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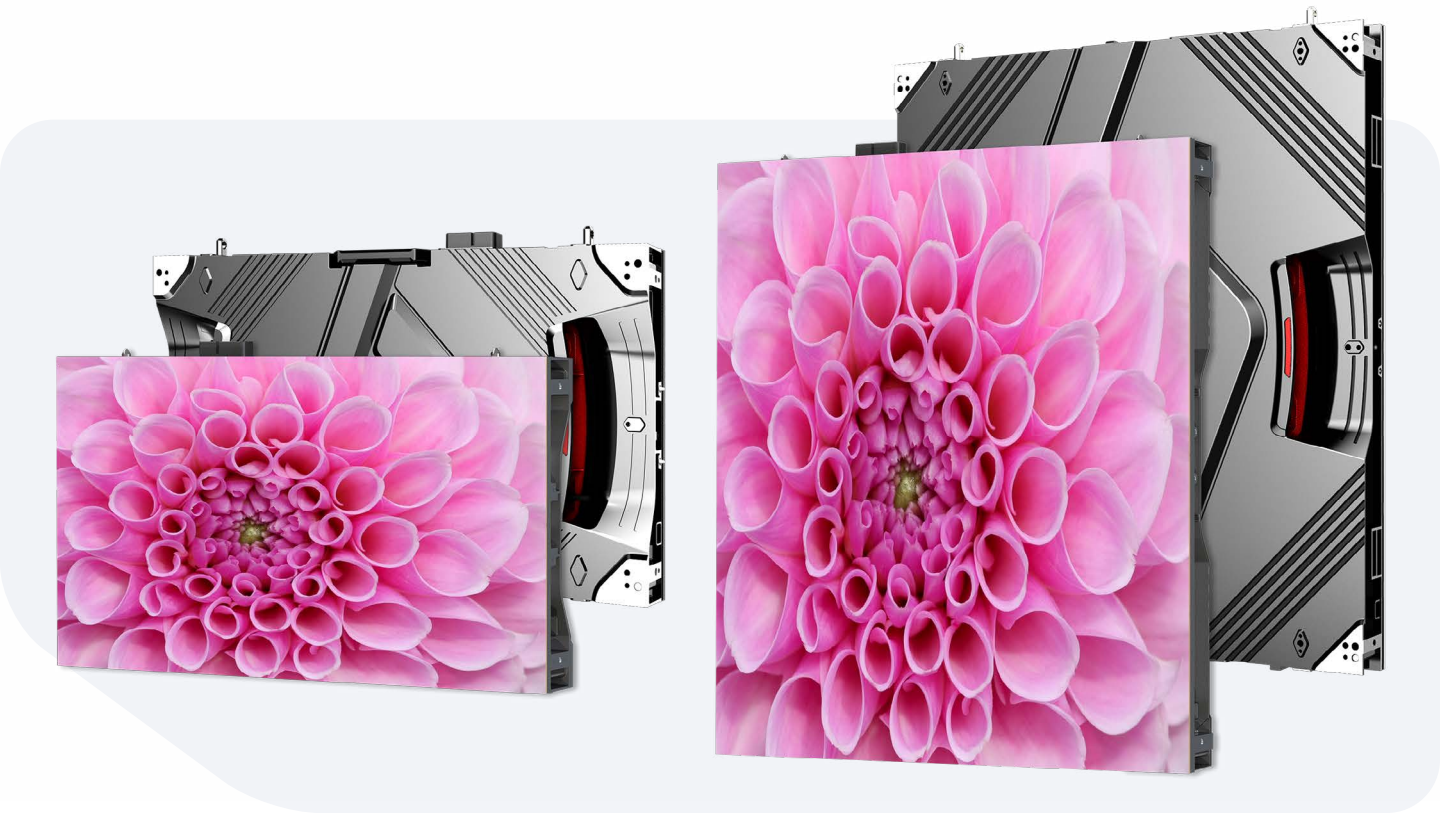
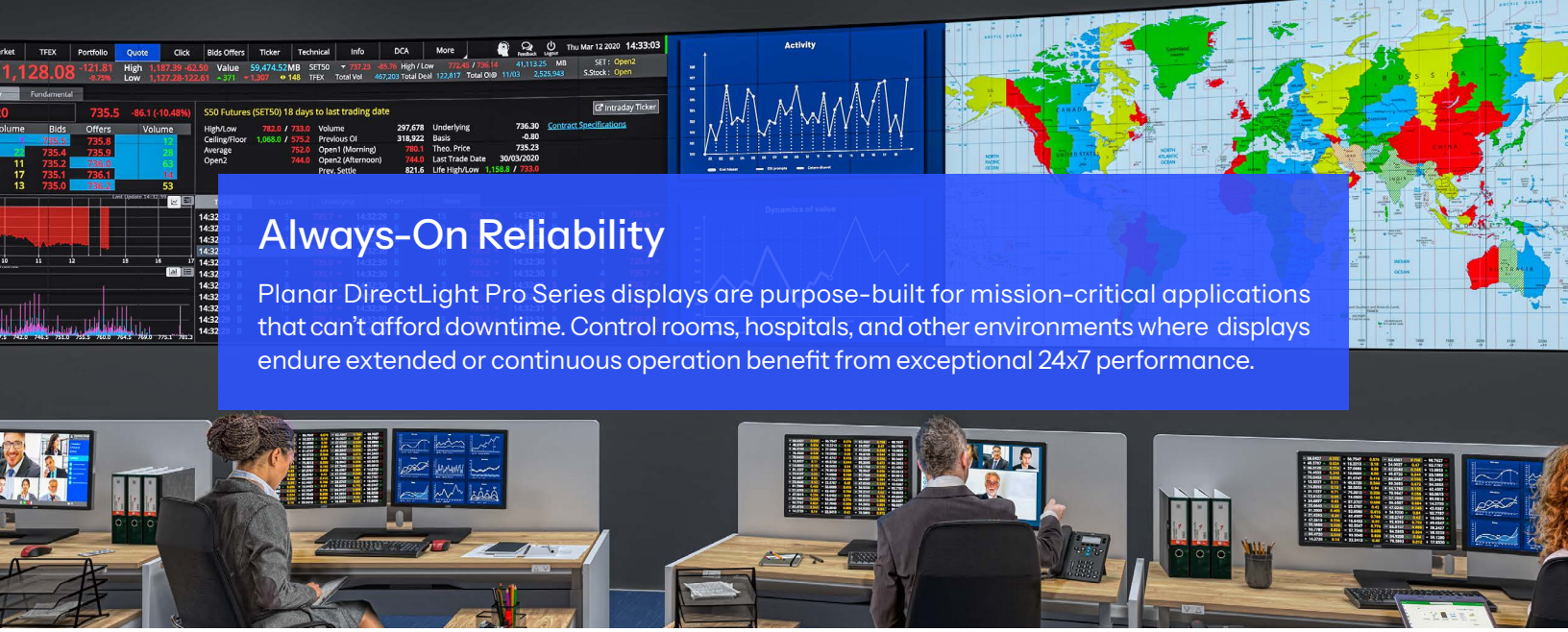
Planar DirectLight Pro Series

