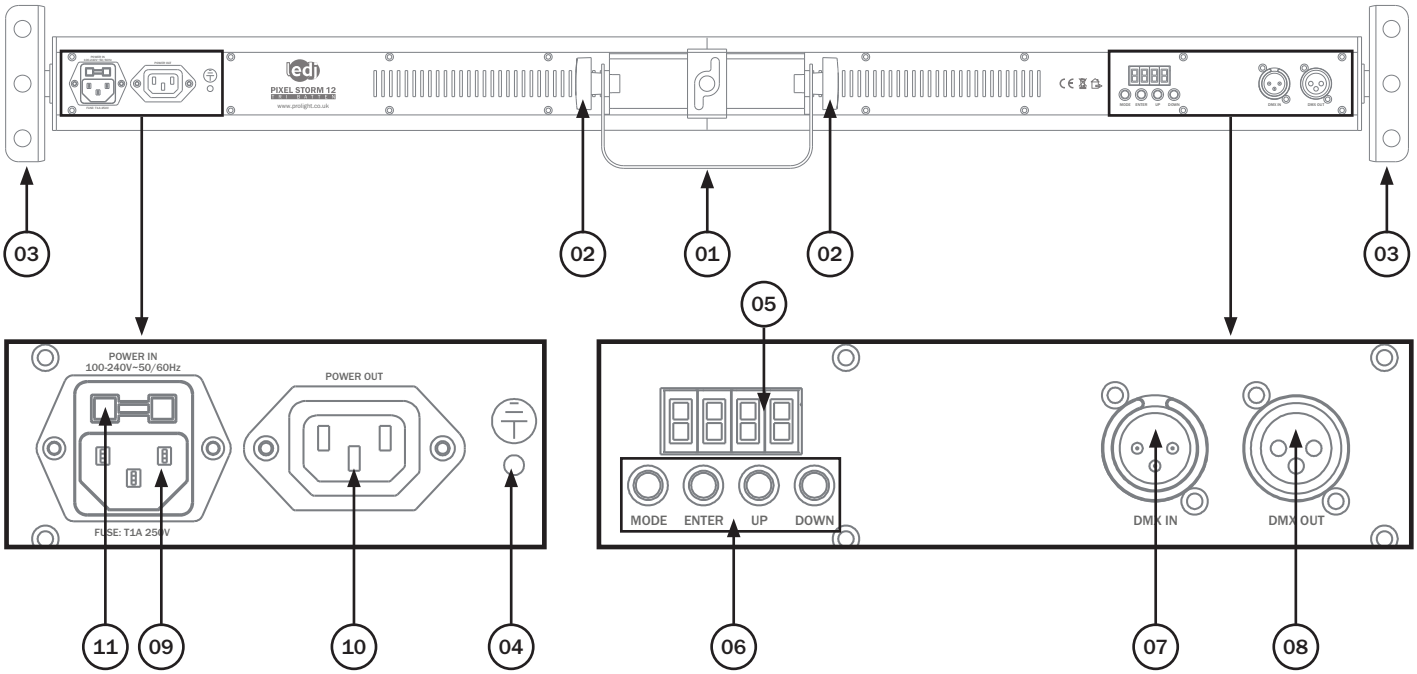
The LEDJ Pixel Storm 12 contains 12 x 3W tri-colour LEDs. Offering full pixel mapping capabilities with individual pixel control the Pixel Storm 12 is suitable for a wide range of applications from venue uplighting to dynamic eye candy effects on stage. A digital LED display with 4 push button menu system allows for easy setup.

- 12 x 3W tri-colour LEDs (RGB)
- Beam angle: 25°
- Refresh rate: 2kHz
- Pixel mapping capabilities
- DMX channels: 3/3/5 or 36 selectable
- Static colour, colour change, colour fade, auto run, sound active and master/slave modes
- 0 - 100% dimming with variable strobe
- End and central brackets allow for multiple rigging and floor standing applications
- 4 push button menu with LED display
- IEC power in/out sockets
- 3-pin XLR in/out sockets
- Convection cooled
- Extruded aluminium chassis (all metal construction)



Specifications	Pixel Storm 12 Tri Batten
Power consumption	60W
Power supply	100~240V, 50/60Hz
Fuse	T2A 250V
Dimensions	135 x 1062 x 125mm
Weight	5.8kg
Order code	LEDJ291





01 - Hanging Bracket
02 - Bracket tightening knobs
03 - Floor Brackets
04 - Earth point
05 - LED display
06 - Function buttons
07 - DMX input socket
08 - DMX output socket
09 - IEC power in socket
10 - IEC power out socket
11 - Fuse T2A 250V

In the box: **1 x fixture, 1 x power cable & 1 x user manual**

DMX channel mode:

Operating in a DMX control mode environment gives the user the greatest flexibility when it comes to customising or creating a show. In this mode you will be able to control each individual trait of the fixture and each fixture independently.

