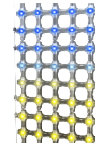


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## Mesh RGB



The Mesh unit comprises eight grid-elements, connected by flexible joints, giving it the ability to contour the most demanding surfaces. Each Mesh unit has 160 (5 x 32) individually controllable pixels. The control possibilities range from DMX and e:pix over DVI and its IP67 rated UV-resistant material makes it suitable for a variety of outdoor applications.



### PRODUCT SPECIFICATIONS

- **Light Source:** 160 (5 x 32) High intensity Nichia SMT LEDs
- **Color Range:** 16.7 Million additive RGB colors
- **Color Resolution:** 3 x 14-bit (Gamma correction)
- **Beam Angle:** 120°
- **Luminous Flux:** 113 lm (1 x Mesh grid; 1/8 x Mesh unit)
- **Efficacy:** 12.4 lm/W
- **Luminance:** 600 cd/m<sup>2</sup> (nits) - (1 x Mesh grid; 1/8 x Mesh unit)
- **Cover Lens:** –
- **LED Pitch:** 62.5mm / 2.46"
- **Housing:** Polycarbonate molding (CAST-UV protected)
- **Adjustment Options:** Grid sections (5 x 4 matrix) on hinge
- **Size:** 296mm (W) x 2008mm (H) x 16mm (D) / 11.65" (W) x 79" (H) x 0.64" (D)
- **Weight:** 4.2kg / 9.2lbs (Mesh unit: 3kg/6.6lbs; Pixel distributor: 0.9kg/1.98lbs; Mounting wires: 0.3kg/0.66lbs)
- **Regulatory Listing & Safety Approval:** CE, FCC, cETLus, AAMA 501.1-05
- **Operating Temperature:** –20°C to +50°C / –4°F to +122°F
- **Storage Temperature:** –40°C to +70°C / –40°F to +158°F
- **Environment:** Outdoor (Mesh Unit: IP67; Pixel Distributor: IP66)
- **Humidity:** 0 to 90%

### ELECTRICAL SPECIFICATIONS

- **Operating Voltage:** 24V DC
- **Power Consumption:** 98W max. (Pixel Distributor and Mesh Unit)

### SYSTEM SPECIFICATIONS

- **Power/Data Interface:** TX CONNECT Smart
- **Control:** DMX512, e:pix/DVI capable
- **Power Supply:** LED Engine Smart 150W Indoor / Outdoor (see Ordering page for details)
- **Addressing Options:** Auto-Addressing

This product is NOT suitable for coastal environments. Any such installation will void the product warranty.

**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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## SOURCE SPECIFICATIONS

**Source:** 20 LEDs packaged in RGB (1x Mesh grid; 1/8 x Mesh unit)

**Optics:** 120°

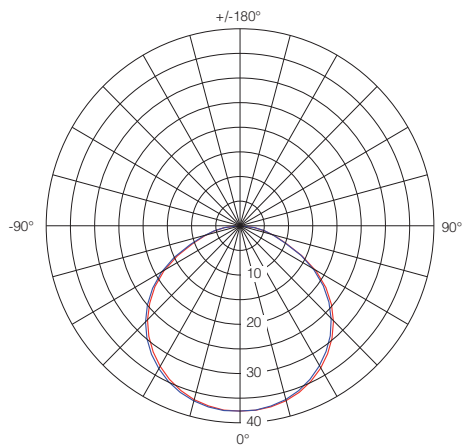
**Distribution:** Asymmetric direct illumination

**CCT:** -

## CANDELA DISTRIBUTION

## LIGHT OUTPUT

- Measured on: White
- Beam angle (50% I<sub>max</sub>): 118.3°



Color	Luminous Flux (lm)	Power (Watts)	Efficacy (lm/W)
White	113	9.1	12.42
Red	36.5	3.2	11.41
Green	64	3.2	20.00
Blue	19.6	3.2	6.13

