traxon

Date: _____ Quantity: _____

Company: _____

Project: _____

String RGB

Each String RGB consists of 32 high intensity Nichia LEDs in series (per string) with a 62.5mm pitch. The LEDs on the string are single dot controllable by DMX or e:pix, and is connected using the Traxon TX Connect system. Each package comes with 5 String RGBs and a Pixel Distributor. The String RGB is the perfect all-purpose solution for challenging surfaces where unique, eyecatching decoration is desired.

SMART CHIP INSIDE · CE · FC · c ETL us · IP67

Product Specifications

Model	String RGB	String RGB with diffuser dome
Light Source	32 High intensity Nichia SMT LEDs on each string. Total 160 LEDs on 5 strings.	
Color Range	16.7 Million additive RGB colors	
Color Resolution	3 x 14-bit (Gamma correction)	
Viewing Angle	120°	170°
LED Pitch	62.5mm / 2.46”	
Cover Lens	Clear PVC	PC diffuser dome
Housing	Thermoplastic Polyurethane Elastomer	
Housing Color	White / Grey	
Adjustment Options	Flexible cable	
Dimensions (L x W x H)	2300 x 18.8 x 10.5mm (per string) 90.55” x 0.74” x 0.41” (per string)	
Weight	0.3kg / 0.66lbs (per string), 0.9kg / 2lbs (Pixel Distributor)	
Regulatory Listing & Safety Approval	CE, FCC, cETLus	
Operating Temperature	–20°C to 50°C / –4°F to 122°F	
Storage Temperature	–20°C to 70°C / –40°F to 158°F	
Environment	Outdoor (Strings - IP67 rated; Pixel Distributor - IP66 rated)	
Humidity	0 to 90%, non-condensing	

Electrical Specifications

Operating Voltage	24V DC
Power Consumption	98W max. (Pixel Distributor and 5 Strings)

System Specifications

Power/Data Interface	TX CONNECT Smart
Control	DMX512 / e:pix
Power Supply	LED Engine Smart 150W Indoor / Outdoor
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.

Lumen measurement compiles with LM-79-08 standard.
Lumen maintenance is calculated based on LM-80 compliant measurement.

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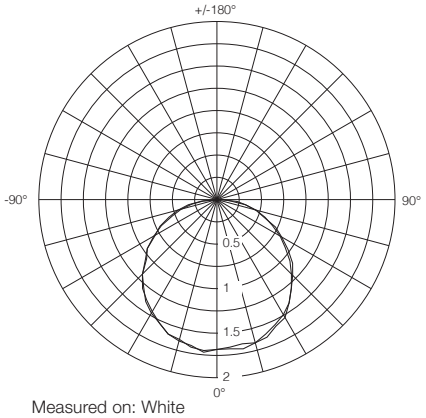
String RGB

Photometrics

Candela Distribution



Measured on: White

Beam angle (50% Imax): 117°

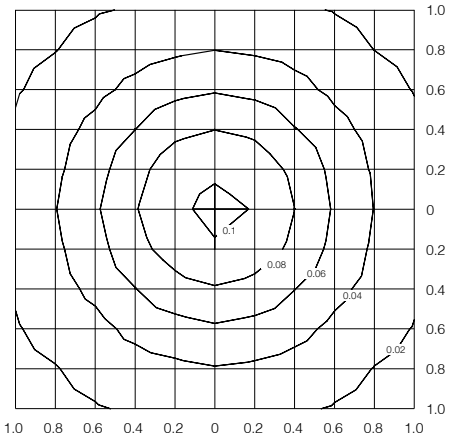
Light Output

Color	Luminous Flux (lm)	Power (Watts)	Efficacy (lm/W)
White	5.25	0.46	11.41
Red	1.17	0.16	7.31
Green	2.8	0.16	17.50
Blue	0.35	0.16	2.19

Illuminance

Distance	10cm/3.9”	25cm/9.8”	50cm/19.7”	75cm/29.5”	100cm/39.4”
Lux	168	27	7	3	2
50% Imax (diameter)	33cm/13.0”	82cm/32.3”	163cm/64.2”	245cm/96.5”	326cm/128.3”

Illuminance at a Distance



ISO-Illuminance
Unit: [lx]

