



*Bring Your ideas
Into Reality*

Fine Pitch LED Display

MCOB Series Design

(0.78/0.9/ 1.25/ 1.56)

- Cabinet Material: Die-casting aluminum
- Cabinet Size: 600*337.5 mm

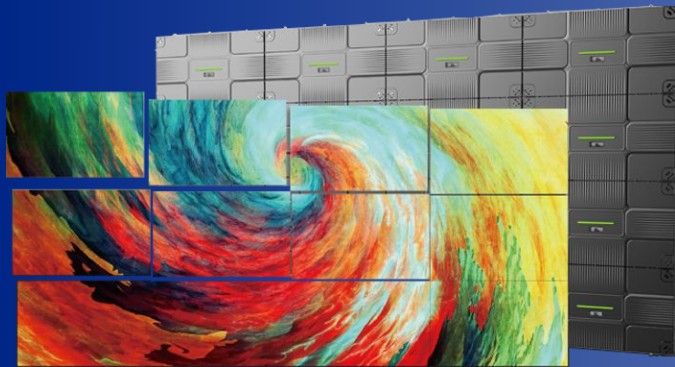
MCOB Series Design

Cabinet Size

600*337.5*30mm

Cabinet Weight

5.1Kg/PCS



Seamless Splicing Support Fine-turned

Floating connecting between module and cabinet, effectively avoid splicing errors. Support fine-turned to make screen seamless splicing, easier to assembly.

INTRODUCTION

- Lightweight
- Tangibility
- Smoothness
- Mixed ways of installation with multiple magnetic openings on backside
- Redundancy system



Ultra Large Viewing Angle

Vertical and horizontal large viewing angle
Enjoy high-quality display at all angles

INSTALLATION GUIDE



Wall surface/
recessed mount



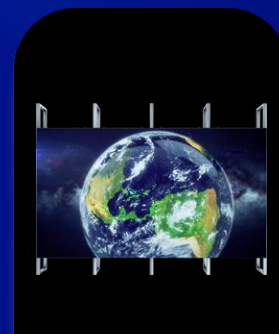
All-in-One
frame mount



Curve-Shaped install



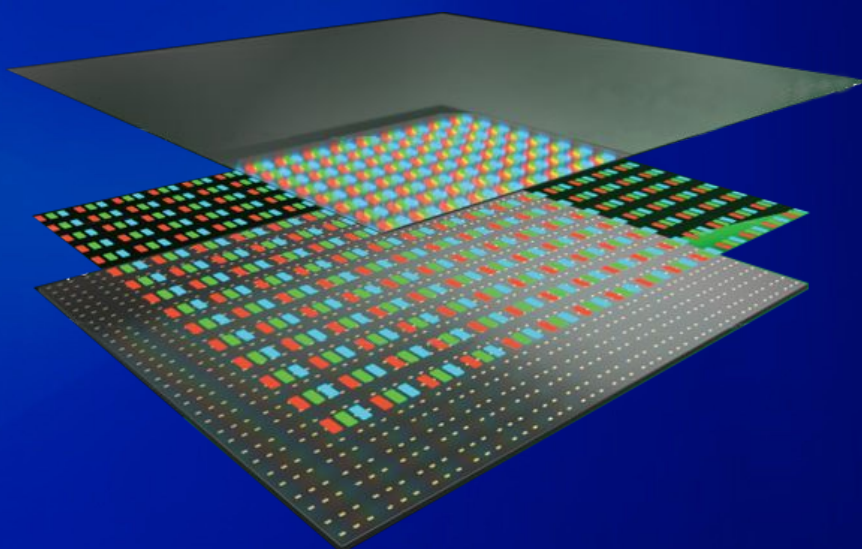
Suspended mount



H-Shaped frame
mount

FLIP CHIP Micro-COB

- Long lifespan
- High IP rating
- Modular design
- Screen surface flatness
- Performance optimization



COB Technology

Waterproof, Dustproof, and Anti Impact

Due to the small spacing of conventional SMD small spacing display screen, the display unit cannot be filled with glue, nor can the mask be installed, and the LED is exposed on the outside, which can not really achieve waterproof, dustproof and anti-collision, and even it is easy to touch the lamp beads during handling

COB integrated packaging technology completely overcomes the difficulties that can not be overcome by small SMD spacing, and truly realizes waterproof, dustproof and anti-collision.