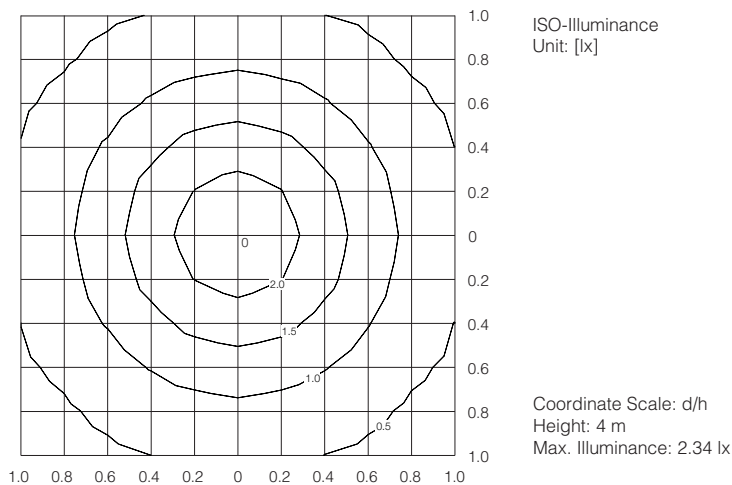
- Luminance: 600 cd/m<sup>2</sup> (nits)

## ILLUMINANCE

Distance	10cm/3.9"	25cm/9.8"	50cm/9.7"	75cm/29.5"	100cm/39.4"
Lux	3751	600	150	67	38
50% I <sub>max</sub> (diameter)	33cm/13.0"	84cm/33.1"	167cm/65.7"	251cm/98.8"	335cm/131.9"

- Measured on: White

## ILLUMINANCE DISTRIBUTION



Photometric measurements carried out by an independent laboratory

Measurements for other optics, IES and LDT files are available for download from the Traxon website

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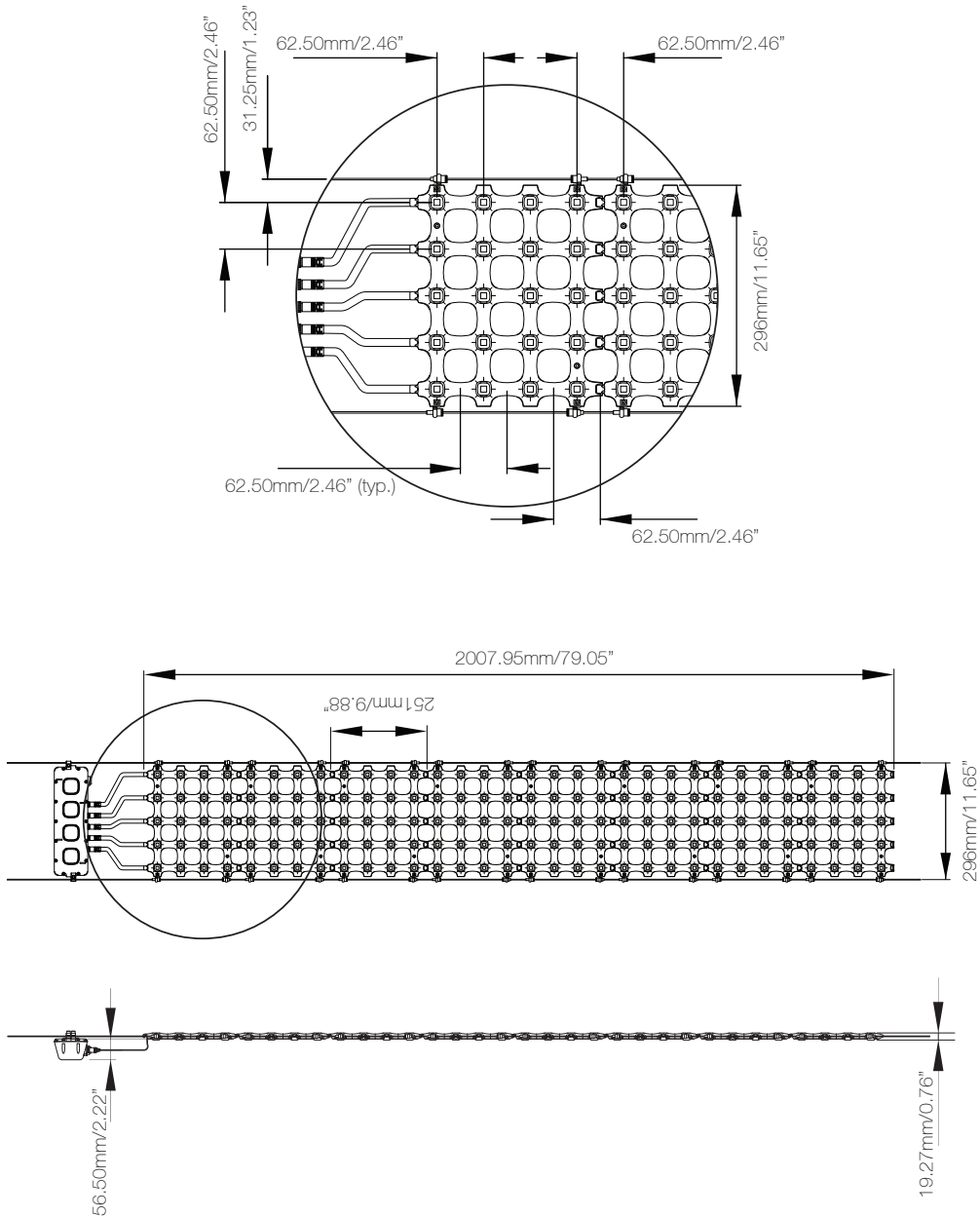
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Mesh RGB

