



# Planar Komodo Series

## LED Video Wall

- Available in 0.7, 0.9 and 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  $\geq 95\%$  for color accuracy
- Supports High frame-rate sources up to 120Hz



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.





# 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.



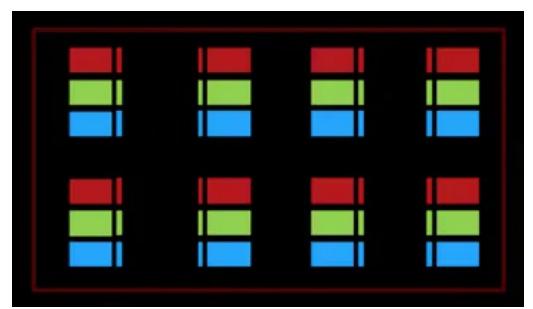
## Energy-Efficient Design

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           |
| <b>0.75mm</b>          | FHD<br>1920 x 1080 | WFHD<br>2560 x 1080 | QHD<br>2560 x 1440 | UHD<br>3840 x 2160 | WUHD<br>5120 x 2160  | Apple Retina<br>5120 x 2880 | 8K<br>7680 x 4320 |
| <b>0.94mm</b>          | FHD<br>1920 x 1080 | WFHD<br>2560 x 1080 | QHD<br>2560 x 1440 | UHD<br>3840 x 2160 | WUHD<br>5120 x 2160  | Apple Retina<br>5120 x 2880 | 8K<br>7680 x 4320 |
| <b>1.25mm</b>          | 1440 x 810         | 1920 x 810          | FHD<br>1920 x 1080 | 2880 x 1620        | WQHD+<br>3840 x 1620 | UHD<br>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.



# megapixel™

## Processing Behind the Pixels

Megapixel HELIOS® delivers advanced LED processing in a compact yet power 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.

