



TRAXON

Media Tube® Plus RGB

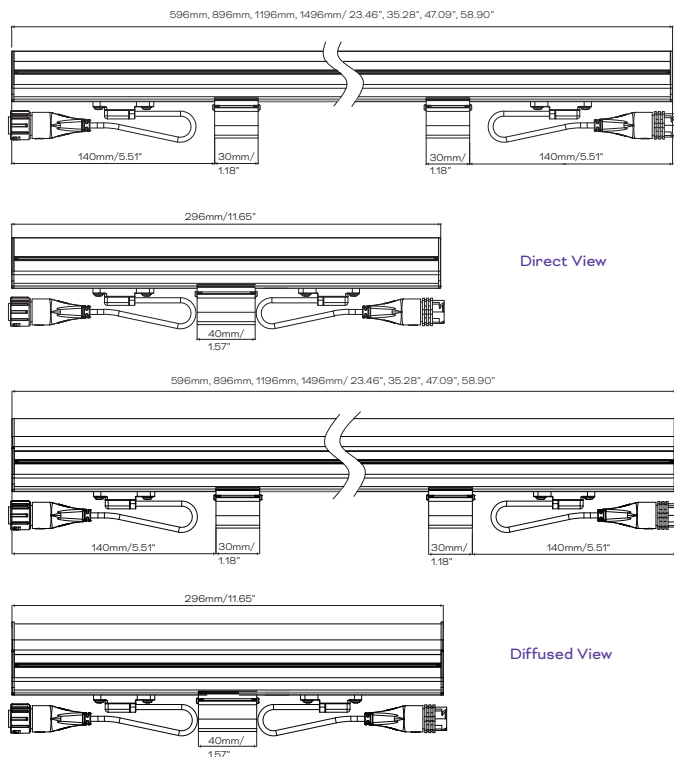


Media Tube® Plus is a slim, direct view luminaire designed to integrate into any wall, facade or media lighting application with tight installation requirements. Available with a Direct View or Diffused View lens and 9 pixels per 300mm / 1', Media Tube® Plus provides smooth effects to add life and motion to the installation. Featuring Auto-Addressing and simple quick-lock connections, Media Tube® Plus is perfect for building façades, media applications, and more.

Features

- Available lengths: 296mm / 1ft (9PXL), 596mm / 2ft (18PXL), 896mm / 3ft (27PXL), 1196mm / 4ft (36PXL) and 1496mm / 5ft (45PXL)*
- Direct View and Diffused View
- e:pix / DMX512
- Daisy Chain System with quick lock connectors
- Auto-Addressing per daisy-chain or Manual-Addressing with TX Addresser
- IP66, Suitable for Coastal Environment, IK09 (Diffused View) and 3G Vibration Resistant

Dimensions

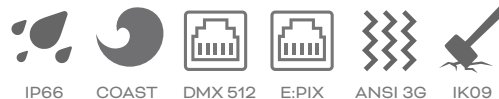


*: Length options differ by region. See your local Traxon representative for information.

TRAXON Plus⁺

Project: _____

Type: _____



Technologies

- e:pix
- DynaMood®: BinOne · AddressOne
- White Balance

Color Options



Lens Options

Clear

Diffused

Finishes

Silver

Standard: Silver

Product Specifications

	Direct View					Diffused View				
Length Option*	296mm/12"	596mm/23"	896mm/35"	1196mm/47"	1496mm/59"	296mm/12"	596mm/23"	896mm/35"	1196mm/47"	1496mm/59"
Pixels	9 pixels	18 pixels	27 pixels	36 pixels	45 pixels	9 pixels	18 pixels	27 pixels	36 pixels	45 pixels
Light Source	18 RGB	36 RGB	54 RGB	72 RGB	90 RGB	18 RGB	36 RGB	54 RGB	72 RGB	90 RGB
Color Range	16.7 Million additive RGB colors									
Beam Angle	110°					120° x 180°				
Luminous Flux (lm)	134	254	384	515	647	102	195	297	403	512
Efficacy (lm/W)	38	39	39	39	39	29	30	30	31	31
Luminance ¹ (cd/m²)	3063					1389				
Pixel Pitch	33mm / 1.30", adjustable									
LED Pitch	33mm / 1.30"					16.7mm / 0.66"				
Pixel Configuration	1 Pixel = RGB RGB					1 Pixel = RGB RGB				
Housing	Extruded Aluminum									
Cover Lens	Direct View Glass					UV resistant polycarbonate				
Mounting	Fixed, non-adjustable mounting bracket									
Dimensions (W x H)	24.5 x 35mm / 0.96" x 1.38" (Mounting bracket excluded)					24.5 x 50mm / 0.96" x 1.97" (Mounting bracket excluded)				
Dimensions (L)*	296mm / 12"	596mm / 23"	896mm / 35"	1196mm / 47"	1496mm / 59"	296mm / 12"	596mm / 23"	896mm / 35"	1196mm / 47"	1496mm / 59"
Weight	0.37kg / 0.82lb	0.66kg / 1.46lb	0.95kg / 2.09lb	1.15kg / 2.54lb	1.53kg / 3.37lb	0.35kg / 0.77lb	0.62kg / 1.37lb	0.9kg / 1.98lb	1.08kg / 2.38lb	1.45kg / 3.2lb
Regulatory Listing & Safety Approval	UKCA, CE, cETLus, FCC, ANSI C136.31 - 3G									
Operating Temperature	-40°C to +60°C / -40°F to +140°F									
Storage Temperature	-40°C to +80°C / -40°F to +176°F									
Environment	Outdoor, IP66, IK09 (Diffused View), Suitable for Coastal Environment									
Humidity	10-90%, non-condensing									

