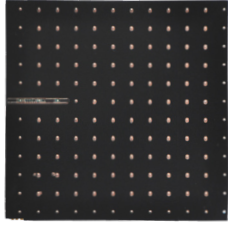




Project: _____
 Type: _____



Media Wall Paper RGB 50 144PXL

The Traxon Media Wall Paper features individually controllable RGB SMT LEDs on a 12 x 12 matrix (60 x 60 cm) with a 50 mm pitch. Alongside the provision of ultra bright LEDs (1200 cd/m²), medium resolution videos and graphic replays can be displayed by combining multiple foil sheets. Flexible to uneven surfaces, cut and freely arrange the foil sheets to fit your illumination surface. Using TX CONNECT in combination with e:cue's advanced e:pix control and Smart Chip technology makes the Media Wall Paper the perfect solution for any backdrop application. Combined with e:cue's SYMPHOLIGHT software it is possible to create stunning effects, play video or map pictures along with all other needed lighting control features.



Product Specifications

Model (Surface Color)	White, Black, Deep Black
Light Source (LEDs)	144 RGB SMD LEDs, individually controllable
Color Range	16.7 million additive RGB color
LED Pitch	50 mm / 1.96" (400 LEDs per m ²)
Luminous Flux	768 lm calibrated
Luminance Pitch	1200 cd/m ² calibrated
Lumen Maintenance	L70 @ 25 °C - 50,000 hrs
Frame Rate	10 - 60 Hz, no flicker (3840 Hz)
White Point	6300 K calibrated
PWM frequency	2k Hz
Surface / Foil Material	PI (Polyimide)
Dimensions (L x W)	600 x 600 mm / 23.6 x 23.6" (can be cut to a minimum size of 300 x 200 mm / 11.8 x 7.9")
Height	3 mm / 0.1" (LED driver 10 mm / 0.4") - without hook-and-loop tape
Weight	White 150 g / 0.33 lb, Black 150 g / 0.33 lb, Deep Black 220 g / 0.49 lb
Mounting	Hook-and-loop tape, self-adhesive
Bending Radius X Direction (left to right)	1 m / 3.3 ft
Bending Radius Y Direction (top to bottom)	0.3 m / 11.8"
Environment	IP20, indoor
Operating Temperature	+5 °C to +40 °C / +41 °F to 104 °F
Storage Temperature	-20 °C to +70 °C / -4 °F to 158 °F
Humidity	0 - 90 %, non-condensing
Approbation	CE, RoHS, FCC, Reach, (ETL in progress, EAC in progress)
Warranty	3 yrs (5 yrs on request)

Electrical Specifications

Operating voltage	24 V DC
Power Consumption (typical)	16 W
Power Consumption (maximum)	25 W (max 4 foil sheets per PSU with 100 W)

System Specifications

Power/ Data Interface	TX Connect
Control	e:pix
Addressing	Pre-addressed: Media Wall Paper ADD1, ADD2, ADD3 and ADD 4
Starter Cable	30 m / 98 ft
Power Daisy-Chain	4 foil sheets (one e:pix universe)

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.

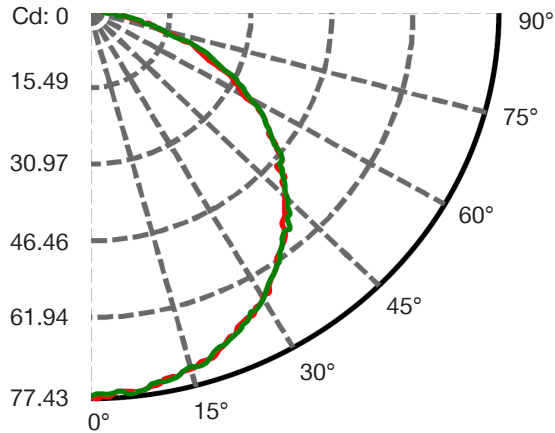
This product contains a light source of energy efficiency class G to Regulation (EU) No 2019/2015. Lumen measurement complies with LM-79-08 standard. Lumen maintenance is calculated based on LM-80 compliant measurement.



Light Output

Color	Luminous Flux (lm)	Power (W)	Efficacy (lm/W)
White	224.07	13.774	16.27
Red	59.60	8.226	7.25
Green	147.53	8.628	17.10
Blue	18.58	6.606	2.81

