

Pixi-Power L1 User Guide

(Version 2)

Pixi-Power L1 combines the functions of a power supply and an isolated DMX512-A / RDM splitter.

Key Features include:

- ❑ 15 VDC Power supply for Pixi-Range
- ❑ Wall, ceiling or truss mount
- ❑ Isolated DMX512-A splitter
- ❑ RDM (Remote Device Management Draft V1.0)
- ❑ Integrated cable clamp for Pixi-Led
- ❑ Truss-Mount G-Clamp available
(Doughty Engineering: SP2703)



Specification:

- ❑ Listing: CE FCC
- ❑ IP Rating: Indoor use
- ❑ Net Weight: 1.05Kg
- ❑ Power: 75W
- ❑ Input Voltage: 90-264VAC
- ❑ Input Frequency: 47-440Hz
- ❑ Current - Inrush: 20A-115V / 40A-230V
- ❑ Output Voltage: 15VDC
- ❑ Output Current: 4.8A
- ❑ Duty Cycle: 80%
- ❑ Width: 100 mm
- ❑ Height: 218 mm (inc flange)
- ❑ Height: 303 mm (inc flange & G-Clamp)
- ❑ Depth: 123 mm
- ❑ Output Connection: 20 pin IDC
- ❑ Mains Connection: IEC
- ❑ Control Connection: 5 pin XLR
- ❑ Loop Connection: 5 pin XLR
- ❑ Cable Clamp: Hexagon Key 2.5mm

Pixi-Power L1 Wiring Diagram:

Shown opposite is the wiring diagram for a Pixi-Power L1.

The unit can have a maximum of 20 Pixi-Leds on the output cable.

Artistic Licence produces a range of cables ready to be used with Pixi-Power L1. Please see the product range:

Pixi-Cable A/B/C/D

A – Number of Pixi-Leds

B – Length of cable to first Pixi-Led

C – Length of cable between Pixi-Leds

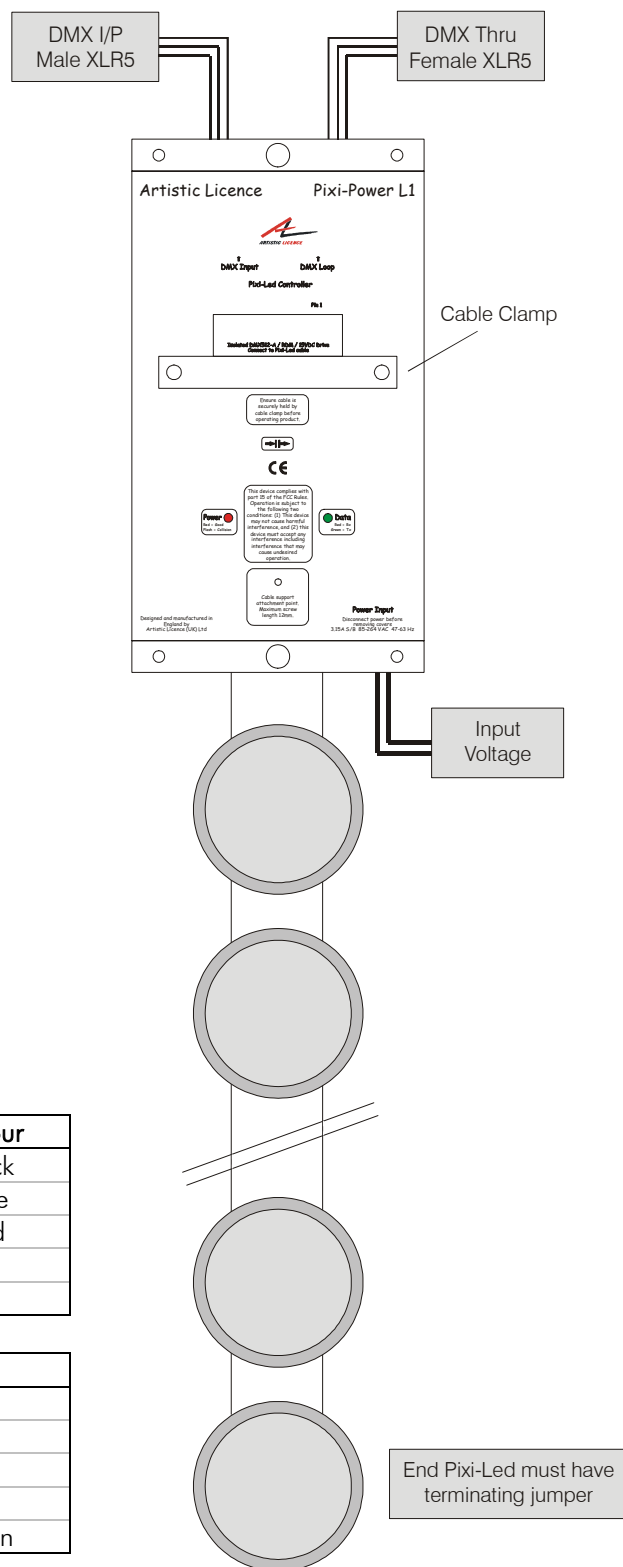
D – Colour of cable

As the diagram shows there is a cable clamp provided so that cable assembly does not need any additional support for vertical assemblies. It uses a hexagon 2.5mm key that is provided. (RS: 734-898)

DMX512 & Output Wiring:

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

IDC Pin	Function
9	Data -
11	Data +
5-8, 13-16	Ground
1-4, 17-20	15VDC
10, 12	No Connection



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-Power L1 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.

Input:

The DMX512 input uses a standard XLR5 pin connector.

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.

Output:

A Pixi-Power L1 is capable of powering/controlling 20 Pixi-Cores/Pixi-LEDs. Please see the specifications for more detail.

Indicators:

Two dual colour indicators are provided:

1. 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.

2. Power:
 - Red: Indicates good power and normal operation.
 - Flashing: Indicates that a connected RDM device is jabbering (returning unwanted data continuously).

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.	

Recommended Cable Lengths:

Number of Pixi-LEDs	Max Distance to 1 st Pixi-LED	Max Distance between Pixi-LEDs
5	5M	15M
5	10M	15M
10	5M	5M
10	10M	4M
15	5M	1.9M
15	10M	1.2M
20	5M	0.95M
20	10M	0.45M

Note: For applications over 15M please contact Artistic licence

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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B1 & B3 Livingstone Court

Peel Road

Harrow

Middlesex

England

HA3 7QT

Tel: +44 (0)20 88 63 45 15

Fax: +44 (0)20 84 26 05 51

Email: Sales@ArtisticLicence.com



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