Electrical Specifications

Operating Voltage	48V DC									
Power Consumption	3.5W	6.6W	9.9W	13.2W	16.5W	3.5W	6.6W	9.9W	13.2W	16.5W
Lumen Maintenance	L70B50 80,000 hours@ 25°C									

System Specifications

Control	DMX512, e.pix									
Power Supply	LED Engine 48V Outdoor									
Addressing Options	Auto-addressing per daisy-chain (by default); Manual-addressing by TX Addresser									
Fixture Interconnection	See System Diagram									
Pixel Control	Adjustment of Pixels from 33mm / 1.3" to full length of luminaire ²									

*. Length options differ by region. See your local Traxon representative for information.

1. - Diffused View luminance represents the average value of the Diffused View Media Tube[®] Plus from its lighting surface.

- Direct View luminance represents the value of the composed screen which assumes the luminaire is installed with 50mm / 2" distance between Tubes.

2. See "Pixel Configurations" on page 8 for more information.

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.

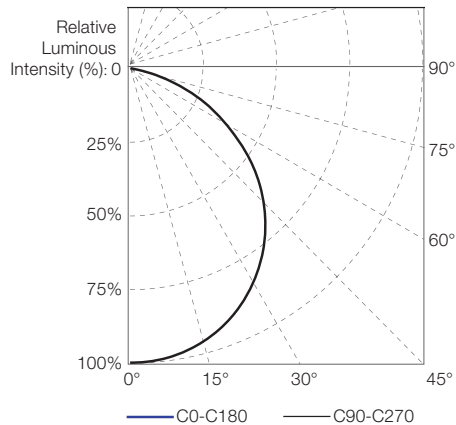
As with all electronic devices, LED output degrades over time - a term called lumen depreciation. This also explains why it is nearly impossible to expect photometric performances of two LED products with different service life spans to be the same. The rate of LED degrade is a complicated function of 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 complies with LM-79-08 standard.
Lumen maintenance is calculated based on LM-80 compliant measurement.

Source Specifications

Length Option*	296mm / 12"	596mm / 23"	896mm / 35"	1196mm / 47"	1496mm / 59"
Source	18 RGB	36 RGB	54 RGB	72 RGB	90 RGB
Optics	110°				
Cover Lens	Direct View Glass				

Candela Distribution

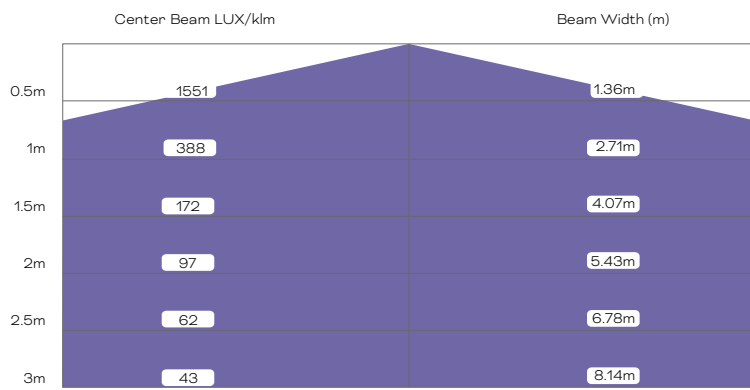


*: Length options differ by region.
See your local Traxon representative for information.

Light Output

Color	Luminous Flux (lm)	Center Intensity (cd)	Efficacy (lm/W)
296mm / 12"			
RGB (full-on)	133.7	47	38.2
Red	39.7	14	20.6
Green	85.6	30	68.4
Blue	10.9	4	11.5
596mm / 23"			
RGB (full-on)	254.1	90	38.5
Red	75.5	27	20.8
Green	162.7	58	69.0
Blue	20.7	7	11.6
896mm / 35"			
RGB (full-on)	384.1	136	38.8
Red	114.1	41	20.9
Green	245.9	87	69.5
Blue	31.3	11	11.6
1196mm / 47"			
RGB (full-on)	514.8	183	39.0
Red	152.9	54	21.1
Green	329.6	117	69.9
Blue	41.9	15	11.7
1496mm / 59"			
RGB (full-on)	646.8	230	39.2
Red	192.1	68	21.2
Green	414.1	147	70.2
Blue	52.6	19	11.8

Illuminance at a Distance



■ Horiz. Spread: 107.2°

For fc divide by 10.7

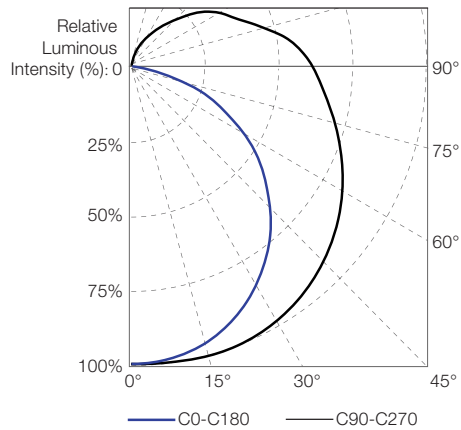
For feet multiply by 3.28

IES and LDT files are available for download from the Traxon website.

