



Planar TWS Series LED Video Wall



Light-Weight and Versatile Fine Pitch LED Performance

The Planar® TWS Series is a family of versatile ultra-fine pitch LED video wall displays available in 0.9, 1.2, 1.5 and 1.8 millimeter pixel pitches. Featuring a convenient 27" diagonal size, the all-in-one design fits a broad range of fine-pitch installation environments. The Planar TWS Series is light-weight and easy to handle enabling it to be an attractive solution for faceted curved video walls, hanging video walls or traditional video walls favoring a compact fine pitch solution. The Planar TWS Series features pixel pitches and optical performance well suited for demanding visual applications and offers options for redundant video cabling and power. The Planar TWS Series features a 16:9 aspect ratio and exactly achieves popular resolutions at every pitch. For a wide range of high resolution applications, the Planar TWS Series is an ideal fixed installation solution.

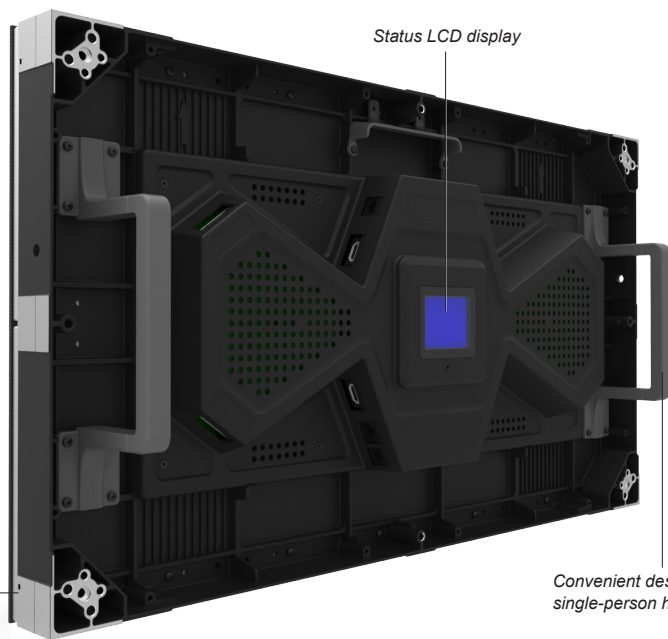
Fits More Installation Environments

Planar TWS Series 27" LED video wall displays feature an all-in-one, simple-to-deploy design that enhances application possibilities and improves installation efficiency. Delivering 16:9 aspect ratio, Planar TWS Series perfectly hits Full HD, 4K and 8K resolutions. The Planar TWS Series LED display size works well in small or large spaces, as well as for concave curved video walls. Constructed in light-weight, thermally-efficient magnesium alloy cabinet, the Planar TWS Series provides improved heat dissipation and faster, easier single-person handling during installation.

Scales to any size in range of pixel pitches



Status LCD display



Convenient design for single-person handling

Magnesium alloy chassis is 30% lighter than aluminum with enhanced heat dissipation

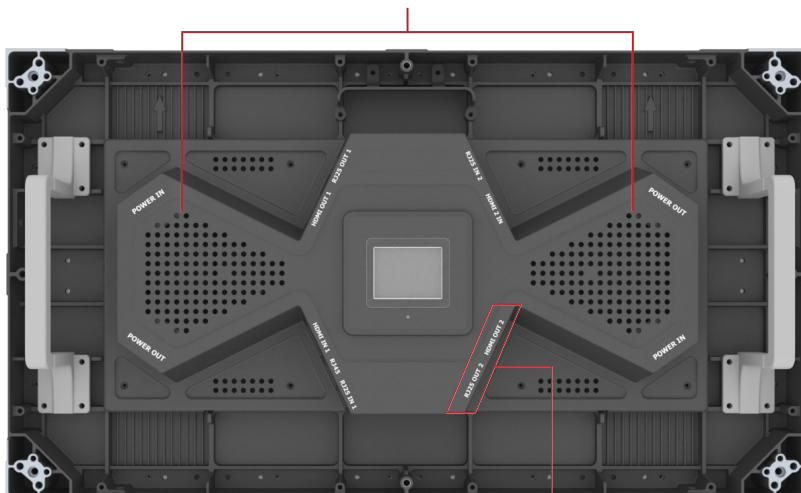
Compact, Reliable and Easy to Service

The Planar TWS Series is architected to deliver what matters for quick installation and service. Every Planar TWS Series display includes two standard HDMI input and loop-output pairs, meeting HDCP compliance and redundancy needs.

