



# **Mini Pix 9 Batten (9 x 9W tri-colour COB LEDs)**

**User Manual**



**Order code: LEDJ263**

## 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.



## 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.

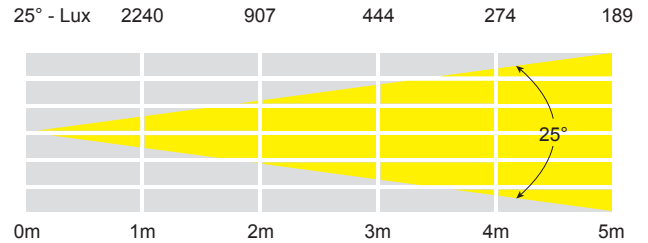
Do not endanger your own safety and the safety of others!

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

## Mini Pix 9 Batten

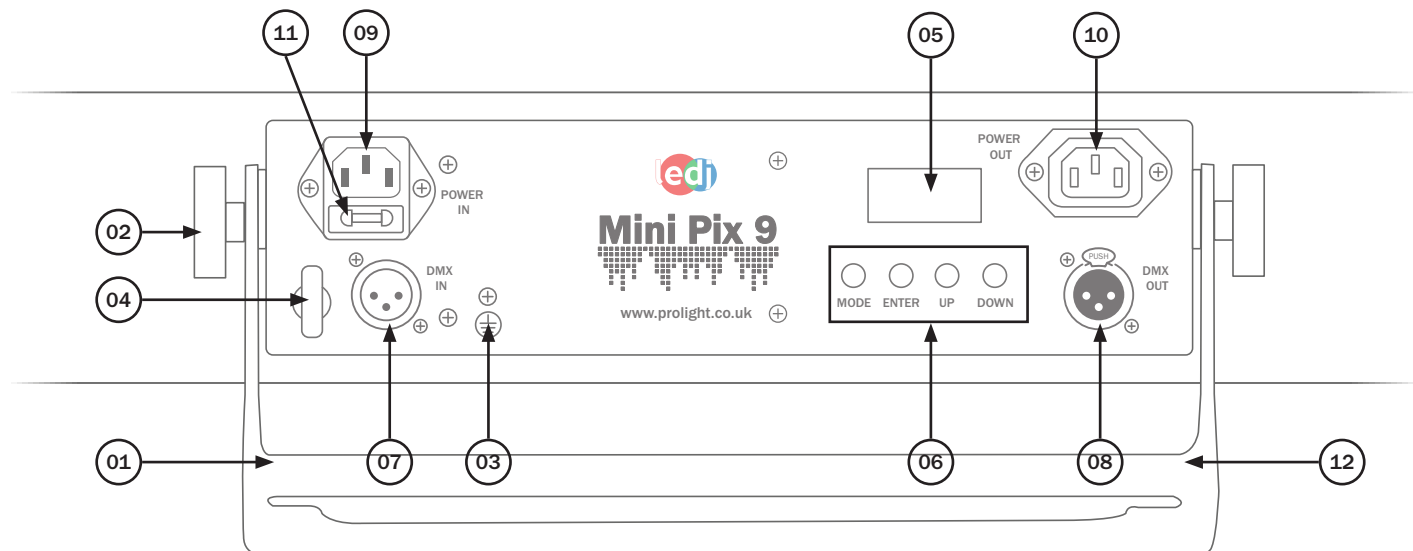
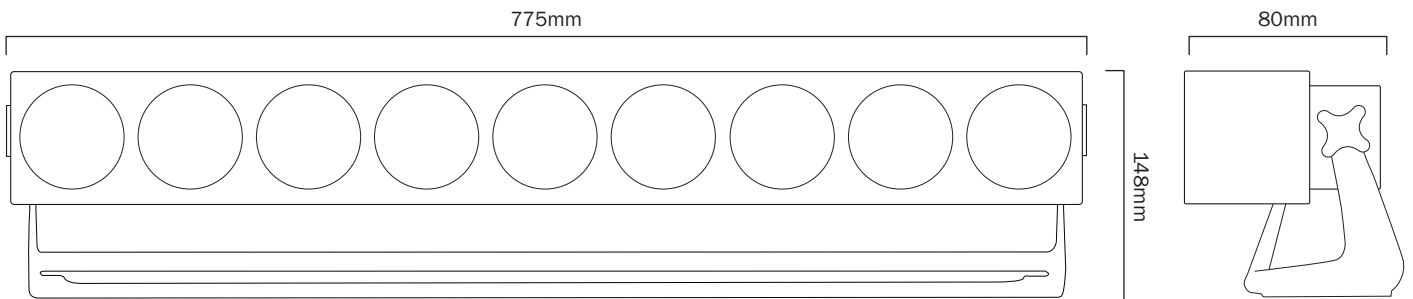
The Mini Pix 9 batten offers full pixel mapping technology within a compact, rugged chassis allowing lighting designers and DJs to create stunning on stage eye candy type effects. 9W COB (chip-on-board) tri-colour LEDs deliver a full spectrum of colours, chases and patterns accessible from a large number of internal programs.