Source Specifications

Length Option*	296mm / 12"	596mm / 23"	896mm / 35"	1196mm / 47"	1496mm / 59"
Source	18 RGB	36 RGB	54 RGB	72 RGB	90 RGB
Optics	120° x 180°				
Cover Lens	UV resistant polycarbonate				

Candela Distribution



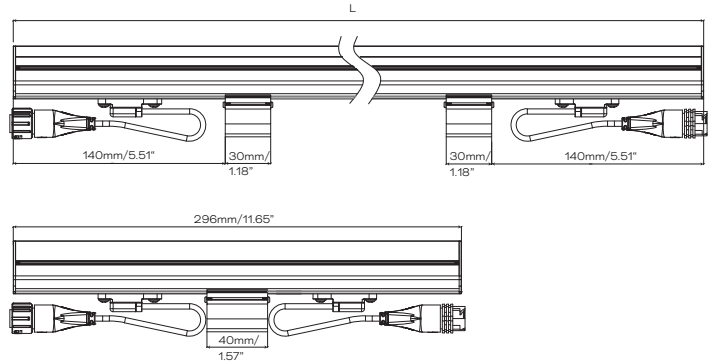
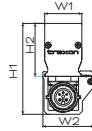
*: Length options differ by region.
See your local Traxon representative for information.

Light Output

Color	Luminous Flux (lm)	Center Intensity (cd)	Efficacy (lm/W)
296mm / 12"			
RGB (full-on)	101.5	18	29.0
Red	30.1	5	15.7
Green	65.0	12	51.9
Blue	8.3	1	8.7
596mm / 23"			
RGB (full-on)	194.7	35	29.5
Red	57.8	10	15.9
Green	124.7	22	52.8
Blue	15.8	3	8.9
896mm / 35"			
RGB (full-on)	297.0	54	30.0
Red	88.2	16	16.2
Green	190.2	34	53.7
Blue	24.2	4	9.0
1196mm / 47"			
RGB (full-on)	402.6	73	30.5
Red	119.6	22	16.5
Green	257.8	46	54.6
Blue	32.8	6	9.2
1496mm / 59"			
RGB (full-on)	511.5	92	31.0
Red	151.9	27	16.7
Green	327.5	59	55.5
Blue	41.6	8	9.3

Fixture Dimensions (Direct View)

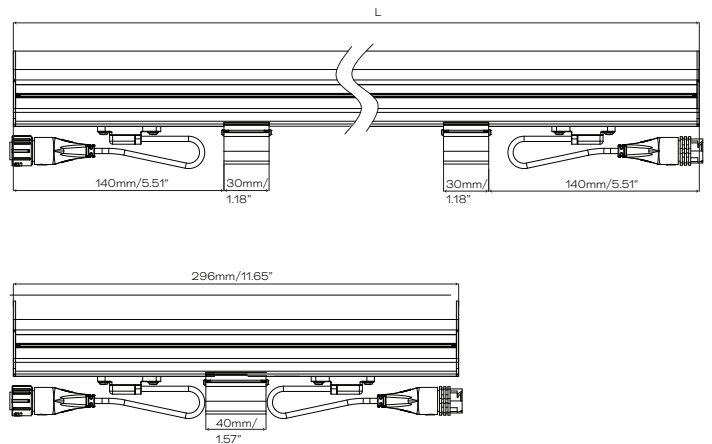
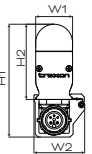
	W1	W2	H1	H2	L
1496mm 59"	24.5mm 0.96"	33.7mm 1.33"	63mm 2.48"	35mm 1.38"	1496mm 58.90"
1196mm 47"	24.5mm 0.96"	33.7mm 1.33"	63mm 2.48"	35mm 1.38"	1196mm 47.09"
896mm 35"	24.5mm 0.96"	33.7mm 1.33"	63mm 2.48"	35mm 1.38"	896mm 35.28"
596mm 23"	24.5mm 0.96"	33.7mm 1.33"	63mm 2.48"	35mm 1.38"	596mm 23.46"
296mm 12"	24.5mm 0.96"	33.7mm 1.33"	63mm 2.48"	35mm 1.38"	296mm 11.65"



NOTE: Please see CAD files for additional dimensional data.

