



# **COB Tri 4 Pixel Batten**

## **User Manual**



**Order code: ELUM081**

## 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 mains supply voltage is between 100~240V AC, 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.**
- This lighting fixture is for professional use only - it is not designed for or suitable for household use. The product must be installed by a qualified technician in accordance with local territory regulations. The safety of the installation is the responsibility of the installer. The fixture presents risks of severe injury or death due to fire hazards, electric shock and falls.
- Warning! Risk Group 2 LED product according to EN 62471. Do not view the light output with optical instruments or any device that may concentrate the beam.
- **WARRANTY:** Two years 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.

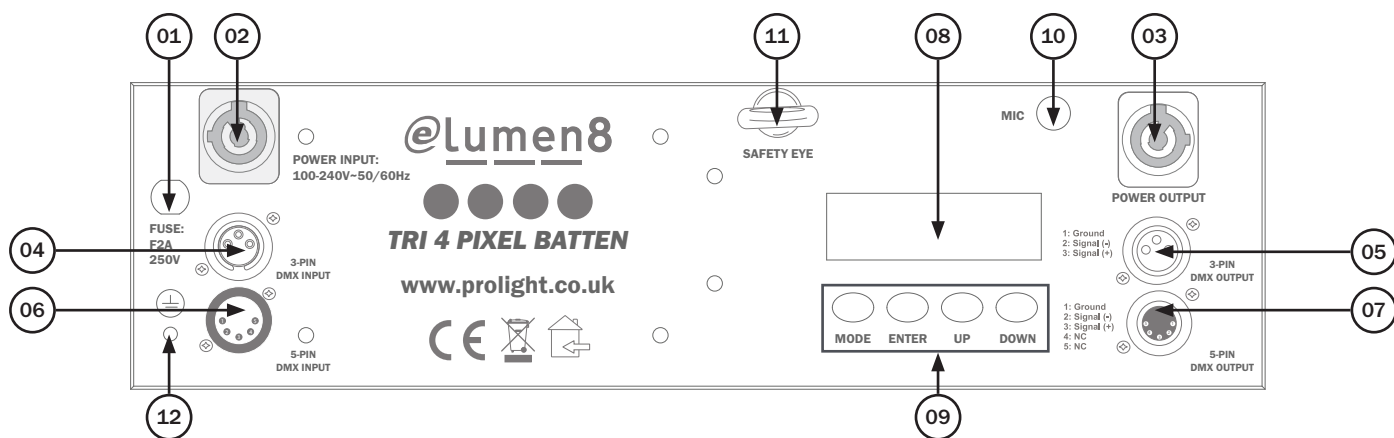
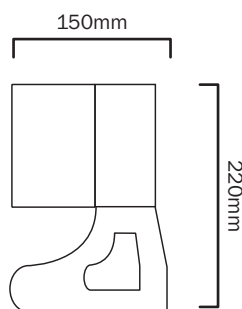
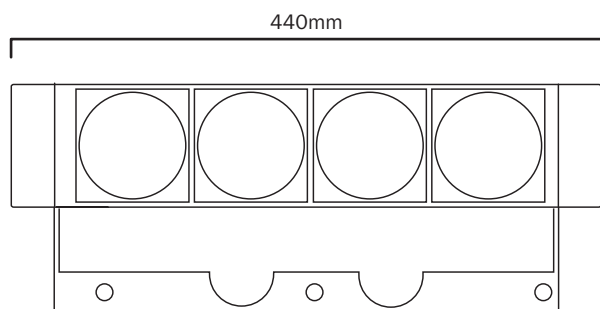
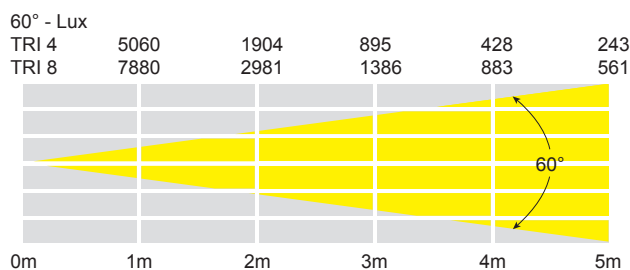
## COB Tri 4 Pixel Batten

Featuring COB (chip-on-board) technology the eLumen8 COB Tri 8 Pixel Batten is loaded with 4 x 30W individually addressable tri-colour LEDs which are each housed in 60° reflectors. Control of the unit is facilitated via the 4 push button menu and LCD display.

