



Planar MGM Pro Series

The new generation MGM Pro series , upgraded and iterated version of the MGM series products, widely used in high-end customer scenarios in the international market,adopts advanced module design concepts, covering multiple LED packaging technology options,surface process options, intelligent integration options, and has passed rigorous usage environment testing and safety testing, providing better immersive experiences and services for global customers , beyond the imagination.



**Micro LED
Full Flip Chip**



High Brightness



**Power/Signal
Redundancy**



**170°
Wide Viewing Angle**



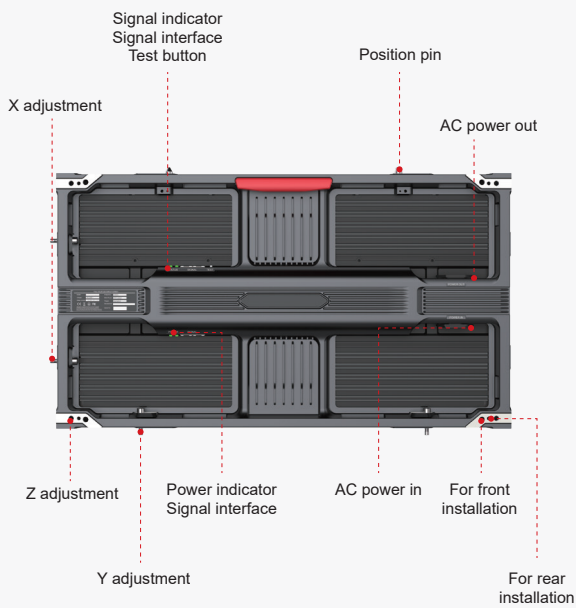
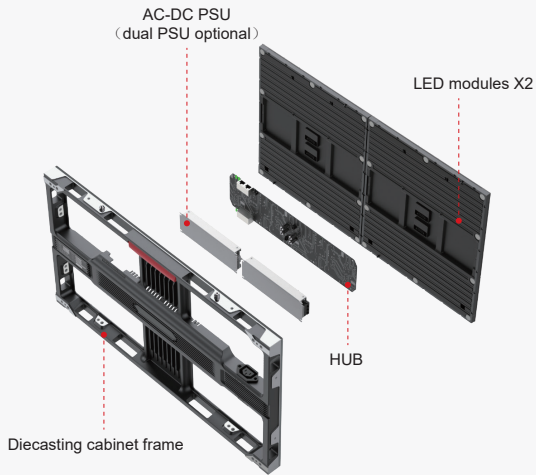
**Better Heat Dissipation
Long lifespan**

- Available with fine pitch pixel LEDs
- High refresh rate
- MicroLED high brightness, high contrast features
- Low power consumption
- High dynamic range
- More details displayed at low brightness
- EMC class B optional

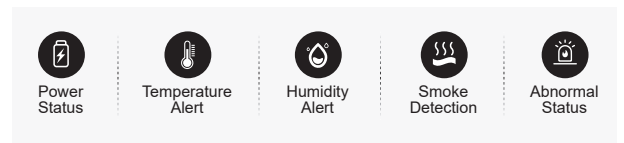


Combination of technological innovation and design aesthetics

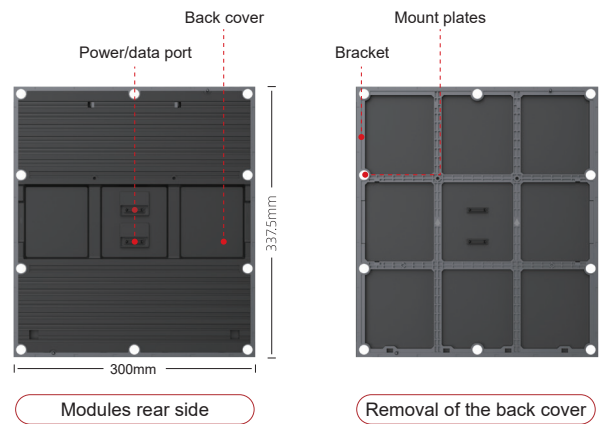
- > Dual receiving card optional;
- > Dual power supply unit optional;
- > AC input at bottom and output at top, plus 300mm distance between power and data interfaces to reduce the interference to signal;
- > Float connectors between hub and modules for stable connection.