Fixture Dimensions (Diffused View)

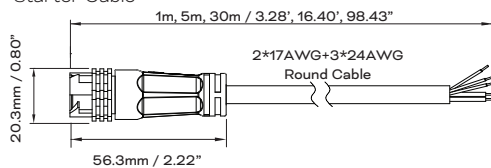
	W1	W2	H1	H2	L
1496mm 59"	24.5mm 0.96"	33.7mm 1.33"	78mm 3.07"	50mm 1.97"	1496mm 58.90"
1196mm 47"	24.5mm 0.96"	33.7mm 1.33"	78mm 3.07"	50mm 1.97"	1196mm 47.09"
896mm 35"	24.5mm 0.96"	33.7mm 1.33"	78mm 3.07"	50mm 1.97"	896mm 35.28"
596mm 23"	24.5mm 0.96"	33.7mm 1.33"	78mm 3.07"	50mm 1.97"	596mm 23.46"
296mm 12"	24.5mm 0.96"	33.7mm 1.33"	78mm 3.07"	50mm 1.97"	296mm 11.65"



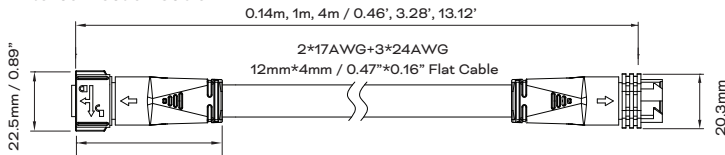
NOTE: Please see CAD files for additional dimensional data.

Connection Accessories Dimensions

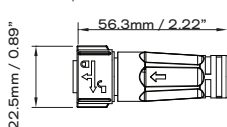
Starter Cable



Interconnection Cable



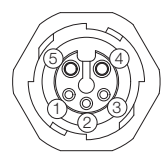
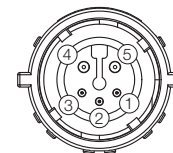
End Cap with 120 Ohm Terminator



Connector Pin Assignment

Input

Output

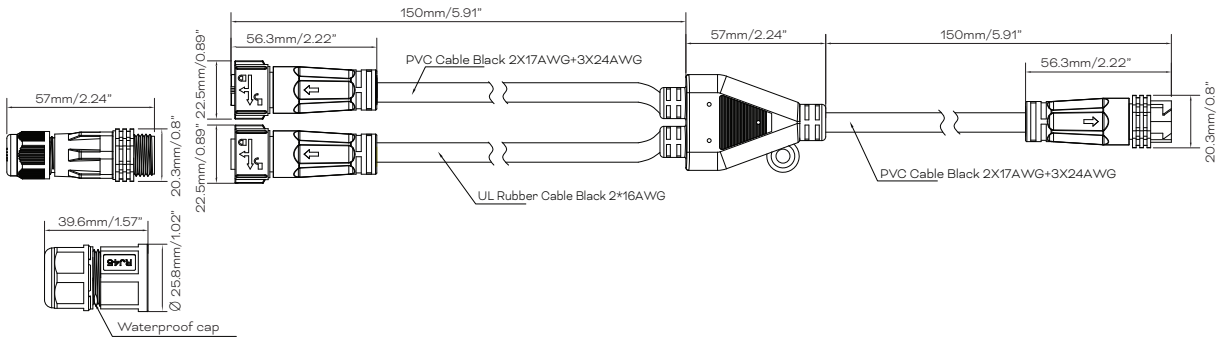


Wire#	Description	Color
1	Data+	Green
2	Address	Yellow
3	Data-	Blue
4	DC48V-	Black
5	DC48V+	Red

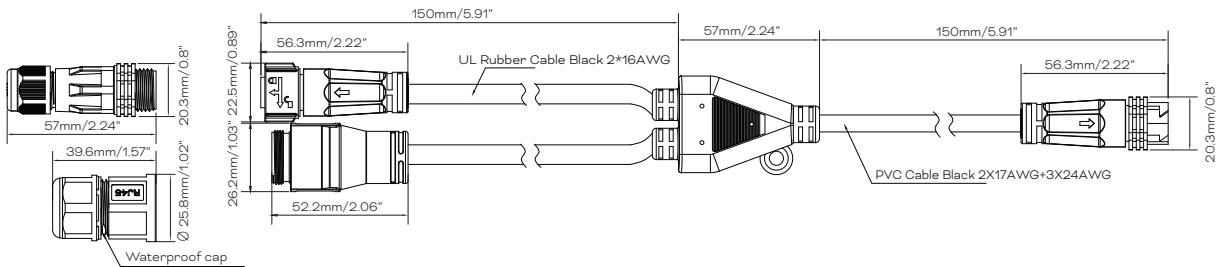
NOTE: Please see CAD files for additional dimensional data.

Connection Accessories Dimensions

Power Injector Cable Kit (Connector included)

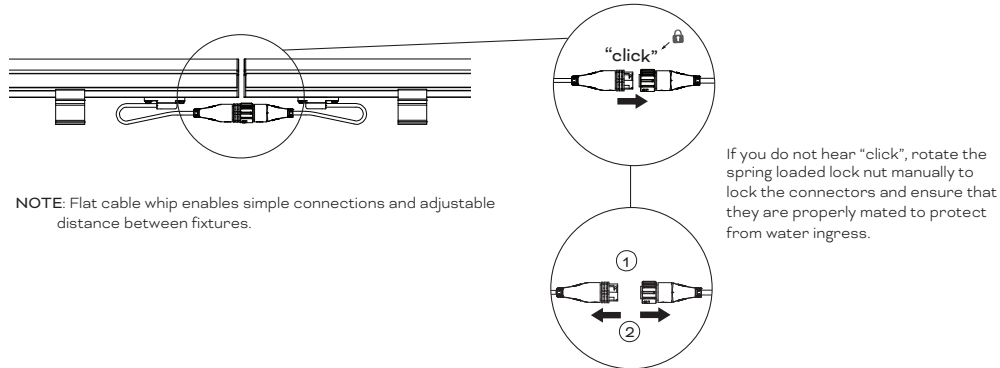


RJ45 Power Injector Cable Kit (Connector included)