## Dimensions

### TECHNICAL DRAWING



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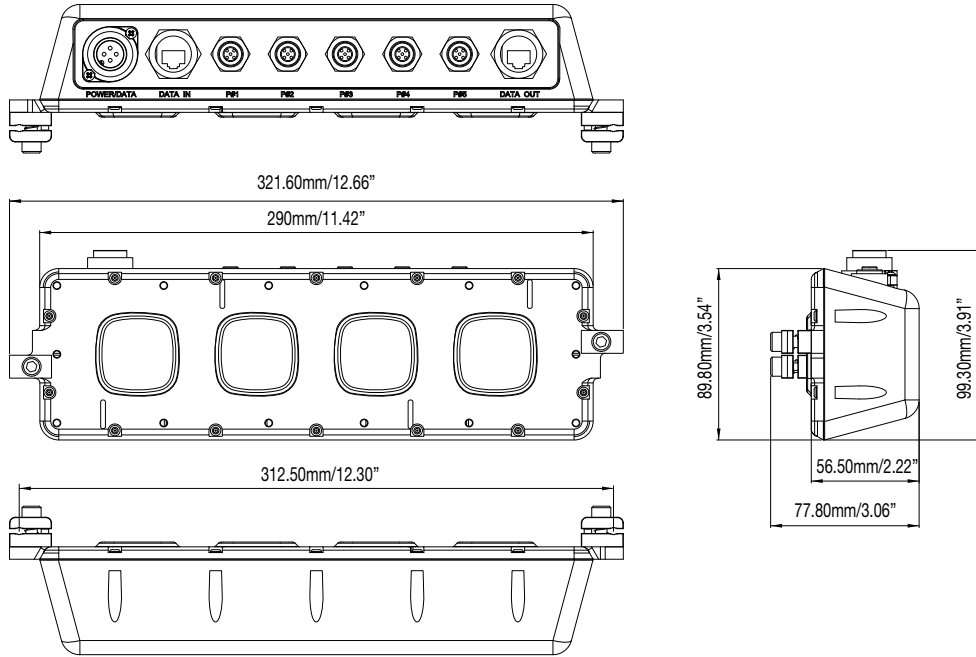
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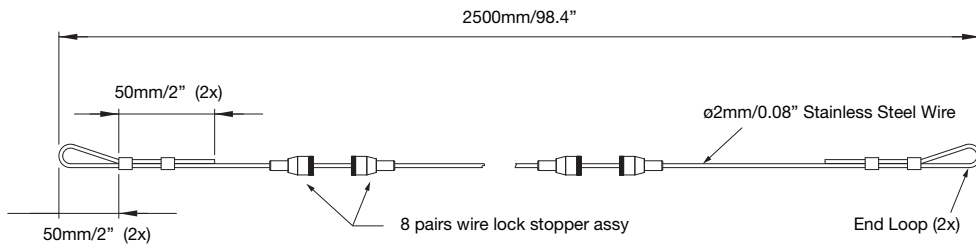


