



# TRAXON Pro\*

## Media Tube® Pro RGB



Project: \_\_\_\_\_  
Type: \_\_\_\_\_



IP66

COAST

EVO PIX

ANSI 3G

IK09

### Technologies

- e:vo Pix with data feedback
- Color correction
- Thermal Protection



Media Tube® Pro is an advanced, slim luminaire crafted for seamless integration in wall, facade, or media lighting with precise installation needs. With its ultra-compact 16.6mm / 0.65" pixel pitch, the Media Tube Pro has endless possibilities in the digital media landscape. Using e:cue's new e:vo Pix protocol opens up new doors, maximizing the number of channels available per universe, and supporting data feedback for status monitoring of the installation. Elevate your design and bring new meaning to innovation with our Media Tube Pro.

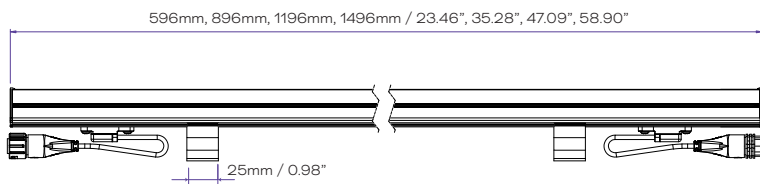
This product is intended for use in high-quality colored light applications.

### Features

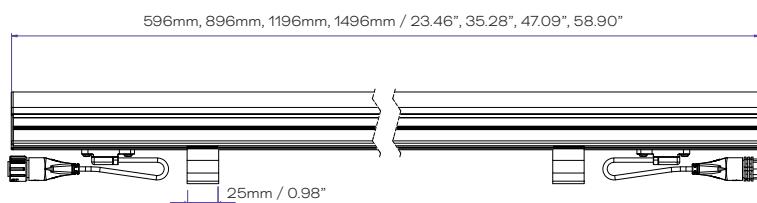
- Available lengths: 596mm / 2ft (36PXL), 896mm / 3ft (54PXL), 1196mm / 4ft (72PXL) and 1496mm / 5ft (90PXL)\*
- Direct View and Diffused
- e:vo Pix, supporting high channel control and data feedback
- Daisy Chain System with quick lock connectors
- Auto-Addressing
- IP66, Suitable for Coastal Environment, IK09 (Diffused) and 3G Vibration Resistant

### Dimensions

#### Direct View



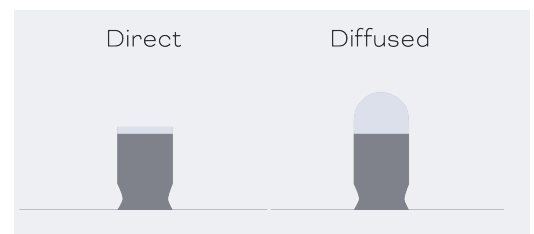
#### Diffused



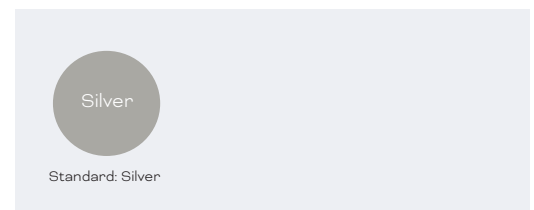
### Color Options



### Lens Options



### Finishes



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

### Product Specifications

	Direct View				Diffused			
Options*	596mm/23"	896mm/35"	1196mm/47"	1496mm/59"	596mm/23"	896mm/35"	1196mm/47"	1496mm/59"
Number of Pixels	36 pixels	54 pixels	72 pixels	90 pixels	36 pixels	54 pixels	72 pixels	90 pixels
Light Source	36 RGB	54 RGB	72 RGB	90 RGB	36 RGB	54 RGB	72 RGB	90 RGB
Color Range	16.7 Million additive RGB colors							
Beam Angle	110° (Viewing Angle 145°)				120° x 180°			
Luminous Flux (lm)	288	435	583	733	203	310	421	534
Efficacy (lm/W)	34	35	35	35	24	25	25	25
Luminance <sup>1</sup> (cd/m²)	3898				1768			
Pixel Pitch <sup>2</sup>	16.7mm / 0.66", adjustable							
LED Pitch	16.7mm / 0.66"							
Pixel Configuration <sup>2</sup>	User configurable pixel pitch, 1 x LED = 1 Pixel as standard							
Housing	Aluminum Extrusion							
Lens	Direct View Glass				UV resistant polycarbonate			
Mounting	U bracket, other brackets available by request							
Dimensions (W x H)	24.5 x 30.8mm / 0.96" x 1.21" (Mounting bracket excluded)				24.5 x 46mm / 0.96" x 1.81" (Mounting bracket excluded)			
Dimensions (L)*	596mm / 23"	896mm / 35"	1196mm / 47"	1496mm / 59"	596mm / 23"	896mm / 35"	1196mm / 47"	1496mm / 59"
Weight	0.66kg / 1.46lb	0.95kg / 2.09lb	1.15kg / 2.54lb	1.53kg / 3.37lb	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), Suitable for Coastal Environment							
Humidity	10-90%, non-condensing							

