


# COB MAX Series


High brightness COB LED display , 1500nits - 3000nits



 High Resolution


 High Brightness


 16:9 Aspect Ratio

 Energy saving

 Large Viewing Angle

 Chip on Board

 Seamless Connection

 Easy Maintenance

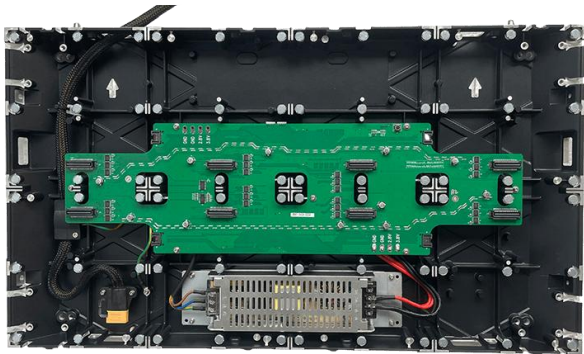


600mm



337.5mm

32mm



## Die-Casting Aluminum Cabinet Design

Full die-casting aluminum material makes the cabinet light, thin and has tactile appeal; The diamond pattern design on the back shell makes it stylish and aesthetic; The gaps on the both sides increase the heat dissipation surface area and can be easily held in the hand for installation and transportation.

- 600mm×337.5mm
- 32mm thickness
- 5kg/panel weight
- P0.7 , P0.9 , P1.25 , P1.56 , P1.875 are available

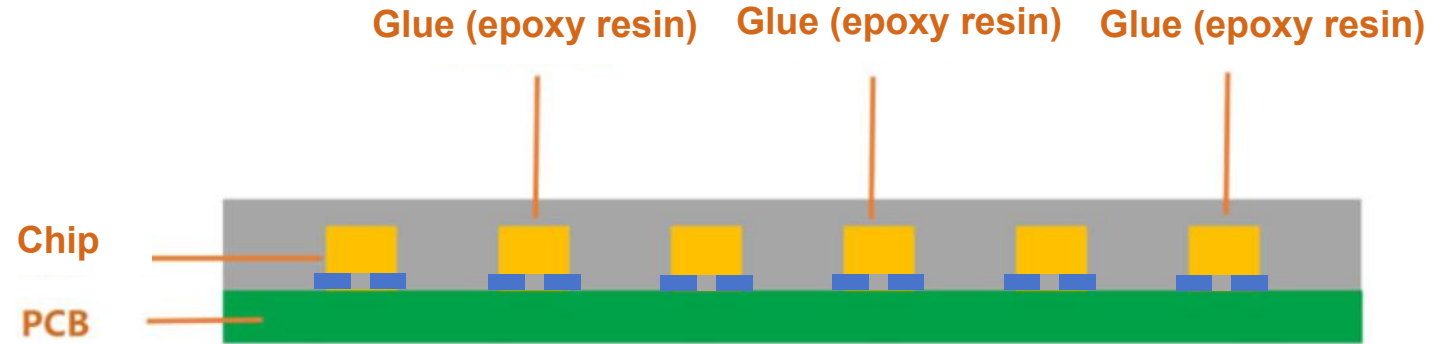
## Up to 3000nits High Brightness

- While standard COB LED displays typically deliver 600-800 nits—ideal for most indoor environments—some specialized indoor settings, such as broadcast studios, high-end retail, and simulation rooms, require ultra-high brightness (1500+ nits) for HDR performance or to counteract intense ambient light.
- To achieve this, COB MAX employ large LED chips, which enhance luminous efficiency and heat dissipation while maintaining COB's signature durability and seamless image quality.

