

traxon

1PXL Strip RGB



The Traxon 1PXL Strip RGB offers even color with a wide beam angle. Its slim profile, together with the plug and play TX Connect system ensure high design flexibility. With auto-addressing ON/OFF function, this strip maximizes the number of products that can be controlled within a standard DMX universe.



INDOOR

PRODUCT SPECIFICATIONS

- **Light Source:** 12 High intensity Nichia SMT LEDs
- **Color Range:** 16.7 million additive RGB colors
- **Color Resolution:** 14-bit (Gamma correction)
- **Beam Angle:** 120°
- **Luminous Flux:** 93.6 lm
- **Efficacy:** 25 lm/W
- **Cover Lens:** –
- **LED Pitch:** 24.5mm / 0.96"
- **Housing:** –
- **Adjustment Options:** –
- **Size:** 288mm (L) x 27mm (W) x 13.5mm (D) / 11.34" (L) x 1.06" (W) x 0.53" (D)
- **Weight:** 50g / 0.11lbs
- **Regulatory Listing & Safety Approval:** CE, FCC, cETLus
- **Operating Temperature:** 0°C to +40°C / 32°F to +104°F
- **Storage Temperature:** -20°C to +70°C / -4°F to +158°F
- **Environment:** Indoor
- **Humidity:** 0~90%, non-condensing

ELECTRICAL SPECIFICATIONS

- **Operating Voltage:** 24V DC
- **Power Consumption:** 6W max.

SYSTEM SPECIFICATIONS

- **Power/Data Interface:** TX CONNECT Smart
- **Control:** DMX512
- **Power Supply:** LED Engine Smart 100W Indoor (see Ordering page for details)
- **Addressing Options:** Auto-Addressing ON/OFF

LED CHARACTERISTICS Because LEDs are semiconductor devices, their performances are subject to inherent variability commonly found in semiconductor industry. To improve consistency in performance across the same product, LED manufacturers "sort" LEDs into bins according to different preset parameters, such as forward driving voltage, illumination, etc. Whereas binning is a sorting function, it is not a correction process. Inherent variability in the manufacturing process results always in different binning distributions according to different production lots. Traxon uses automatically binned LEDs on its products, thereby minimizing output variations within the model range.

As with all electronic devices, LED output degrades over time – a term called lumen depreciation. This also explains why it is nearly impossible to expect photometric performances of two LED products with different service life spans to be the same. The rate of LED degrade is a complicate function of many factors such as operating efficiency, duration of continuous operation, and more significantly, environmental conditions (ambient temperature for example). If allowed working under optimal operating temperature range and with good ventilation, LED devices enjoy long service lives over conventional light sources. When using/installing LED devices, care should be taken to ensure that the devices will operate within the operating conditions specified in respective product literature.

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Photometrics

SOURCE SPECIFICATIONS

Source: 12 LEDs packaged in RGB

Optics: 120°

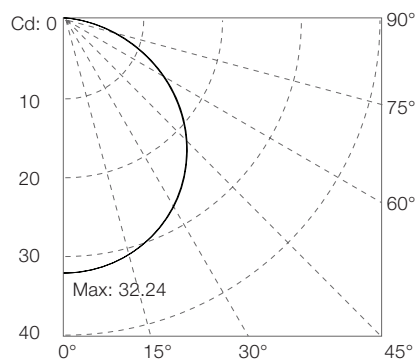
Distribution: Asymmetric direct illumination

CCT: –

CANDELA DISTRIBUTION

LIGHT OUTPUT

- Measured on: White
- Beam angle (50% I_{max}): 114°



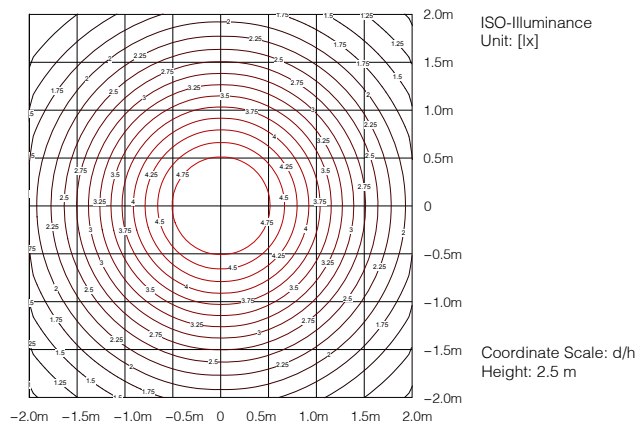
Color	Luminous Flux (lumens)	Power (Watts)	Efficacy (Lm/W)
White	93.61	3.74	25.03
Red	29.03	1.49	19.48
Green	56.81	1.89	30.06
Blue	10.26	1.08	9.50