## TECHNICAL DRAWING

### Pixel Distributor

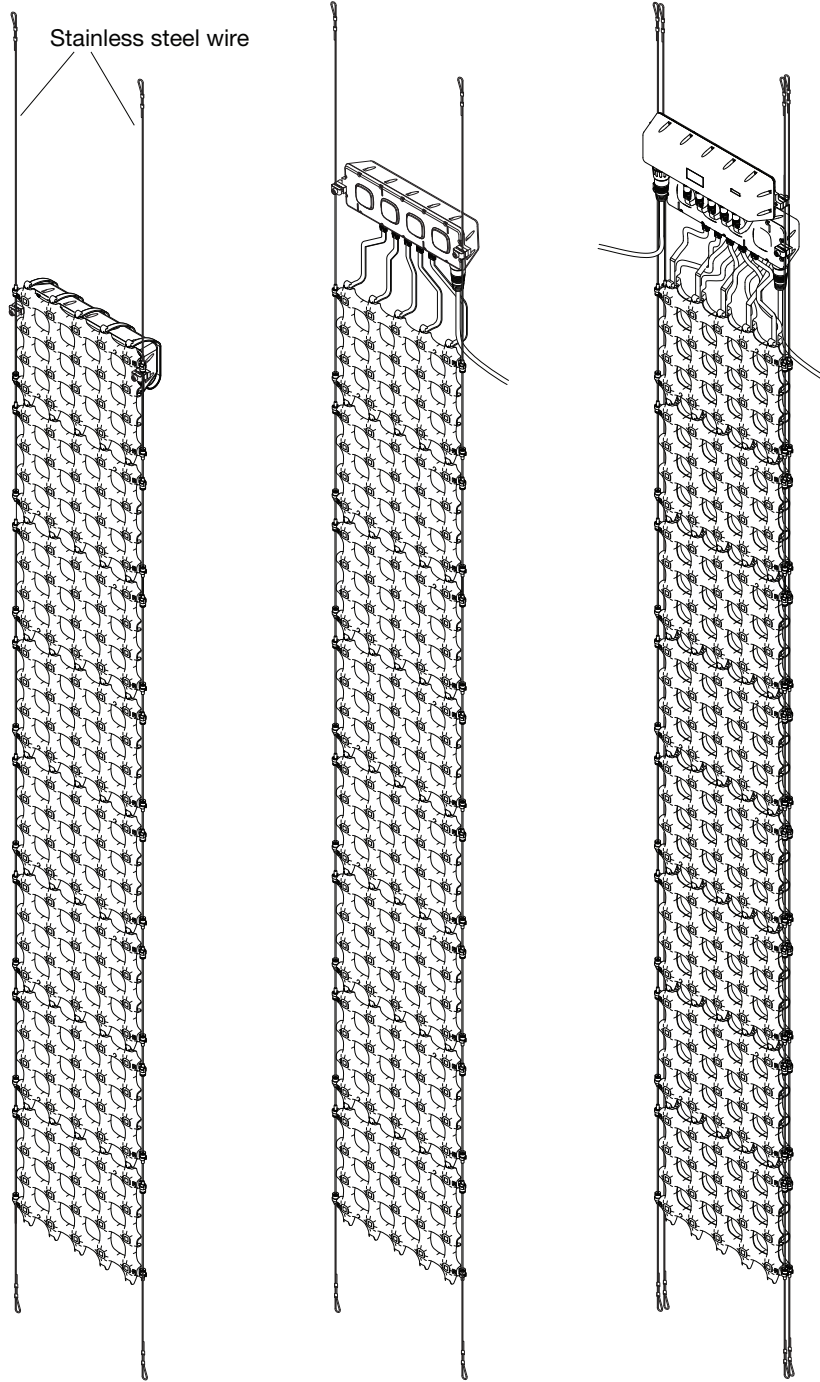


### Mount Wire (2x)





MOUNTING



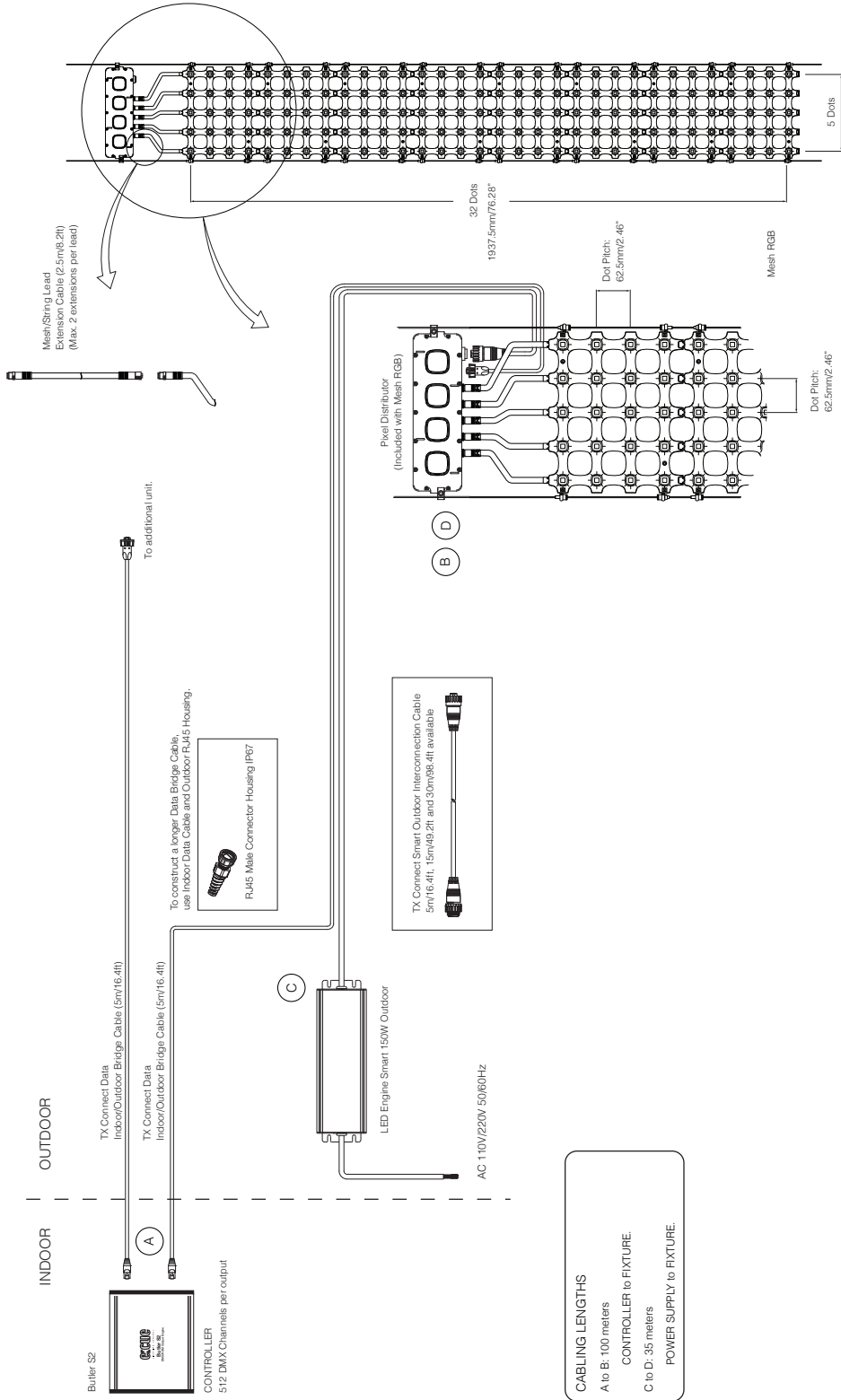
Pixel Distributor mounted behind Mesh unit