Diagnostic Optional

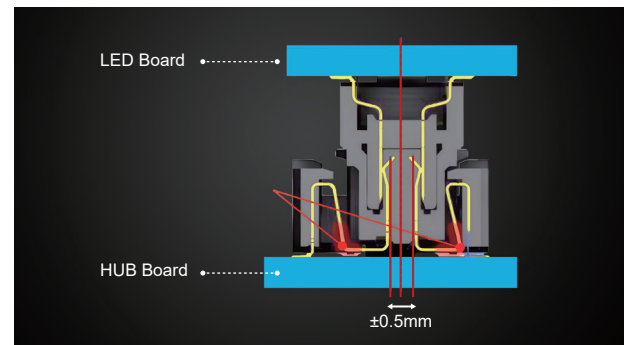


Advanced designed LED Module






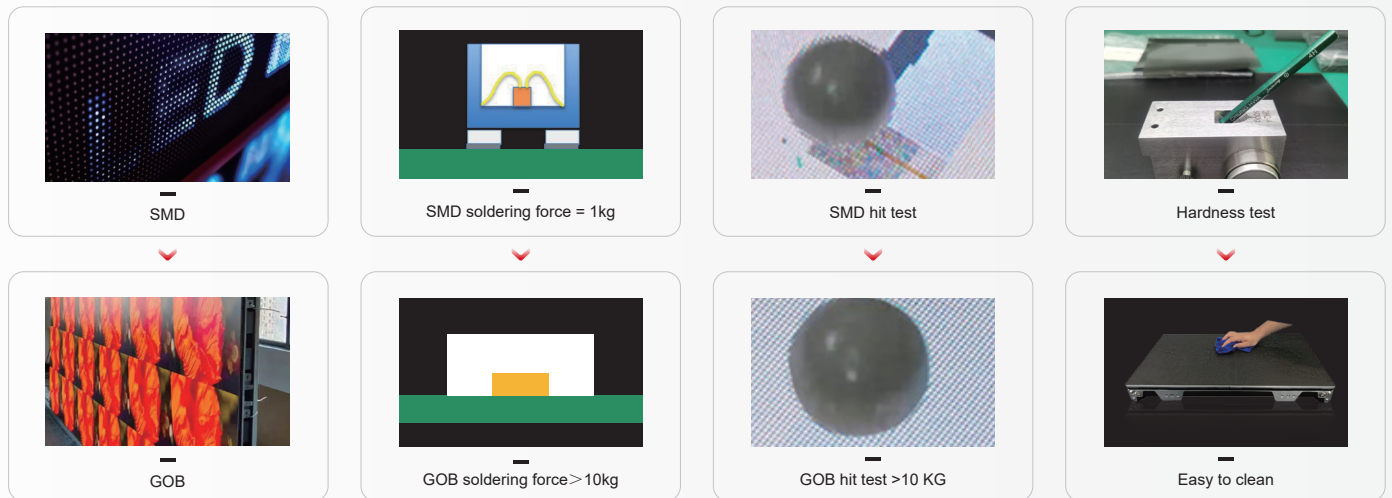
Floating Connectors

The time-proved connection method, introduced by Planar into the LED display industry.



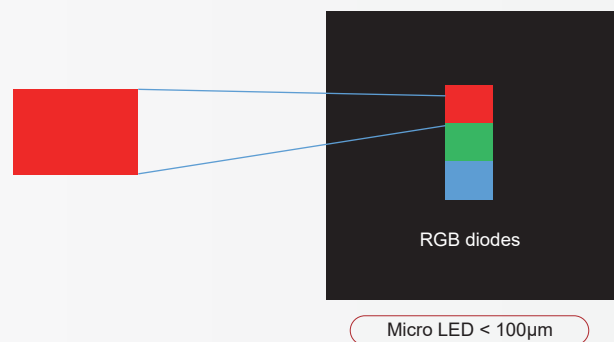
LED - GOB Module Optional

-  COB similar approach but with binning/mixing of LEDs = better uniformity
-  4H hardness
-  Waterproof, easy to clean the surface



Micro LED Full Flip Chip Optional

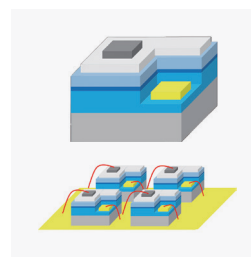
- > Micro LED shorter side < 100µm
- > Flip chip LEDs, no wires anymore
- > Compare to wired LED:
 - Less soldering, improved reliability
 - 7.3x bigger soldering pad, improved reliability
 - No wires to block the light, improved electric-optical efficiency
 - No wires, darker LEDs, improved contrast
 - Less power at same light output, lower power consumption
 - Lower heat, improved reliability



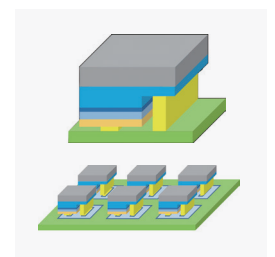
Wired LEDs, the gold/copper wire cosmetics the LED wall color