ILLUMINANCE

Distance	10cm/3.9"	25cm/9.8"	50cm/19.7"	72cm/29.5"	100cm/39.4"
Lux	3224	516	129	57	32
50% I _{max} (diameter)	31cm/12.2"	77cm/30.3"	154cm/60.6"	231cm/90.9"	308cm/121.2"

• Measured on: White

ILLUMINANCE DISTRIBUTION



Photometric measurements are carried out by an independent laboratory.
IES and LDT files are available for download from the Traxon website.

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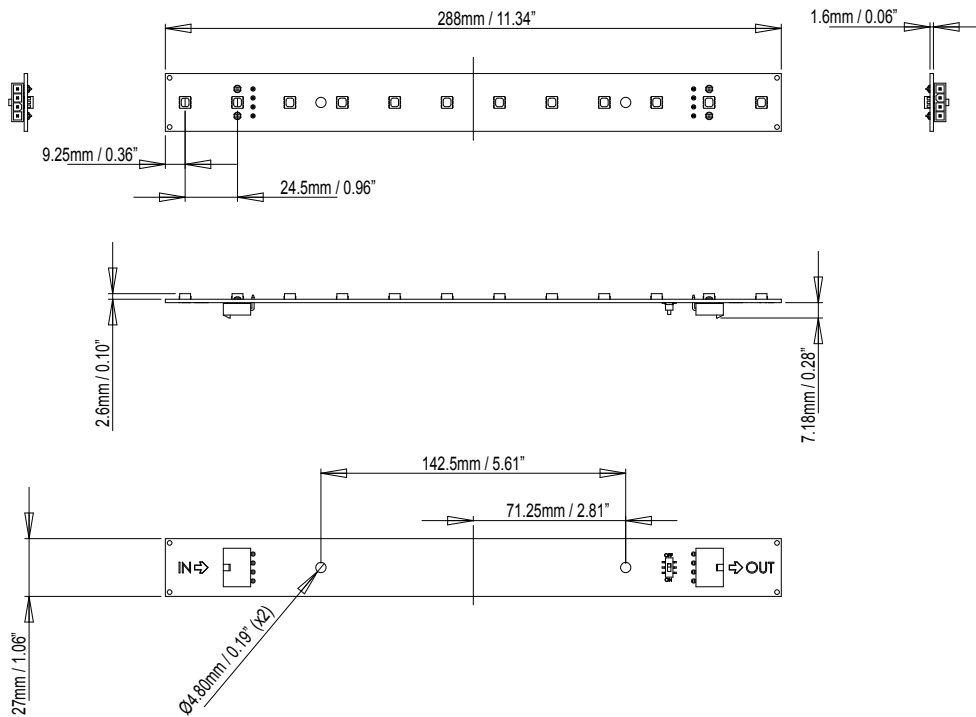
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Dimensions