MicroLED Video Walls

Planar® DirectLight® Pro Series fine pixel pitch MicroLED video walls deliver beautiful imagery to suit a wide range of indoor, fixed installation applications. With pixel pitches from 0.9 to 1.8 millimeters, the TAA-compliant Planar DirectLight Pro Series delivers all the benefits of MicroLED technology as well as front serviceability and high bandwidth, reducing deployment complexity while maximizing efficiency.

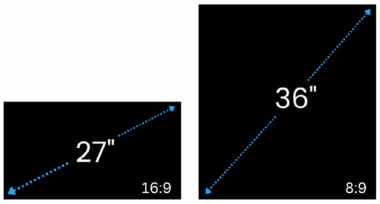
- 0.9, 1.2, 1.5 and 1.8mm pixel pitches
- Featuring MicroLED technology
- 2,000-nit High Brightness Model with standard power consumption
- Low Power Model with standard 500-nit brightness
- Compatible with multiple controllers
- Planar® EverCare™ Lifetime Limited Warranty





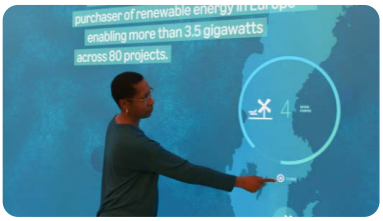
Always-On Reliability

Planar DirectLight Pro Series displays are purpose-built for mission-critical applications that can't afford downtime. Control rooms, hospitals, and other environments where displays endure extended or continuous operation benefit from exceptional 24x7 performance.