### Electrical Specifications

Operating Voltage	48V DC							
Power Consumption	8.4W	12.6W	16.8W	21W	8.4W	12.6W	16.8W	21W
Lumen Maintenance	L70B50 80,000 hours@ 25°C							

### System Specifications

Control	evo Pix
Power Supply <sup>3</sup>	LED Engine 48V Outdoor
Addressing Options	Auto-Addressing
Fixture Interconnection	See System Diagram
Pixel Control <sup>2</sup>	Adjustment of Pixels from 16.7mm / 0.66" to full length of luminaire <sup>2</sup>

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

1. - Diffused luminance represents the average value of the Diffused Media Tube<sup>®</sup> Pro 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.

3. The product can be compatible with a 56V power supply according to the actual project. Please contact sales for details.

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.

This product contains a light source of energy efficiency class G to Regulation (EU) No 2019/2015.

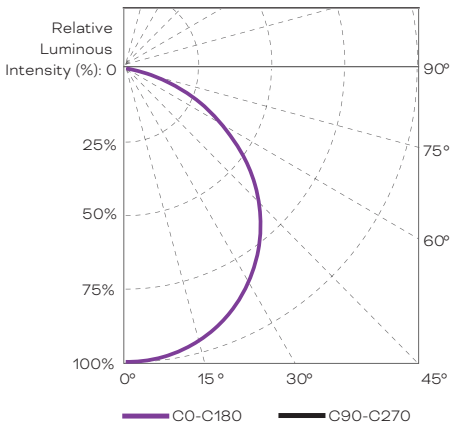
Lumen measurement complies with LM-79-08 standard.

Lumen maintenance is calculated based on LM-80 compliant measurement.

Source Specifications

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

Candela Distribution

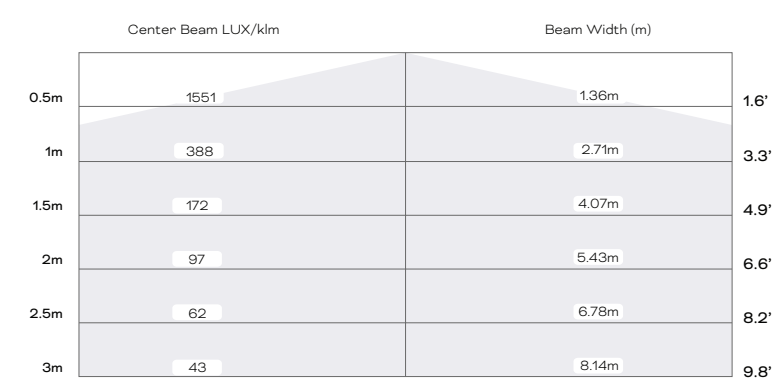


\*: Length options differ by region.  
See your local Traxon representative for information.

Light Output

Color	Luminous Flux (lm)	Center Intensity (cd)	Efficacy (lm/W)
596mm / 23"			
RGB (full-on)	287.8	101.9	34.3
Red	85.5	30.6	18.5
Green	184.3	65.7	61.4
Blue	23.4	7.9	10.3
896mm / 35"			
RGB (full-on)	435.1	154.0	34.5
Red	129.2	46.4	18.6
Green	278.5	98.5	61.9
Blue	35.5	12.5	10.3
1196mm / 47"			
RGB (full-on)	583.1	207.3	34.7
Red	173.2	61.2	18.8
Green	373.3	132.5	62.2
Blue	47.5	17.0	10.4
1496mm / 59"			
RGB (full-on)	732.6	260.5	34.9
Red	217.6	77.0	18.9
Green	469.1	166.5	62.5
Blue	59.6	21.5	10.5

