

Pixi-Bar User Guide

(Version 1)

Pixi-Bar is a remarkably versatile colour changer based on the technology of Pixi-Led. It provides 10 pixels with individual colour mixing control.

Key Features include:

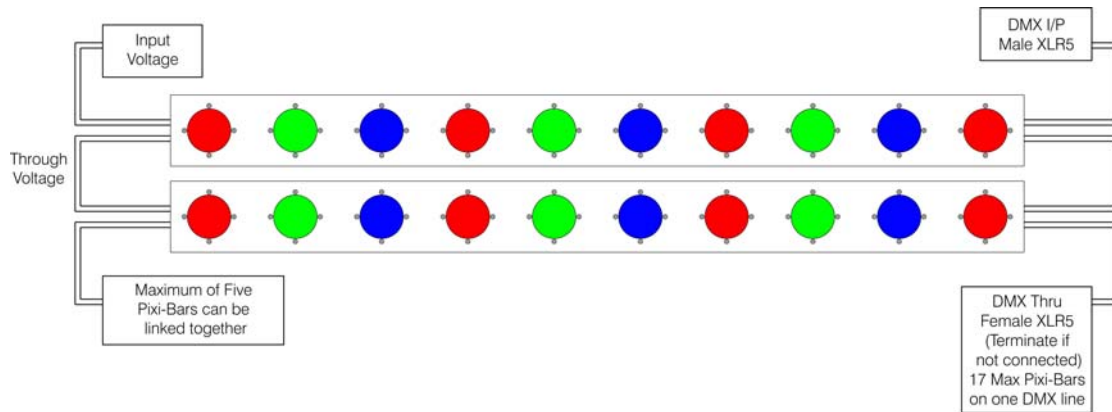
- ❑ Long Lamp Life
- ❑ 16 Million Colours
- ❑ High Colour Purity with excellent white tracking
- ❑ RDM Draft V1.0
- ❑ Remote sensor feedback
 - Temperature
 - Voltage
 - Lamp Hours
 - Device Hours
 - Power Cycles
- ❑ Over-temperature shutdown
- ❑ Remote Start Address Programming
- ❑ Choice of two lenses (Clear & Opal)
- ❑ Remote firmware upload
- ❑ Multiple fixing arrangements
- ❑ Pitch stackable in all directions
- ❑ Flight Cases available on request

Specification:

- ❑ Illumination at 1m: 15 Lux (Opal lens)
- ❑ Illumination at 1m: 23 Lux (Clear lens)
- ❑ Case Material: Aluminium
- ❑ Lens Material: Polycarbonate
- ❑ Beam Angle: 80 Degree
- ❑ Listing: CE FCC
- ❑ Control: DMX512-A / RDM V1.0
- ❑ IP Rating: Interior use.
- ❑ Power: 500W
- ❑ Voltage: 85-264VAC
- ❑ Current: 2A
- ❑ Length: 1144mm
- ❑ Height: 95mm
- ❑ Depth: 128mm
- ❑ Pixel Pitch: 115mm
- ❑ Lens Diameter: 58mm
- ❑ Data Connection In: XLR 5pin Male
- ❑ Data Connection Out: XLR 5pin Female
- ❑ Power Connection In: Male IEC
- ❑ Power Connection Out: Female IEC
- ❑ Operating Temp: -10 to +40 Celsius
- ❑ Protection Shutdown: 58 Celcius
- ❑ Protection Recovery: 51 Celcius
- ❑ Humidity: 90% non condensing.
- ❑ Fire Rating: UL/94 EN 60695-2-1/1 1996 (Glow Wire)



Pixi-Bar Wiring Diagram:



Shown above is the wiring diagram for Pixi-Bar.

Data Input:

The DMX512 input uses a standard XLR5 pin male connector.

Data Loop Through:

A passive Loop Through connection allows onward connection to other DMX512 devices. If this feature is not required the unit must be terminated as specified by DMX512-A. 17 Pixi-Bar's can be connected to one DMX Universe.

