



Planar DirectLight Ultra Series

LED Video Wall Displays

- ▶ 0.6, 0.7, 0.9, & 1.2mm pixel pitches
 - ▶ MicroLED technology on most models
 - ▶ Planar[®] ActivAlign[™] Module Alignment System
 - ▶ 24x7 mission-critical reliability
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Planar[®] DirectLight[®] Ultra[™] 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[®] ERO-LED[™] (Extended Ruggedness & Optics[™]) for added durability.

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

High Resolution MicroLED

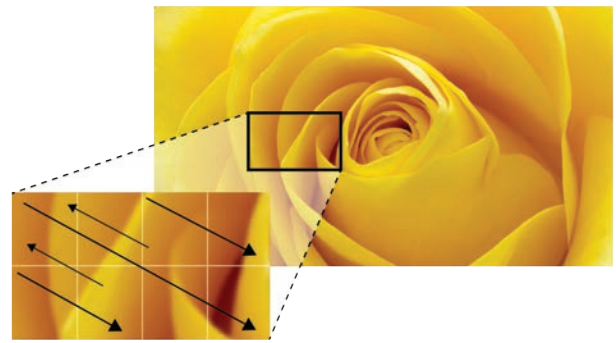
Planar MicroLEDs are less than half the size of the smallest standard LEDs and deliver up to three times more brightness, excellent color uniformity, better overall contrast and deeper blacks. They are also more energy efficient and produce less heat at the same brightness. The MicroLED design has a 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



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 |
|----------------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|
| DLU-0.6 | 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 |
| DLU-0.7 | 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 |
| DLU-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 |
| DLU-1.2 | 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 |

| Video Wall Sizes | | | | | | | | | | | | |
|--------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Area (sq m) | 0.20 | 0.81 | 1.82 | 3.24 | 5.06 | 7.29 | 9.92 | 12.96 | 16.40 | 20.25 | 24.50 | 29.16 |
| Diagonal | 27" | 54" | 81" | 108" | 136" | 163" | 190" | 217" | 244" | 271" | 298" | 325" |
| Feet/Meters | 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

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