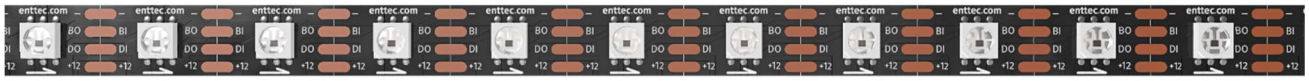
8PX60-12-B – Datasheet

12V 60 pixel/per meter RGB pixel strip with black PCB.

AUSTRALIAN DESIGNED



ENTTEC 8PX60-12-B is a 12v 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.

The 8PX60-12-B's black PCB makes it perfectly suited for installing in direct view where the black PCB will allow it to be lost in the darkness when all pixels are off.

A key feature of ENTTEC's 8PX60-12 pixel strips is their 'Data Backup' line feature, this allows single pixels to be damaged on the strip, but still allow data to pass without effecting your mapping.

It's fast 2KHz scan rate and 8-bit color depth means graphics and animations played back are smooth and consistent.

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 standard LED strips available on the market. This in combination with the 12v operating voltage allows up to a 5m run with a single power injection.

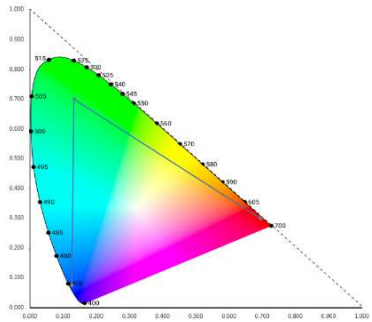
Features

- **RGB, 3 in 1 full color LED pixel strip.**
- **Premium flexible black 3oz copper PCB's.**
- **Individually addressable led pixels, suitable for stage, entertainment and architectural applications.**
- **12V DC input supply voltage.**
- **60 Pixels/meter density.**
- **Back up data line BI/BO (In/Out).**
- **WS2815 IC chips.**
- **16.7 million possible shades.**
- **120-degree illumination.**
- **3M adhesive double side tape on the rear.**
- **Built-in data signal reshaping circuit.**
- **High LED density.**
- **Can be cut or joined at each copper tab.**
- **IP20 Indoor use only.**
- **Designed for use with ENTTEC pixel products.**
- **Maximum 8.5 Watts/Meter.**

Specification

Connectors	2* 4Pin JST SM connectors (3A max)
IP rating	IP20
Input voltage	12v
Watts/meter (max)	8.5
Lumens/meter (max)	122
Efficacy (Lm/Watt)	14.9
DMX channels/pixel	3
Beam angle	120 °
Control protocol	WS2815
Backup data line	Yes
Pixel mapping order	GRB
PCB color	Black
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

Color Gamut Chart



Certification

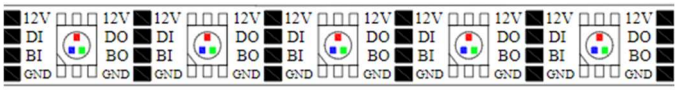
Box contents

- 1* 5m 8PX60-12-B reel
- 1* 4Pin JST SM connector (3A max)
- Installation sheet

Connections

4PIN JST SM Connector:

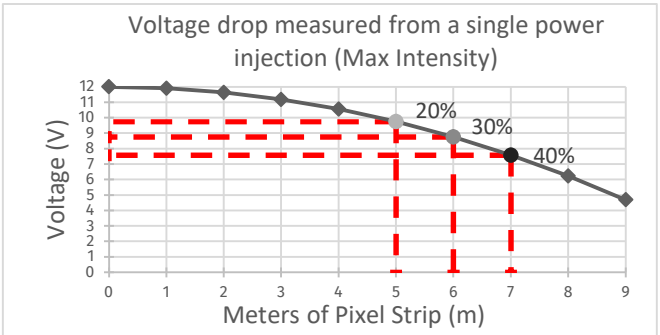
- 12V
- DI: Data In
- BI: Backup In
- GND: 0V



Visit the ENTTEC Knowledge base for wiring guides.

Safety

- Ensure all cabling is rated to handle the current of each pixel strip section. ENTTEC recommend separate wiring soldered directly to the strip, to substitute the original JST SM connector for sections exceeding 3A current consumption.
- 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.
- 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.



Ordering information

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

Item	SKU
RGB PIXEL STRIP 60 LEDs/METER 12V – 5-METER ROLL BLACK	8PX60-12-B

enttec.com

MELBOURNE AUS / LONDON UK / RALEIGH-DURHAM USA

Due to constant innovation, information within this document is subject to change.