The Difference Between of COB and SMD

After COB packaging, the traditional "surface pasting" process is no longer required. Due to the omission of high-temperature and high-precision process, the problem of "dead lamp" is minimized.

COB Small Spacing

Integrated package, firm and durable.

Dust is easy to clean and can be wiped with a wet rag.

Chip level packaging improves heat dissipation.

It has strong adaptability and can prevent lamp beads from failure due to moisture.

SMD Small Spacing

It is not stable enough, and the lamp beads are easy to slip.

There is a gap between the lamp and the lamp, and the dust accumulation is difficult to clean.

The heat dissipation problem needs to be solved later.

The adaptability is weak and it is difficult to prevent indoor water mist infiltration.

COB package achieves better video optical performance through chip level packaging. The image quality is more comfortable and soft, and there is no significant sense of pixel particles. It is more suitable for closer viewing and longer viewing. The light is softer and not dazzling



Specification

Item	MCOB 0.93	MCOB 1.25	MCOB 1.56	MCOB 1.87
Pixel Pitch (mm)	0.9375	1.25	1.5625	1.875
LED Type	Flip chip COB 1R1G1B Common Cathode	COB 1R1G1B	Flip chip COB 1R1G1B	Flip chip COB 1R1G1B
Unit Combination (W*H)	2*4	2*4	2*4	2*4
Pixel Density (dot/m ²)	1,137,778	640,000	409,600	284,444
Module Size (mm)	150x168.75	150x168.75	150x168.75	150x168.75
Module Resolution (W*H)	640x360	480x270	384x216	80x90
Module Material	Ultra thin, no bottom shell	Ultra thin, no bottom shell	Ultra thin, no bottom shell	Ultra thin, no bottom shell
Cabinet Size (mm)	600x337.5	600x337.5	600x337.5	600x337.5
Cabinet Resolution (W*H)	640x360	480x270	384x216	320x180
Cabinet Material	Die-casting aluminum	Die-casting aluminum	Die-casting aluminum	Die-casting aluminum
Scanning Method	1/60	1/45	1/48	1/30
Cabinet Flatness	≤0.10	≤0.10	≤0.10	≤0.10
Gray Scale	14bit(software 16bit)	14bit(software 16bit)	14bit(software 16bit)	14bit(software 16bit)
Installation Way	Front & Rear	Front & Rear	Front & Rear	Front & Rear
Horizontal View Angle	≥170°	≥170°	≥170°	≥170°
Vertical View Angle	≥170°	≥170°	≥170°	≥170°
Contrast Ratio	≥10000:1	≥10000:1	≥10000:1	≥10000:1
Refresh Rate (Hz)	≥2880	≥3840	≥3840	≥3840
Refresh Frame Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Module Supply Voltage DC	DC2.8V+3.8V	DC4.2V	DC4.2V	DC4.2V
Module Max Current DC	0.5A+1.5A	4.5A	4.5A	4.5A
Input Voltage (V)	110-220V	110-220V	110-220V	110-220V
Max. Power Consumption	≤300W	≤600W	≤600W	≤600W
Avg. Power Consumption	≤100W	≤200W	≤200W	≤200W
Working Temperature (°C)	-20°C~45°C	-20°C~45°C	-20°C~45°C	-20°C~45°C
Working Humidity (RH)	10%~95%	10%~95%	10%~95%	10%~95%
Protection Level		LED Lamp Side IP65, IC Side IP45		
Lifespan (Hrs)	≥100,000	≥100,000	≥100,000	≥100,000