Measured on: White

Coordinate Scale: d/h
Height: 4 m
Max. Illuminance: 0.105 lx

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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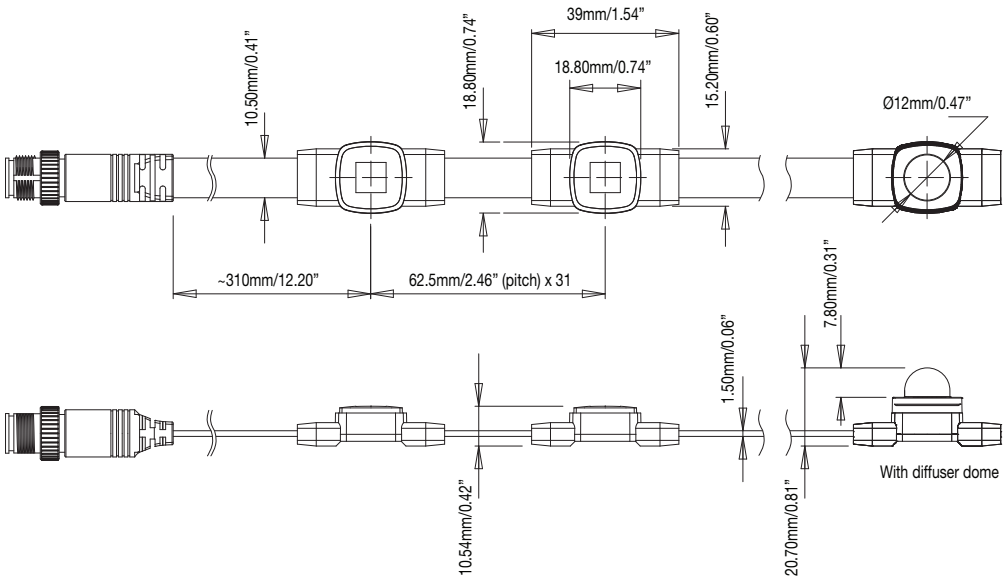
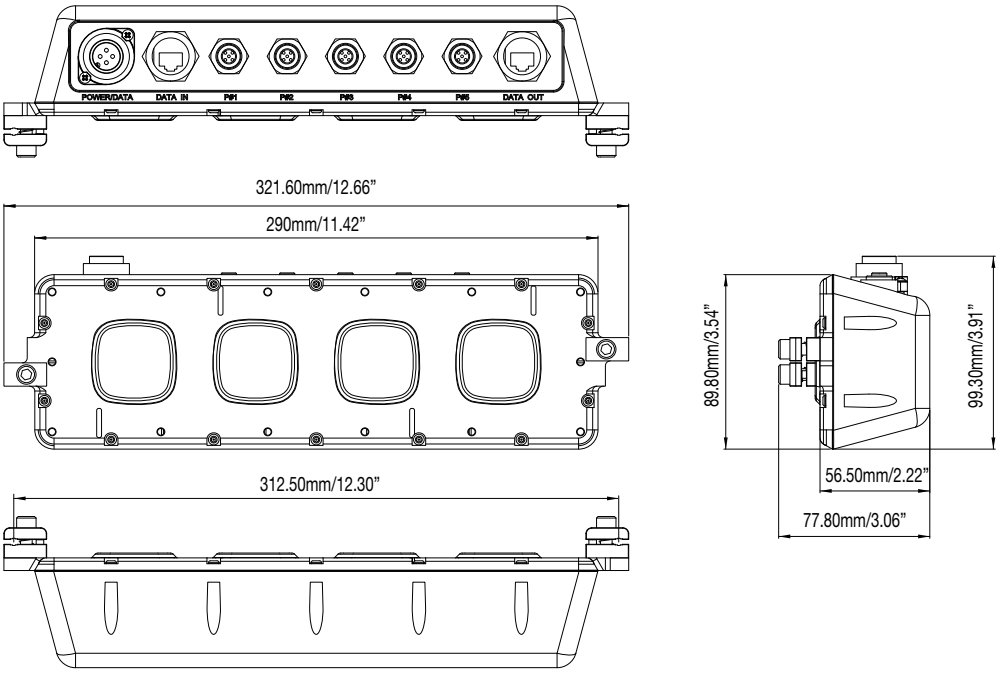
String RGB Dimensions