Planar TWS Series LED displays are available with single or dual power supplies, with the dual power supply options adding a level of redundancy. For quick servicing, the Planar TWS Series components can be accessed by removing the rear cover.

The Planar TWS Series' compact, all-in-one design locates video power, control and redundancy in one location, requiring no external boxes or converters.

Dual power supplies (optional)

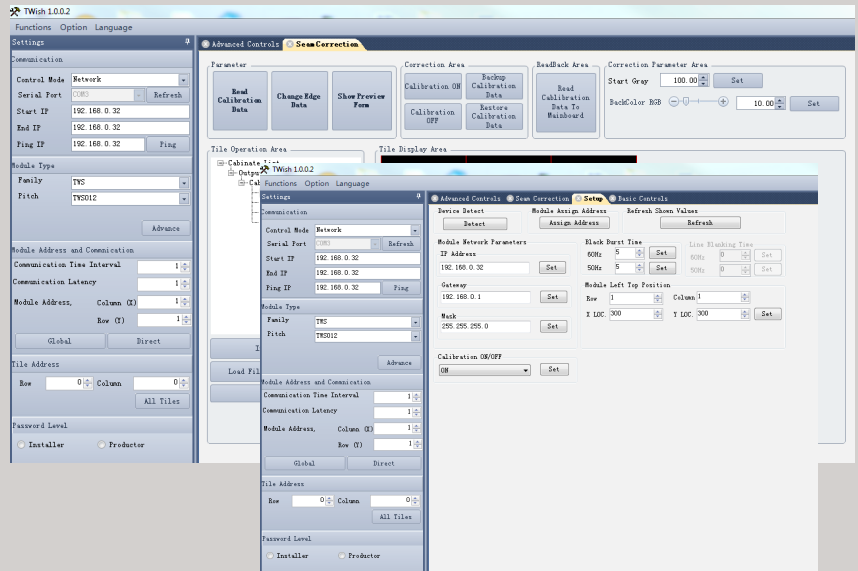


Standard, redundant HDCP-compliant HDMI input and control

Comprehensive Image Control Capabilities

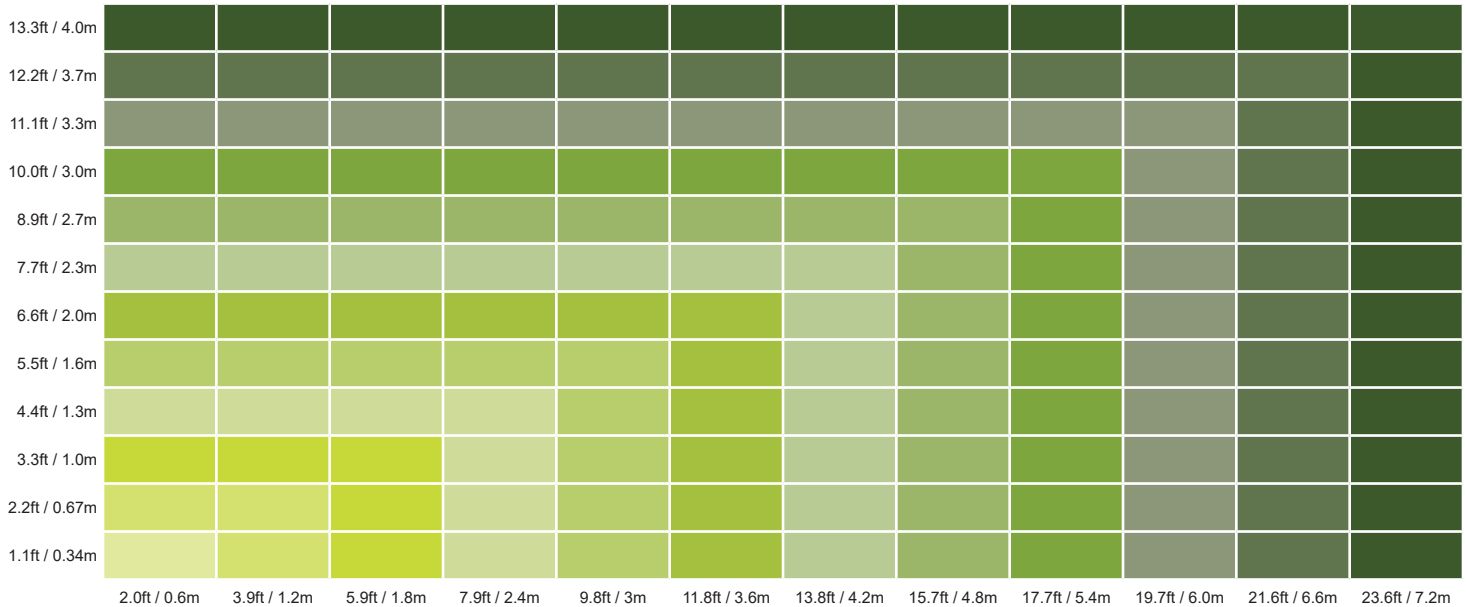
For LED video wall image control, Planar TWS Series uses Planar® LED Control Software for image set-up and adjustment. The Windows®-based software communicates to the video wall via LAN, enabling set-up and control of parameters like brightness, RGB color space and gamma gray scale. It allows for electronic seam correction to optimize uniformity on even the most perfectly installed video walls.

