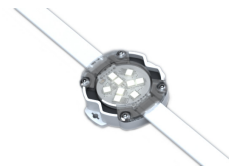


Dot XL-6 RGB

Dot XL-9 RGB



DO.XB.7100000
DO.XC.7100000
DO.YB.7100000
DO.YC.7100000

The Traxon Dot XL RGB is an extra bright clear or diffused dot, with 6 or 9 LEDs per dot casing. The dots are constructed on a flexible cable with a customizable pitch containing up to 32 dots (9-LED) or 40 dots (6-LED). The dots are single dot controllable by DMX or e:pix (DVI capable), and are connected per string using the Dot XL Pixel Distributor. The Pixel Distributors can be daisy chained to form large installations.



INDOOR



IP66



IP67

PRODUCT SPECIFICATIONS

- **Model:** DO.XB.7100000 (Dot XL-6, 40PXL, 300mm pitch)
DO.XC.7100000 (Dot XL-9, 32PXL, 300mm pitch)
DO.YB.7100000 (Dot XL-6 with diffuser dome, 40PXL, 300mm pitch)
DO.YC.7100000 (Dot XL-9 with diffuser dome, 32PXL, 300mm pitch)
- **Light Source:** 6 or 9 High intensity Nichia SMD LEDs per dot
- **Color Range:** 16.7 Million additive RGB colors
- **Color Resolution:** 3 x 14-bit (Gamma correction)
- **Brightness:** 42.7 lumens/dot (XL-6); 65.9 lumens/dot (XL-9)
- **Beam Angle:** 120° (clear cover)
- **Cover Lens:** Clear or diffuser dome (PC)
- **LED Pitch:** Manufacture to order; dot-to-dot pitch: 150mm minimum
- **Housing:** Die cast aluminium with PC cover
- **Adjustment Options:** Flexible cable
- **Size:** Ø66mm x 15.6mm / Ø2.6" x 0.6" (Dot) Ø66mm x 36mm / Ø2.6" x 1.4" (Dot with diffuser dome)
- **Weight:** 80g (Dot); 670g (Pixel Distributor)
- **Regulatory Listing & Safety Approval:** CE
- **Operating Temperature:** -20°C to 50°C (-4°F to 122°F)
- **Storage Temperature:** -40°C to 70°C (-40°F to 158°F)
- **Rating:** Outdoor (Dot XL: IP66, IP67 rated; Pixel Distributor: IP66; PSU: IP67 rated)

ELECTRICAL SPECIFICATIONS

- **Operating Voltage:** 15V DC
- **Power Consumption:** 2.5W/dot (XL-6); 3.5W/dot (XL-9)

SYSTEM SPECIFICATIONS

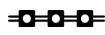
- **Power/Data Interface:** TX CONNECT
- **Control:** DMX or e:pix (DVI capable)
- **Power Supply:** LED Engine 150W 15V Outdoor [PS.OA.0012000]
- **Addressing Options:** Auto-Addressing

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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Dot XL-6 RGB
Dot XL-9 RGB

Photometrics

SOURCE SPECIFICATIONS

Source: 6 LEDs packaged in RGB (One Dot XL-6)