String



Pixel Distributor



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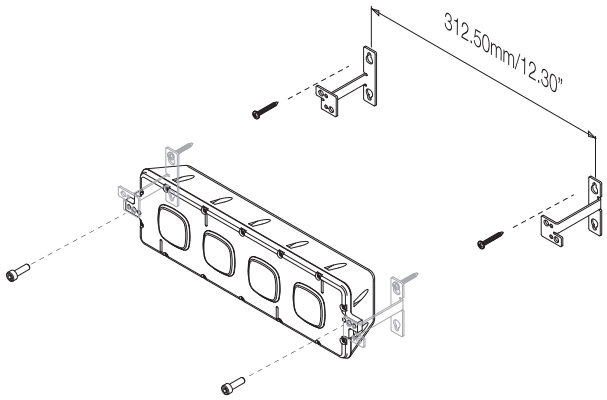
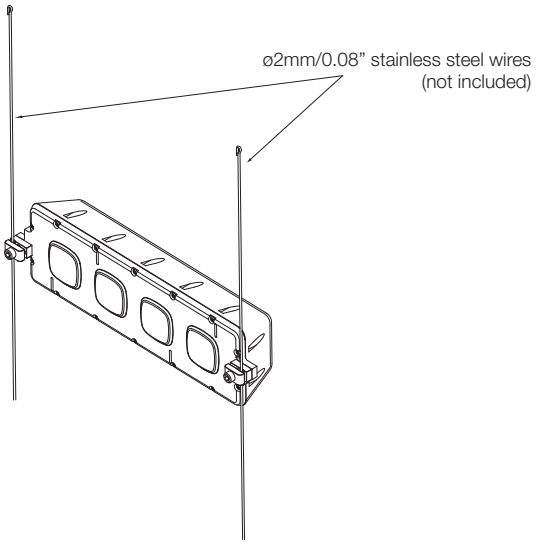
Mounting Wall with Bracket

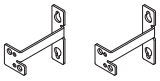


Mounting on Wire



Mounting Accessories

2 x ST Screws



2 x Mount Brackets

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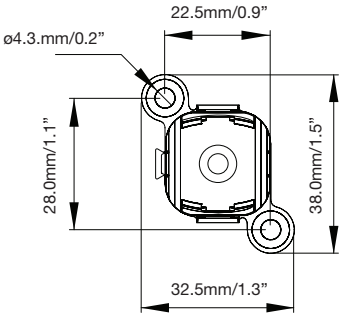
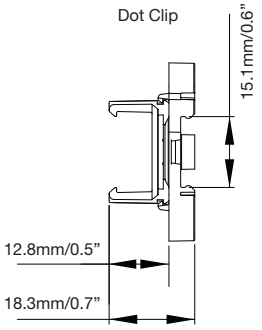
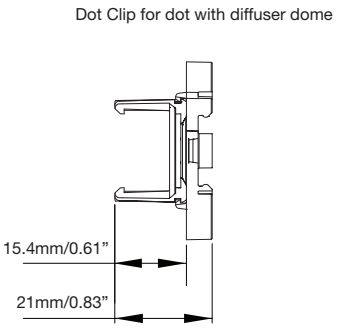
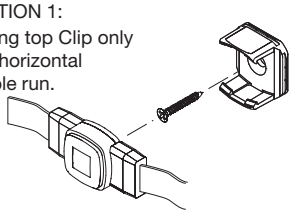
Optional Dot Clip



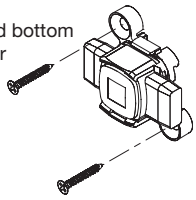


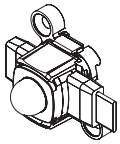


OPTION 1:
Using top Clip only for horizontal cable run.



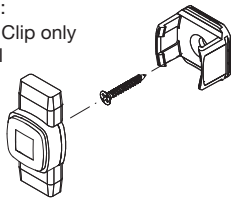
OPTION 2:
Using top and bottom Clips together for horizontal cable run.



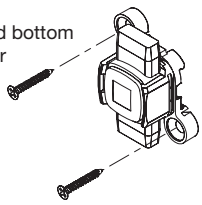


Dot clip on dot with diffuser dome.

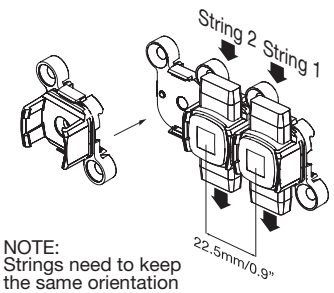
OPTION 3:
Using top Clip only for vertical cable run.



OPTION 4:
Using top and bottom Clips together for vertical cable run.

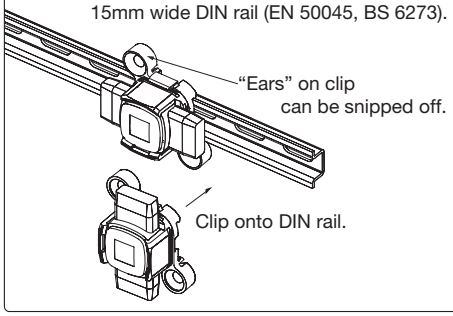


Clips can be dovetailed together.



NOTE:
Strings need to keep the same orientation

Clips can be mounted on 15mm wide DIN rail (EN 50045, BS 6273).



