Leyard MG2 COB Series

COB INDOOR FINE PITCH LED DISPLAY

Quick installation	Ultra-Robust COB Technology	High refresh	High contrast ratio	Wide viewing angle	Ultra Slim

▶ *Available in 0.9, 1.2, 1.5mm pixel pitch*

▶ *Front/rear installation and front access*

▶ *16:9 cabinet in 600x337.5x39.9mm, only 4.3kg weight*

▶ *Highly efficient and reliable Micro LED full flip-chip*

▶ *IP65-rated COB module,*

▶ *Modules without bracket, attached to cabinet frame directly*
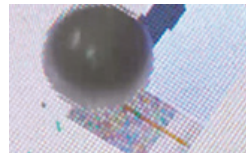
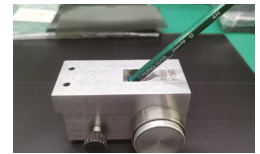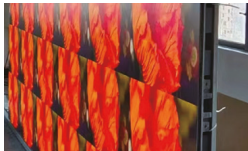▶ *Selectable control system: Nova/Colorlight*

SMD

SMD soldering force = 1kg

SMD hit test

Hardness test

COB

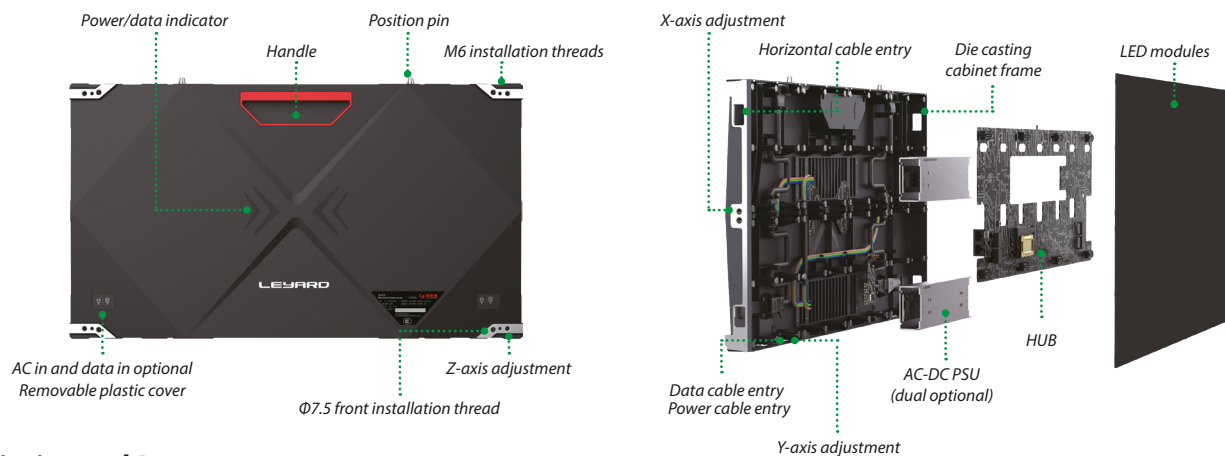*COB soldering force > 10kg*

COB hit test >10kg

Easy to clean

COB vs. SMD

- COB emit the light like a surface light device. There is no moiré effect or pixelization
- COB module is rugged with better LED production
- COB has a much better protection on both dust and water. You can clean it with a wet cloth.

Power/data indicator
Handle
Position pin
M6 installation threads
AC in and data in optional
Removable plastic cover
Z-axis adjustment
Φ7.5 front installation thread

X-axis adjustment
Horizontal cable entry
Die casting cabinet frame
LED modules
HUB
AC-DC PSU (dual optional)
Data cable entry
Power cable entry
Y-axis adjustment

Sophisticated Layout

- Dual signal redundancy plus loop redundancy, dual power redundancy (optional)
- AC input at bottom and output at top, plus 300mm distance between power and data interfaces to reduce the interferences
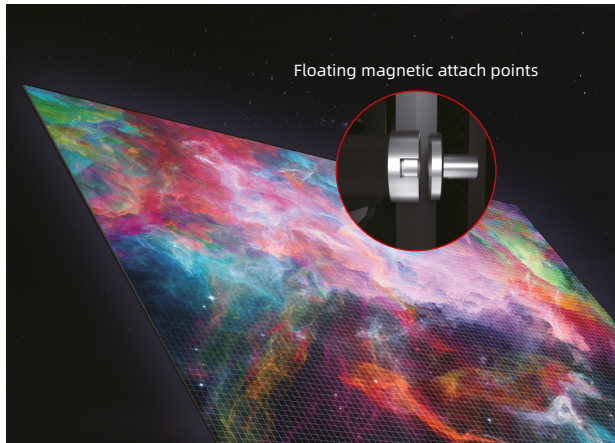- Float connectors between hub and modules for stable connection

Full Flip Chip

Flip chip LEDs are super black
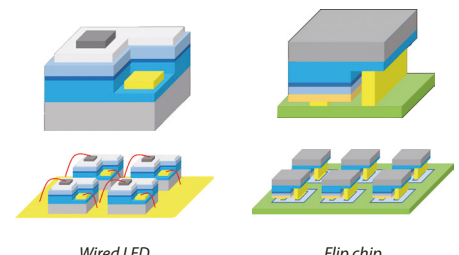
Wired LED