Optics: 120°

Cover Lens: Clear PC

Distribution: Symmetric direct illumination

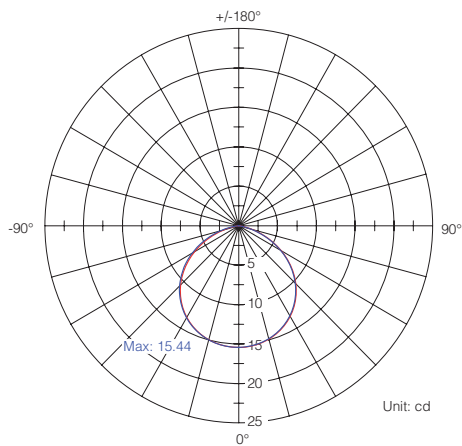
CCT: -

CRI: -

CANDELA DISTRIBUTION

LIGHT OUTPUT

- Measured on: White
- Beam angle (50% I_{max}): 112°



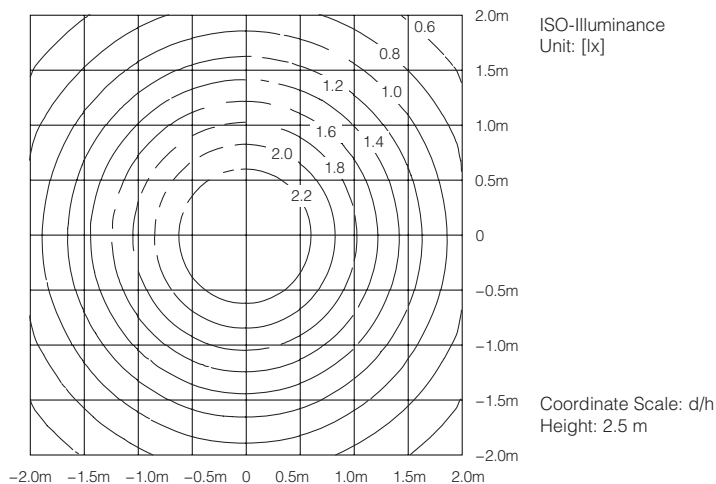
Color	Total Output (lumens)	Power (Watts)	Efficacy (lm/W)
White	42.72	2.4	17.80
Red	12.09	1.5	8.06
Green	28.40	1.9	14.95
Blue	4.34	1.4	3.10

- Luminance: 1544 cd/m² (nits)
(Calculated for a dot pitch of 100mm.)

ILLUMINANCE

Distance	10cm/3.9"	25cm/9.8"	50cm/19.7"	75cm/29.5"	100cm/39.4"	Measured on: White
Lux	1544	247	62	27	15	
50% I _{max} (diameter)	30cm/11.8"	74cm/29.1"	148cm/58.3"	222cm/87.4"	297cm/116.9"	

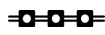
ILLUMINANCE DISTRIBUTION



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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SOURCE SPECIFICATIONS

Source: 9 LEDs packaged in RGB (One Dot XL-9)

Optics: 120°

Cover Lens: Clear PC

Distribution: Symmetric direct illumination

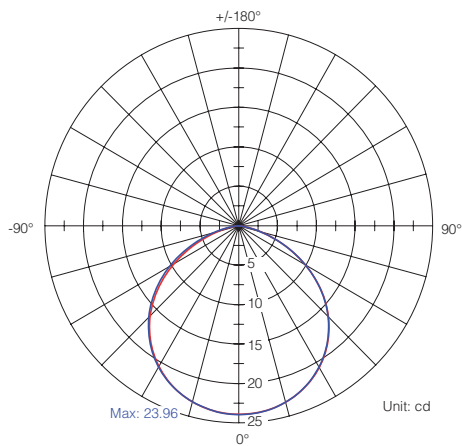
CCT: -

CRI: -

CANDELA DISTRIBUTION

LIGHT OUTPUT

- Measured on: White
- Beam angle (50% I_{max}): 111°



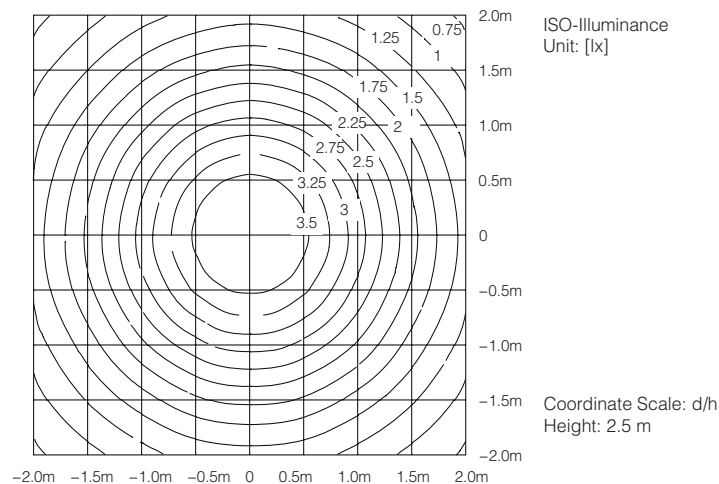
Color	Total Output (lumens)	Power (Watts)	Efficacy (lm/W)
White	65.88	3.3	19.96
Red	19.53	1.9	10.28
Green	42.81	2.5	17.12
Blue	6.97	1.9	3.67

- Luminance: 2396 cd/m² (nits)
(Calculated for a dot pitch of 100mm.)