Illuminance at a Distance



Horiz. Spread: 107.2°

For fc divide by 10.7

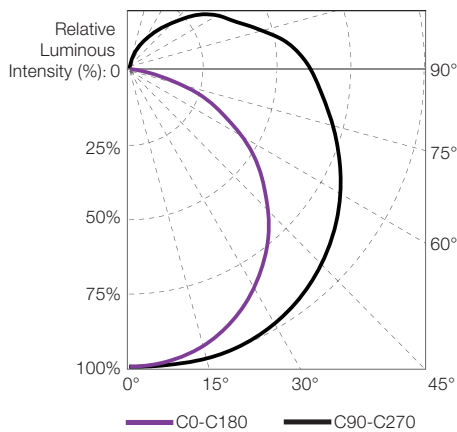
For feet multiply by 3.28

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

Source Specifications

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

Candela Distribution

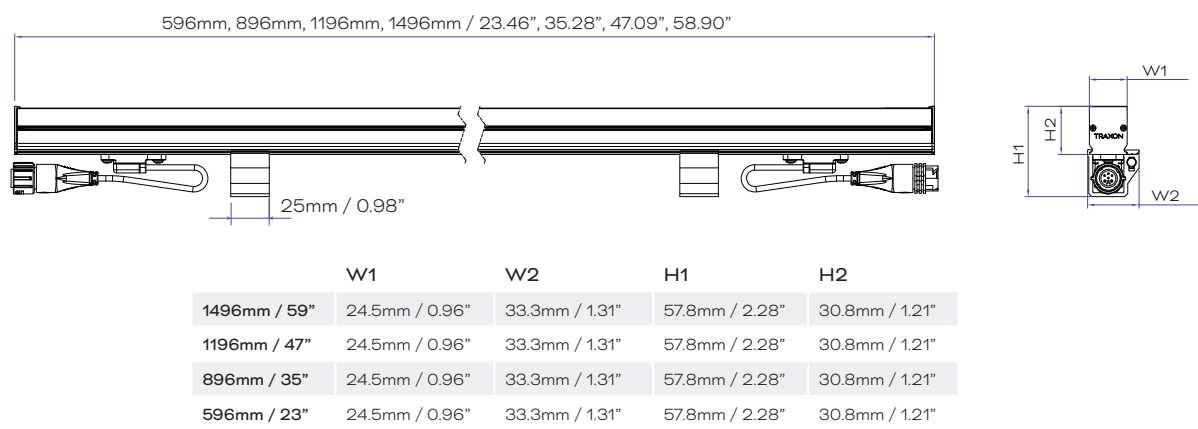


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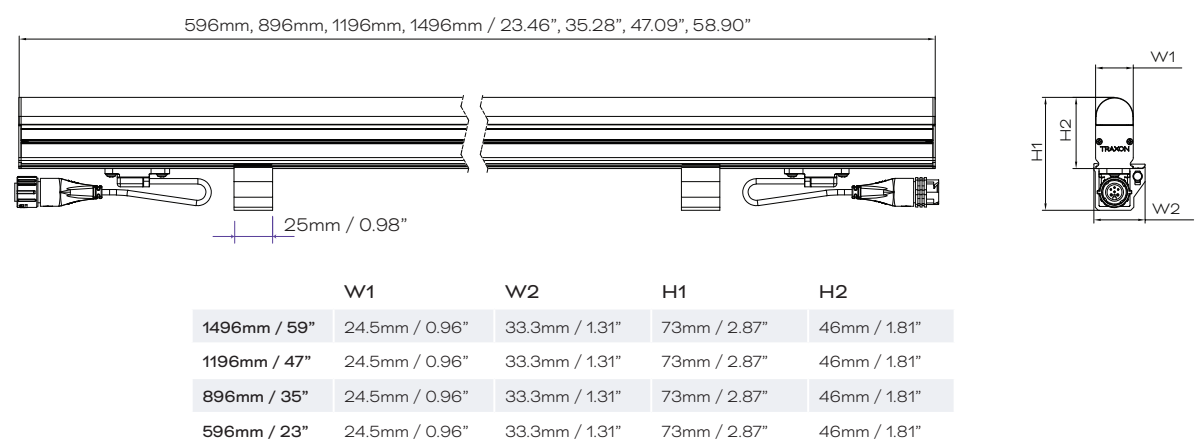
Light Output

Color	Luminous Flux (lm)	Center Intensity (cd)	Efficacy (lm/W)
596mm / 23"			
RGB (full-on)	203.3	36.6	24.2
Red	60.4	10.4	13.0
Green	130.2	23.0	43.3
Blue	16.5	3.1	7.3
896mm / 35"			
RGB (full-on)	310.2	56.4	24.6
Red	92.1	16.7	13.3
Green	198.6	35.5	44.1
Blue	25.3	4.2	7.4
1196mm / 47"			
RGB (full-on)	420.5	76.2	25.0
Red	124.9	23.0	13.5
Green	269.3	48.0	44.8
Blue	34.3	6.3	7.5
1496mm / 59"			
RGB (full-on)	534.2	96.1	25.4
Red	158.6	28.2	13.7
Green	342.0	61.6	45.5
Blue	43.4	8.4	7.6

