

# Pixi-Power F1 User Guide

(Version 1.2)

Pixi-Power F1 is an integrated power controller for the Pixi-Flex, Pixi-Web and Pixi-Cloth range. Due to the robust design and truss mounting capability this product is well suited for temporary and permanent installations. Due to its high channel count Pixi-Power F1 has an integrated Ethernet port eliminating the need for DMX.

All parameters including the start address are set using RDM over the Art-Net protocol. Ten outputs are provided, each output can drive a total of 32 pixels. Integrated into the design is an Ethernet Switch allowing the Pixi-Power F1's to be daisy chained reducing the cabling required.

## Key Features include:

- ❑ 9 VDC Power supply for the Pixi range
- ❑ Wall, ceiling or truss mount
- ❑ RDM (Remote Device Management Draft V1.0)
- ❑ Integrated cable support
- ❑ Truss-Mount G-Clamp available  
(Doughty Engineering: SP2703)
- ❑ Pixi-Spider assembly available
- ❑ Integrated Ethernet port allowing direct connection to controllers
- ❑ Built in two port Ethernet Switch (in and out)

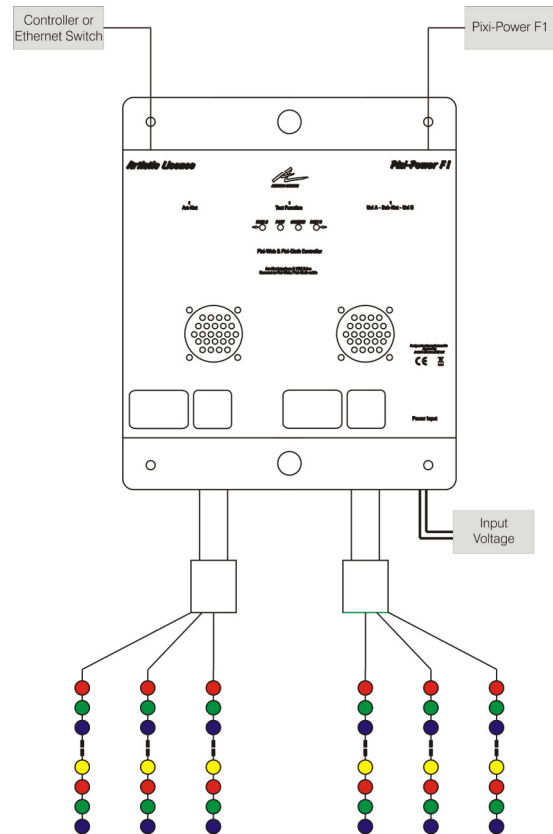
## Specification:

- ❑ Listing: CE FCC
- ❑ IP Rating: Indoor use
- ❑ Net Weight: 2.5Kg
- ❑ Power: 200W
- ❑ Mains Connection: IEC
- ❑ Input Voltage: 90-264VAC
- ❑ Input Frequency: 47-440Hz
- ❑ Current - Inrush (max): 50A-115V / 100A-230V
- ❑ Output Voltage: 9VDC
- ❑ Output Current: 2 x 10A
- ❑ Duty Cycle: 80%
- ❑ Width: 186 mm
- ❑ Height: 218 mm (inc flange)
- ❑ Height: 303 mm (inc flange & G-Clamp)
- ❑ Depth: 110 mm
- ❑ Ethernet Connection: 2 x RJ45 (Ethercon)
- ❑ Total Flex's: Low & Medium Res x 20 or High Res x 10
- ❑ Total Web's: Medium Res x 20 or High Res x 5
- ❑ Total Flex's / Web's per output: Low & Medium Res x 2 or High Res x 1
- ❑ Mating Multi-way Connector: Trident Ringlock Plug TR1823PMS1NB
- ❑ Connector pins (16 - 18 awg): Trident Contacts T2P16MC1LZ
- ❑ Connector pins (20 - 22 awg): Trident Contacts T2P20MC1LZ

## Pixi-Power F1 Wiring Diagram:

To the right is the wiring diagram for a Pixi-Power F1. As previously mentioned multiple Pixi-Power F1's can be daisy-chained together reducing the number of Ethernet Switches and cabling.

**Note:** For more information about the number of Pixi-Power F1's can be daisy-chained together please refer to the Ethernet Specification.



## Output Wiring:

Connector Pin	Function
A, E, J, N, T	+V (Red)
B, F, K, P, U	Data (Green)
C, G, L, R, V	Clock (Yellow)
D, H, M, S, W	GND (Black)

## Comms:

The Pixi-Power F1 has an internal Ethernet Switch Module along with two RJ45 connections that enable it to be connected to further Pixi-Power F1's in a daisy-chain configuration. Either port can be used to connect to the controller.

## Output:

Pixi-Power F1 is capable of powering/controlling 32 Pixels through each of the ten outputs. This could be either;

- Two Low / Medium Res Flex's or Web's, or
- One High Res Flex or
- ½ High Res Web.

## Indicators:

**Data (Green):** Indicates that data is being received for that universe

**Power (Red):** Indicates good power and normal operation.

**Yellow (Comms):** Indicates that Art-Net communication packets have been received

## Test Switch:

The Pixi-Power F1 has a test switch function that enables the unit to be tested with the controller. When pressed the Pixi-Power F1 will sequence through the outputs, turn all internal LEDs on and ensure the fan is running.

## Rotary Switches:

Each output from a Pixi-Power F1 requires a full universe of DMX from the controller. Selecting the required universe and sub-net can be done using the rotary switches or through Art-Net control.



### 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 F1 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 changer fixture
- ❑ Pixi-Bar - A remarkably versatile 10 pixel colour changer based on the technology of Pixi-LED
- ❑ Pixi-Power L1 - The controller and PSU for Pixi-LED
- ❑ Pixi-Flex 16/250 (Low Res) - A string on 16 individually controlled Pixels on a 250mm pitch
- ❑ Pixi-Flex 16/500 (Med Res) - A string on 16 individually controlled Pixels on a 500mm pitch
- ❑ Pixi-Flex 32/125 (High Res) - A string on 32 individually controlled Pixels on a 125mm pitch
- ❑ Pixi-Cloth - An LED starcloth with individual pixel control and full colour mixing
- ❑ Pixi-Power SB12 - Truss or wall mounted controller and PSU for Pixi-Flex & Pixi-Web
- ❑ Colour-Tramp - A lighting control system specifically designed to handle the complexity of two and three dimensional lighting arrays

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