Flip chip LEDs are super black



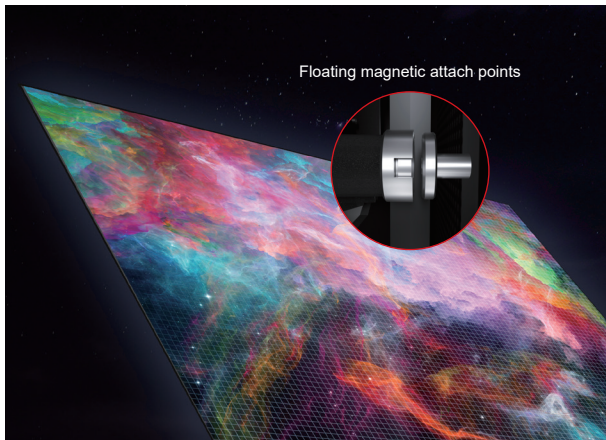
Wired LED



Flip chip

Flat, From Modules to Displays

Experience of fine pixel pitch in decades, the superior performance.



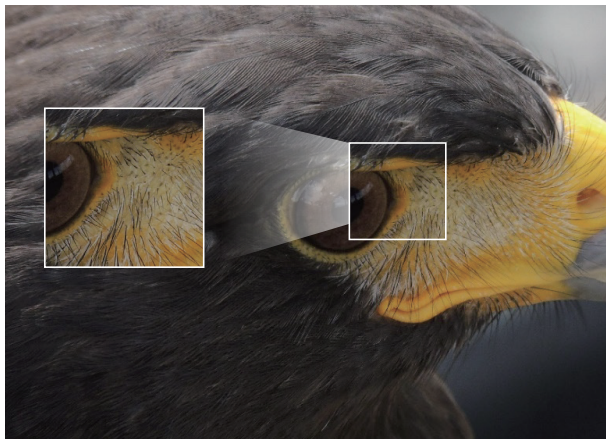
MicroLED High Brightness, High Contrast

MicroLED in 2000nits and 30000:1 contrast ratio.



More Details at Low Brightness

The display is 18 bits to deliver high grayscales at low brightness area.



HDR - High Dynamic Range

HDR content is in 10 bits, new gen MG can deliver a much bigger color volume than SDR LED display



Front Access, Fast Installation

Multiple installation method, front/rear installation and front access.



EXTENSIVE APPLICATIONS

Planar MGM Pro series offers enhanced versatility and performance across its range. It supports both front and rear installations with easy access, catering to diverse environments. This series is ideal for various applications, from retail to high-end event spaces.



For Worldwide Market (Certification)

MGM Pro series will have passed the international and domestic authority of electrical, safety, electromagnetic radiation, environmental protection certificates, including CCC, HDR, CE, CB, cTUVus, FCC, ROHS, REACH, WEEE, etc.



SPECIFICATIONS

Item	MGM Pro0.9	MGM Pro1.2	MGM Pro1.5	MGM Pro1.8	MGM Pro2.5
LED Type	Micro	Micro	SMD	SMD	SMD
Pitch Pitch (mm)	0.9375	1.25	1.5625	1.875	2.5
Module Resolution (WxH)	320x360	240x270	192x216	160x180	120x135
Module Size (WxH, mm)	300x337.5	300x337.5	300x337.5	300x337.5	300x337.5
Module Composition (WxH)	2x1	2x1	2x1	2x1	2x1
Cabinet Resolution (WxH)	640x360	480x270	384x216	320x180	240x135
Cabinet Dimension (mm)	600x337.5x45	600x337.5x45	600x337.5x45	600x337.5x45	600x337.5x45
Weight (kg/cabinet)	4.5	4.5	4.5	4.5	4.5
Full White Brightness (nits)	2100	2100	1000	750	750
Color Temperature (K)	3000~18000				
Horizontal Viewing Angle (°)	175	175	160	160	160
Vertical Viewing Angle (°)	175	175	160	160	160
Contrast Ratio	50000:1	50000:1	8000:1	8000:1	8000:1
Max Power Consumption (W/cabinet)	68	72	85	80	79
Avg. Power Consumption (W/cabinet)	22	23	27	25.5	25
Power Rating	AC100~240V(50/60Hz)				
Frame Rate (Hz)	24~120	50&60			
Refresh Rate (Hz)	680	4800			
Operation Temperature (°C)	-20 ~ 60				
Storage Temperature (°C)	-30 ~ 65				
Operation Humidity (RH)	10 ~ 90% no condensation				
Storage Humidity (RH)	10 ~ 80% no condensation				
Installation	Front/Rear				
Service (modules, PSU, Controller)	Front				

Specifications are subject to change without notice.

Update Date: 12/2025

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