Pixel Distributor mounted above Mesh unit

Pixel Distributor mounted above back-to-back Mesh units

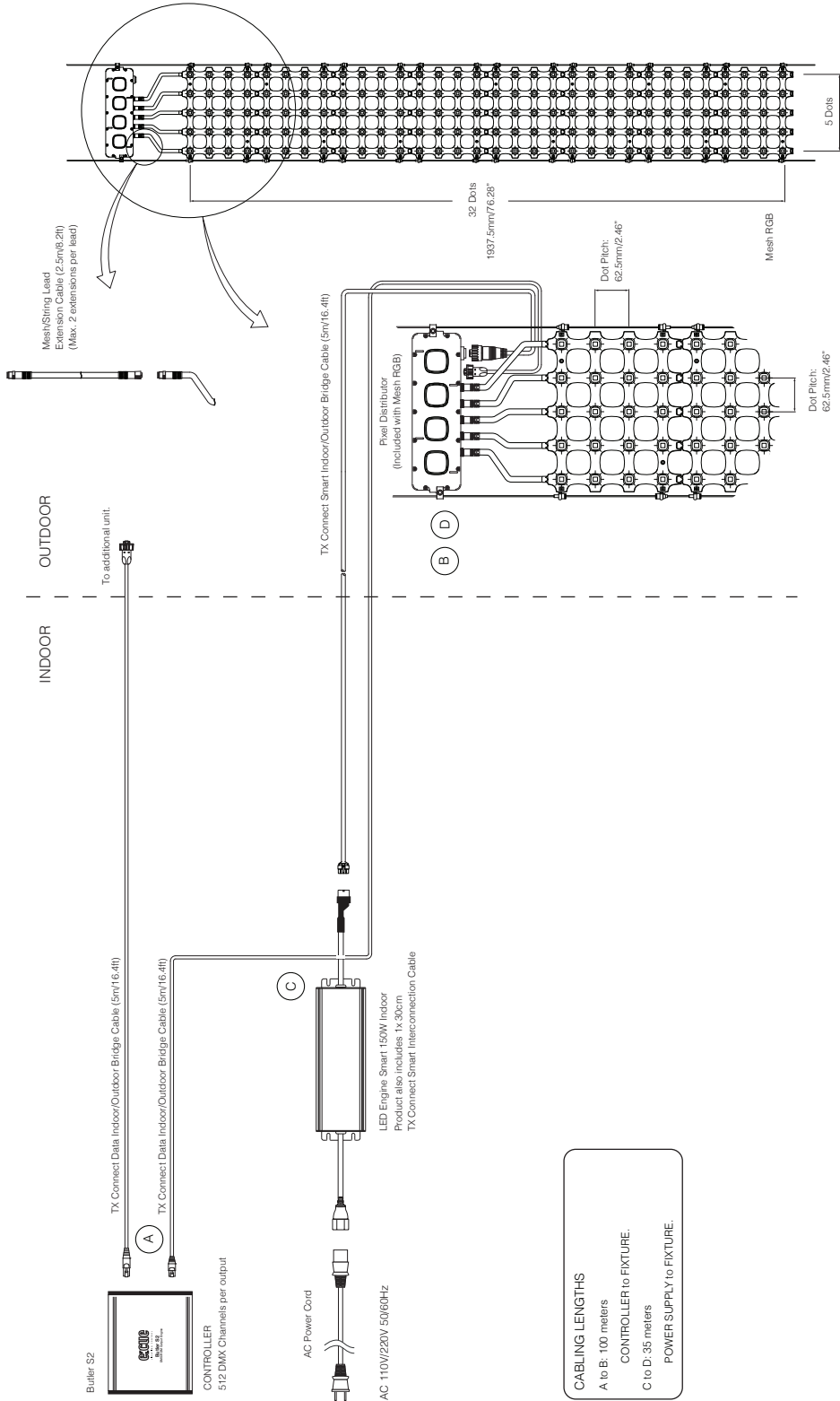


SYSTEM DIAGRAM – OUTDOOR SYSTEM



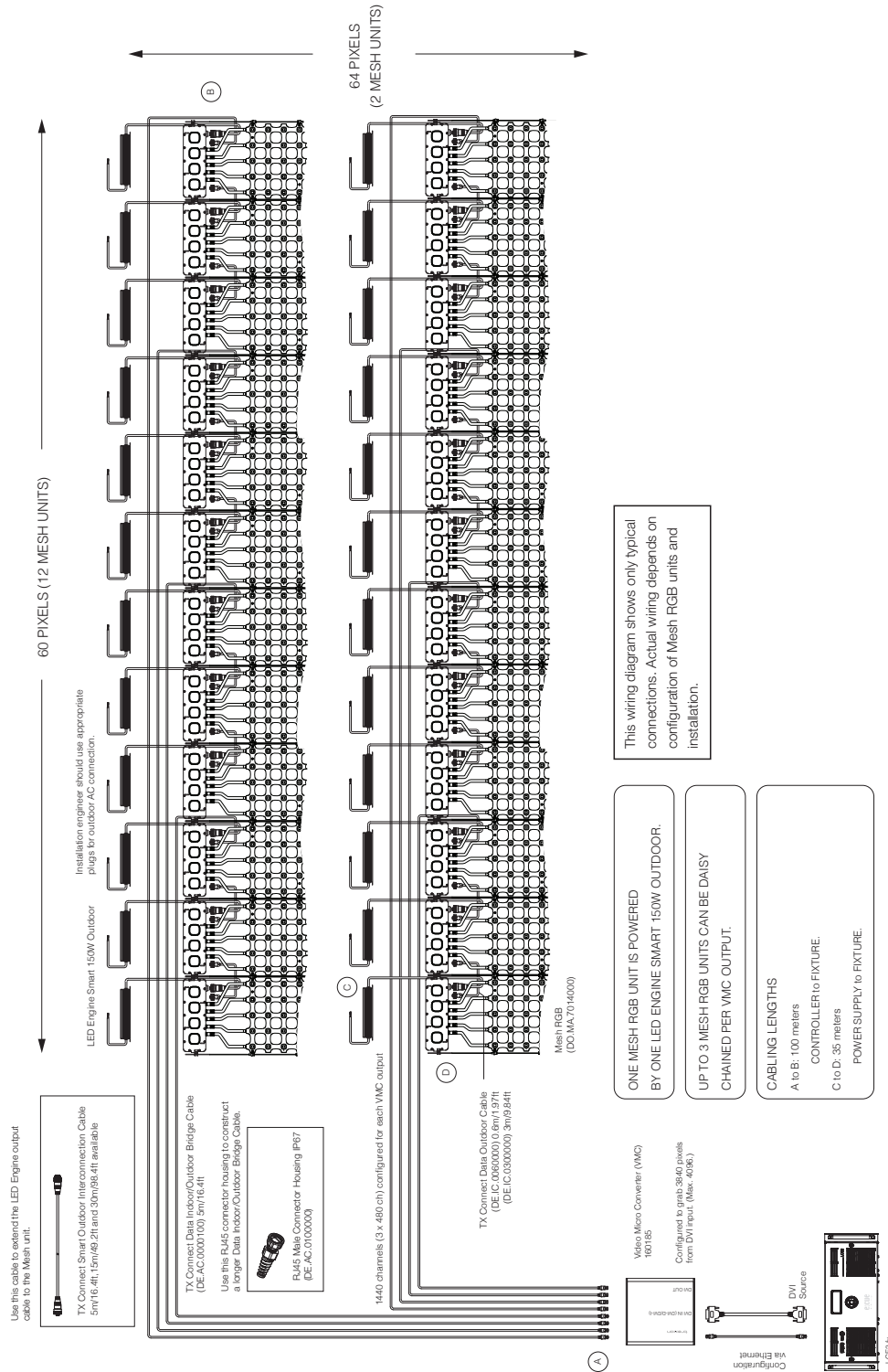


### SYSTEM DIAGRAM – INDOOR SYSTEM





### SYSTEM DIAGRAM – OUTDOOR SYSTEM CONTROLLED BY VMC





# traxon



Mesh RGB

Ordering

## FIXTURE

Model No.	Description	Item Code
DO.MA.7014001	Mesh RGB	AA558850055

## STANDARD ACCESSORIES (included in delivery)

Model No.	Description	Item Code
N/A	1x Pixel Distributor, 2x Mounting Brackets, 2x Mounting Wire + Stoppers, 2x ST Screws, 16x Screws (back-to-back mounting)	N/A

## OPTIONAL ACCESSORIES

Model No.	Description	Item Code
DO.AC.0001500	Stainless Steel Wire, 10m	AA612520055
DO.AC.0001700	16x Steel Wire Stoppers	AA533150055

## TX CONTROL

Model No.	Description	Item Code