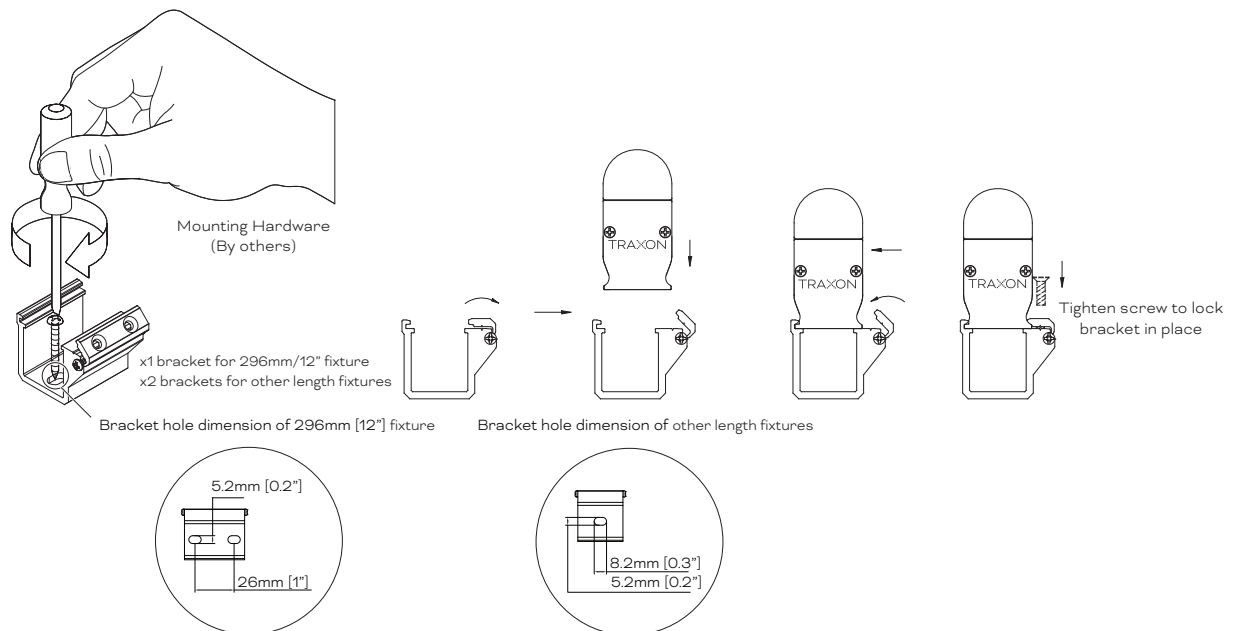


NOTE: Please see CAD files for additional dimensional data.

Cable Connection



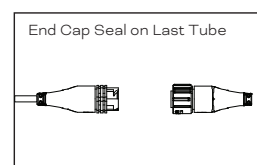
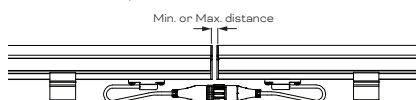
Bracket Mounting



Tube-to-Tube Clearance

To maintain consistent LED pitch and to allow for thermal expansion for Tubes.