- 4 x 30W tri-colour COB LEDs (RGB)
- Beam angle: 60°
- 1.1kHz refresh rate
- Individually addressable LEDs
- DMX channels: 3/4/5/12 or 15 selectable
- Sound active, auto and master/slave modes
- 0-100% dimming and variable strobe
- Bracket allows for multiple rigging or floor standing applications
- 4 push button menu with LCD display
- PowerCON input/output
- 3-Pin XLR input/output
- 5-Pin XLR input/output



Specifications	
Power consumption	160W
Power supply	100~240V, 50/60Hz
Dimensions	220 x 440 x 150mm
Weight	4kg
Order code	ELUM081



- 01 - Fuse: T3.15A 250V
- 02 - PowerCON input
- 03 - PowerCON output
- 04 - 3-Pin DMX input

- 05 - 3-Pin DMX output
- 06 - 5-Pin DMX input
- 07 - 5-Pin DMX output
- 08 - LCD display

- 09 - Function buttons
- 10 - Microphone
- 11 - Safety eye
- 12 - Earth point

In the box: 1 x fixture,  
1 x 13A powerCON  
mains cable &  
1 x user manual

## DMX 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 mode, press the **“MODE”** button on the rear of the unit to show **“DMX MODE”** on the LCD display. Now press the **“ENTER”** button and use the **“UP”** and **“DOWN”** buttons to set the required DMX address. Press the **“ENTER”** button again and use the **“UP”** and **“DOWN”** buttons to choose the DMX channel mode required 3/4/5/12/15. 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
CH1	000-255	Red (0-100%)
CH2	000-255	Green (0-100%)
CH3	000-255	Blue (0-100%)

## 5 channel mode:

Channel	Value	Function
CH1	000-255	Red (0-100%)
CH2	000-255	Green (0-100%)
CH3	000-255	Blue (0-100%)
CH4	000-255	Master dimmer (0-100%)
CH5	000	No function
	001-005	Sound active (7 colours)
	006-010	No function
	011-255	Strobe (slow-fast)

## 12 channel mode:

CH1	CH2	CH3	CH4	CH5	CH6
R1 (0-255)	G1 (0-255)	B1 (0-255)	R2 (0-255)	G2 (0-255)	B2 (0-255)

CH7	CH8	CH9	CH10	CH11	CH12
R3 (0-255)	G3 (0-255)	B3 (0-255)	R4 (0-255)	G4 (0-255)	B4 (0-255)

## 4 channel mode:

Channel	Value	Function
CH1	000-015	No function
	016-023	R
	024-031	G
	032-039	B
	040-047	RG
	048-055	GB
	056-063	RB
	064-071	RGB
	072-079	Colour 1
	080-087	Colour 2
	088-095	Colour 3
	096-103	Colour 4
	104-111	Colour 5
	112-119	Colour 6
	120-127	Colour 7
	128-135	Colour 8
	136-143	Dream
	144-151	Meteor
	152-159	Fade
	160-167	Change
	168-175	Flow 1
	176-183	Flow 2
	184-191	Flow 3
	192-199	Flow 4
CH2	200-207	Flow 5
	208-215	Flow 6
	216-223	Flow 7
	224-231	Flow 8
CH3	232-239	Flow 9
	240-255	Sound active
CH4	000-255	Speed (slow-fast) (when CH1 is 000-239)
	000-255	Sensitivity (low-high) (when CH1 is 240-255)
CH5	000-255	Master dimmer (0-100%)
CH6	000-239	Strobe (slow-fast)
	240-255	No function