Candela Distribution



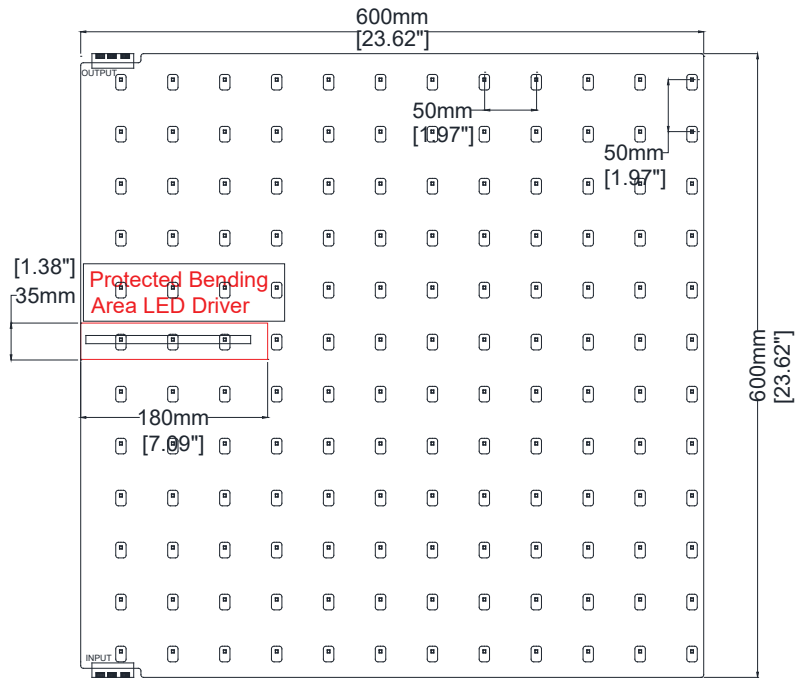
Illuminance at a Distance

	Center Beam LUX	Beam Width	
		V	H
2m	19.18 LUX	6.3m	6.3m
4m	4.79 LUX	12.5m	12.7m
6m	2.13 LUX	18.8m	19.0m
8m	1.20 LUX	25.1m	25.3m
10m	0.77 LUX	31.4m	31.6m
12m	0.53 LUX	37.6m	38.0m

Vert.Spread:115.0

Horiz.Spread:115.5

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



Bending

- only one direction per Media Wall Paper
- max bending radius: 3mm / 0.1" for electrical parts, otherwise 30mm / 1.2

Mounting Accessories

TX CONNECT Smart IN Adapter Media Wall Paper Black Micro
 - needed for cable-to-MWP interface



TX CONNECT Smart OUT Adapter Media Wall Paper Black Micro
 - needed for MWP-to-cable interface



TX CONNECT Smart Extension Connector Media Wall Paper Black / White
 - 3 connectors are needed for each interface (cable-to-MWP, MWP-to-cable, MWP-to-MWP)

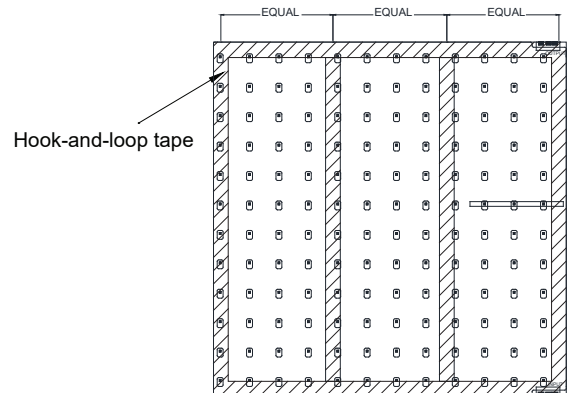


Velcro Strip roll (hook-and-loop tape, white/ black)

Mounting

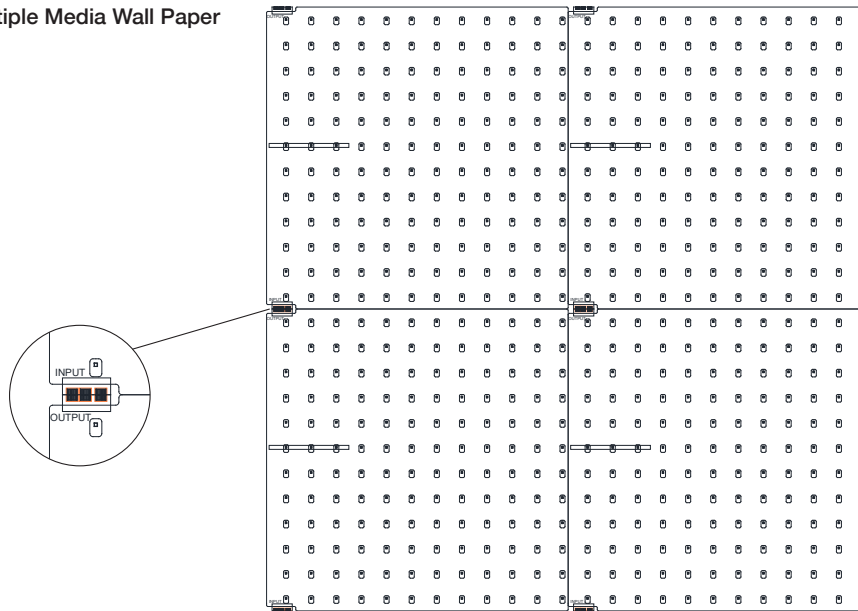
! Do not hold the MWP at the Input or Output port !