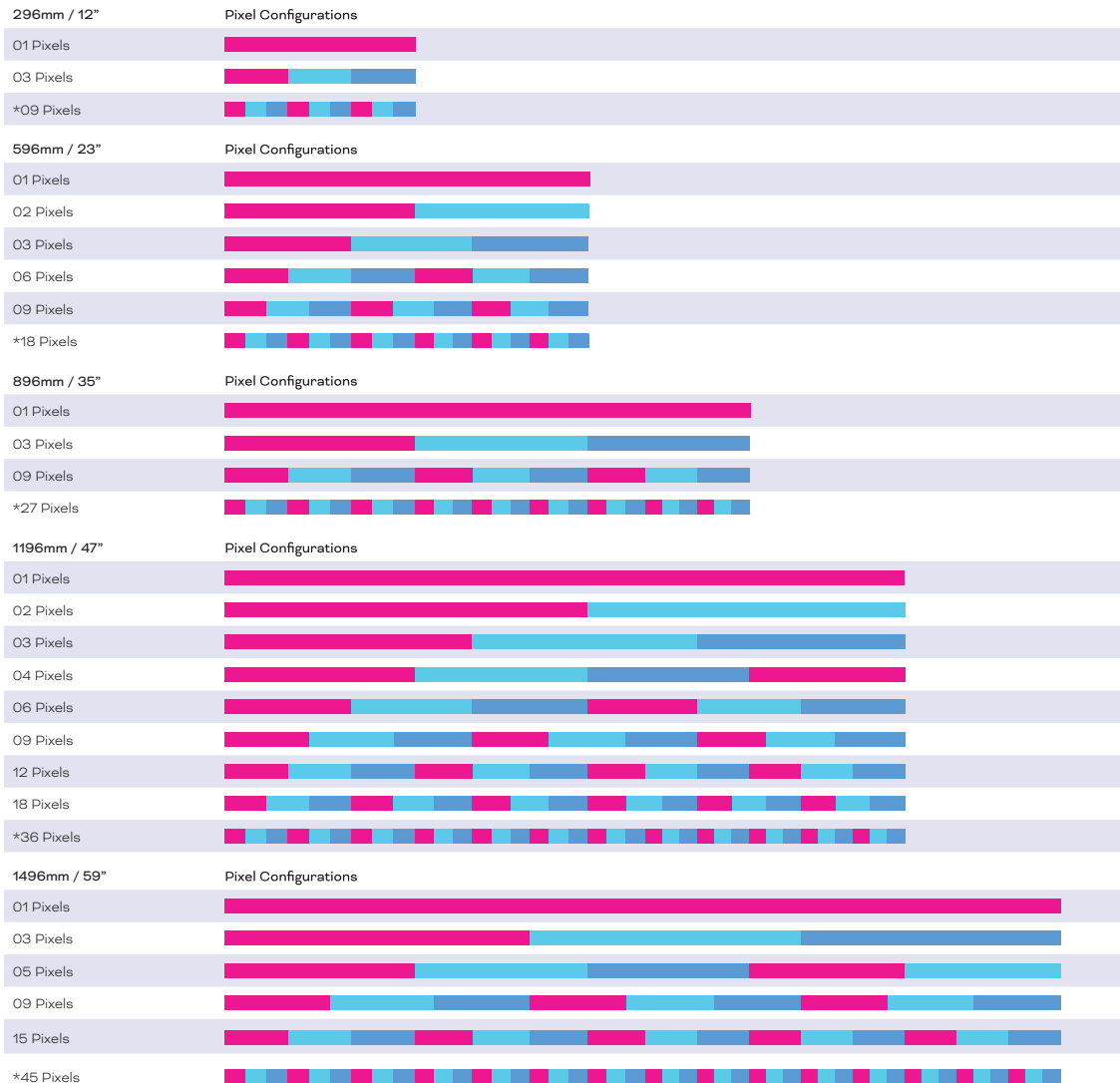
The minimum distance depends on the temperature difference. Normally, it is 1.5mm/0.06" (direct view) or 4mm/0.16" (diffused view). When the temperature difference is greater than 35°C/95°F, 5mm/0.2" is needed. Max. distance: 100mm/3.94"