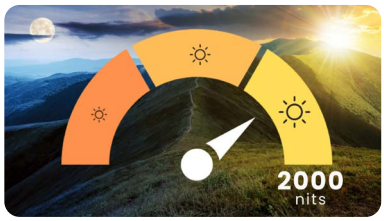
Engrained Efficiency

Planar DirectLight Pro Series video walls are designed to offer a more efficient installation process, with fewer components needed while maintaining high visual quality. The use of larger 27" and double-tall 36" LED cabinets helps streamline the setup, reducing visible seams and making maintenance simpler.



Enabled Interactivity

Support for touch interactivity expands the range of applications for the series, enabling use in collaborative environments and interactive experiences. When paired with compatible touch technology, users can interact directly with content for enhanced engagement and communication.



Brightness Meets Efficiency

High Brightness model built for maximum performance in high ambient light environments delivers 2,000 nits of sustained brightness with only 135 watts of power consumption.

TAA COMPLIANT

Made For America

The series is TAA compliant, making it an ideal solution for organizations and projects that require products in approved Trade Agreements Act-designated countries. The series supports procurement requirements while delivering the premium visual performance and commercial-grade reliability expected from Planar.

MADE IN EUROPE. MADE BY PLANAR.

Proudly manufactured at Planar's own state-of-the-art factory in **Slovakia**, with five substantial SMD lines supporting advanced manufacturing, precision and quality.

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Lifetime Protection

Planar DirectLight Pro Series is protected by the Planar® EverCare™ Lifetime Limited Warranty which covers the whole display, everything from the sub-pixels to the video controller, for as long as it is used in a fixed location.

Flexible Control

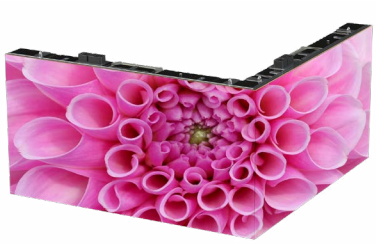
Planar® WallDirector™ Video Controller offers robust default processing while compatibility with Brompton and Colorlight gives customers the freedom to choose the ideal solution for their application's unique requirements.

Energy-Conscious Options

Low Power model delivers 500 nits of brightness at just 68 watts of power consumption, making it ideal for energy-conscious customers or low ambient light conditions.

High Bandwidth

Most models offer bandwidth 5x greater than competitive solutions, reducing total cost of ownership with fewer cabinets, cables and internal components like receivers and power supplies.



Turn the Corner

Display modules and cabinets have 45-degree beveled edges enabling video walls to wrap around 90° corners for unique installations, and opening the displays for use in more creative applications.

Low-Power Standby Mode

The optional Planar® Smart Power Switch enables low power mode when inactive. The slim, LAN-connected AC switch fits behind the video wall and lowers power draw from each column of cabinets.

Configure a Video Wall

Planar DirectLight Pro Series video walls feature a modular design with display cabinets that stack like building blocks in any configuration. Create video walls with custom sizes, shapes, corners, curves and resolutions.

- Full HD 1920 x 1080
- 4K 3840 x 2160
- 8K 7680 x 4320

Models	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
DLP 0.9	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
DLP 1.2	480 x 270	960 x 540	1440 x 810	1920 x 1088	2400 x 1350	2880 x 1620	3360 x 1890	3840 x 2176	4320 x 2430	4800 x 2700	5280 x 2970	5760 x 3240
DLP 1.5	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
DLP 1.8	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

Video Wall Sizes												
Diagonal	27"	55"	82"	109"	137"	164"	191"	219"	246"	273"	301"	328"
Area (sq m)	0.21	0.82	1.85	3.29	5.14	7.41	10.08	13.17	16.67	20.58	24.90	29.63
Feet/Meters	2.0 x 1.1ft 0.6 x 0.3m	4.0 x 2.2ft 1.2 x 0.7m	6.0 x 3.4ft 1.8 x 1.0m	7.9 x 4.5ft 2.4m x 1.4ft	9.9 x 5.6ft 3.0 x 1.7m	11.9 x 6.7ft 3.6 x 2.0m	13.9 x 7.8ft 4.2 x 2.4m	15.9 x 8.9ft 4.8 x 2.7m	17.9 x 10.1ft 5.4 x 3.1m	19.8 x 11.2ft 6.0 x 3.4m	21.8 x 12.2ft 6.7x 3.7m	23.8 x 13.4ft 7.3 x 4.1m