- Preparation:
Clean the mounting surface of grease and dust. The surface should be dry and clean when attaching the hook-and-loop tape.
- Cutting (optional):
Trim the Media Wall Paper to the desired shape. See [page 10](#) for the cutting plan details, cutting guideline and further instructions.
- Mounting - requires two persons:
 1. Attach the self-adhesive hook-and-loop tape at the rear side: Fasten both the hook-and-loop tape sides together on the MWP with the softer side on the MWP. Fasten the tape around the perimeter and vertically twice as shown in the illustration. Avoid double layer to prevent an uneven surface of the Media Wall Paper.
 2. Clip three TX CONNECT Smart Extension Connectors to each Input port (ADD1, ADD2, ADD3, and ADD4 as required).
 3. Remove the backing paper of all tapes on all MWP.
 4. Mount the first MWP (ADD1) onto the surface: Attach the MWP complete with the hook-and-loop tape onto the prepared surface using light gentle pressure to ensure the hook-and-loop tape is fastened evenly. Apply evenly from the Input port outwards.
 5. Let a second person hold the next in line MWP (ADD2). Do not hold the MWP at the Input or Output port. Connect the next in line MWP (ADD2) to the preceding MWP (ADD1): attach the Connectors at the Input port of the next in line MWP (ADD2) to the Output port of the preceding MWP (ADD1).
 6. Mount the next in line MWP (ADD2) onto the surface: Attach the MWP complete with the hook-and-loop tape onto the prepared surface using light gentle pressure to ensure the hook-and-loop tape is fastened evenly. Apply evenly from the Input port outwards.
 7. Repeat steps 5 and 6 for each further MWP and mount all MWP. Please consider the right addressing order.
 8. Attach all required TX CONNECT Smart Adapter and TX CONNECT Smart cables to the mounted Media Wall Papers.
- Diffuser (optional):
When using diffusers, keep a recommended distance from the diffuser to the luminaire of 6mm / 0.2".



Rear view

Mounting Multiple Media Wall Paper



Orientation and Color Mixing

For left or right viewing angles, align the luminaires left to right or right to left.

For top or bottom viewing angles, align the luminaires top to bottom or bottom to top.

Main movement pattern

"Snake Mode"

OR

OR

Main movement pattern

- For best color mixing results, ensure the luminaires have the same orientation and remain parallel to the main movement pattern of the viewer.
- If same orientation cannot be achieved, ensure the orientation of the luminaires that snake back are 180° to the previous row / column and consider the main movement pattern of the viewer.

Addressing:

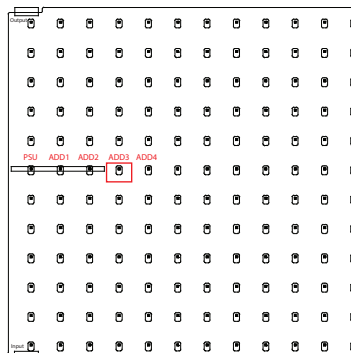
The Media Wall Papers are pre-addressed. The addresses are displayed by the LEDs in the LED driver area at commissioning.

The outermost LED of the LED driver indicates the power supply.

The next four LEDs indicate the address of the Media Wall Paper in ascending order from the border to the center.