Media Tube[®] Plus RGB

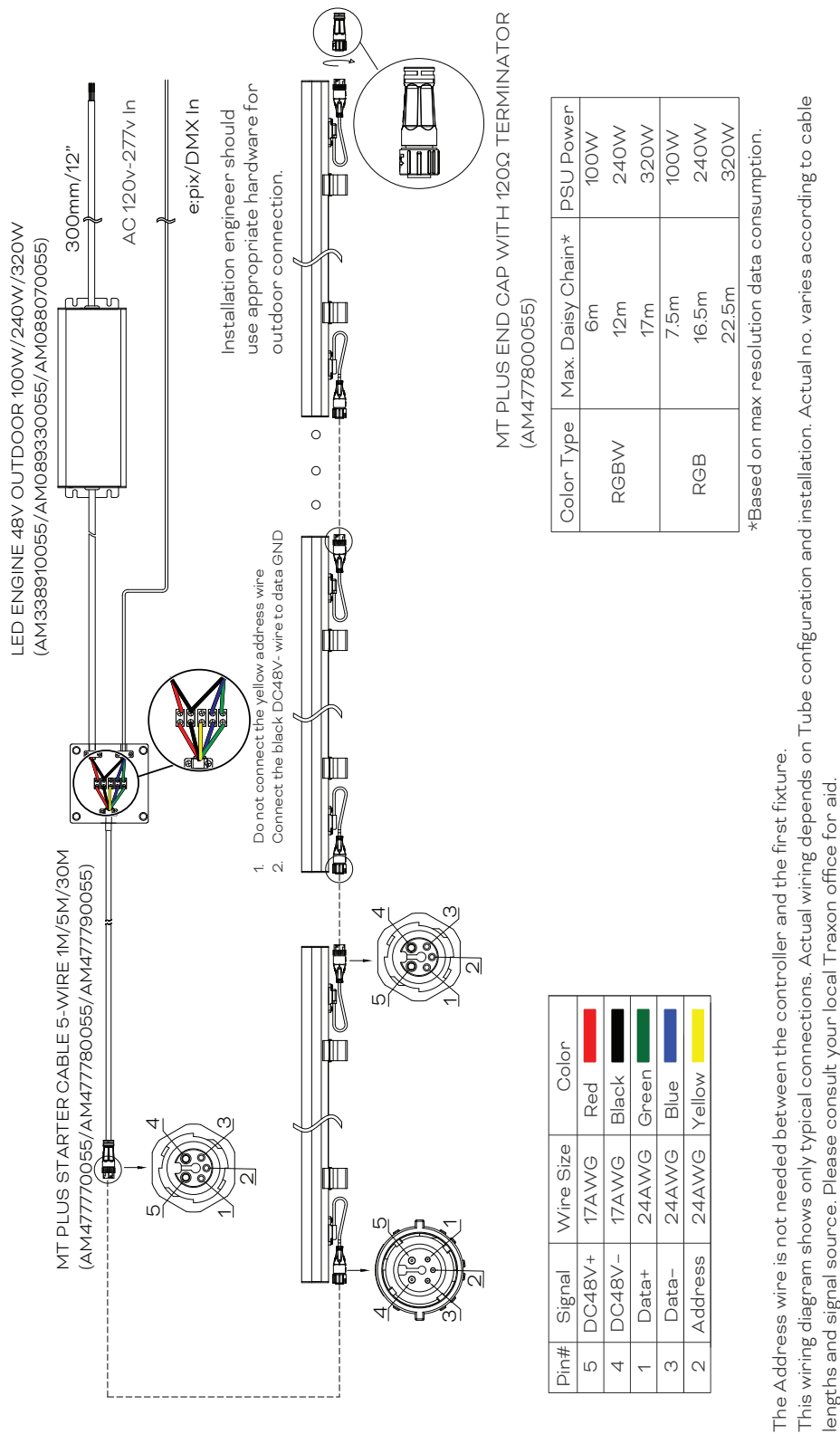
Pixel Configurations

Media Tube[®] Plus can be ordered in different individually controlled segments.
The below list indicates the possible configurations for each length.

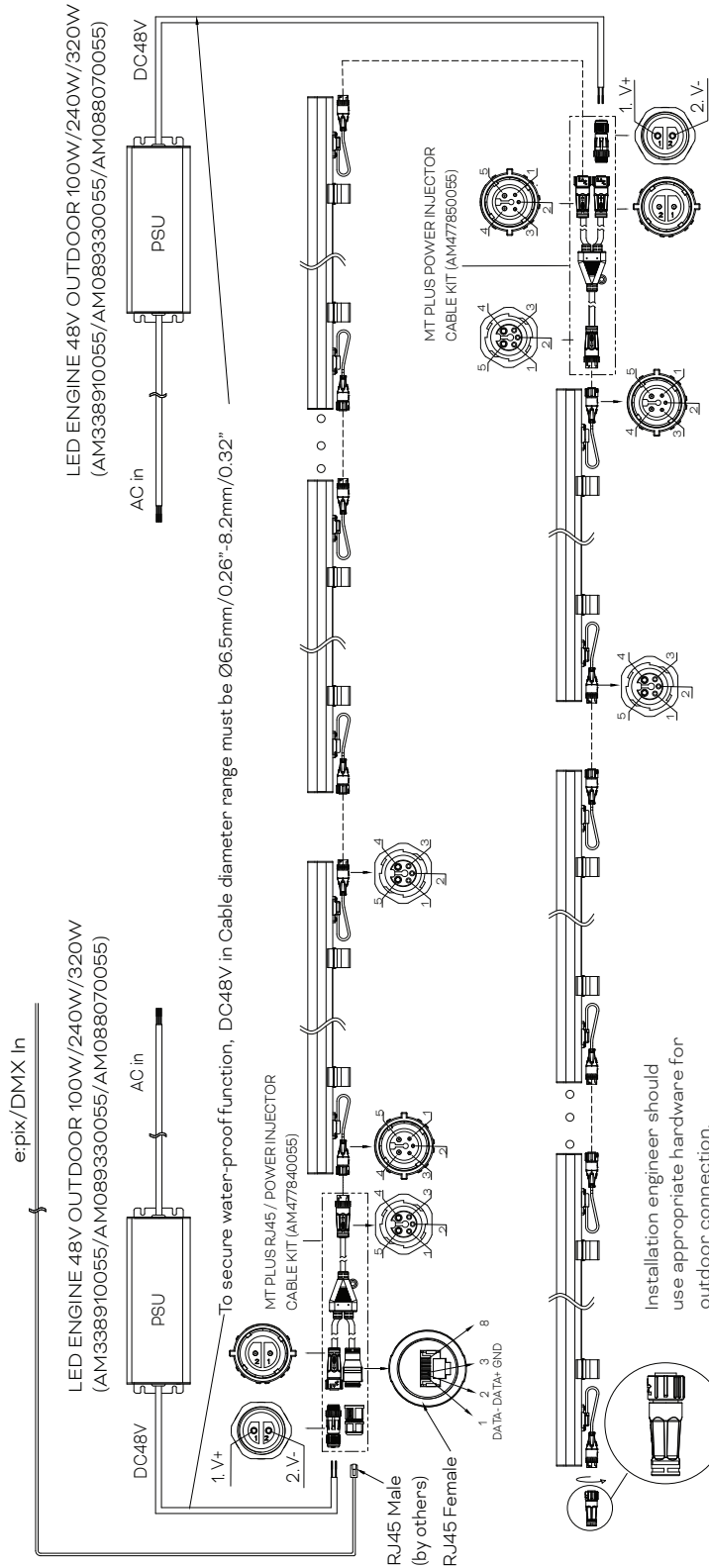


*: Length options differ by region.
See your local Traxon representative for information.