## 15 channel mode:

Channel	Value	Function	Channel	Value	Function
CH1	000-015	No function	CH3	000-255	Flash (slow-fast)
	016-023	R	CH4	000-015	Red 1 (0-100%)
	024-031	G		016-223	No function
	032-039	B		224-239	Colour select
	040-047	RG		240-255	No function
	048-055	GB	CH5	000-015	Green 1 (0-100%)
	056-063	RB		016-223	No function
	064-071	RGB		224-239	Colour select
	072-079	Colour 1		240-255	No function
	080-087	Colour 2	CH6	000-015	Blue 1 (0-100%)
	088-095	Colour 3		016-255	No function
	096-103	Colour 4	CH7	000-015	Red 2 (0-100%)
	104-111	Colour 5		016-255	No function
	112-119	Colour 6	CH8	000-015	Green 2 (0-100%)
	120-127	Colour 7		016-255	No function
	128-135	Colour 8	CH9	000-015	Blue 2 (0-100%)
	136-143	Dream		016-255	No function
	144-151	Meteor	CH10	000-015	Red 3 (0-100%)
	152-159	Fade		016-255	No function
	160-167	Change	CH11	000-015	Green 3 (0-100%)
	168-175	Flow 1		016-255	No function
	176-183	Flow 2	CH12	000-015	Blue 3 (0-100%)
	184-191	Flow 3		016-255	No function
	192-199	Flow 4	CH13	000-015	Red 4 (0-100%)
	200-207	Flow 5		016-255	No function
	208-215	Flow 6	CH14	000-015	Green 4 (0-100%)
	216-223	Flow 7		016-255	No function
	224-231	Flow 8	CH15	000-015	Blue 4 (0-100%)
	232-239	Flow 9		016-255	No function
	240-255	Sound active			
CH2	000-255	Master dimmer (0-100%) (when CH1 is 000-135)			
	000-255	Speed (slow-fast) (when CH1 is 136-239)			
	000-255	Sensitivity (low-high) (when CH1 is 240-255)			

### Sound active mode:

To select the sound active mode, press the “**MODE**” button to show “**SOUND MODE**” on the LCD display. Now press the “**ENTER**” button and use the “**UP**” and “**DOWN**” buttons to adjust the sound sensitivity level (SENS00-31) and press the “**ENTER**” button again to adjust the frequency level (FQN01-99). Press the “**ENTER**” button to confirm your setting.

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

### Auto mode:

To select the Auto run mode, press the “**MODE**” button to show “**AUTO RUN**” on the LCD display.

Now press the “**ENTER**” button to adjust the frequency level (FQN01-99).

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

The unit will now run all 14 built-in programmes one after another.

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

### Slave mode:

To select slave mode, first link the units together via 3-Pin or 5-Pin XLR cable(s), press the “**MODE**” button to show “**SLAVE MODE**” on all of the slave units. Now the slave units will follow in conjunction with the master unit. Press the “**ENTER**” button to confirm your setting.

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

### Built-in programs:

To access the built-in program, press the “**MODE**” button to show “**01.STATIC**” on the LCD display.

Now press the “**ENTER**” button and use the “**UP**” and “**DOWN**” buttons to choose one of the 14 built-in programs (01-14) (see table overleaf).

To choose one of the seven colours in the “**STATIC**” mode, press the “**ENTER**” button and use the “**UP**” and “**DOWN**” buttons to choose one of the following 15 colours.

To adjust the speed level in the remaining 13 built-in programs, press the “**ENTER**” button and use the “**UP**” and “**DOWN**” buttons to set the desired speed level (00-99). To adjust the flash speed press the “**ENTER**” button and use the “**UP**” and “**DOWN**” buttons to set the desired flash speed level (00-99). Press the “**ENTER**” button to confirm your setting.

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

### Setting flow invert:

To set the flow invert, press the “**MODE**” button to show “**FLOW INVERT**” on the LCD display. Now press the “**ENTER**” button and use the “**UP**” and “**DOWN**” buttons to set the flow invert to on or off.

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

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

NOTE: The frequency level (FQN01-99) adjusts how many times the program repeats before moving to the next program.



### RGB colour mixing:

To select the RGB colour mixing mode, press the **“MODE”** button to show **“PIX 001”** on the LCD display. Now press the **“ENTER”** button and use the **“UP”** and **“DOWN”** buttons to select the LED you want to change the colour of (PIX 001-004) and press the **“ENTER”** button again to adjust the Red (000-255), repeat this process for Green and Blue. Press the **“ENTER”** button to confirm your setting. To exit out of any of the above options, press the **“MODE”** button.

### Built-in programs:

Value	Function
Static colour CL: BLAC-RGB Flash: 00-99	Blackout, Red, Yellow, Green, Cyan, Blue, Purple, White Flash speed adjustable
Dream Speed: 00-99 Flash 00-99	7 colour dream Speed & flash adjustable
Meteor Speed: 00-99 Flash 00-99	7 colour flow Speed & flash adjustable
Fade Speed: 00-99 Flash 00-99	7 colour fade Speed & flash adjustable
Change Speed: 00-99 Flash 00-99	7 colour change Speed & flash adjustable
Flow 1 Speed: 00-99 Flash 00-99	7 colour chase Speed & flash adjustable
Flow 2 Speed: 00-99 Flash 00-99	7 colour chase Speed & flash adjustable
Flow 3 Speed: 00-99 Flash 00-99	7 colour chase Speed & flash adjustable
Flow 4 Speed: 00-99 Flash 00-99	7 colour chase Speed & flash adjustable
Flow 5 Speed: 00-99 Flash 00-99	7 colour chase Speed & flash adjustable
Flow 6 Speed: 00-99 Flash 00-99	7 colour chase Speed & flash adjustable
Flow 7 Speed: 00-99 Flash 00-99	7 colour chase Speed & flash adjustable
Flow 8 Speed: 00-99 Flash 00-99	7 colour chase Speed & flash adjustable
Flow 9 Speed: 00-99 Flash 00-99	7 colour chase Speed & flash adjustable