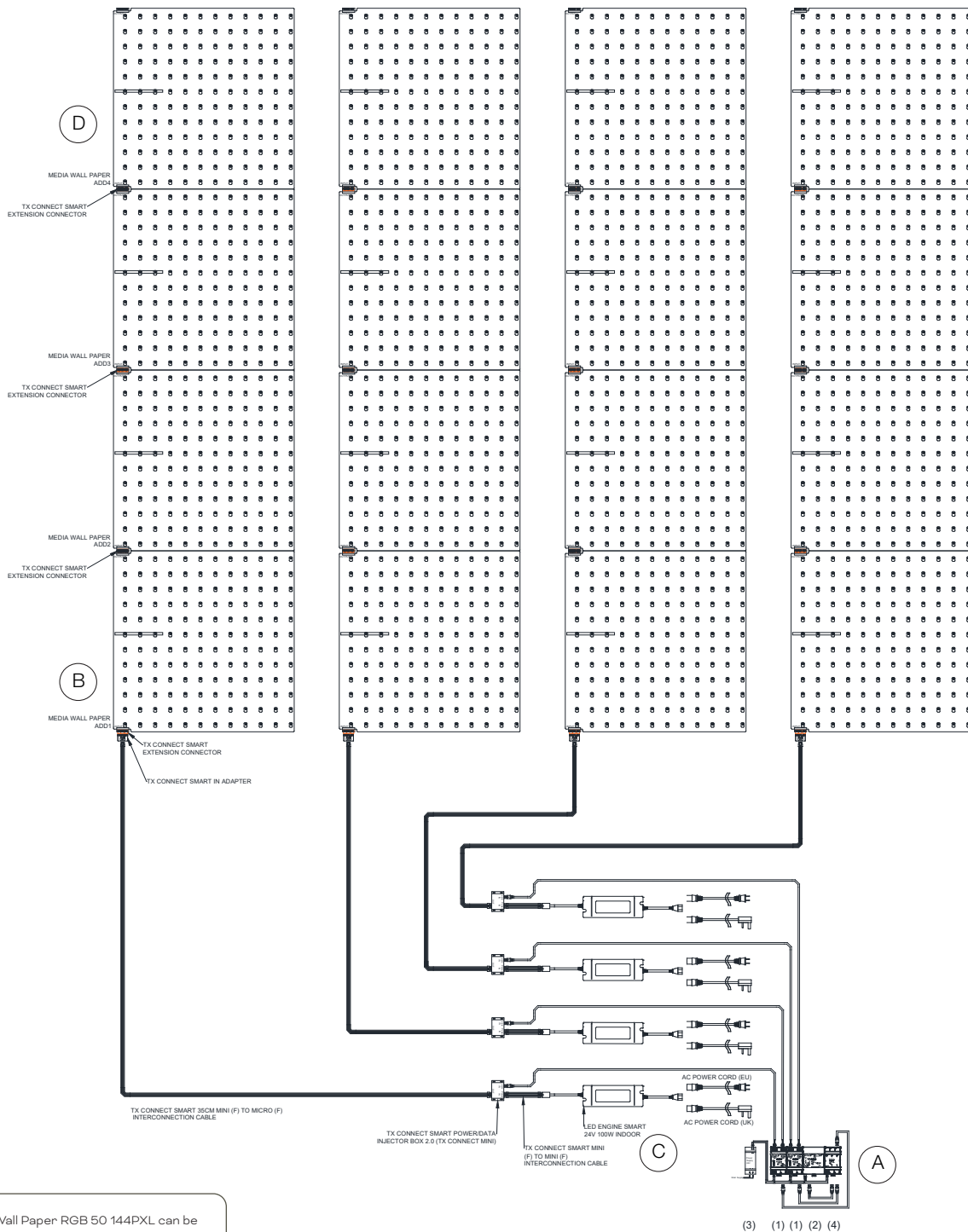
The LEDs are alight for 5 seconds. Constant light: no data input available; flashing light: data connected.

Example: MWP ADD3 with the fourth LED alight



Media Wall Paper RGB 50 144PXL

System Diagram - Standard, max 5,000 pxl



4 x Media Wall Paper RGB 50 144PXL can be powered by one LED Engine Smart 100W 24V DC indoor.

4 x Media Wall Paper RGB 50 144PXL can be daisy chained per controller (e.pix universe).

Cabling lengths:
 A to B: 100 metres / 328ft
 Controller to first fixture.
 C to D: 30 metres / 98.4ft
 Power supply to last fixture in chain.

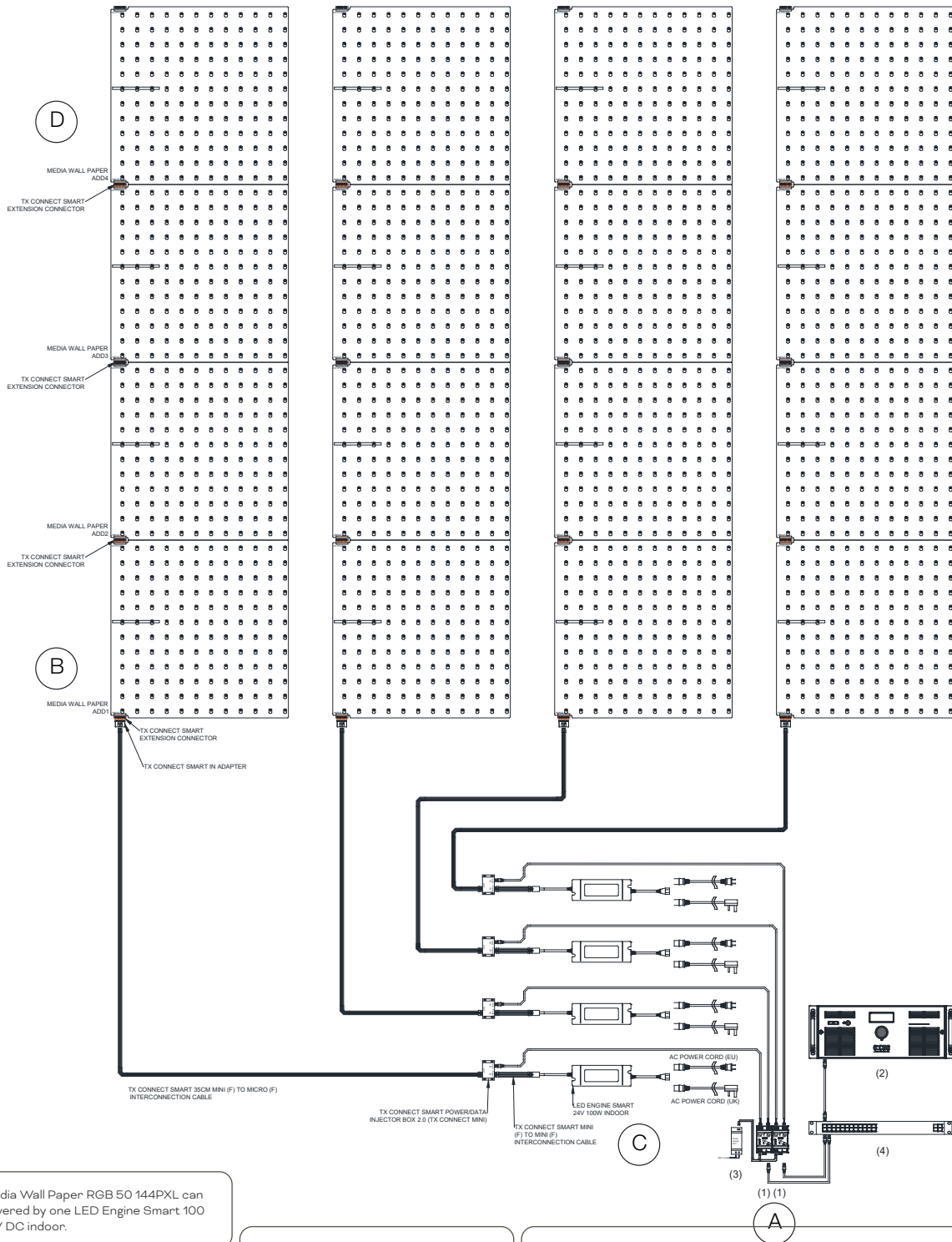
Controls:
 (1) SYMPL e:pix Node
 (2) SYMPL Core S (up to 5,000 PXL)
 (3) Power supply DIN rail 15 W/ 12V (e.g for SYMPL input Node)
 (4) SYMPL Switch PoE