TECHNICAL DRAWING



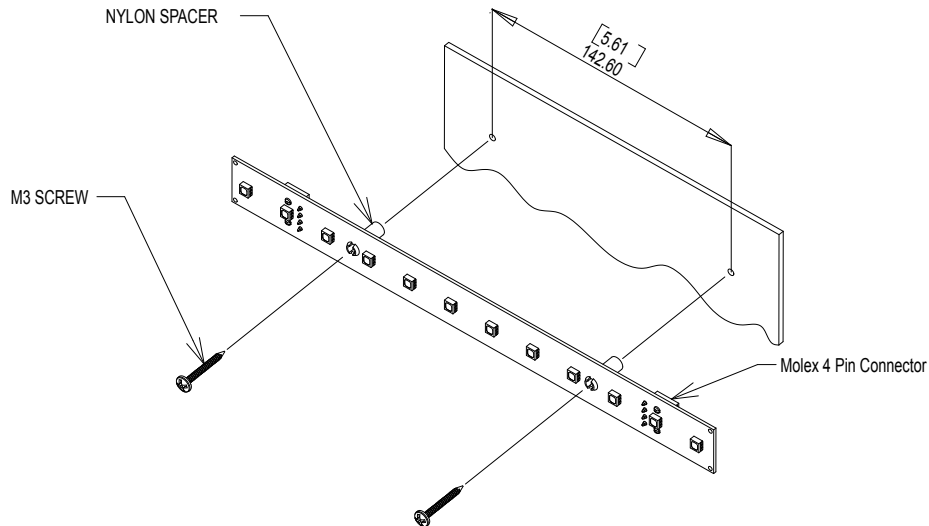
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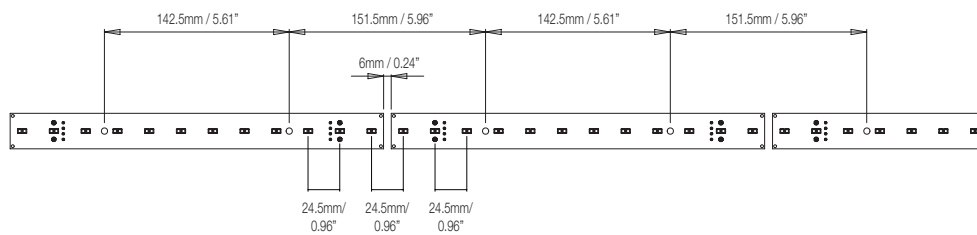
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MOUNTING

Monochrome Strip CW/WW



Multiple Strip Mounting

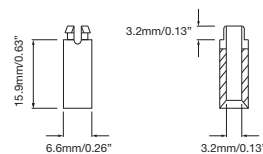


Precautions when mounting the Strip RGB

The Strip RGB is a printed circuit board (PCB) with bare solder contacts on both sides, precautions must be taken when mounting the Strip to ensure the PCB is not short-circuited.

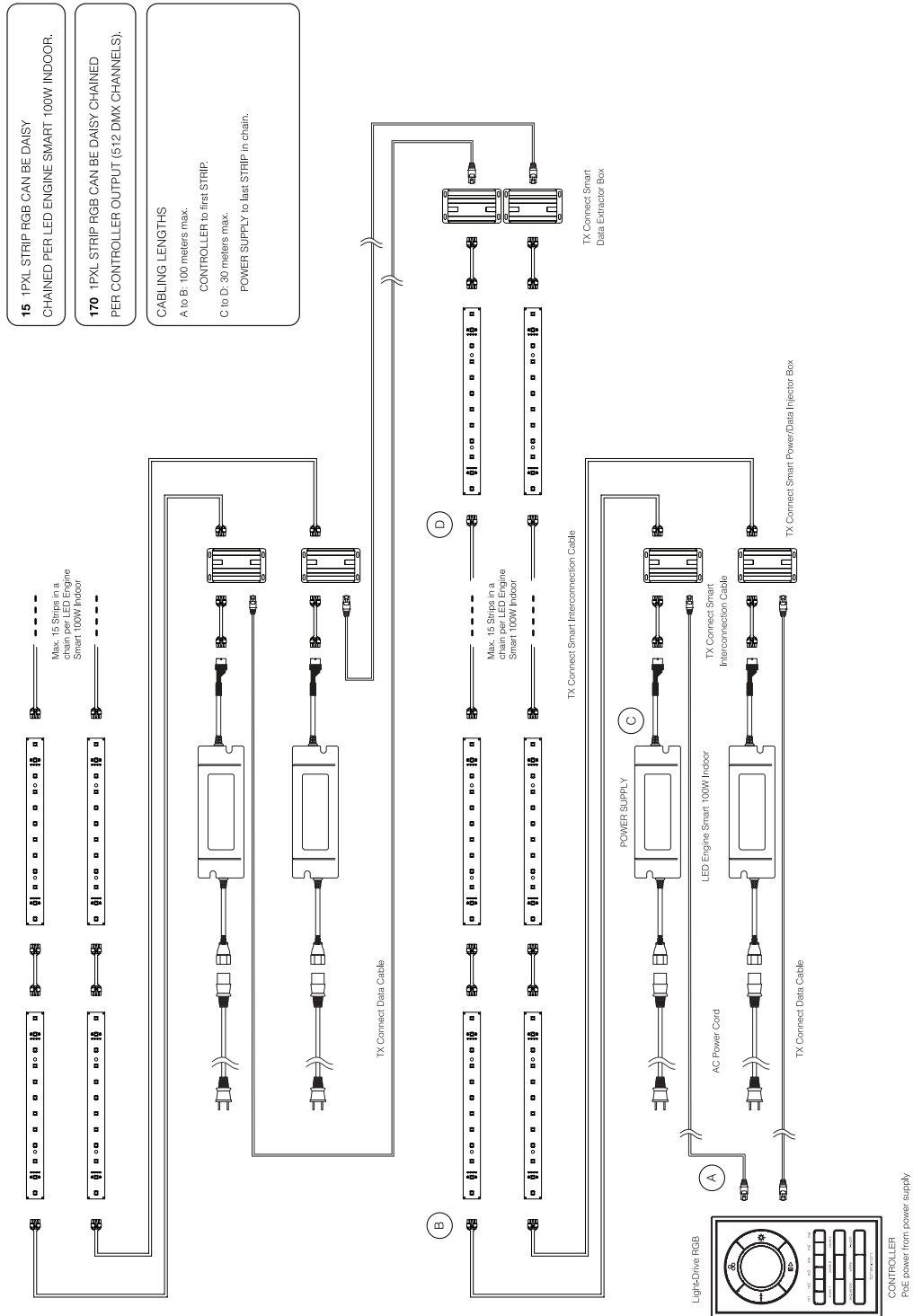
Always unplug the power supply from the mains before connecting any cables.

