



# Planar DirectLight Ultra Series

## LED Video Wall Displays

---

- ▶ 0.6, 0.7, 0.9, & 1.2mm pixel pitches
  - ▶ MicroLED technology on most models
  - ▶ Planar<sup>®</sup> ActivAlign<sup>™</sup> Module Alignment System
  - ▶ 24x7 mission-critical reliability
- 



Planar<sup>®</sup> DirectLight<sup>®</sup> Ultra<sup>™</sup> Series LED video walls offer always-on, high performance, high resolution display experiences with the finest pixel pitches from 0.6 to 1.2 millimeters for mission-critical and the most refined applications. It is available with a multi-point interactive touch system and Planar<sup>®</sup> ERO-LED<sup>™</sup> (Extended Ruggedness & Optics<sup>™</sup>) for added durability.

This premium line features models with MicroLEDs, off-board power supply, Planar<sup>®</sup> ActivAlign<sup>™</sup> technology, a powerful processor and corresponding video wall management software. It is TAA Compliant and includes the unmatched Planar<sup>®</sup> EverCare<sup>™</sup> Lifetime Limited Warranty.

---

## High Resolution MicroLED

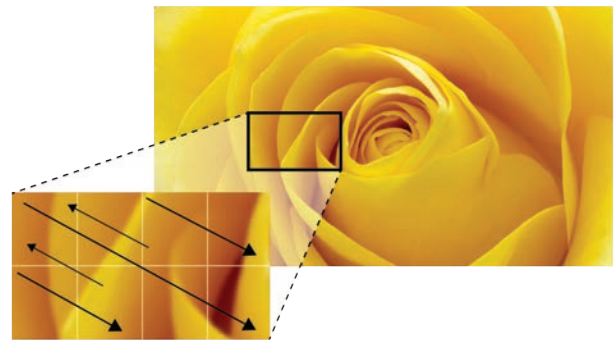
Planar MicroLEDs are less than half the size of the smallest standard LEDs and deliver up to three times more brightness, excellent color uniformity, better overall contrast and deeper blacks. They are also more energy efficient and produce less heat at the same brightness. The MicroLED design has a smaller footprint reducing light blockage and ambient-light reflection offering the best images. Their small size facilitates the highest resolution for LED, even in smaller video walls.





## Always-On Reliability

Planar DirectLight Ultra Series displays are designed for mission-critical environments where displays need to withstand extended or continuous operation day and night. Control rooms, hospitals and other applications that can't afford downtime benefit from exception performance 24x7.



## Continuous Alignment

Planar® ActiVAlign™ proprietary self-adjusting alignment technology maintains high visual performance over time, combating issues such as vibration and thermal expansion that can cause LED modules to shift and disrupt the seamless visual experience.



## Powerful Video Control

The compact and scalable Planar® WallDirector™ Video Controller drives the video wall at native resolution while its corresponding web-based management software simplifies set-up, configuration, operation and monitoring.

The 1U rack mount video controller captures multiple 4K inputs and can be stacked with additional controllers for more video inputs.



## Reliable Off-Board Power

The Planar® Remote Power Supply (RPS) takes heat, depth, noise, weight, service points and electrical outlets away from the video wall and into a rack room. Featuring n+1 redundant, hot swap power modules, the Planar RPS is available with 110V and 220V power and features a low power standby mode when not operating 24x7.



## Lifetime Protection

Planar DirectLight Ultra 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.



## Made for America

Organizations that prefer to use products that have been manufactured in the United States or countries designated in the U.S. Trade Agreements Act (TAA) need look no further. Planar DirectLight Ultra Series is TAA Compliant.

# Off-the-Shelf Video Walls

Planar® DirectLight® Ultra Complete™ 4K or 8K LED video wall displays reduce deployment time and complexity. Simply choose the diagonal size that best suits the environment and application, and receive everything in one complete, no-hassle solution.

## INCLUDED

- LED Display Cabinets
- Planar WallDirector Video Controller
- Remote Power Supply
- Wall Mounts
- Remote Control
- Cables
- Spare Modules



## Configure a Video Wall

If none of the Planar DirectLight Ultra Complete video wall displays is quite right, custom sizes, shapes and resolutions of Planar DirectLight Ultra Series are available.

With precise pixel pitch values and cabinets featuring a 16:9 aspect ratio, all models can achieve popular resolutions.