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Media Wall Paper RGB 50 144PXL System Diagram - Standard, max. 50,000 pxl



4 x Media Wall Paper RGB 50 144PXL can be powered by one LED Engine Smart 100 W 24V DC indoor.

4 x Media Wall Paper RGB 50 144PXL can be daisy chained per controller (e:pix universe).

Cabling lengths:
 A to B: 100 metres / 328ft
 Controller to first fixture.
 C to D: 30 metres / 98.4ft
 Power supply to last fixture in chain.

Controls:
 (1) SYMPL e:pix Node
 (2) LIGHTING CONTROL ENGINE 2 (up to 2,000,000 PXL)
 (3) Power supply DIN rail 15 W/ 12V (e.g for SYMPL input Node)
 (4) 24 port network switch with 24 x 10/100/1000 ports and 2 x combo SFP



Media Wall Paper RGB 50 144PXL System Diagram - Extension, max. 50,000 pxl

The Media Wall Paper can be mounted in non-contiguous arrangements.

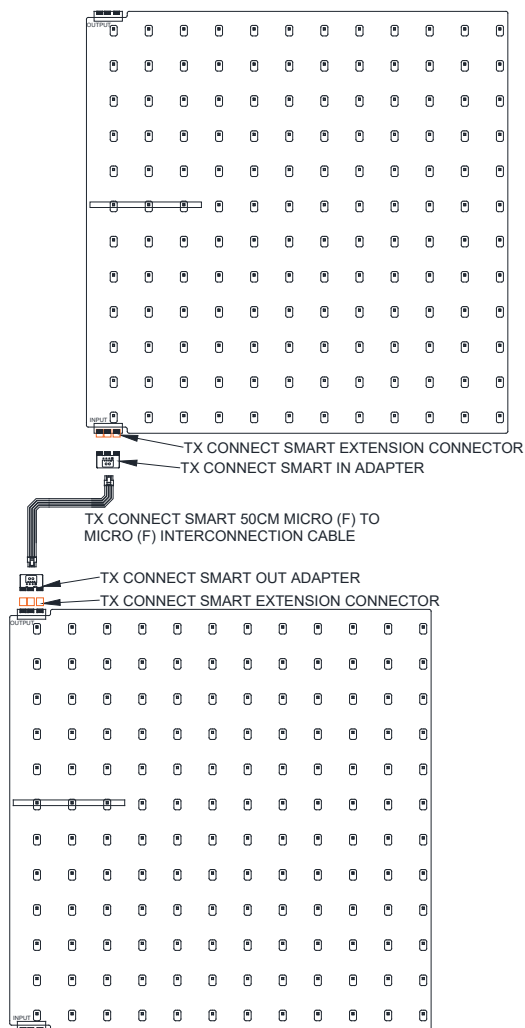
For distances between MWP's shorter than 50cm / 19.7", see the left image below. Use the

- TX CONNECT Smart Extension Connectors,
- TX CONNECT Smart IN Adapter,
- TX CONNECT Smart OUT Adapter, and
- TX CONNECT Smart 50cm Micro(F) to Micro(F) Interconnection Cable to interconnect the Media Wall Papers in an open arrangement