Flip chip

Wired LEDs, the gold/copper wire cosmetics the LED wall colour
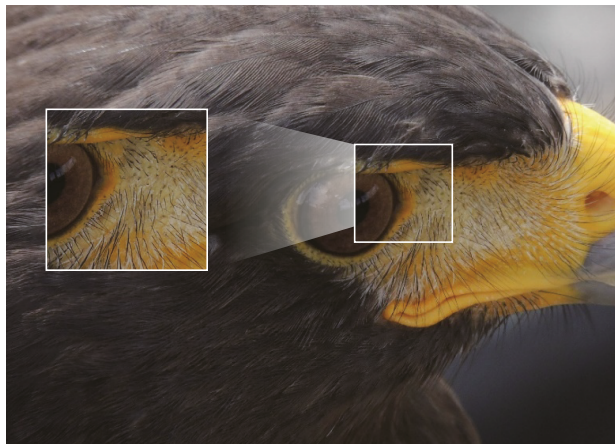
Floating magnetic attach points

Flat, From Modules to Displays

Experience of fine pixel pitch in decades, the superior performance
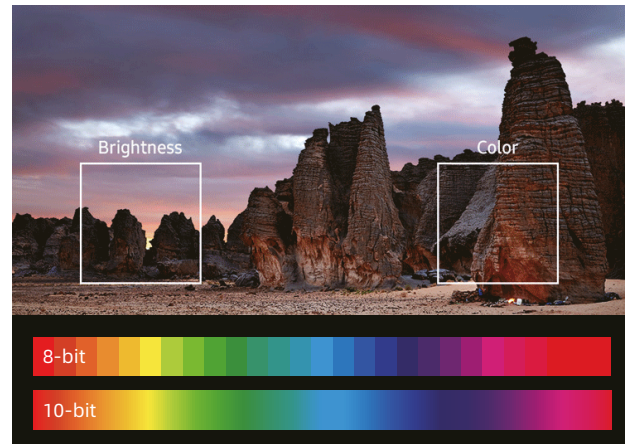

High Contrast

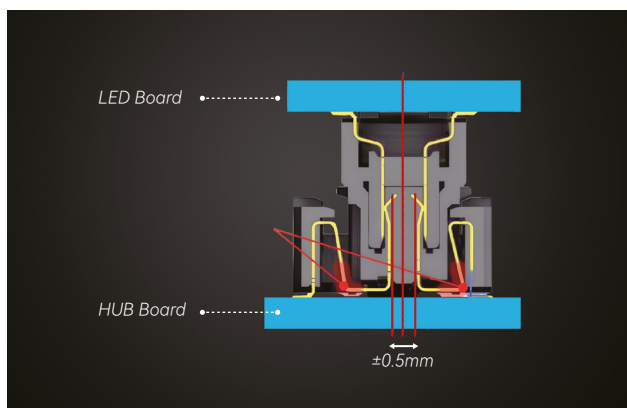Adopting LeadDark tech, the contrast ratio can reach to 25000:1

More Details at Low Brightness

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

Brightness   Color

8-bit

10-bit

HDR - High Dyamic Range

HDR content is in 10 bits, new gen MG can deliver a much larger colour volume than SDR LED displays.

LED Board

HUB Board

±0.5mm

Floating Connectors

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

Diagnostic (optional)

Comprehensive diagnostic tools are optionally available to monitor your system. Possible faults can be recognised and avoided at an early stage.

Specifications

Cabinet Model	MG-2-COB-0.9	MG-2-COB-1.2	MG-2-COB-1.5
Pixel Configuration	Full Flip Chip COB	Full Flip Chip COB	Full Flip Chip COB
Pixel Pitch (mm)	0.93	1.25	1.56
Module Resolution (dots)	160 × 180	120 × 135	192 × 108
Module Size (mm)	150 × 168.75	150 × 168.75	300 × 168.75
Unit Area (m²)	0.2025	0.2025	0.2025
Module Composition (W × H)	4 × 2	4 × 2	2 × 2
Cabinet Resolution (dots)	640 × 360	480 × 270	384 × 216
Pixel Density (Point/m²)	1,137,778	640,000	409,600
Cabinet Dimension (W × H × D)mm	600 × 337.5 × 39.9		
Weight per Cabinet (Kg)	4.3		
Weight per m² (Kg)	21.5		
Brightness Max Calibrated (nit)	700-800*	500-600*	500-600*
Colour Temperature, Adjustable (K)	3000~10000 Adjustable		
Viewing Angle (Horizontal)°	170		
Viewing Angle (Vertical)°	150		
Contrast Ratio	25000:1	25000:1	25000:1
AC Operation Voltage	AC100~240V		
Max. Power Consumption (W/m²)	505	420	395
Avg. Power Consumption (W/m²)	175	125	114
Greyscale (Bits)	16 16 16		
Refresh Rate (Hz)	1600-3840		
Frame Rate (Hz)	50 & 60		
Lifetime (hrs)	100,000		
Installation Access	Rear/Front		
Module Maintenance	Front		
PSU & Others Maintenance	Front		
Operating Temperature (°C)	-10~40		
Storage Temperature (°C)	-20~60		
Operating Humidity (%RH)	10~80% no condensation		
Storage Humidity (%RH)	10~85% no condensation		

*The power consumption tolerance is ±10%