ILLUMINANCE

Distance	10cm/3.9"	25cm/9.8"	50cm/19.7"	75cm/29.5"	100cm/39.4"	Measured on: White
Lux	2396	383	96	43	24	
50% I _{max} (diameter)	29cm/11.4"	73cm/28.7"	146cm/57.5"	218cm/85.8"	291cm/114.6"	

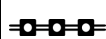
ILLUMINANCE DISTRIBUTION



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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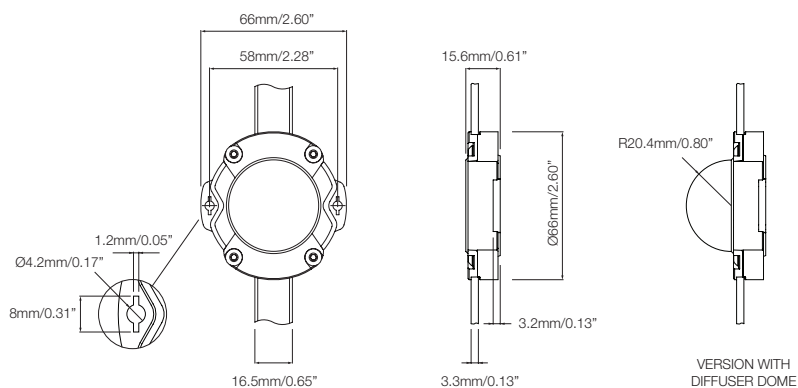


