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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*

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 millimetres 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.

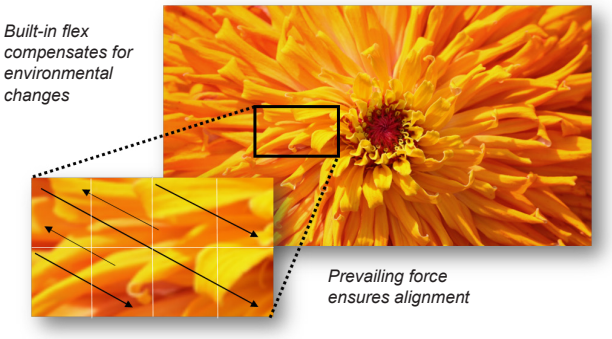
This premium line features models with MicroLEDs, off-board power supply, ActivAlign™ technology, a powerful processor and corresponding video wall management software,and includes the unmatched Leyard Europe EverCare™ Lifetime Limited Warranty.

High Resolution MicroLED

MicroLEDs are less than half the size of the smallest standard LEDs and deliver up to three times more brightness, excellent colour 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.



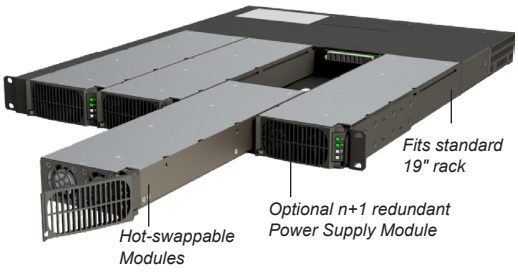
Continuous Alignment

The 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 Warranty

Our DirectLight Ultra Series comes with the EverCare™ Lifetime Limited Warranty which offers complete product coverage for as long as the video wall is used in a fixed location. Leyard Europe EverCare covers the entire product from controller to sub-pixel, including every component in between.

LEYARD EUROPE EVERCARE LIFETIME WARRANTY

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 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

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	960 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 (sqm)	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" / 68cm	54" / 137cm	81" / 205cm	108" / 274cm	136" / 345cm	163" / 414cm	190" / 482cm	217" / 551cm	244" / 619cm	271" / 688cm	298" / 756cm	325" / 825cm
Meters/ Feet	0.6 x 0.3m / 2.0 x 1.1ft	1.2 x 0.7m / 3.9 x 2.2ft	1.8 x 1.0m 5.9 x 3.3ft	2.4 x 1.4m 7.9 x 4.4ft	3.0 x 1.7m 9.8 x 5.5ft	3.6 x 2.0m 11.8 x 6.6ft	4.2 x 2.4m 13.8 x 7.8ft	4.8 x 2.7m 15.8 x 8.9ft	5.4 x 3.0m 17.8 x 10.0ft	6.0 x 3.4m 19.7 x 11.1ft	6.6 x 3.7m 21.7 x 12.2ft	7.2 x 4.1m 23.6 x 13.3ft

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

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			
Colour Temperature, Adjustable (k)	3000-10000 adjustable			
Viewing Angles	>160° horizontal; >160° vertical			
Brightness Uniformity	≥97%			
Colour Uniformity	≥97%			
Display Size (W x H x D)	600 x 337.5 x 69 mm (23.6" x 13.3" x 2.7")			
Mounted Depth	95.2mm (3.75in)			
Display Weight (kg/display)	9.0kg (< 20lbs)			
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
Architecture	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 outputs2, 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	61m (200ft) standard, 152.4m (500ft) maximum	

Planar Wall Director 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
Max. Distance from Wall	60m (200ft)

Fibre 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

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