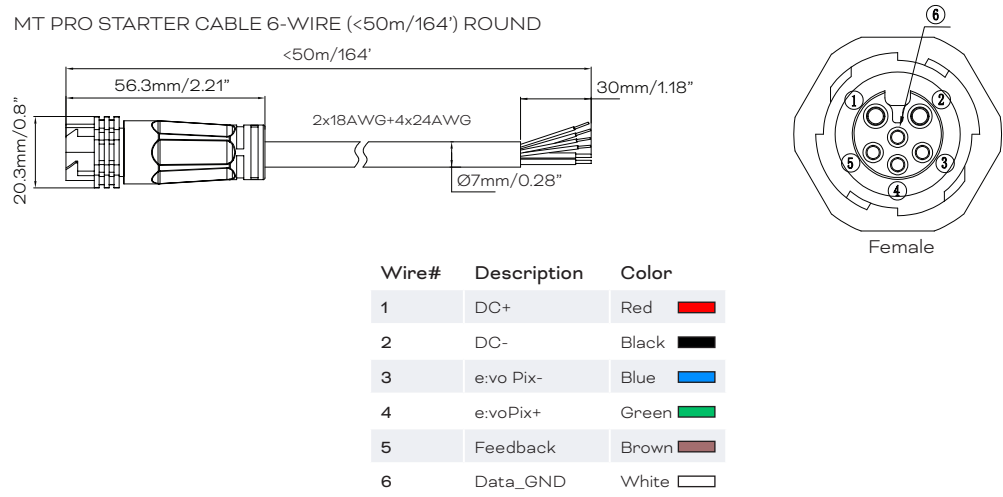
Fixture Dimensions (Direct View)



Fixture Dimensions (Diffused)



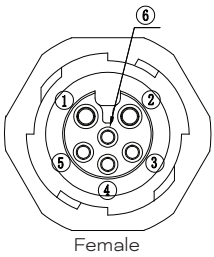
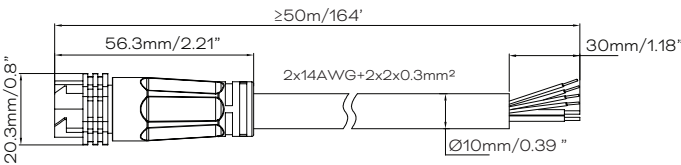
Connection Accessories Dimensions



NOTE: Please see CAD files for additional dimensional data.

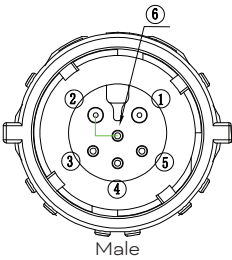
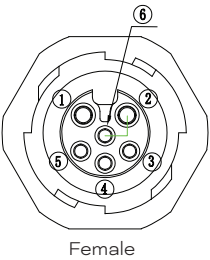
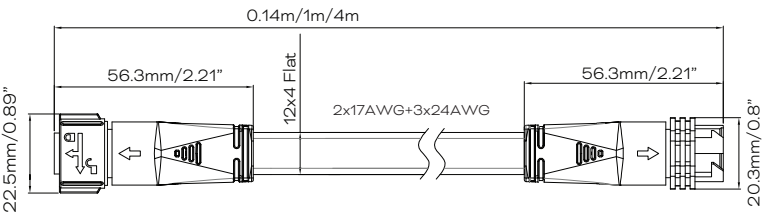
Connection Accessories Dimensions

MT PRO STARTER CABLE 6-WIRE (≥50m/164') ROUND



Wire#	Description	Color
1	DC+	Red
2	DC-	Black
3	e:vo Pix-	Green/White
4	e:voPix+	Green
5	Feedback	Brown
6	Data_GND	Brown/White

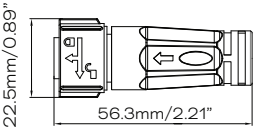
MT PRO INTER CABLE FLAT



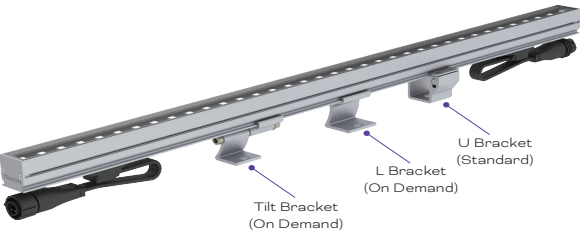
Wire#	Description	Color
1	DC+	Red
2	DC-	Black
3	e:vo Pix-	Blue
4	e:voPix+	Green
5	Feedback	Yellow
6	Data_GND	