Indicators:

Two dual colour indicators are provided:

- Data:
 - ❑ Green: Indicates that DMX512 is being transmitted by the output.
 - ❑ Red: Indicates that RDM data received by the output is being returned to the controller.
- Power:
 - ❑ Red: Indicates good power and normal operation.
 - ❑ Flashing: Indicates that a connected RDM device is jabbering (returning unwanted data continuously).

DMX512 & Output Wiring:

| XLR Pin | Function | Colour |
|---------|---------------|--------|
| 1 | Ground | Black |
| 2 | Data - | Blue |
| 3 | Data + | Red |
| 4 | No Connection | |
| 5 | No Connection | |

Mains Input:

Pixi-Bar uses a universal mains input voltage, 85-264VAC, with a standard IEC male socket.

Mains Loop Through:

To allow multiple units to be connected there is a mains loop through connection using standard Female IEC Connectors. A maximum of five Pixi-Bars can be linked together from one fused mains source.

Earthing:

The following table summarises the internal earth interconnection and isolation:

Please note that we use the term Earth-Ground to avoid international confusion. In Europe Earth-Ground is called Earth, in the USA Earth-Ground is called Ground.

| Circuit | Description | |
|--|---------------------------|---|
| Chassis | Bonded to Earth-Ground. | |
| DMX512 Input (including Loop Through) | Type: | Isolated. |
| | Pin 1: | Connects to internal isolated circuit. No connection to Earth-Ground. |
| | Shell: | The connector shell is connected to chassis. |
| DMX512 Output | Type: | Grounded. |
| | DMX GND: | Connected to Earth-Ground. |
| Internal Logic Ground | Connects to Earth-Ground. | |

Mounting Options:

The Feet

Adjustable feet allow Pixi-Bar to be floor mounted at angles to 45 degrees. Perfect behind the drum riser.

The Fly

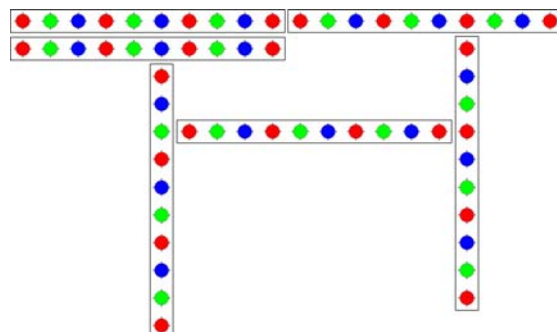
Optional flying adapters allow an array of five Pixi-Bar's to be flown from two points.
(Please see Health & Safety warning on the next page)

The Wall

The rear panel of Pixi-Bar provides a range of attachment points allowing wall mounting whilst retaining ease of maintenance.

Pitch:

Pixi-Bar has been designed so that they can be stacked either vertically or horizontally and keep to the same pitch of 115mm.



Health & Safety for flying equipment

- ❑ Flying or overhead mounting of equipment **shall** be undertaken by **qualified** staff. The staff shall be capable of undertaking a risk assessment.
- ❑ Each Pixi-Bar provides safety wire points that **must** be used. Artistic Licence recommends the use of load arrestors in all overhead applications.
- ❑ **Safety should be your prime concern.** If in any doubt seek professional advice.

The Pixi Range:

- ❑ Pixi-Core – The optical module used inside Pixi-Led. It is available in this format for OEMs and set designers
- ❑ Pixi-Led – A self contained LED colour changing fixture
- ❑ Pixi-Bulb – A miniature self contained LED colour changer
- ❑ Pixi-Cloth – A Star-Cloth with a difference. Each RGB pixel can be individually controlled resulting in an impressive display
- ❑ Pixi-Bar – A self-contained modular assembly containing ten Pixi-LEDs
- ❑ Pixi-Power L1 – Combines the functions of a power supply and an isolated DMX512-A / RDM splitter for Pixi-LED & Pixi-Core
- ❑ Pixi-Power SB1 – A power and data controller for Pixi-Bulb and Pixi-Strip
- ❑ Pixi-Power SB2 – A power and data controller for Pixi-Cloth

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