The Mini Pix 9 batten also has a number of built-in DMX personalities to simplify integration and compatibility with variety of DMX consoles.



- 9 x 9W tri-colour COB LEDs
- Beam angle: 25°
- DMX channels: 3/4/5/9/27 or 30 selectable
- Static colour, colour mix, colour change, colour fade, built-in programs, auto, sound active and master/slave modes
- Remote device management (RDM)
- Bracket allows for multiple rigging or floor standing applications
- 4 push button menu with LED display
- 3-Pin XLR in/out sockets
- IEC power in/out sockets
- Fan cooled

Specifications	Mini Pix 9 Batten
Power consumption	116W
Power supply	100~240V, 50/60Hz
Fuse	1A 250V (2A 125V)
Dimensions	140 x 775 x 148mm
Weight	6kg
Order code	LEDJ262



- 01 - Bracket
- 02 - Bracket tightening knobs
- 03 - Earth point
- 04 - Safety eye
- 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 1A 250V (2A 125V)
- 12 - Yoke/floor stand

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

## DMX channel mode:

Operating in DMX control mode 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 “**DMX MODE**” on the LED display. Now press the “**ENTER**” button and use the “**UP**” and “**DOWN**” buttons to set the desired DMX address. Now press the “**ENTER**” button to choose one of the 3, 4, 5, 27 or 30 DMX channel modes use the “**UP**” and “**DOWN**” buttons, and 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%)

## 4 channel mode:

CH1	CH2	CH3	CH4
0-15 BLACKOUT	Master dimmer (Active when CH1 value is 0-255)		
16-23 R			
24-31 G			
32-39 B			
40-47 RG			
48-55 GB			
56-63 RB			
64-71 RGB			
72-79 Colour 1			
80-87 Colour 2			
88-95 Colour 3			
96-103 Colour 4			
104-111 Colour 5			
112-119 Colour 6			
120-127 Colour 7			
128-135 Colour 8			
136-143 DREAM		Speed (0-255) Slow to fast (Active when CH1 value is 136-255)	
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			
240-255 SOUND			

## 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	000-000	ON
	001-005	Sound control (7 colours)
	006-010	ON
	011-255	Strobe (increasing)

## 9 channel mode:

CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8	CH9
R1, R2, R3 (0-255)	G1, G2, G3 (0-255)	B1, B2, B3 (0-255)	R4, R5, R6 (0-255)	G4, G5, G6 (0-255)	B4, B5, B6 (0-255)	R7, R8, R9 (0-255)	G7, G8, G9 (0-255)	B7, B8, B9 (0-255)

## 27 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)



## 30 channel mode:

CH1	CH2	CH3	CH4	CH5	CH6	...CH15
0-15 BLACKOUT	Master dimmer (Active when CH1 value is 0-135)	Flash (0-255) Slow to fast	R (0-255)	G (0-255)	B (0-255)	...
16-23 R						
24-31 G						
32-39 B						
40-47 RG						
48-55 GB						
56-63 RB						
64-71 RGB						
72-79 Colour 1						
80-87 Colour 2						
88-95 Colour 3						
96-103 Colour 4						
104-111 Colour 5						
112-119 Colour 6						
120-127 Colour 7						
128-135 Colour 8						
136-143 DREAM	Speed (0-255) Slow to fast (Active when CH1 value is 136-239)					
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						
240-255 SOUND	Sensitivity (0-255) (Active when CH1 sound value is 240-255)					

## 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 **“SLAVE MODE”** on the LED display and press the **“ENTER”** button to confirm the setting. The unit 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 **“SOUND MODE”** on the LED display. Now press the **“ENTER”** button and use the **“UP”** and **“DOWN”** buttons to set the sound sensitivity level and press the **“ENTER”** button to confirm the setting.

**“SENS” 00 - 31 (00 = low, 31 = high)**

Now press the **“ENTER”** button and use the **“UP”** and **“DOWN”** buttons to set the frequency level and press the **“ENTER”** button to confirm the setting.

**“FQN” 01 - 99 (01 = low, 99 = high)**

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

## Auto run mode:

To access the auto run mode, press the **“MODE”** button to show **“AUTO RUN”** on the rear of the unit. Now press the **“ENTER”** button and use the **“UP”** and **“DOWN”** buttons to set the frequency level and press the **“ENTER”** button to confirm the setting.

**“FQN” 01 - 99 (01 = low, 99 = high)** - The frequency level adjusts how many times the program repeats before moving to the next program.

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

**Note: In this mode, it will run 14 built-in programs in a continuous loop.**

## Built-in programs mode

To access the built-in programs mode, press the **“MODE”** button on the rear of the unit to show **“01.STATIC”** on the LED display. Now press the **“ENTER”** button and use the **“UP”** and **“DOWN”** buttons to select between the 14 built-in programs. Now press the **“ENTER”** button to select the desired speed and adjust by using the **“UP”** and **“DOWN”** buttons.

**Speed values: 01 - 99 (00 = slow, 99 = fast)**

Press the **“ENTER”** button to confirm the setting.