To access the DMX channel mode, press the "**MODE**" button on the rear of the unit to show d.001 on the LED display. Now use the "**UP**" and "**DOWN**" buttons to set the desired DMX address. Now press the "**ENTER**" button to choose one of the 3, 3, 5 or 36 DMX channel modes, press the "**ENTER**" button to confirm the setting.

To exit out of any of the above options, press the "**MODE**" button.

3 channel mode:

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

5 channel mode:

Channel	Value	Function
1	000-255	Red (0-100%)
2	000-255	Green (0-100%)
3	000-255	Blue (0-100%)
4	000-255	Master dimmer (0-100%)
5	000-255	Strobe (slow-fast)

3 channel mode:

Channel	Value	Function
1	000	No function
	001-014	Macro 1
	015-029	Macro 2
	030-044	Macro 3
	045-059	Macro 4
	060-074	Macro 5
	075-089	Macro 6
	090-104	Macro 7
	105-119	Macro 8
	120-134	Macro 9
	135-149	Macro 10
	150-164	Macro 11
	165-179	Macro 12
	180-194	Macro 13
	195-209	Macro 14
	210-224	Macro 15
	225-255	Sound
2	000-255	Speed (slow-fast) when channel 1 is 001-224
	000-255	Sensitivity (low-high) when channel 1 is 225-255
3	000-255	Flash speed (slow-fast) when channel 1 is 001-224
	000-084	Sound 1 when channel 1 is 225-255
	085-169	Sound 2 when channel 1 is 225-255
	170-255	Sound 3 when channel 1 is 225-255

36 channel mode:

CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8	CH9
R1 (0-255)	G1 (0-255)	B1 (0-255)	R2 (0-255)	G2 (0-255)	B2 (0-255)	R3 (0-255)	G3 (0-255)	B3 (0-255)

CH10	CH11	CH12	CH13	CH14	CH15	CH16	CH17	CH18
R4 (0-255)	G4 (0-255)	B4 (0-255)	R5 (0-255)	G5 (0-255)	B5 (0-255)	R6 (0-255)	G6 (0-255)	B6 (0-255)

CH19	CH20	CH21	CH22	CH23	CH24	CH25	CH26	CH27
R7 (0-255)	G7 (0-255)	B7 (0-255)	R8 (0-255)	G8 (0-255)	B8 (0-255)	R9 (0-255)	G9 (0-255)	B9 (0-255)

CH28	CH29	CH30	CH31	CH32	CH33	CH34	CH35	CH36
R10 (0-255)	G10 (0-255)	B10 (0-255)	R11 (0-255)	G11 (0-255)	B11 (0-255)	R12 (0-255)	G12 (0-255)	B12 (0-255)

Built-in program mode:

To access the built-in program mode press “**MODE**” until the display shows Pr.01 on the LED display. Press “**ENTER**” to confirm the setting. Use the “**UP**” and “**DOWN**” buttons to select a program from Pr.01 ~ Pr. 16. Press the “**ENTER**” button to confirm the setting. To change the speed of the selected program press the “**ENTER**” button and then use the “**UP**” and “**DOWN**” buttons to select any value from SP00 ~ SP99. Press the “**ENTER**” button to confirm the setting, then use the “**UP**” and “**DOWN**” buttons to select and value from F500 ~ F599 for the strobe feature. Press the “**ENTER**” button to confirm the setting.
In Pr.01 you are able to set a specific static colour. When in Pr.01 press the “**ENTER**” button and then use the “**UP**” and “**DOWN**” buttons to go through the static colours. Press the “**ENTER**” button to confirm the setting, then use the “**UP**” and “**DOWN**” buttons to select and value from F500 ~ F599 for the strobe feature. Press the “**ENTER**” button to confirm the setting. To exit out of any of the above options, press the “**MODE**” button.

Static colours:

1---r - Red
2-rg - Yellow
3---g - Green
4-gb - Cyan
5---b - Blue
6-rb - Pink
7rgb - White
8.oFF - Blackout

Static colour mode:

To access the static colour mode press “**ENTER**” until Colr shows on the LED display.
Press the “**ENTER**” button and the LED display will show r.225. Now use the “**UP**” and “**DOWN**” buttons to select the brightness between r.000 ~ r.255. Press the “**ENTER**” button and repeat for green and blue.

Value: 000 - 255 (000 = low, 255 = high)

To exit out of any of the above options, press the “**MODE**” button.

Master/slave mode:

To set the master unit, press the "**MODE**" button on the rear of the master unit then select your desired program (sound active, auto, static colour or one of the built-in programs).
To set the other units in slave mode, press the "**MODE**" button on the rear of the unit to show SLAU on the LED display and press the "**ENTER**" button to confirm the setting. The units will now run in sequence with the master unit.

To exit out of any of the above options, press the "**MODE**" button.

Please ensure that all slave units are set to the same DMX channel mode as the master unit.

Sound active mode:

To access the sound active mode, press the "**MODE**" button on the rear of the unit to show SU00 on the LED display. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to set the sound sensitivity level from SU.00 ~ SU.31 and press the "**ENTER**" button to confirm the setting.