Design a video wall at [www.planar.com/calculator](http://www.planar.com/calculator)



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
<b>DLU-0.6</b>	950 x 540	1920 x 1080	2880 x 1620	3840 x 2160	4800 x 2700	5760 x 3240	6720 x 3780	7680 x 4320	8640 x 4860	9600 x 5400	10560 x 5940	11520 x 6480
<b>DLU-0.7</b>	768 x 432	1536 x 864	2304 x 1296	3072 x 1728	3840 x 2160	4608 x 2592	5376 x 3024	6144 x 3456	6912 x 3888	7680 x 4320	8448 x 4752	9216 x 5184
<b>DLU-0.9</b>	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
<b>DLU-1.2</b>	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

Video Wall Sizes												
<b>Area (sq m)</b>	0.20	0.81	1.82	3.24	5.06	7.29	9.92	12.96	16.40	20.25	24.50	29.16
<b>Diagonal</b>	27"	54"	81"	108"	136"	163"	190"	217"	244"	271"	298"	325"
<b>Feet/Meters</b>	2.0 x 1.1ft 0.6 x 0.3m	3.9 x 2.2ft 1.2 x 0.7m	5.9 x 3.3ft 1.8 x 1.0m	7.9 x 4.4ft 2.4 x 1.4m	9.8 x 5.5ft 3.0 x 1.7m	11.8 x 6.6ft 3.6 x 2.0m	13.8 x 7.8ft 4.2 x 2.4m	15.8 x 8.9ft 4.8 x 2.7m	17.8 x 10.0ft 5.4 x 3.0m	19.7 x 11.1ft 6.0 x 3.4m	21.7 x 12.2ft 6.6 x 3.7m	23.6 x 13.3ft 7.2 x 4.1m

# Specifications

Model	DLU-0.6	DLU-0.7	DLU-0.9	DLU-1.2
Pixel Pitch	0.62mm	0.78mm	0.93mm	1.25mm
Display Resolution	960x540	768x432	640x360	480x270
Pixel Density (pixels)	2,560,000	1,638,400	1,137,778	640,000
Brightness Max (cd/sq. m)	1,000	1,200	1,600	800
Contrast Ratio		10,000:1		7,000:1
LED Refresh Rate	3840Hz			
Color Temperature, Adjustable (k)	3000-10000 adjustable			
Viewing Angles	>160° horizontal; >160° vertical			
Display Size (W x H x D)	23.6" x 13.3" x 2.7" (600 x 337.5 x 69 mm)			
Mounted Depth	3.75in (95.2mm) nom. ADA Compliant			
Display Weight (kg/display)	< 20lbs (9.0kg)			
Power Consumption, Max (watts)	140			
Acoustic Noise	<30dBA, Fanless operation			
Operating Temperature (°F/C) 10-80% relative humidity, non-condensing	-10° to 35° C   14° to 95° F (0-50°C, 10-85% RH, non-condensing)			
Wall Mount and Trim	Included			
Installation and Service Access	Front Access, module removal. All internal electronics accessible			
Installation Options	Standard Flat Wall   Forward Tilt: up to 10°   Concave Curve: up to 30° facets   Ceiling			
Regulatory Compliance	NRTL UL 60950-1, FCC Class A, CE EN60950-1, EN 55032 Class A and EN55024, WEEE, CISPR 32/2015			
Install Orientation	Landscape and portrait			Landscape

## Planar Remote Power Supply

Type	RPS110	RPS220
Type	1RU rack mount; 19" rack	1.5RU rack mount; 19" rack
Line Voltage	100-240 Volts AC autoranging	200-240 Volts AC autoranging
Power Output	1200W per output	
Power Supply Configurations	1, 2 or 3 outputs	2, 4 or 6 outputs
Redundancy	n + 1 redundant option	
Hot Swap	Supported for each power supply module	
Low Power Standby Mode	<3W in standby mode	
Power Status	Diagnostic LEDs per power supply module	
Maximum Distance from Video Wall	200ft (61m) standard, 500ft (152.4m) maximum	

## Planar WallDirector Video Controller

Type	1U rack mount controller drives up to 9 Full HD (1920x1080) sections
Video Inputs	4x HDMI 2.0 (w/ HDCP 2.2); 1x DisplayPort 1.2
Video Outputs	9-Output Controller: 9x RJ45 8P8C, 1x DisplayPort 1.2 4-Output Controller: 4x RJ45 8P8C, 1x DisplayPort 1.2
Image Scaling	Planar Big Picture Plus Processing, Planar WallSync, PiP, 4K at 60Hz upscaling and downscaling
Control	IR Remote Control, RS-232, USB, Network, Planar WallDirector Software
Controller Status	Diagnostic LEDs, health monitoring and alerts
Maximum Distance from Wall	200ft (60m)

## Fiber Video Extension Module Option

Type	1U rack mount module drives up to 4 Full HD (1920x1080) sections
Fiber Optic Connection Type	"SFP multi-mode transceivers supports distances up to 1000ft (300m) from video wall. Compatible with single-mode transceivers supporting up to 10k from the wall. (Single-mode transceivers not provided)"
USB Extension	USB-B at module; USB-A at panel
IR Remote Extension	Embedded
Power	AC Power Adapter; 100-240V AC ± 10%, 47 to 63 Hz; 50W

For more information visit: [www.planar.com/directlight-ultra](http://www.planar.com/directlight-ultra)

Planar is a trademark of Planar Systems, Inc. All other trademarks and service marks are property of their holders. Copyright © 2022 Planar Systems, Inc. All rights reserved. This document may not be copied in any form without permission from Planar. Information in this document is subject to change without notice. 3/2022