8PX60-4 – Datasheet

5V 60 pixel/per meter RGBW pixel strip with premium white PCB.

AUSTRALIAN DESIGNED

ENTTEC's 8PX60 is an installation grade 5V 60 pixel per meter addressable LED Pixel Strip designed for professional architectural and entertainment purposes, used to display smooth animated graphics achieving soft pastels and saturated colors on a large scale.

Cut and join into any conceivable shape.

A key feature of the 8PX60 pixel strip it's white LED capable of emitting a 4350K color temperature.

It's white PCB makes it perfectly suited for installing in extrusions and lightboxes where the it will contribute to reflecting as much light forward as possible.

It's fast 400Hz scan rate and 8-bit color depth means graphics and animations played back are both smooth and consistently.

At ENTTEC, manufacturing quality and attention to detail is paramount. We always use thicker substrates to offer more durability, better heat dissipation and reduced voltage drop when compared to other LED strips available on the market.

Features

- **RGBW, 4 in 1 full color LED pixel strip.**
- **Premium flexible white 3oz copper PCB's.**
- **Individually addressable led pixels, suitable for stage, entertainment and architectural applications.**
- **Each pixel is capable of creating up to 4.29 billion possible shades.**
- **60 pixels/m.**
- **5V DC input supply voltage.**
- **Up to 347 Lumens/Meter.**
- **3M adhesive double side tape on the rear.**
- **Built-in data signal reshaping circuit in each pixel.**
- **Front Polymer encapsulation seal**
- **SK6812 IC chips (compatible with the WS2812 protocol).**
- **120-degree illumination.**
- **High LED density.**
- **Can be cut or joined at each copper tab.**
- **IP20 Indoor use only.**
- **Maximum 14 Watts/Meter.**
- **Designed for use with ENTTEC pixel products.**

Specification

Connectors	2x 3Pin JST SM connectors *(for testing purposes only - solder 1.5mm stranded copper cabling directly to the strip for installation use).*
IP rating	IP20
Input voltage	5V
Watts/meter (max)	RGB: 8.3W W: 5.7W Total: 14W
Lumens/meter	RGB: 150 W: 197 Total: 347
White color temperature	4050K – 4250K
Efficacy (Lm/Watt)	24.4
DMX channels/pixel	4
Beam angle	120 °
Control protocol	SK6812 *(compatible with WS28xx)*
Scan Rate	1.2KHz
Pixel mapping order	GRBW
PCB color	White
PCB width	10mm / 0.40”
Bend radius (Min)	30mm / 1.2”
Spacing between cuttable sections	16.6mm / 0.66”
Environmental operating temperature	0°C to 50°C 32°F to 122°F
Environmental operating humidity	5- 95% (non-condensing)
Weight (5m roll)	0.18Kg / 0.40lbs
Shipping dimensions (Single Roll)	240 * 215 * 16mm 9.45 * 8.47 * 0.63”
Shipping weight (Carton of 5 rolls)	0.80Kg / 1.76lbs
Shipping dimensions (Carton of 5 rolls)	260 * 225 * 93mm 10.24 * 10.04 * 3.66”
Warranty	1 year return to base manufacturer warranty

Certification

Box contents

- 1* 4m 8PX60 reel
- 1* 3Pin JST SM connector
- Installation sheet

Connections

3PIN JST SM Connector:

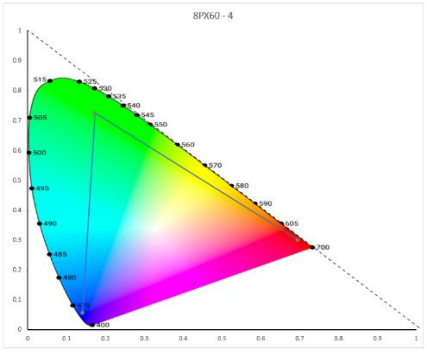
- 5V
- GND: 0V
- DI: Data In

Visit the ENTTEC Knowledge base for wiring guides.

Safety

- Ensure all cabling is rated to handle the current of each pixel strip section. (The default JST SM connectors are to be used for testing purposes to ensure data integrity and are not rated for the maximum power draw).
- Make all connections and ensure your installation is appropriately fused before powering it.
- Handle with care and adhere to the LED Pixel Strip instruction sheet.
- Pixel strips produce heat; ensure proper thermal management by attaching to a thermally conductive surface and providing 150mm / 6” for convection.
- This product is intended for indoor use only. Do not expose to moisture, doing so will void the warranty.
- Never plug this product into a dimmer.

Color Gamut Chart



Ordering information

For further support and to browse ENTTEC’s range of products visit the ENTTEC website.

Item	SKU
RGBW PIXEL TAPE 60 LEDS/METER 5V - 4M Roll	8PX60-4