Pin #2 and Pin #6 are connected together

MT PRO END CAP WITHOUT RESISTOR

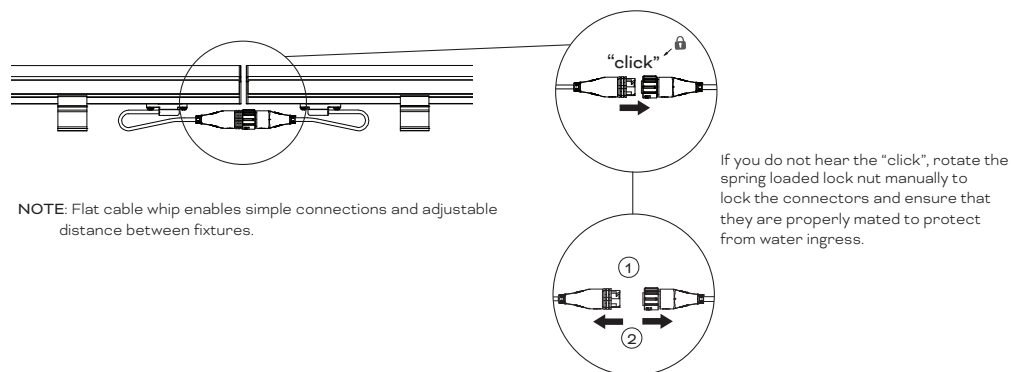


Mounting Accessories Dimensions

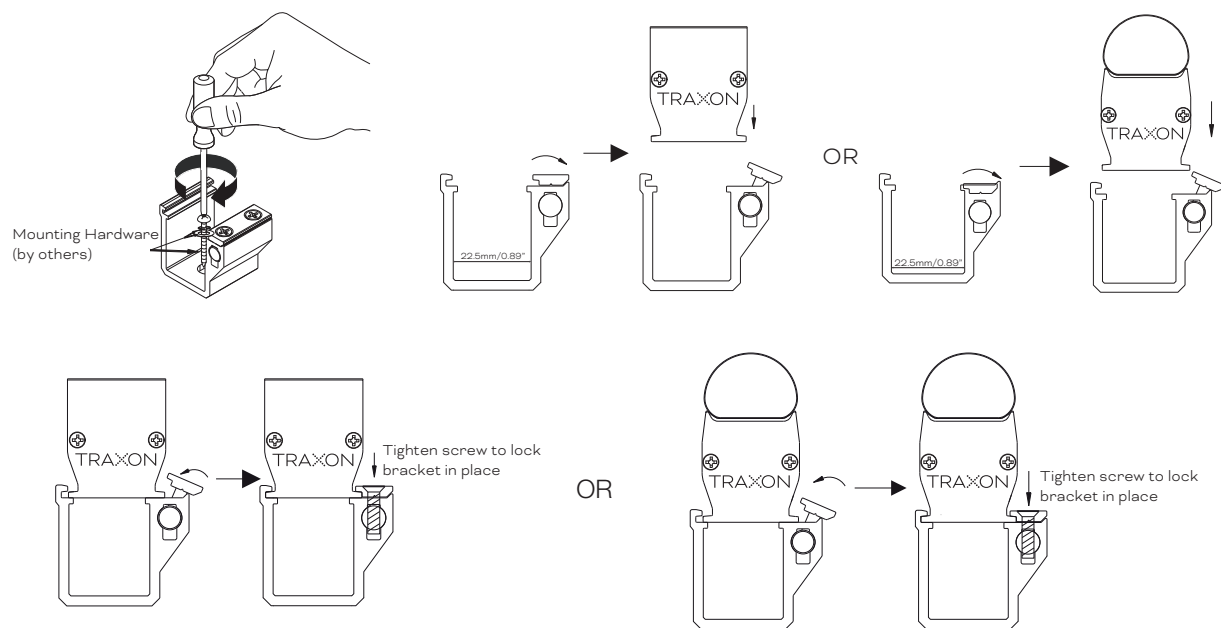


NOTE: Please see CAD files for additional dimensional data.

Cable Connection



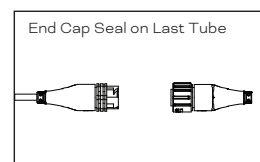
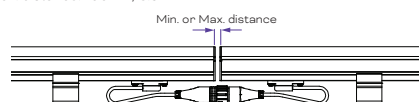
Bracket Mounting