**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**

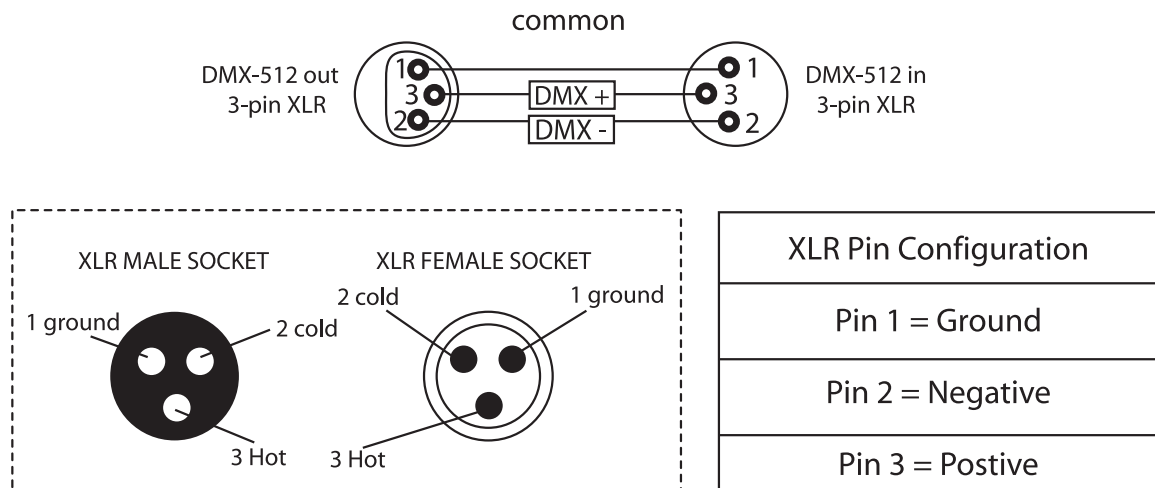
**CABL12 – 10m**

**Note: 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.



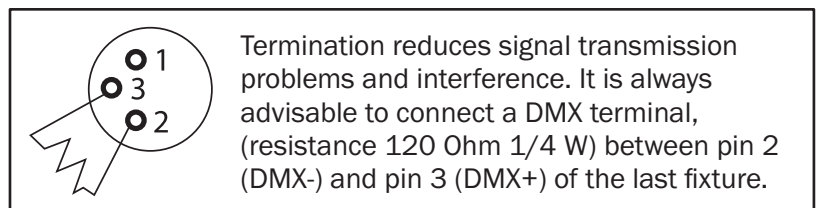
**Special note:**

**Line termination:**

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

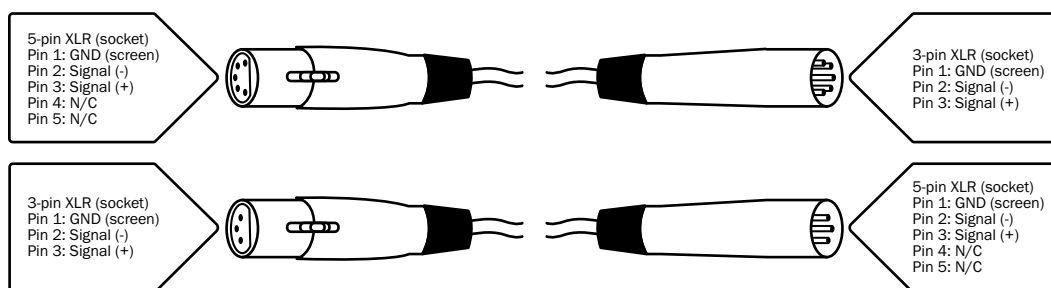
**Using a cable terminator will decrease the possibilities of erratic behaviour.**

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



**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 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.