Dot XL-6 RGB
Dot XL-9 RGB

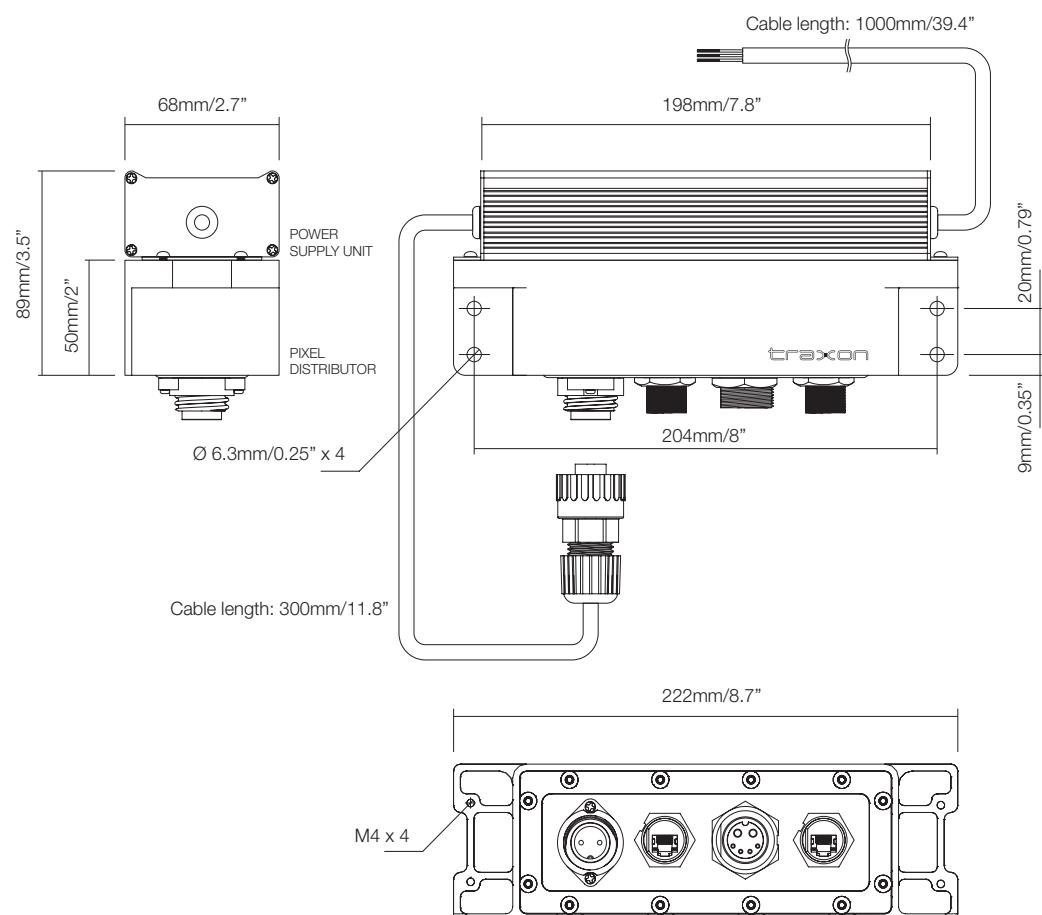
Dimensions

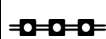
TECHNICAL DRAWING

DOT XL



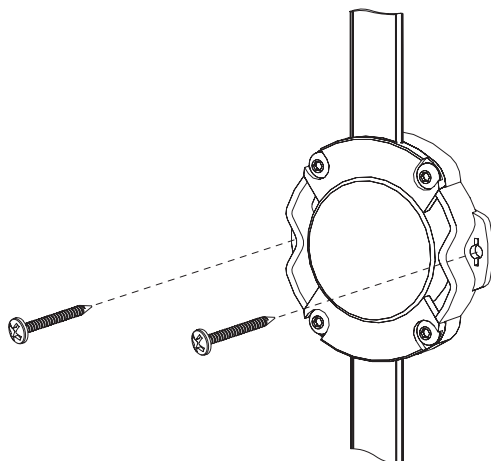
PIXEL DISTRIBUTOR WITH POWER SUPPLY



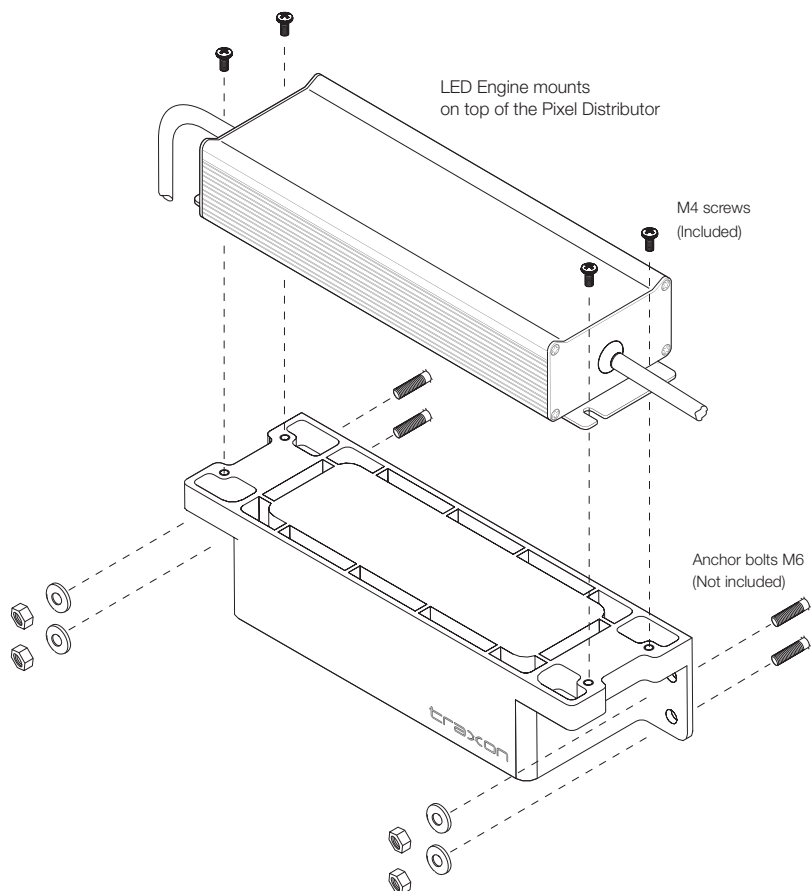