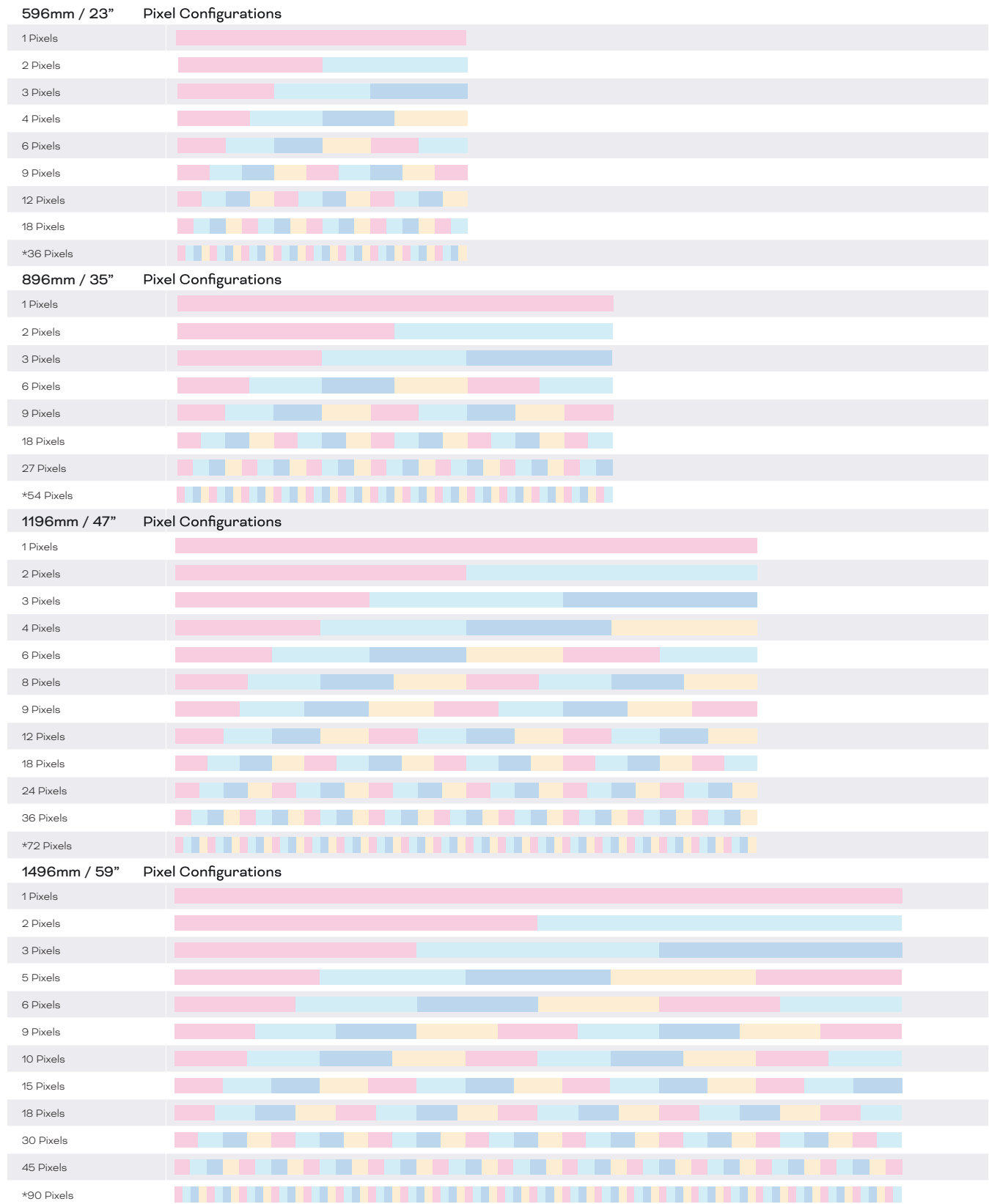
Tube-to-Tube Clearance

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"