Specifications

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Cabinet Model	DLP 0.9	DLP 1.2	DLP 1.5	DLP 1.8
Pixel Pitch	0.945mm	1.26mm	1.575mm	1.89mm
Cabinet Resolution	27" - 640 x 360 36" - 640 x 720	27" - 480 x 270 36" - 480 x 540	27" - 384 x 216 36" - 384 x 432	27" - 320 x 180 36" - 320 x 360
Pixel Density	1,119,789/sq m | 104,032/sq ft	629,882/sq m | 58,518/sq ft	403,124/sq m | 37,451/sq ft	279,947/sq m | 26,008/sq ft
Brightness Max, Calibration On	500 or 2000 nits			
Viewing Angle (50% Brightness)	>170° Horizontal; >140° Vertical			
Cabinet Size (W x H x D)	27" - 604.8 × 340.2 × 72.5mm | 23.81 x 13.39 x 2.85in 36" - 604.8 x 680.4 x 72.5mm | 23.81 x 26.78 x 2.85in			
Weight (Cabinet)	27" - 6.94kg | 15.3lbs 36" - 13.2kg | 29.1lbs			
Installation & Service Access	Front Access, module removal. All internal electronics accessible			
Supported Installation Types	Standard Flat Wall | Forward Tilt: up to 10° | 90° exterior corners | Concave faceted curve			
Controller Compatibility	Planar WallDirector Video Controller | Optional: Brompton & Colorlight			
Regulatory Compliance	NRTL UL 60950-1 TUV Rheinland, FCC Class A, CE EN60950-1, EN 55032 Class A and EN55024, WEEE, CISPR 32/2015			
Warranty	Planar EverCare Lifetime Limited Warranty (North America)			

Complete Model	HD109-12MFHD	HD137-15MFHD	HD164-18MFHD	DHD198-12MDFHD	UHD164-09MUHD	UHD219-12MHUD
Display Technology	Direct View LED					
Display Resolution	1920 x 1088	1920 x 1080	1920 x 1080	3840 x 1088	3840 x2160	3840 x2176
Display Size *(Diagonal)*	109in	137in	164in	198in	164in	219in
Display Size *(W x H)*	7.9ft x 4.5ft (2419 x 1361mm)	9.9ft x 5.6ft (3024 x 1701mm)	11.9ft x 6.7ft (3629 x 2041mm)	15.9ft x 4.5ft (4839 x 1361mm)	11.9ft x 6.7ft (3629 x 2041mm)	15.9ft x 8.9ft (4839 x 2722mm)
Pixel Pitch	1.26 x 1.25 mm	1.575mm	1.89mm	1.26 x 1.25 mm	0.9mm	1.26 x 1.25 mm
Brightness Max, Calibration On	2,000nits					
Contrast Ratio	10,000:1					
Brightness Uniformity	≥97%					
Color Uniformity	≥97%					
LED Refresh Rate	3480hz					
Color Temperature Range (k)	3,000 - 10,000					
Viewing Angle *(50% Brightness)*	>170° Horizontal; >140° Vertical					
Video Controller Size	1U rack-mounted controller, 19" rack					
Video Input Resolution, Max	3840 x 2160 @ 60hz					
Frame Rate	50, 60hz					
Video Inputs	4x HDMI 2.0 (w/ HDCP 2.2)					
HDR Support	Yes					
Control	IR Remote Control, RS-232, USB, Network, Planar WallDirector Software					
Installation & Service Access	Front, Planar tool supplied, Module Locking feature					
Runtime Duty Cycle *(Hours/ Day)*	24 x 7					
LED Lifetime, Typical	100,000hrs					
Line Voltage	100-240V AC, 50/60hz					
Power Consumption, Maximum	2,230 watts	3,445 watts	4,930 watts	4,390 watts	4,930 watts	8,710 watts
Display Weight	112kg |247lbs	176kg | 388lbs	249kg | 547lbs	222kg | 489lbs	255kg | 561lbs	439kg | 965lbs
Storage Temperature/ Humidity *(degrees F/C)*	-40° to 60° C | -40° to 140° F 10-85% relative humidity, non-condensing					
Operating Temperature/ Humidity *(degrees F/C)*	-20° to 40° C | -4° to 104° F 10-80% relative humidity, non-condensing					
Warranty	Planar EverCare Lifetime Limited Warranty (North America)					
Package Includes	Display wall, Planar WallDirector Video Controller, signal cables, power cables, wall mount, trim, remote control, and module spares (may vary by region)					

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