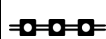
MOUNTING

DOT XL

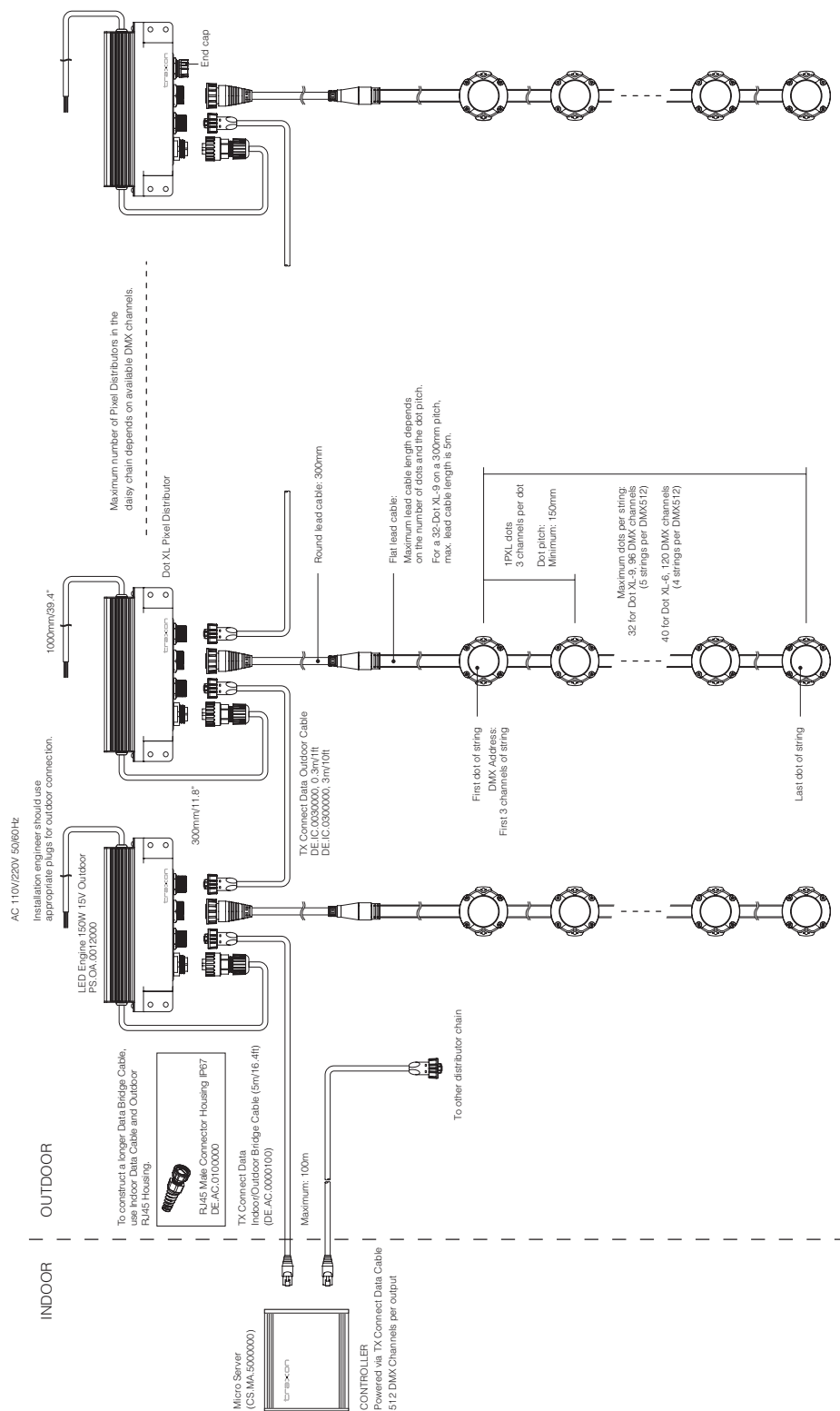


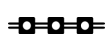
PIXEL DISTRIBUTOR





SYSTEM DIAGRAM - Micro Server





Dot XL-6 RGB
Dot XL-9 RGB

System Diagram

SYSTEM DIAGRAM - Video Micro Converter