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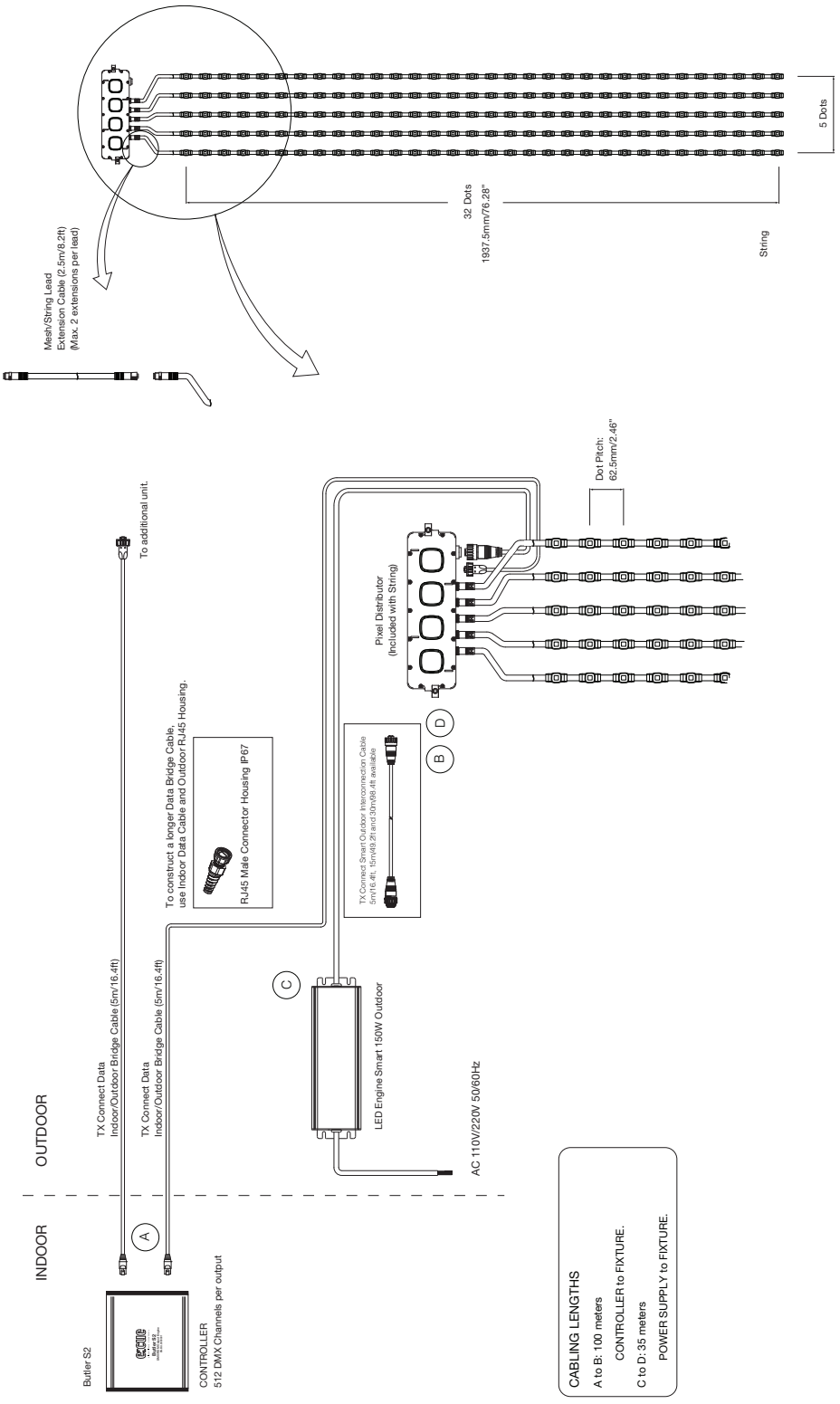
String RGB