Value: 00 - 31 (00 = low, 99 = high)

To exit out of any of the above options, press the "**MODE**" button.

Auto mode:

To access the auto mode press "**MODE**" until the display shows Auto on the LED display. The unit will now run through the built-in programs Pr.02 ~ Pr. 16. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to set the number of times the unit runs through each program from n.001 ~ n. 100.

Value: 001 - 100 (001 = runs through each pattern once, 100 = runs through each pattern 100 times

Press the "**ENTER**" button to confirm the setting. Now use the "**UP**" and "**DOWN**" buttons to set the speed the unit runs through each program SP.00 ~ SP.99.

Press the "**ENTER**" button to confirm the setting, then use the "**UP**" and "**DOWN**" buttons to select and value from F500 ~ F599 for the strobe feature. Press the "**ENTER**" button to confirm the setting.

Value: 00 - 99 (00 = slow, 99 = fast)

To exit out of any of the above options, press the "**MODE**" button.

Menu system

Built-in program	Pr.01 - Static colour Pr.02 - Macro 1 Pr.03 - Macro 2 Pr.04 - Macro 3 Pr.05 - Macro 4 Pr.06 - Macro 5 Pr.07 - Macro 6 Pr.08 - Macro 7 Pr.09 - Macro 8 Pr. 10 - Macro 9 Pr. 11 - Macro 10 Pr. 12 - Macro 11 Pr. 13 - Macro 12 Pr. 14 - Macro 13 Pr. 15 - Macro 14

	Pr. 16 - Macro 15 SP00~SP99 (speed) F500~F599 (flash)
Static colour mode	r.000~r.255 R 9.000~9.255 G b.000~b.255 B
Auto mode	n.001~n. 100 SP.00~SP.99
Slave mode	SLAU
Sound active mode	SU.00~SU.31
DMX mode	3CH, 5CH, 36CH
Address setting	A001~A512

Setting the DMX address:

The DMX mode enables the use of a universal DMX controller. Each fixture requires a “start address” from 1- 512. 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 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):

This fixture 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, see image below.

Further DMX cables can be purchased from all good sound and lighting suppliers or Pro Light Concepts dealers.

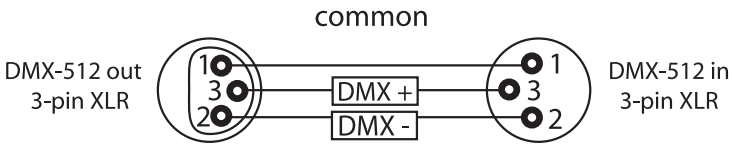
Please quote:

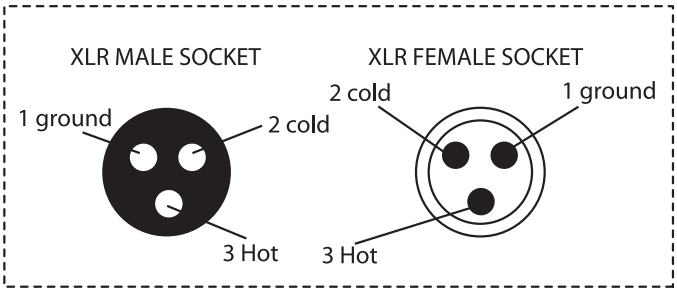
CABL10 – 2m
CABL11 – 5m
CABL12 – 10m

Also remember that DMX cable must be daisy chained and cannot be split.

Notice:

Be sure to follow the diagrams below when making your own cables. Do not connect the cables shield conductor to the ground lug or allow the shield conductor to come in contact with the XLRs 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

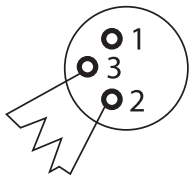
Special note:

Line termination:

When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behaviour.

Using a cable terminator will decrease the possibilities of erratic behaviour.

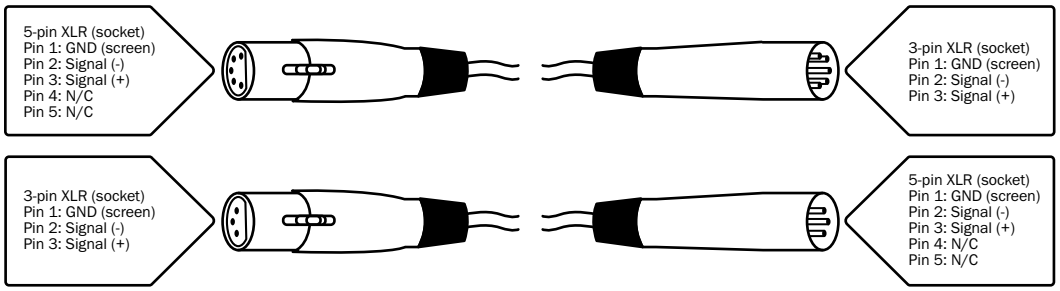
(3-pin - Order ref: CABL90, 5-pin - Order ref: CABL89)



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.

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 diagram below details the correct cable conversion.



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 of 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.