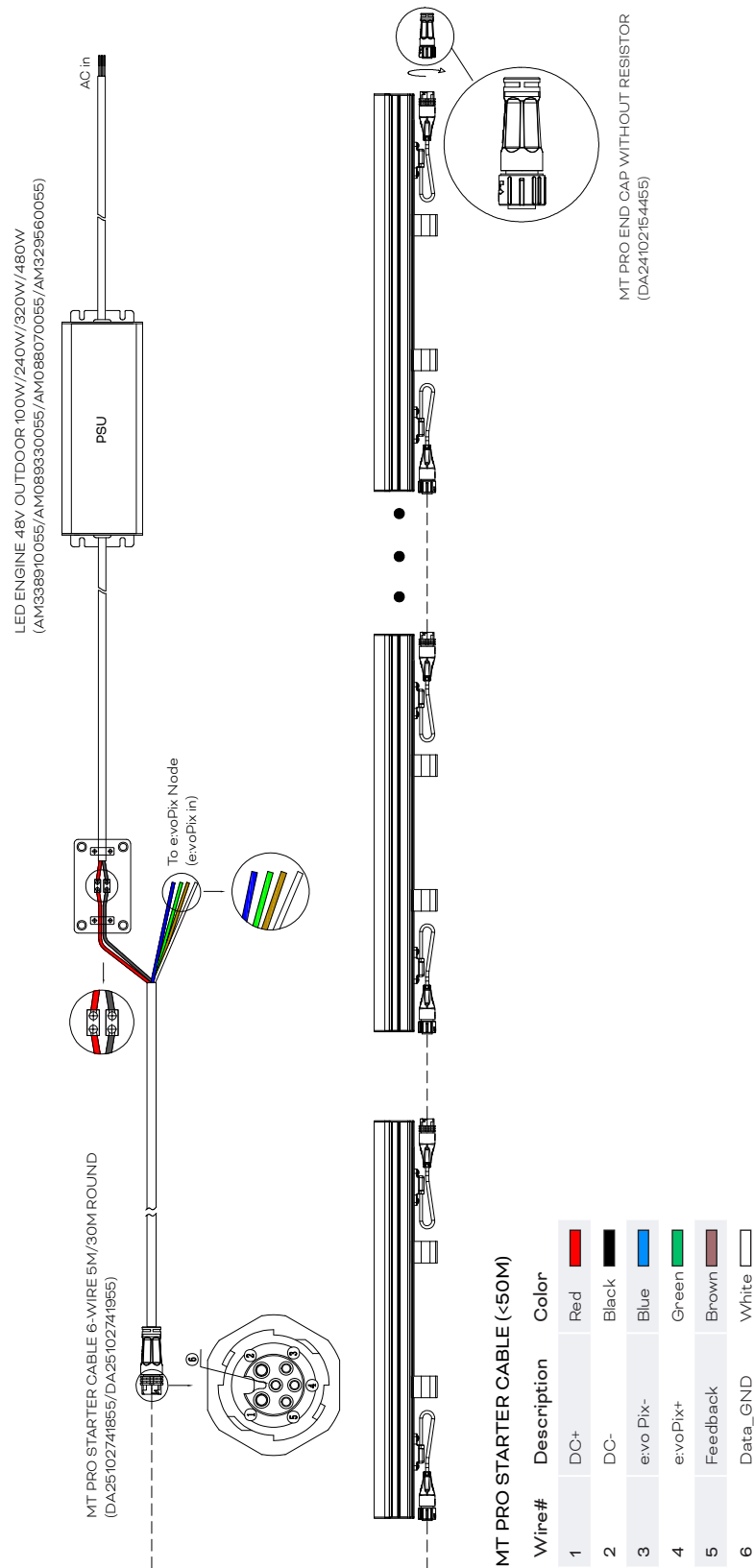
Media Tube® Pro can be ordered in different individually controlled segments.  
The below list indicates the possible configurations for each length.



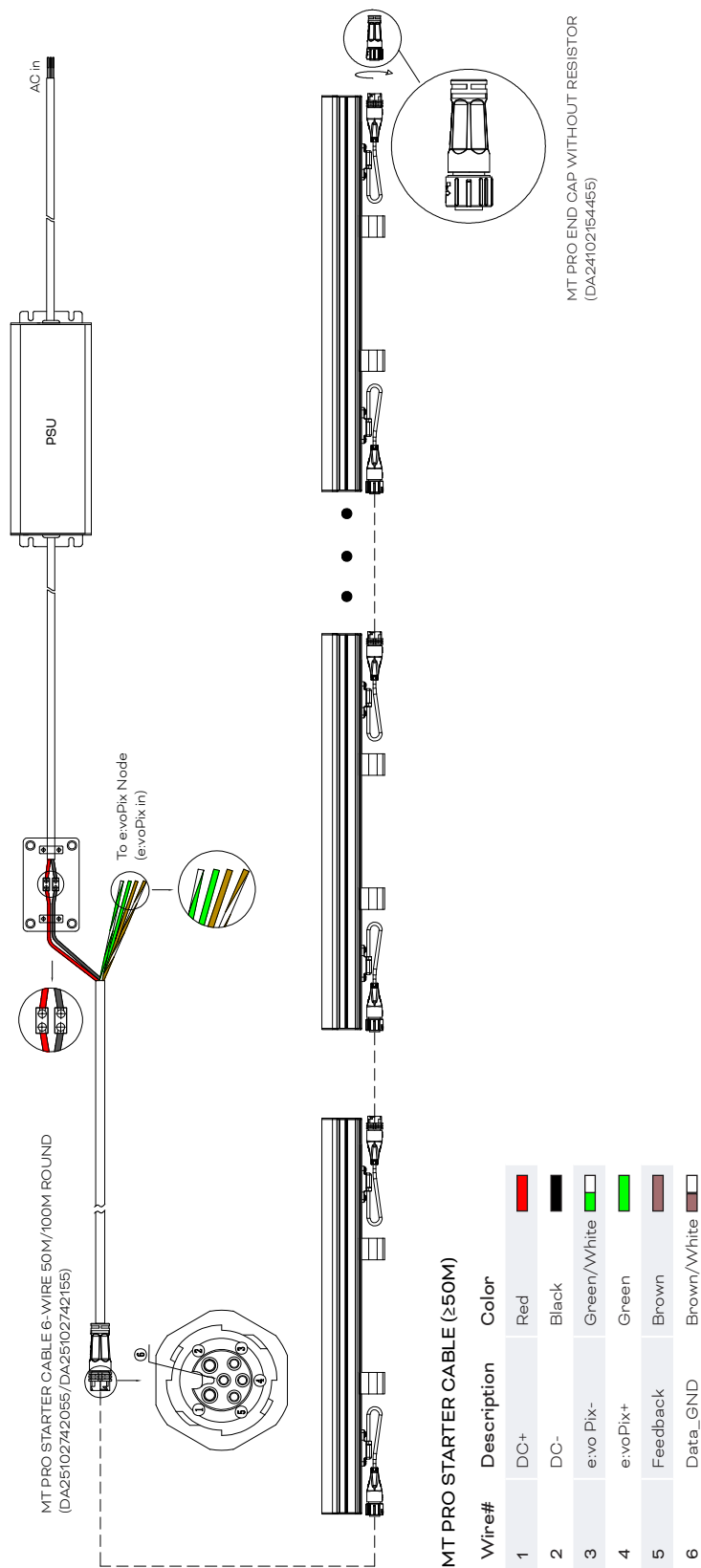
\*: Length options differ by region.  
See your local Traxon representative for information.