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

# Specifications

| Planar Komodo Series                             |   |   |   |  |  |
|--|---|---|---|--|--|
| <b>Model Name</b>                                | Komodo 0.7  | Komodo 0.9  | Komodo 1.2  |  |  |
| <b>Pixel Pitch</b>                               | 0.75mm  | 0.9375mm  | 1.25mm  |  |  |
| <b>LED Type</b>                                  | COB (Chip-on-Board)   |   |   |  |  |
| <b>Cabinet Resolution</b>                        | 640 x 360   | 480 x 270   |   |  |  |
| <b>Pixel Density</b>                             | 1,780,864 pixels/m <sup>2</sup>   | 1,139,535 pixels/m <sup>2</sup>                     | 640,000 pixels/m <sup>2</sup>                       |  |  |
| <b>Brightness Max, Calibration On (cd/sq)</b>    | 1,000 nits  |   |   |  |  |
| <b>Contrast Ratio</b>                            | 12,000:1  |   |   |  |  |
| <b>Brightness Uniformity</b>                     | ≥97%  |   |   |  |  |
| <b>Color Uniformity</b>                          | ≥95%  |   |   |  |  |
| <b>Color Gamut</b>                               | ≥95% DCI-P3   |   |   |  |  |
| <b>HDR</b>                                       | Yes   |   |   |  |  |
| <b>LED Refresh Rate</b>                          | 3840 - 7680Hz   |   |   |  |  |
| <b>Color Temperature Range</b>                   | 3,000 - 10,000k   |   |   |  |  |
| <b>Viewing Angle</b>                             | >170° Horizontal; >150° Vertical  |   |   |  |  |
| <b>Viewing Cabinet Diagonal</b>                  | 551mm   21.68"  | 688.61mm   27.1"                                    |   |  |  |
| <b>Cabinet Size (W x H x D)</b>                  | 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  |   |  |  |
| <b>Cabinet Depth (with modules)</b>              | 1.12"   28.5mm  | 2.86"   71.9mm                                      |   |  |  |
| <b>Cabinet Area</b>                              | 1.3949ft <sup>2</sup>   0.1296m <sup>2</sup>  | 2.1796ft <sup>2</sup>   0.2025m <sup>2</sup>        |   |  |  |
| <b>Module Configuration (W x H)</b>              | 4 x 2   | 2 x 2   |   |  |  |
| <b>Module Resolution</b>                         | 160 x 180   | 320 x 180   | 240 x 135   |  |  |
| <b>LEDs per module</b>                           | 28,800  | 28,800  | 16,200  |  |  |
| <b>Module Size (W x H)</b>                       | 4.72" x 5.31"   120mm x 135mm   | 5.91" x 6.64"   150mm x 168.74mm                    |   |  |  |
| <b>Weight (cabinet, with modules)</b>            | 7.5lbs   3.4kg  | 10.58 lbs   4.8 kg                                  |   |  |  |
| <b>Installation and Service Access</b>           | Front Access  |   |   |  |  |
| <b>Runtime Duty Cycle</b>                        | 24 x 7  |   |   |  |  |
| <b>LED Lifetime, Typical</b>                     | 100,000 hours   |   |   |  |  |
| <b>Controller Compatibility</b>                  | Megapixel HELIOS®   |   |   |  |  |
| <b>Video Inputs</b>                              | DisplayPort 1.4 HBR3, HDMI 2.0b with HDCP 2.2   |   |   |  |  |
| <b>Optional Video Inputs</b>                     | USB-C   10Gb SDI SMPTE ST2110   100Gb QSFP SMPTE ST 2110  |   |   |  |  |
| <b>Acoustic Noise</b>                            | <30dBA, Fanless operation   |   |   |  |  |
| <b>ADA Compliant</b>                             | Yes   |   |   |  |  |
| <b>Line Voltage</b>                              | 100-240V AC, 50/60hz  |   |   |  |  |
| <b>Power Consumption, Maximum</b>                | 65 watts per cabinet   502 watts per m <sup>2</sup>   | 85 watts per cabinet   420 watts per m <sup>2</sup> | 85 watts per cabinet   420 watts per m <sup>2</sup> |  |  |
| <b>Power Consumption, 50% Brightness</b>         | 42 watts per cabinet   324 watts per m <sup>2</sup>   | 49 watts per cabinet   243 watts per m <sup>2</sup> | 49 watts per cabinet   243 watts per m <sup>2</sup> |  |  |
| <b>Storage Temperature/Humidity</b>              | -10° to 60° C   14° to 140° F<br>10-85% relative humidity, non-condensing   |   |   |  |  |
| <b>Operating Temperature/Humidity</b>            | 0°C to 40°C   32° to 104° F<br>Up to maximum operating temperature, 10-80% relative humidity, non-condensing  |   |   |  |  |
| <b>Altitude</b>                                  | 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)           |   |   |  |  |
| <b>Warranty</b>                                  | 3 Years   |   |   |  |  |
| <b>Certifications</b>                            | 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                     |   |   |   |  |  |
| <b>Controller Dimensions</b>                     | 481.5mm (19.0") x 44.2mm (1.7") x 414.5mm (16.3")   |   |   |  |  |
| <b>Video Inputs</b>                              | 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                      |   |   |  |  |
| <b>Video Input Resolution</b>                    | 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 |   |   |  |  |
| <b>Control</b>                                   | Front Panel Display, browser via LAN, 3rd Party Control via LAN   |   |   |  |  |
| <b>Certifications</b>                            | UL, FCC (Class A), CE, RoHS, CQC, UKCA, EAC, NOM, BIS, KCC, RCM   |   |   |  |  |
| Megapixel HELIOS® Switch                         |   |   |   |  |  |
| <b>Switch Dimensions</b>                         | 440mm (17.32") x 43.21mm (1.70") x 100mm (3.93")  |   |   |  |  |
| <b>Fiber Optic Input from HELIOS</b>             | 2 x 10Gb SFP+ Single Mode Fiber Input (LC)  |   |   |  |  |
| <b>Copper Output Ports</b>                       | 12 x 1Gb/2.5Gb Ethernet (Video Output ports)  |   |   |  |  |
| <b>Maximum pixels per port</b>                   | 425,000 pixels (12-bit, 60Hz) = 918Mb/s per port  |   |   |  |  |
| <b>Maximum pixels per 10 port network switch</b> | 4,250,000 pixels (12-bit) = 9.18Gb/s per network switch   |   |   |  |  |
| <b>Certifications</b>                            | UL, FCC (Class A), CE, UL, FCC (Class A), CE, WEEE, C-TPAT WEEE, C-TPAT   |   |   |  |  |

For more information visit: [www.planar.com/komodo](http://www.planar.com/komodo)

Planar is a trademark of Planar Systems, Inc. All other trademarks and service marks are property of their holders. Copyright © 2025 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. 12/2025