Planar TWS Series LED displays also support a serial command set that can be invoked via RS232 or LAN connection.



16:9 Aspect Ratio for Popular Resolutions

Planar TWS Series displays feature a 16:9 aspect ratio that ensures every pixel pitch is designed to exactly achieve Full HD, 4K or 8K resolutions. Planar TWS Series displays can also be configured in any video wall configuration to meet the widest range of application requirements.



Displays	1 x 1	2 x 2	3 x 3	4 x 4	5 x 5	6 x 6	7 x 7	8 x 8	9 x 9	10 x 10	11 x 11	12 x 12
TWS0.9	640 x 360	1280 x 720	1920 x 1080	2560 x 1440	3200 x 1800	3840 x 2160	4480 x 2520	5120 x 2880	5760 x 3240	6400 x 3600	7040 x 3960	7680 x 4320
TWS1.2	480 x 270	960 x 540	1440 x 810	1920 x 1080	2400 x 1350	2880 x 1620	3360 x 1890	3840 x 2160	4320 x 2430	4800 x 2700	5280 x 2970	5760 x 3240
TWS1.5	384 x 216	768 x 432	1152 x 648	1536 x 864	1920 x 1080	2304 x 1296	2688 x 1512	3072 x 1728	3456 x 1944	3840 x 2160	4224 x 2376	4608 x 2592
TWS1.8	320 x 180	640 x 360	960 x 540	1280 x 720	1600 x 900	1920 x 1080	2240 x 1260	2560 x 1440	2880 x 1620	3200 x 1800	3520 x 1980	3840 x 2160

Full HD 1920 x 1080

4K 3840 x 2160

8K 7680 x 4320

PLANAR TWS SERIES SPECIFICATIONS

Model	TWS0.9	TWS1.2	TWS1.5	TWS1.8
Pixel Pitch	0.9375mm	1.25mm	1.5625mm	1.875mm
Display Resolution	640 x 360	480 x 270	384 x 216	320 x 180
Pixel Density (pixels)	1,137,777/sq m 105,700/sq ft	640,000/sq m 59,458/sq ft	409,600/sq m 38,053/sq ft	284,444/sq m 26,422/sq ft
LED type	Commercial grade 3-in-1 Black SMD			
LED surround	Black Solder Mask		Planar® MicroGrid Shader™	
Brightness Max (cd/sq. m)	>800			
Color Gamut	100% NTSC			
Contrast Ratio	>6000:1			
LED Refresh Rate	1920Hz	3000Hz	3000Hz	3000Hz
Color Temperature, adjustable (k)	3200 - 9300			
Brightness Uniformity	≥97%			
Color Uniformity	≥97%			
Viewing Angle, Horizontal	160°			
Viewing Angle, Vertical	140°			
LED Lifetime: Typical	100000hrs			
Display Size (W x H x D)	600 x 337.5 x 95mm 23.62 x 13.28 x 3.74in			
Line Voltage	100-240 Volts AC, 50/60Hz autoranging			
Power Consumption, Max. (watts)	140/Display 700/sq m			
Power Consumption, Typ (watts)	48/Display 240/sq m			
Acoustic Noise	Fanless Operation			
Operating Temperature (degrees F/C) 10-80% relative humidity, non-condensing	-10° to 40° C -14° to 104° F			
Video Inputs	2x HDMI in, 2x HDMI out			
HDCP Compliant	Yes			
Video Input Resolution Maximum	1920 x 1080 @60Hz			
Frame Rate	50, 60Hz			
Video Signal Extension Options	CAT6 and Fiber Optic			
Video Signal Redundancy	Optional			
Video Extension Redundancy	Optional			
Display Control	Planar Control Software included			
Control Input Type	RS232 or Ethernet			
Regulatory Compliance	NRTL UL 60950-1, FCC Class A, CE EN60950-1, EN 55032 Class A and EN55024, WEEE, CISPR 32/2015			

Visit www.Planar.com for full list of product specifications.