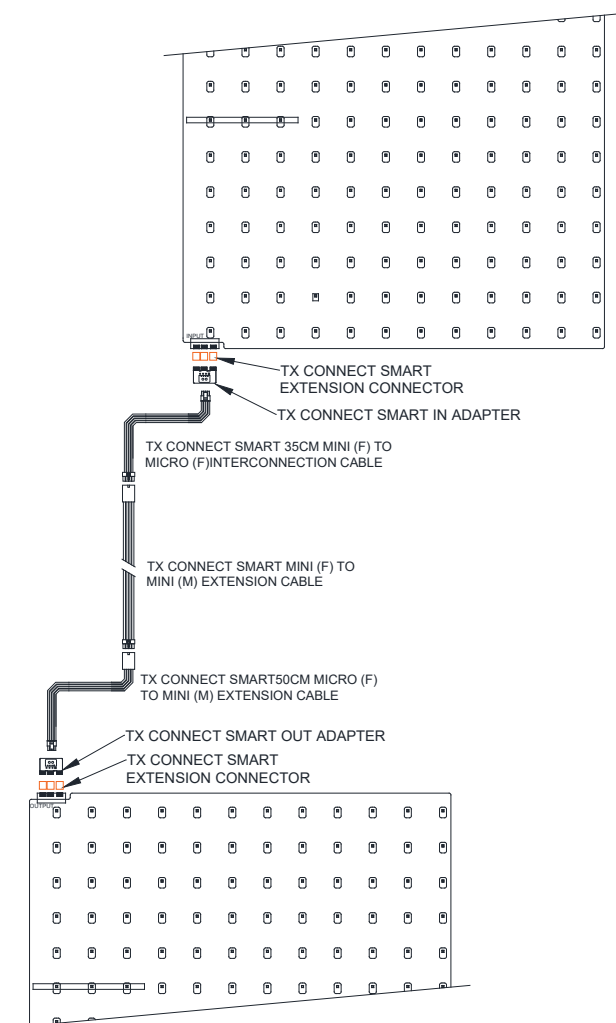
For distances between MWP's longer than 50cm / 19.7", see the right image below. Use the

- TX CONNECT Smart Extension Connectors,
- TX CONNECT Smart IN Adapter,
- TX CONNECT Smart OUT Adapter,
- TX CONNECT Smart 50cm Micro(F) to Mini(M) Extension Cable,
- TX CONNECT Smart Mini(F) to Mini(F) Extension Cable, and
- TX CONNECT Smart 35cm Mini(F) to Micro(F) Interconnection Cable to interconnect the Media Wall Papers in an open arrangement with longer distances.

Shorter distance:

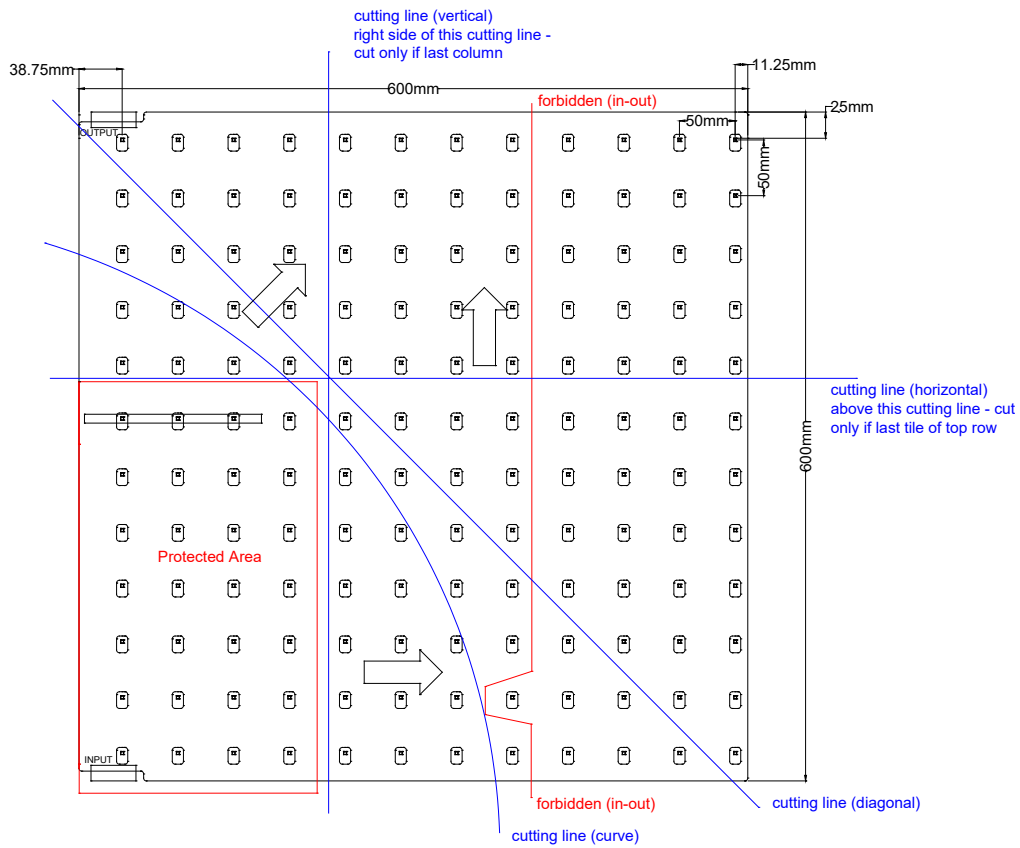


Longer distance:



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Do not cut when the Media Wall Paper is powered.