Starter Cable Installation



RJ45/Power Injector Kit and Power Injector Kit Installation



Color Type	Max. Daisy Chain*	PSU Power
RGBW	6m	100W
	12m	240W
	17m	320W
RGB	7.5m	100W
	16.5m	240W
	22.5m	320W

*Based on max resolution data consumption.

Pin#	Signal	Wire Size	Color
5	DC48V+	17AWG	Red
4	DC48V-	17AWG	Black
1	Data+	24AWG	Green
3	Data-	24AWG	Blue
2	Address	24AWG	Yellow

This wiring diagram shows only typical connections. Actual wiring depends on Tube configuration and installation. Actual no. varies according to cable lengths and signal source. Please consult your local Traxon office for aid.

Media Tube[®] Plus RGB

Ordering

Model Number

TU	MP	N	N	NN	N	O	O
		Length	Color	Pixels*	Optics		
		1: 296mm/11.65"	2: RGB	09: 9Pixels with 296mm/11.65"	0: Flat clear cover		
		2: 596mm/23.46"		18: 18Pixels with 596mm/23.46"	2: Round diffused cover		
		3: 896mm/35.28"		27: 27Pixels with 896mm/35.28"			
		4: 1196mm/47.09"		36: 36Pixels with 1196mm/47.09"			
		5: 1496mm/58.90"		45: 45Pixels with 1496mm/58.90"			
Desired Model Number:							
TU.	MP.	N	N	NN	N	O	O

*See "Pixel Configurations" on page 8 for more information.

Fixtures

Model No.	Description	Item Code
TU.MP.5245200	MEDIA TUBE PLUS RGB 1496 45P DIFFUSED	AM477670055
TU.MP.4236200	MEDIA TUBE PLUS RGB 1196 36P DIFFUSED	AM477680055
TU.MP.3227200	MEDIA TUBE PLUS RGB 896 27P DIFFUSED	AM477690055
TU.MP.2218200	MEDIA TUBE PLUS RGB 596 18P DIFFUSED	AM477700055
TU.MP.1209200	MEDIA TUBE PLUS RGB 296 9P DIFFUSED	AM477710055
TU.MP.5245000	MEDIA TUBE PLUS RGB 1496 45P CLEAR	AM477720055
TU.MP.4236000	MEDIA TUBE PLUS RGB 1196 36P CLEAR	AM477730055
TU.MP.3227000	MEDIA TUBE PLUS RGB 896 27P CLEAR	AM477740055
TU.MP.2218000	MEDIA TUBE PLUS RGB 596 18P CLEAR	AM477750055
TU.MP.1209000	MEDIA TUBE PLUS RGB 296 9P CLEAR	AM477760055

TX Connect

Model No.	Description	Item Code
TU.AC.1500100	MT PLUS STARTER CABLE 5-WIRE 1M ROUND	AM477770055
TU.AC.1500200	MT PLUS STARTER CABLE 5-WIRE 5M ROUND	AM477780055
TU.AC.1500300	MT PLUS STARTER CABLE 5-WIRE 30M ROUND	AM477790055
TU.AC.1500400	MT PLUS END CAP WITH 120Ω TERMINATOR	AM477800055
TU.AC.1500500	MT PLUS INTER CABLE 5-WIRE 0.14M FLAT	AM477810055
TU.AC.1500600	MT PLUS INTER CABLE 5-WIRE 1M FLAT	AM477820055
TU.AC.1500700	MT PLUS INTER CABLE 5-WIRE 4M FLAT	AM477830055
TU.AC.1500800	MT PLUS RJ45 / POWER INJECTOR CABLE KIT	AM477840055
TU.AC.1500900	MT PLUS POWER INJECTOR CABLE KIT	AM477850055
TU.AC.1501000	MT PLUS INTER CABLE 2-WIRE 30M ROUND	AM477860055

TX Control

Model No.	Description	Item Code
N/A	LED ENGINE 100W 48V OUTDOOR	AM338910055
N/A	LED ENGINE 240W 48V OUTDOOR	AM089330055
N/A	LED ENGINE 320W 48V OUTDOOR	AM088070055
N/A	e:cue SYMPL E:PIX NODE	AB443930035
N/A	e:cue SYMPL PRO NODE E:PIX	AM305690031
EN.BP.0000200	BUTLER PRO E:PIX	AA628610035
N/A	e:cue SYMPL PRO NODE DMX	AM255360031
EN.BP.0000100	BUTLER PRO DMX/RDM	AA628600035
EN.BX.0000001	BUTLER XT2	AA557270131
160174	BUTLER XT2 GARAGE (OPTIONAL)	AA556660031
EN.BU.0000001	BUTLER S2	AB436200031
AC.BG.0000001	BUTLER S2 GARAGE (OPTIONAL)	AA611800031
N/A	LCE3FX e:cue	AM368100135
N/A	LCE3 e:cue	AM368100035
N/A	SYMPL CORE S	AB447060035
N/A	SYMPL CORE SP	AM430280035
N/A	LIGHTING CONTROL ENGINE 2 MX WITH ETL	AM349340031
N/A	LIGHTING CONTROL ENGINE 2 MX	AM193980031
N/A	e:cue SYMPL DMX NODE	AB444180035



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