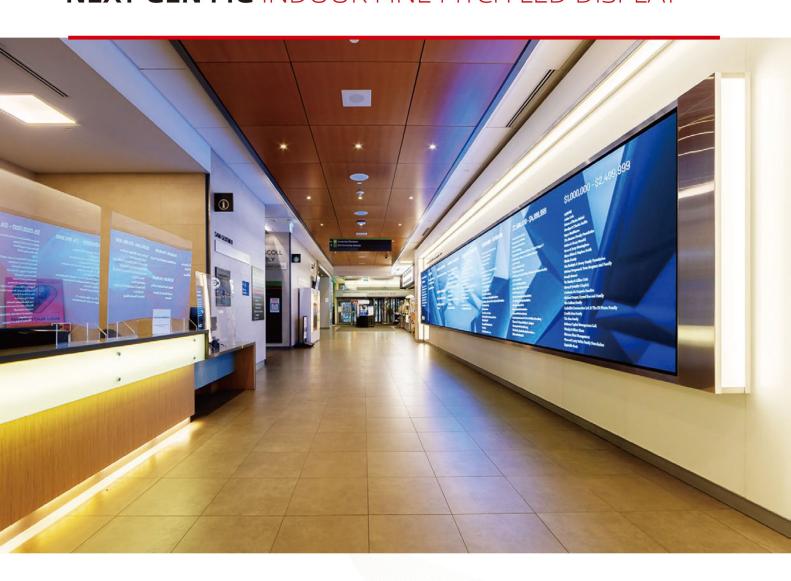


MG-2 Series

NEXT GEN MG INDOOR FINE PITCH LED DISPLAY



DIVERSE UPGRADES FOR ENTRY-LEVEL TO PREMIUM MARKET SEGMENTS

The new generation MG, is the upgrade of the very success model of MG series. It supports the front and rear installation, front access.

The series covers three different position lines: entry level with Top LEDs; mainstream with 4in1 MicroLEDs CC or CA driver IC, and premium with MicroLEDs and high performance driver IC; DCI P3 optional; EMC Class B optional; the GOB optional; and the selectable control system.



KEY FEATURES



Micro LED Full Flip Chip



2000nit High Brightness



EMC Class B



Super Heat Management



Power/Signal Redundancy



Front Access



Diagnostic



6 Axis Adjustment



Low Power Consumption



High Dynamic Range



Wide Viewing Angle



High Refresh Rate

HISTORY MG FAMILY



Next Gen MG Excellence ⋅ Renewed

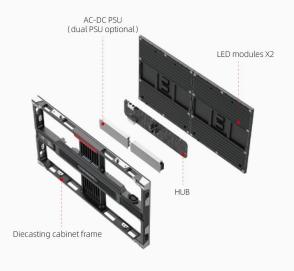
Upgrade

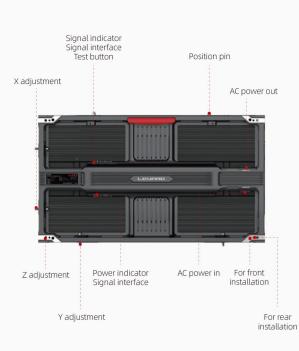
Thinner	From 53mm to 45mm, 8mm less				
Lighter	From 6KG to 4.8KG, 1.2KG less				
Highly Integrated	From 4 modules to 2				
Better Flatness	Module strong bracket, GOB ready				
Smarter	Optional diagnostic feature				
Better Heat Dissipation	Smart design on PSU position to emit the heat				
Uniformity	Better while uniformity				



Scientific and Reasonable Layout Highlighting the Aesthetics of Technology

- > Dual signal redundancy plus loop redundancy;
- > Dual power redundancy;
- > 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







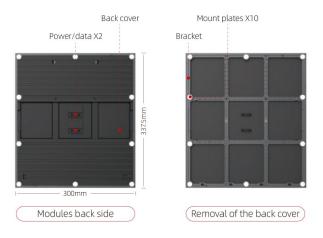




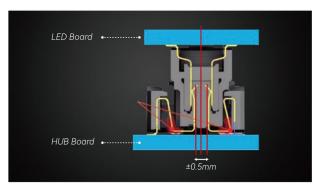


Dual Interface LED Module

Careful designed modules to be GOB ready, much better flatness.