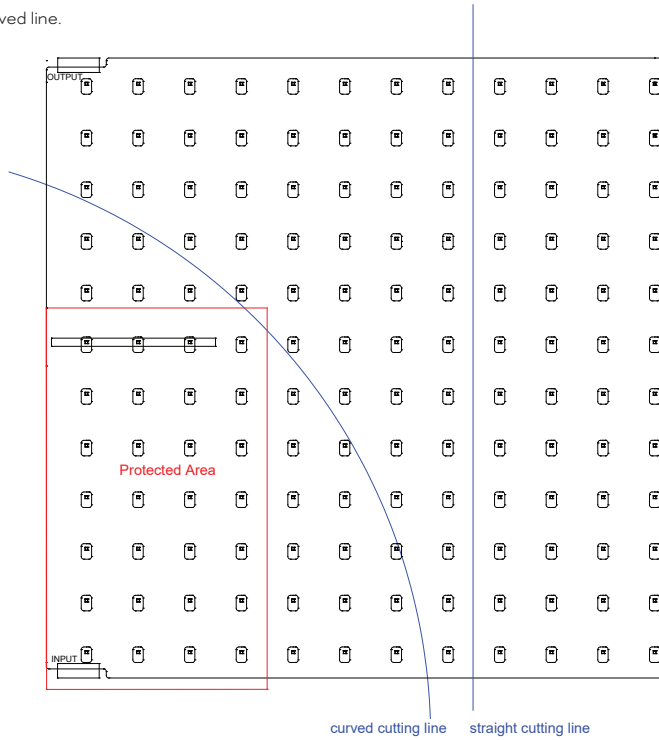
After cutting

- Seal the cutting edge! Use the Insulation Cutting Edge Glue.
- Keep a minimum mounting distance of 10mm / 1.2" to all metallic materials.

Cutting Pattern Regulations

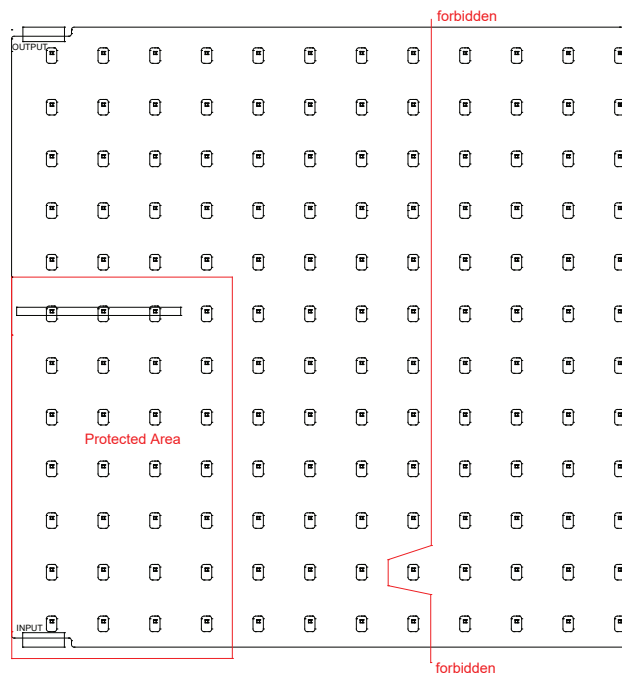
Allowed: Straight line & curved line.

Example

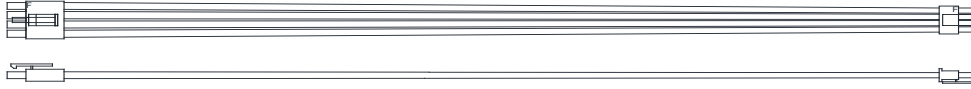


Forbidden: Jogged line.

Example



TX CONNECT Smart 35cm Mini (F) to Micro (F) Interconnection Cable (AM275780035)



TX CONNECT Smart 50cm Micro (F) to Micro (F) Interconnection Cable (AM275770035)



TX CONNECT Smart 50cm Micro (F) to Mini (M) Extension Cable (AM308050035)



TX CONNECT Smart Mini (F) to Mini (F) Interconnection Cable



Media Wall Paper RGB 50 144PXL

Ordering

Fixtures

Item Code	Description
AM350810035	Media Wall Paper RGB 50 144PXL - White ADD1
AM350840035	Media Wall Paper RGB 50 144PXL - White ADD2
AM350070035	Media Wall Paper RGB 50 144PXL - White ADD3
AM350100035	Media Wall Paper RGB 50 144PXL - White ADD4
AM350820035	Media Wall Paper RGB 50 144PXL - Black ADD1
AM350850035	Media Wall Paper RGB 50 144PXL - Black ADD2
AM350080035	Media Wall Paper RGB 50 144PXL - Black ADD3
AM350110035	Media Wall Paper RGB 50 144PXL - Black ADD4
AM350830035	Media Wall Paper RGB 50 144PXL - Deep Black ADD1
AM350860035	Media Wall Paper RGB 50 144PXL - Deep Black ADD2
AM350090035	Media Wall Paper RGB 50 144PXL - Deep Black ADD3
AM350120035	Media Wall Paper RGB 50 144PXL - Deep Black ADD4

