PLANAR

Komodo Series

LED Video Wall

The Planar® Komodo™ Series delivers premium fine pitch LED video walls in 0.7, 0.9 and 1.2mm pixel pitches, combining Chip-on-Board (COB) MicroLED technology for energy efficiency and durability with an advanced manufacturing process for unmatched color uniformity and wide viewing angles. Optimized for industry-standard resolutions, the Planar Komodo Series supports 16:9 and 21:9 video wall configurations. A high-bandwidth system architecture with a future-ready design ensures uncompromising reliability, long-term compatibility and exceptional image quality for the most visually discerning indoor applications.

- 0.7, 0.9 & 1.2mm pixel pitches
- Designed to deliver maximum visual performance
- Features premium COB LED technology
- Optimized for 16:9 and 21:9 configurations
- High-bandwidth system architecture
- DCI-P3 color gamut at ≥95% for color accuracy
- Supports high frame-rate sources up to 120Hz

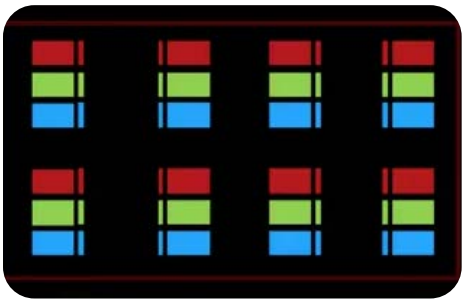
Premium Chip-on-Board Benefits

Durability that Delivers

Built tough with COB LED technology, the Planar Komodo Series reduces failure points and stress on components. The result is exceptional durability, water resistance and lasting reliability, making it ideal for challenging indoor environments.

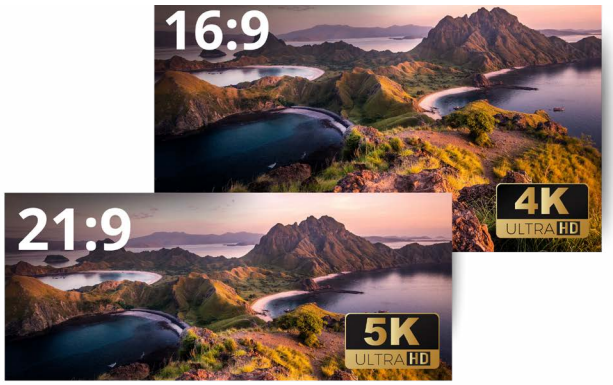
Energy Efficient Design

COB LED technology offers energy efficiency by reducing power consumption while enhancing visual quality. Its design maximizes light output and minimizes energy loss, delivering bright, consistent visuals with lower operating costs. Efficient heat dissipation and a longer lifespan ensure stable, long-term performance.



Advanced Manufacturing for Premium COB

Beyond traditional LED die sorting, Planar Komodo Series features an advanced manufacturing process that strategically positions LED dies in alternating positions. This innovation unlocks richer color uniformity and broader viewing angles, elevating the Planar Komodo Series to a new premium COB LED standard.



Designed for 16:9 and 21:9

Designed to support today's most popular resolutions, the Planar Komodo Series is optimized for native 16:9 and 21:9 aspect ratios, delivering seamless video walls from standard HD and 4K to 8K and ultra-wide 5K applications.

	Example Configurations						
Models	**3 x 3**	**4 x 3**	**4 x 4**	**6 x 6**	**8 x 6**	**8 x 8**	**12 x 12**
0.75mm	FHD 1920 x 1080	WFHD 2560 x 1080	QHD 2560 x 1440	UHD 3840 x 2160	WUHD 5120 x 2160	Apple Retina 5120 x 2880	8K 7680 x 4320
0.94mm	FHD 1920 x 1080	WFHD 2560 x 1080	QHD 2560 x 1440	UHD 3840 x 2160	WUHD 5120 x 2160	Apple Retina 5120 x 2880	8K 7680 x 4320
1.25mm	1440 x 810	1920 x 810	FHD 1920 x 1080	2880 x 1620	WQHD+ 3840 x 1620	UHD 3840 x 2160	5760 x 2970

Unmatched Video Performance

The Planar Komodo Series delivers premium visual performance with a wide and accurate color gamut. Designed for high-end applications, it produces vivid, lifelike imagery with consistent hues and precise detail—ensuring every display meets professional standards for color accuracy.