Mounting Accessories



Nylon Spacer Dimensions

SYSTEM DIAGRAM





1PXL Strip RGB

Ordering

FIXTURES

Model No.	Description	Item Code
MB.ST.5010000	1PXL Strip RGB	A63349B0155

STANDARD ACCESSORIES (included in delivery)

Model No.	Description	Item Code
TI.IC.0004000	TX CONNECT Smart Indoor Interconnection Cable, 4cm/1.57"	AA438900055
N/A	1x Strip RGB Mounting Kit (2x Screws, 2x Nylon Spacers)	N/A

TX CONTROL

Model No.	Description	Item Code
EN.BU.0000001	Butler S2	AA624080072
SC.CD.5000000	Light-Drive RGB (Black)	A6331730155
SC.CD.5000100	Light-Drive RGB (White)	A6332550155
SC.AC.0100101	Light-Drive RGB IR Remote Control	AA439180055

TX CONNECT

Model No.	Description	Item Code
TI.ZI.0000100	TX CONNECT Smart Power/Data Injector Box	A704836003J
TI.DO.0000100	TX CONNECT Smart Data Extractor Box	A704842003J
TI.EC.0050000	TX CONNECT Smart Indoor Extension Cable, 0.5m/1.64ft	AA556350055
TI.EC.0100000	TX CONNECT Smart Indoor Extension Cable, 1m/3.28ft	A6342330055
TI.EC.0300000	TX CONNECT Smart Indoor Extension Cable, 3m/9.84ft	A6342410055
TI.EC.0500000	TX CONNECT Smart Indoor Extension Cable, 5m/16.4ft	AA580410055
TI.EC.1000000	TX CONNECT Smart Indoor Extension Cable, 10m/32.8ft	A6342680055
DI.IC.0100000	TX CONNECT Data Cable, 1m/3.28ft	AA556130055

TX POWER

Model No.	Description	Item Code
PS.IA.0010000	LED Engine Smart 100W Indoor	AA624090055
PS.AC.0000100	AC Power Cord, 2m/6.6ft (EU)	AA553860055
PS.AC.0000200	AC Power Cord, 2m/6.6ft (US)	AA556290055
PS.AC.0000300	AC Power Cord, 2m/6.6ft (UK)	AA556300155
PS.AC.0000400	AC Power Cord, 2m/6.6ft (AU)	AA556310055