System Diagram - Outdoor System



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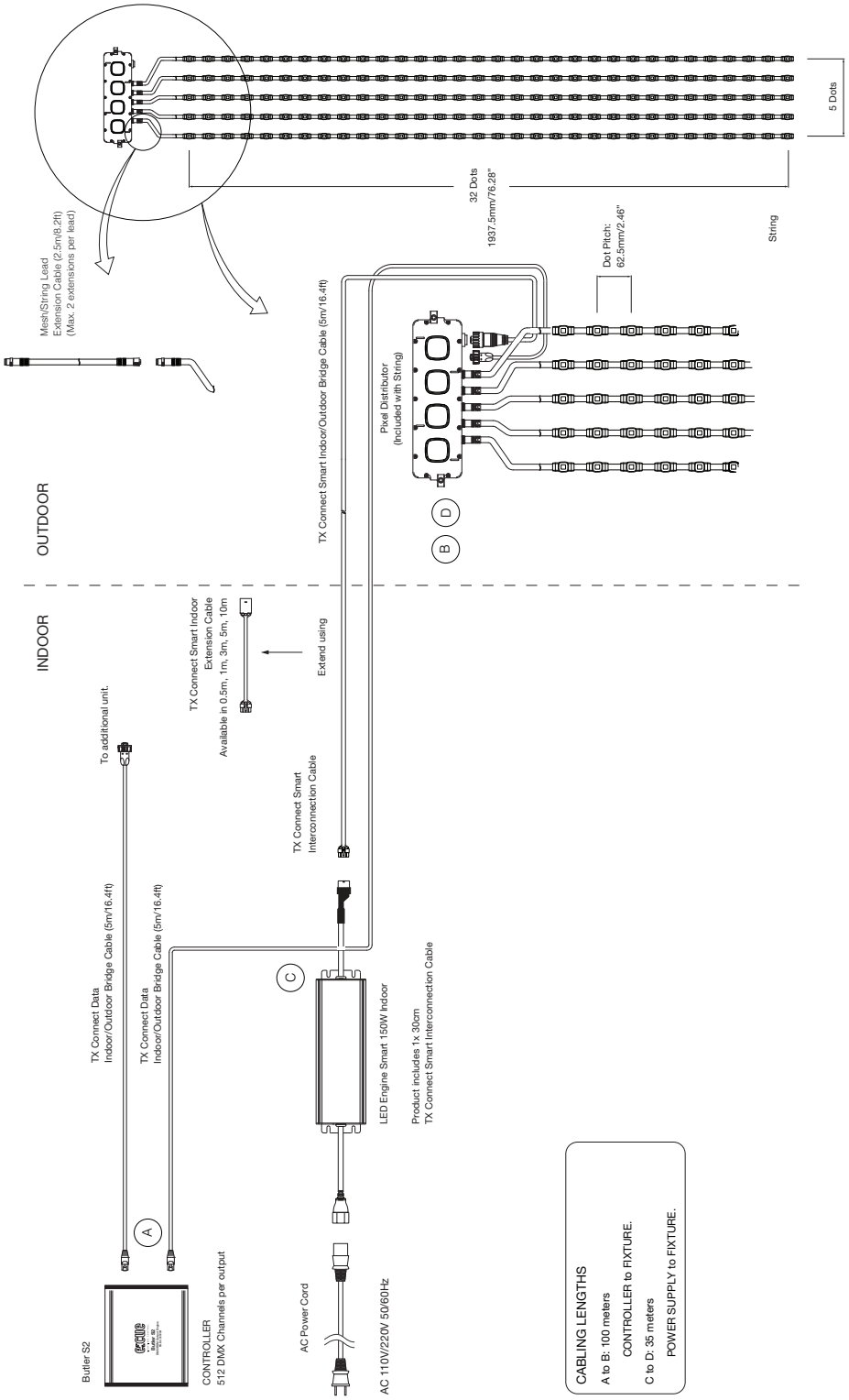
String RGB

System Diagram

System Diagram - Indoor System



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String RGB

Ordering

Fixtures

Model No.	Description	Item Code
DO.SA.7014100	String RGB	AA619730055
DO.TA.7014100	String RGB with Diffuser Dome	AA638090055

Standard Accessories (Included in Delivery)

Model No.	Description	Item Code
N/A	1x Pixel Distributor, 2x Mounting Brackets, 2x ST Screws	N/A

Optional Accessories

Model No.	Description	Item Code
DO.AC.0000800	Connector End Cap M12	AA438670055
DO.AC.0001200	Dot Clip	AA556170055
DO.AC.0002300	Dot Clip (for dot with dome)	AA556180055

TX Control

Model No.	Description	Item Code
EN.LC.9300000	LCE2	AA629450035
EN.LC.9400000	LCE2 fx	AA629460035
EN.BU.0000001	Butler S2	AA624080072
160185	Video Micro Converter (DMX/e:pix)	AA438940235

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String RGB

Ordering

TX Connect

Model No.	Description	Item Code
DO.AC.0000710	String Lead Extension Cable (white), 2.5m/8.4ft	AA639100055
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.0100000	TX CONNECT Data Cable, 1m/3.28ft	AA556130055
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 24V Indoor	AA5571301HA
PS.OA.0010000	LED Engine SMART 150W 24V Outdoor	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

traxon e:cue
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