Mounting Accessories

Item Code	Description
AM350040035	Velcro Strip Roll 25m / 82ft - Black
AM350050035	Velcro Strip Roll 25m / 82ft - White
AM350020035	Extension KIT Black (10 x TX CONNECT Smart Extension Connector Media Wall Paper Black, Smart IN Adapter Media Wall Paper, Smart OUT Adapter Media Wall Paper)
AM350030035	Extension KIT White (10 x TX CONNECT Smart Extension Connector Media Wall Paper White, Smart IN Adapter Media Wall Paper, Smart OUT Adapter Media Wall Paper)
AM350060035	Insulation Cutting Edge Glue, 25ml (0.85oz)

Cables

Item Code	Description
AM308040035	TX CONNECT Smart Power/Data Injector Box 2.0 Mini
AA556380055	TX CONNECT Smart Power Injector Cable Mini
AM275780035	TX CONNECT Smart 35cm Mini (F) to Micro (F) Interconnection Cable (13.8")
AM275770035	TX CONNECT Smart 50cm Micro (F) to Micro (F) Interconnection Cable (19.7")
A63420F0055	TX CONNECT Smart 30cm Mini (F) to Mini (F) Interconnection Cable (11.8")
AM275760035	TX CONNECT Smart 35cm Mini (F) to Mini (F) Interconnection Cable (13.8")
AA556360055	TX CONNECT Smart 80cm Mini (F) to Mini (F) Interconnection Cable (31.5")
AM308050035	TX CONNECT Smart 50cm Micro (F) to Mini (M) Extension Cable (19.7")
A6342330055	TX CONNECT Smart 1m Mini (F) to Mini (M) Extension Cable (3.3ft)
A6342410055	TX CONNECT Smart 3m Mini (F) to Mini (M) Extension Cable (9.8ft)
AA580410055	TX CONNECT Smart 5m Mini (F) to Mini (M) Extension Cable (16.4ft)
A6342680055	TX CONNECT Smart 10m Mini (F) to Mini (M) Extension Cable (32.8ft)
AM350000035	TX CONNECT Smart Extension Connector Media Wall Paper Black (10 Pieces)
AM350010035	TX CONNECT Smart Extension Connector Media Wall Paper White (10 Pieces)
AM349970035	TX CONNECT Smart IN Adapter Media Wall Paper Black
AM349980035	TX CONNECT Smart OUT Adapter Media Wall Paper Black
AM349990035	TX CONNECT Smart Starter Adapter Media Wall Paper Black
AA556150055	TX CONNECT Data cable, 20m / 65.6ft



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Cables

Item Code	Description
AA556130055	TX CONNECT Data cable, 1m / 3.28ft
A63408C0055	TX CONNECT Data cable, 3m / 9.84ft
A6341040055	TX CONNECT Data cable, 10m / 32.8ft
AA556150055	TX CONNECT Data cable, 20m / 65.6ft

TX CONNECT - for Strip only

Item Code	Description
AM275770035	TX CONNECT Smart 50cm Micro (F) to Micro (F) Interconnection Cable (19.7")
AM275780035	TX CONNECT Smart 35cm Mini (F) to Micro (F) Interconnection Adapter Cable (13.8")
AM308050035	TX CONNECT Smart 50cm Micro (F) to Mini (M) Extension Adapter Cable (19.7")

Power Supply

Item Code	Description
AA624090055	LED Engine Smart 24V 100W Indoor
AA553860055	AC Power Cord, 2m / 6,6ft (EU)
AA556290055	AC Power Cord, 2m / 6,6ft (US)
AA556300155	AC Power Cord, 2m / 6,6ft (UK)

Controls

Item Code	Description
AB443930035	SYMPL e:pix Node
AB447060035	SYMPL Core S, up to 5,000 PXL
AM193980031	LIGHTING CONTROL ENGINE 2 mx, up to 50,000 PXL
AM368100035	LIGHTING CONTROL ENGINE 3, up to 2,000,000 PXL
AM368100135	LIGHTING CONTROL ENGINE 3 fx, up to 2,000,000 PXL, Video In
AA438940235	Video Micro Converter (DMX/e:pix)
AM313830035	SYMPL Switch with 5 x 10/100 with PoE
AA632020055	8-Port Network switch with 4x 10/100/1000 ports with PoE
AA611750055	24-Port Network switch with 24x 10/100/1000 ports and 2x combo SFP
AA611760055	48-Port Network switch with 48 x 10/100/1000 ports and 2x Combo SFP