Starter Cable (<50m) Installation



Starter Cable (≥50m) Installation



Fixtures Model Number

TU	.	ME	.	N	2	NN	N	O	N
				Length	Color	Pixels*	Optics	Bracket	
				2: 596mm/23.46"	2 = RGB	36: 36Pixels with 596mm/23.46"	0: Flat clear cover		0: U bracket
				4: 1196mm/47.09"		72: 72Pixels with 1196mm/47.09"	2: Round diffused cover		1: L bracket
				5: 1496mm/58.90"		90: 90Pixels with 1496mm/58.90"	3: Square diffused cover		2: T bracket
							4: Gray round diffused cover		
							5: Gray square diffused cover		
Desired Model Number:									
TU	.	ME	.		2			0	

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

Fixtures

Model No.	Description	Item Code
TU. ME. 5290200	MEDIA TUBE PRO RGB 1496 90PIXELS DIFFUSED	DL23100746355
TU. ME. 4272200	MEDIA TUBE PRO RGB 1196 72PIXELS DIFFUSED	DL23100746455
TU. ME. 2236200	MEDIA TUBE PRO RGB 596 36PIXELS DIFFUSED	DL23100746555
TU. ME. 5290000	MEDIA TUBE PRO RGB 1496 90PIXELS CLEAR	DL23100746655
TU. ME. 4272000	MEDIA TUBE PRO RGB 1196 72PIXELS CLEAR	DL23100746755
TU. ME. 2236000	MEDIA TUBE PRO RGB 596 36PIXELS CLEAR	DL23100746855

Accessories

Model No.	Description	Item Code
	MT PRO STARTER CABLE 6-WIRE 5M ROUND	DA25102741855
	MT PRO STARTER CABLE 6-WIRE 30M ROUND	DA25102741955
	MT PRO STARTER CABLE 6-WIRE 50M ROUND	DA25102742055
	MT PRO STARTER CABLE 6-WIRE 100M ROUND	DA25102742155
	MT PRO INTER CABLE 0.14M FLAT	DA25102742255
	MT PRO INTER CABLE 1M FLAT	DA25102742355
	MT PRO INTER CABLE 4M FLAT	DA25102742455
	MT PRO RJ45 / POWER INJECTOR CABLE KIT	DA25102742555
	MT PRO POWER INJECTOR CABLE KIT	DA25102742655
	MT PRO END CAP WITHOUT RESISTOR	DA24102154455

Power Supply

Model No.	Description	Item Code
	LED ENGINE 100W 48V OUTDOOR	AM338910055
	LED ENGINE 240W 48V OUTDOOR	AM089330055
	LED ENGINE 320W 48V OUTDOOR	AM088070055
	LED ENGINE 480W 48V OUTDOOR	AM329560055

ecue Control

Function	Description	Item Code
Interface	e:voPix Node3 - CG	CL24100718635