Processing Behind the Pixels

Megapixel HELIOS® delivers advanced LED processing in a compact yet powerful 1U footprint. With flexible inputs supporting today's standards and a future-ready design that is easily upgradeable for tomorrow's requirements, it ensures lasting compatibility, performance and reliability.

megapixel™

- 1U controller
- Supports sources up to 8K
- Supports high frame rates
- Intuitive interface
- Configurable input array
- Information dense front panel display with source preview
- Supports High frame-rate sources up to 120Hz

Planar Komodo Series

Model Name	Komodo 0.7	Komodo 0.9	Komodo 1.2
Pixel Pitch	0.75mm	0.9375mm	1.25mm
LED Type	COB (Chip-on-Board)		
Cabinet Resolution	640 x 360		480 x 270
Pixel Density	1,780,864 pixels/m^2	1,139,535 pixels/m^2	640,000 pixels/m^2
Brightness Max, Calibration On (cd/sq)	1,000 nits		
Contrast Ratio	12,000:1		
Brightness Uniformity	≥97%		
Color Uniformity	≥95%		
Color Gamut	≥95% DCI-P3		
HDR	Yes		
LED Refresh Rate	3840 - 7680 Hz		
Color Temperature Range	3,000 - 10,000 K		
Viewing Angle	>170° Horizontal; >150° Vertical		
Viewing Cabinet Diagonal	551mm | 21.68"	688.61mm | 27.1"	
Cabinet Size (W x H x D)	18.9" x 10.63" x 1.02" 480mm x 270mm x 26.0mm	23.62" x 13.28" x 2.74" 600mm x 337.5mm x 69.7mm	
Cabinet Depth (with modules)	1.12" | 28.5mm	2.86" | 71.9mm	
Cabinet Area	1.3949ft^2 | 0.1296m^2	2.1796ft^2 | 0.2025m^2	
Module Configuration (W x H)	4 x 2	2 x 2	
Module Resolution	160 x 180	320 x 180	240 x 135
LEDs per module	28,800	28,800	16,200
Module Size (W x H)	4.72" x 5.31" | 120mm x 135mm	5.91" x 6.64" | 150mm x 168.74mm	
Weight (cabinet, with modules)	7.5 lbs | 3.4kg	10.58 lbs | 4.8 kg	
Installation and Service Access	Front Access		
Runtime Duty Cycle	24 x 7		
LED Lifetime, Typical	100,000 hours		
Controller Compatibility	Megapixel HELIOS®		
Video Inputs	DisplayPort 1.4 HBR3, HDMI 2.0b with HDCP 2.2		
Optional Video Inputs	USB-C | 10Gb SDI SMPTE ST2110 | 100Gb QSFP SMPTE ST 2110		
Acoustic Noise	<30dBA, Fanless operation		
ADA Compliant	Yes		
Line Voltage	100-240V AC, 50/60 Hz		
Power Consumption, Maximum	65 watts per cabinet | 502 watts per m^2	85 watts per cabinet | 420 watts per m^2	85 watts per cabinet | 420 watts per m^2
Power Consumption, 50% Brightness	42 watts per cabinet | 324 watts per m^2	49 watts per cabinet | 243 watts per m^2	49 watts per cabinet | 243 watts per m^2
Storage Temperature/Humidity	-10° to 60° C | 14° to 140° F 10-85% relative humidity, non-condensing		
Operating Temperature/Humidity	0°C to 40°C | 32° to 104° F Up to maximum operating temperature, 10-80% relative humidity, non-condensing		
Altitude	0m to 3000m (0ft to 10,000ft) within a 0°C to 25°C range, from 25°C to max it is acceptable to de-rate operating temperature altitudes above 0m (0ft)		
Warranty	3 Years		
Certifications	NRTL UL 62368-1 TUV Rheinland, FCC Class A, CE EN62368-1, EN 55032 Class A and EN55035, WEEE, CISPR 32/2015		

Megapixel HELIOS® Controller

Controller Dimensions	481.5mm (19.0") x 44.2mm (1.7") x 414.5mm (16.3")
Video Inputs	Standard: 1 x DisplayPort 1.4 HBR3, 1 x HDMI 2.0b with HDCP 2.2 | Optional: 4x SDI | Alternate Configuration: 1 x 100Gb QSFP SMPTE ST 2110
Video Input Resolution	HDMI: 4096 x 2160 @ 15-60Hz | DP: 8192 x 5320 @ 14-60Hz, 4096 x 2160 @ 15-120Hz ST2110: 8192 x 5320 @ 14-60Hz, 4096 x 2160 @ 15-120Hz, 5120 x 2880 @ 15-120Hz
Control	Front Panel Display, browser via LAN, 3rd Party Control via LAN
Certifications	UL, FCC (Class A), CE, RoHS, CQC, UKCA, EAC, NOM, BIS, KCC, RCM

Megapixel HELIOS® Switch

Switch Dimensions	440mm (17.32") x 43.21mm (1.70") x 100mm (3.93")
Fiber Optic Input from HELIOS	2 x 10Gb SFP+ Single Mode Fiber Input (LC)
Copper Output Ports	12 x 1Gb/2.5Gb Ethernet (Video Output ports)
Maximum pixels per port	425,000 pixels (12-bit, 60Hz) = 918Mb/s per port
Maximum pixels per 10-port network switch	4,250,000 pixels (12-bit) = 9.18Gb/s per network switch
Certifications	UL, FCC (Class A), CE, WEEE, C-TPAT WEEE, C-TPAT

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