Floating Connectors

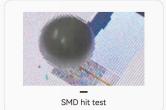


LED - GOB

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











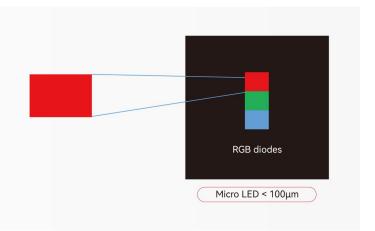






Micro LED Full Flip Chip

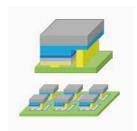
- > Micro LED shorter side < 100μm
- > Flip chip LEDs, no wires anymore
- > Compare to wired LED:
- · Less soldering, improved reliability
- · 7.3x bigger soldering pad, improved reliability
- · No wires to block the light, improved electric-optical efficiency
- \cdot No wires, darker LEDs, improved 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

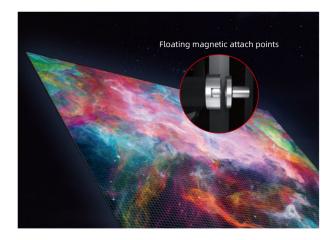
Flip chip LEDs are super black

Wired LED

Flip chip

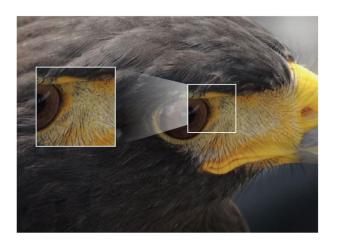
Flat, From Modules to Displays

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



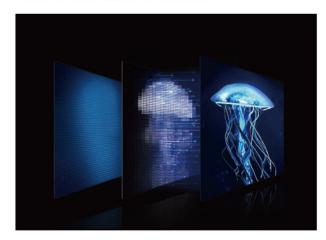
More Details at Low Brightness

The display is 16 bits to deliver high grayscales at low brightness area.



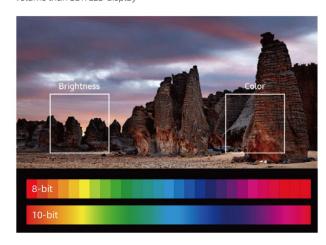
MicroLED High Brightness, High Contrast

MicroLED in 2000nits and 20000:1 contrast ratio.



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.



Comparison MG VS New Gen MG

Item	MG	New Gen MG			
Pixel Pitch	0.78/0.93/1.25/1.56/1.87/2.5/1.05/1.17mm	0.93/1.25/1.56/1.87/2.5mm			
Optical	1. Contrast 5000:1; 2. Brightness 600–800nit	1. Contrast ratio 20000:1; 2. Max brightness 1500-2000(Micro); 3. Color gamut can be DCI-P3 (Micro, optional)			
Three Position Lines		Entry: TOP-LED, CA; Mainstream: 4in1-LED, CA or CC; Premium: Micro LED, CC, Premium driver IC; optional DCI-P3			
Access	Front	Front			
Cabinet Dimension	600x337.5x53mm	600x337.5x45mm, 8mm less			
Weight	6KG	4.8KG, 1.2KG less			
LED Modules	4, no bracket	2, with bracket, GOB ready			
EMC	CLASS A	CLASS A, CLASS B optional			
Heat Management		PSU attached to cabinet frame, better heat management, better uniformity; RX with attached Graphene heat sinker			
Diagnostic	Temperature and PSU only	More to support, temperature, humidity, smoke, and abnormal of PSU, optional			
No Changes	On the mounting plates, power and signal cable	es, package materials.			