EN.LC.9400000	LCE2 fx	AA629460035
EN.BU.0000001	Butler S2	AA624080072
160185	Video Micro Converter (DMX/e:pix)	AA438940235

## TX CONNECT

Model No.	Description	Item Code
TI.ZI.0000100	TX CONNECT Smart Indoor Power/Data Injector Box	A704836003J
DO.AC.0000700	Mesh/String Lead Extension Cable, 2.5m/8.4ft	AA556160155
TE.AC.0000100	TX CONNECT Smart Indoor/Outdoor Bridge Cable, 5m/16.4ft	AA438890055
DE.AC.0000100	TX CONNECT Data Indoor/Outdoor Bridge Cable, 5m/16.4ft	AA508850055
TI.EC.0100000	TX CONNECT Smart Extension Cable, 1m/3.28ft	A6342330055
TI.EC.0300000	TX CONNECT Smart Extension Cable, 3m/9.84ft	A6342410055
TI.EC.0500000	TX CONNECT Smart Extension Cable, 5m/16.4ft	AA580410055
TI.EC.1000000	TX CONNECT Smart Extension Cable, 10m/32.8ft	A6342680055
TE.IC.0500000	TX CONNECT Smart Outdoor Interconnection Cable, 5m/16.4ft	AA438920055
TE.IC.1500000	TX CONNECT Smart Outdoor Interconnection Cable, 15m/49.2ft	AA438910055
TE.IC.3000000	TX CONNECT Smart Outdoor Interconnection Cable, 30m/98.4ft	AA556320055
DI.IC.0300000	TX CONNECT Data Cable, 3m/9.8ft	A63408C0055
DI.IC.0500000	TX CONNECT Data Cable, 5m/16.4ft	AA556140055
DI.IC.1000000	TX CONNECT Data Cable, 10m/32.8ft	A6341040055
DI.IC.2000000	TX CONNECT Data Cable, 20m/65.6ft	AA556150055
DE.IC.0060000	TX CONNECT Data Outdoor Cable, 0.6m/1.97ft	AA438800055
DE.IC.0300000	TX CONNECT Data Outdoor Cable, 3m/9.84ft	AA438810055
DE.AC.0100000	RJ45 Male Connector Housing IP67	AA556100155

## TX POWER

Model No.	Description	Item Code
PS.IC.0010000	LED Engine Smart 150W Indoor 24V	AA5571301HA
PS.OA.0010000	LED Engine Smart 150W Outdoor 24V	AA6241000HA
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

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