ENTTEC

8PXA60-RGBW-12V-W Datasheet

12V RGBW pixel strip with 60 LEDs per metre on white PCB.

AUSTRALIAN DESIGNED

ENTTEC 8PXA60-RGBW-12V-W is an installation grade 12V 60 LEDs per metre addressable RGBW LED Pixel Strip designed for professional architectural and entertainment purposes, used to display smooth animated graphics achieving soft pastels and saturated colours on a large scale.

Cut and join into any conceivable shape.

The white PCB makes it perfectly suited to installing in extrusions and lightboxes where it contributes to reflecting as much light forward as possible.

It's 800 Kbps transmission rate and 8-bit colour depth means graphics and animations are played back smoothly and consistently.

At ENTTEC, manufacturing quality and attention to detail is paramount. We always use thicker PCB to offer more durability, better heat dissipation and reduced voltage drop when compared to other LED strips available on the market. This in combination with the 12V operating voltage allows up to a 7m run with a single power injection.

Feature

- **RGBW, 4 in 1 full colour LED pixel strip.**
- **Premium flexible white 3oz copper PCB.**
- **Suitable for stage, entertainment and architectural applications.**
- **12V DC input supply voltage.**
- **60 LEDs per metre density.**
- **SK6805 IC chips (compatible with the SK6812 protocol).**
- **4.29 billion possible shades per LED.**
- **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 21.8 Watts/Metre.**

ENTTEC

Specification

Connectors	2* 3Pin JST SM connectors (3A Max)
IP Rating	IP20
Input Voltage	12V
Watts/Metre (Max)	RGB: 5.2W
	W: 10.1W
	Total: 21.8 W
Lumens/Metre (Max)	RGB: 432.8
	W: 700
	Total: 1,088
Efficacy (Lm/Watt)	49.82
DMX Channels/Pixel	4
Beam Angle	120 °
Control Protocol	SK6805 IC chips (compatible with SK6812 protocol.)
PWM Frequency	4KHZ
Data Transmission Rate	800KHZ
Backup Data Line	No
Pixel Mapping Order	GRBW
White Temperature	4000K
PCB Colour	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

Box Contents

- 1* 5m 8PXA60-RGBW-12V-W reel
- 1* 3Pin JST SM connector (3A max)

Connections

3PIN JST SM Connector:

- +12V
- DO/DI: Data Out/Data In
- GND: Ground

Visit the ENTTEC knowledgebase for wiring guides.

Certification

Maximum Run Length

Colour and lumen output will be affected if maximum length is exceeded. Test conducted at maximum brightness using 5-12volt driver.

POWER INJECTION	LED PER METRE	MAXIMUM LENGTH		
		WHITE	RED, GREEN, BLUE	ALL ON
SINGLE	60	7m	7m	4m
DUAL	60	12m	14m	8m

Note: Maximum length of pixel strip run is limited by maximum universes of data from the driver.

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 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.

Ordering Information

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

Item	SKU
RGBW PIXEL STRIP 60 LEDs/ METRE 12V – 5-METRE ROLL WHITE	8PXA60-RGBW-12V-W

enttec.com

MELBOURNE AUS / LONDON UK / RALEIGH-DURHAM USA / DUBAI UAE
Due to constant innovation, information within this document is subject to change.