EXTENSIVE APPLICATIONS

Leyard MG-2 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 WILL BE READY SOON)

MG-2 series will has 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





tem	MG0093-2	MG0125-2	MG0125-2	MG0125-2	MG0156-2	MG0187-2	MG0250-2		
LED Type	Micro 4in1 LED	SMD-TOP	SMD-Chip	Micro 4in1 LED	SMD-TOP	SMD-TOP	SMD-TOP		
Pitch Pitch (mm)	0.9375	1.25	1.25	1.25	1.5625	1.875	2.5		
Module Resolution (WXH)	320x360	240x270	240x270	240x270	192x216	160x180	120x135		
1odule Size (WxH, mm)	300x337.5	300x337.5	300x337.5	300x337.5	300x337.5	300x337.5	300x337.5		
Module Composition (WXH)	2x1	2x1	2x1	2x1	2x1	2x1	2x1		
Cabinet Resolution (WxH)	640x360	480x270	480x270	480x270	384x216	320x180	240x135		
Cabinet Dimension (mm)	600x337.5x45	600x337.5x45	600x337.5x45	600x337.5x45	600x337.5x45	600x337.5x45	600x337.5x45		
Cabinet Area (m²)	0.2025	0.2025	0.2025	0.2025	0.2025	0.2025	0.2025		
Veight (kg/cabinet; kg/m²)	4.5; 22.2	4.5; 22.2	4.5; 22.2	4.5; 22.2	4.5; 22.2	4.5; 22.2	4.5; 22.2		
Pixel Density (Point/m²)	1137778	640000	640000	640000	409600	284444	160000		
Flatness (mm)	≤0.1	≤0.1	≤0.1	≤0.1	≤0.1	≤0.1	≤0.1		
Brightness Calibration	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Color Cablibration	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Peak Brightness (nits)(after calibration)	2000	1000	800	2000	800	800	900		
ull White Brightness (nits)(After calibration)	1000-1200*	600-800*	600-800*	1200-1500*	600-800*	600-800 *	600-800*		
Color Temperature (K)	3000-10000 Adjustable								
Horizontal Viewing Angle (°)	170	160	160	170	160	160	160		
ertical Viewing Angle (°)	170	140	160	170	140	140	140		
eviation from Color Luminous Center	<3%	<3%	<3%	<3%	<3%	<3%	<3%		
rightness Uniformity	≥98%	≥98%	≥98%	≥97%	≥98%	≥98%	≥98%		
olor Uniformity	±0.003Cx,Cy	±0.003Cx,Cy	±0.003Cx,Cy	±0.003Cx,Cy	±0.003Cx,Cy	±0.003Cx,Cy	±0.003Cx,Cy		
ITSC Color Gamut Coverage	120%*	120% *	120% *	125% *	120%*	120% *	120%*		
ontrast Ratio	20000:1	5000:1	5000:1	20000:1	5000:1	5000:1	5000:1		
1ax Power Consumption (W/cabinet; W/m²)	76; 376	104; 514	117; 578	78; 385	94; 464	86; 425	80; 397		
vg. Power Consumption (W/cabinet; W/m²)	37; 181	32; 158	30; 150	27; 134	27; 135	23; 111	16; 76		
nput Voltage	AC100~240V(50/60Hz)								
eakage Current (single cabinet)	≤3.5mA	≤3.5mA	≤3.5mA	≤3.5mA	≤3.5mA	≤3.5mA	≤3.5mA		
riving Method	Common Cathode PWM CCD	PWM CCD	PWM CCD	PWM CCD	PWM CCD	PWM CCD	PWM CCD		
rame Rate (Hz)	50&60								
tefresh Rate (Hz)	≥3840								
D (100/120Hz)	Optional								
ifetime (hrs)	100,000								
/orking Temperature (°C)	-20∼40								
torage Temperature (°C)				-30 ~ 60					
Vorking Humidity (RH)	10 ∼ 90% no condensation								
itorage Humidity (RH)	10 ~ 80% no condensation								
nstallation	Front/Rear								
ervice (modules, PSU, Controller)	Front								
ertification	ССС								

> White balance 100% brightness (nits) (after correction) value between 600-800nit brightness range;

Note: The above parameters are for reference. The actual conditions prevail.

> NTSC color gamut coverage, because the LED will have wavelength variance, the color gamut has batch difference on mass production output; (-20-0) %;

 $> The peak power consumption \, refers \, to \, the \, power \, consumption \, under \, the \, condition \, of \, 100\% \, brightness \, of \, full \, white;$







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