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

**See next page for built-in programs chart.**

01	STATIC Colour - CL:RGB Flash00-99	Blackout, Red-Green-Blue-Yellow-Cyan-Purple-White Flash speed adjustable
02	DREAM - Speed 00-99 Flash 00-99	Seven colour dreaming - Speed & Flash adjustable
03	METEOR - Speed 00-99 Flash 00-99	Seven colour flow - Speed & Flash adjustable
04	FADE - Speed 00-99 Flash 00-99	Seven colour fade - Speed & Flash adjustable
05	CHANGE - Speed 00-99 Flash 00-99	Seven colour change - Speed & Flash adjustable
06	FLOW 1 - Speed 00-99 Flash 00-99	Seven colour chase - Speed & Flash adjustable
07	FLOW 2 - Speed 00-99 Flash 00-99	Seven colour chase - Speed & Flash adjustable
08	FLOW 3 - Speed 00-99 Flash 00-99	Seven colour chase - Speed & Flash adjustable
09	FLOW 4 - Speed 00-99 Flash 00-99	Seven colour chase - Speed & Flash adjustable
10	FLOW 5 - Speed 00-99 Flash 00-99	Seven colour chase - Speed & Flash adjustable
11	FLOW 6 - Speed 00-99 Flash 00-99	Seven colour chase (digital number 0-9) - Speed & Flash adjustable
12	FLOW 7 - Speed 00-99 Flash 00-99	Seven colour chase - Speed & Flash adjustable
13	FLOW 8 - Speed 00-99 Flash 00-99	Seven colour chase - Speed & Flash adjustable
14	FLOW 9 - Speed 00-99 Flash 00-99	Seven colour chase - Speed & Flash adjustable

### Invert mode:

To access the invert mode, press the “**MODE**” button on the rear of the unit to show “**INVERT ON/OFF**” on the LCD screen. Press the “**ENTER**” button and use the “**UP**” and “**DOWN**” buttons to turn the this mode on and off.

**OFF = Left to Right flow**

**ON = Right to Left flow**

In this mode via the “**ON/OFF**” options, you can adjust the effect direction from ‘left to right’ or from ‘right to left’.

Press the “**ENTER**” button to confirm the setting.

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

### Dimming curve:

To access the dimming curve mode, press the “**MODE**” button on the rear of the unit to show “**DIMMER CURVE**” on the LCD display. Now press the “**ENTER**” button and use the “**UP**” and “**DOWN**” buttons to select between the 2 dimming curves.

**01 = Halogen emulation mode with a very smooth slow dimming and a small delay.**

**02 = LED response with faster dimming and no delay.**

Press the “**ENTER**” button to confirm the setting.

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



## 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 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):

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**

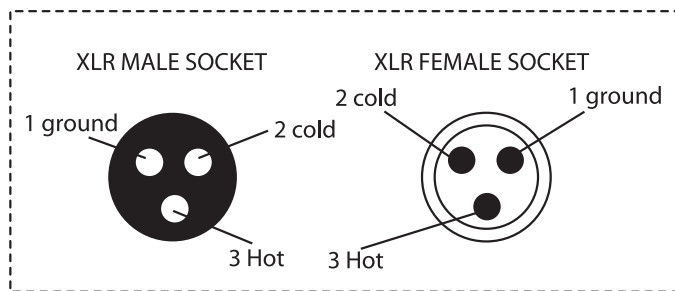
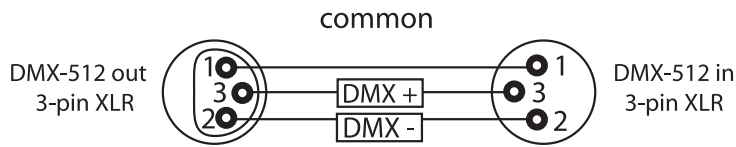
**CABL11 – 5m**

**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 = Positive

**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.

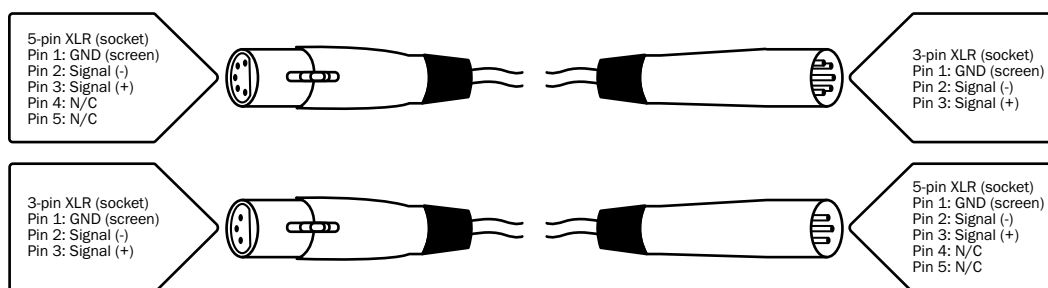
**Using a cable terminator will decrease the possibilities of erratic behaviour.**

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

Termination reduces signal transmission problems and 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.

**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.