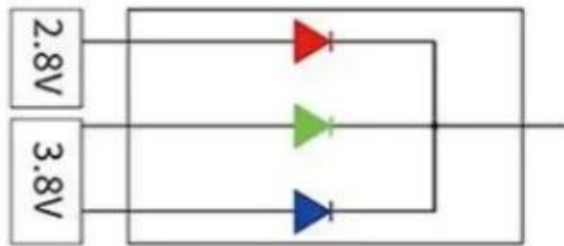
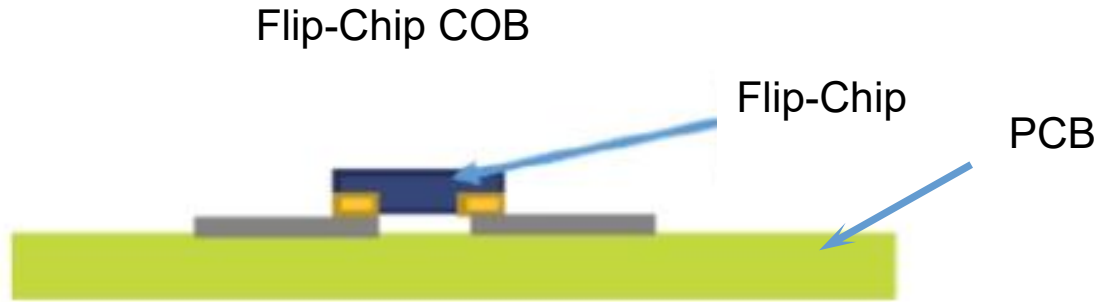


## IP54, Ultra High Stability.

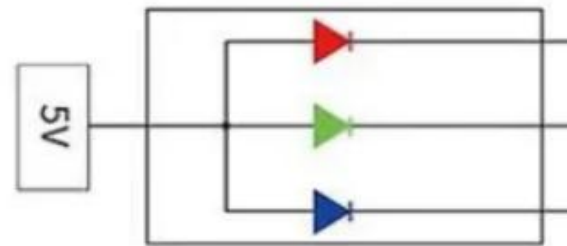
- The COB production process achieves comprehensive sealing of important components such as PCB boards, lamp beads, and solder pins. This makes COB MAX outstanding in moisture-proof, dust-proof, and bump-proof.
- The IP 54, which is high protection of LED screen. High stability reduces accidental damage during transportation and installation, and also makes the product easy to clean.



## Low Energy Consumption



Common Cathode Circuit



Common Anode Circuit

- Using flip-chip technology, compared with conventional COB products, welding wires are saved and intermediate links that generate thermal resistance are reduced. This greatly reduces screen power consumption, and its power consumption can be reduced by 50% compared with conventional chip COB products.
- Adopting common cathode technology to achieve precise power supply for red, green and blue lamp beads respectively, reducing unnecessary energy consumption and saving up to 75% energy.

## Perfect Near-Screen Experience

- Flip chip has unique heat dissipation technology. Under the same brightness, the screen surface temperature is 10°C lower than that of conventional COB products.
- No pixel graininess, switching from “pixel light source” to “area light source”, and good brightness uniformity. Suitable for long-term viewing at close range and less likely to cause visual fatigue.





### **Ultra-high Pixel Density**

P0.7 ,P0.9 are available for customers to choose from. Easily achieve 2k/4K/8K resolution and ultra-high definition. Present more details in the picture and colorful visual effects .

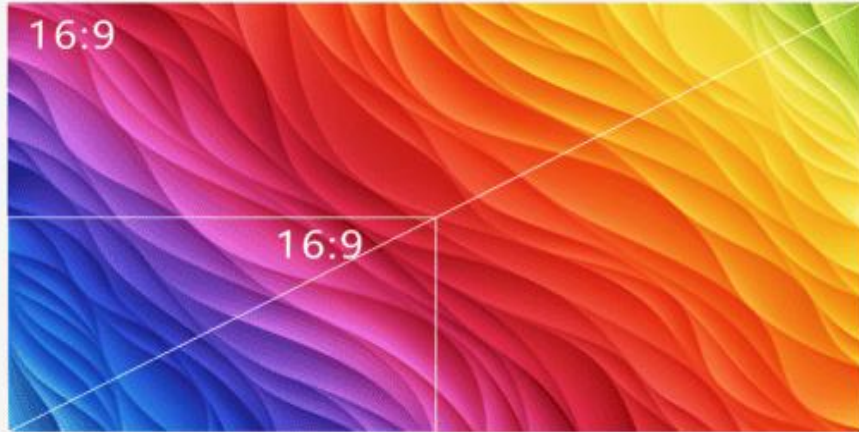
## Wide Viewing Area

Flip-chip technology enables unlimited viewing angles, reaching a viewing angle of nearly 160°. There is no color cast or deformation when viewed from the side, and the color uniformity is good. Suitable for large size screen



160°



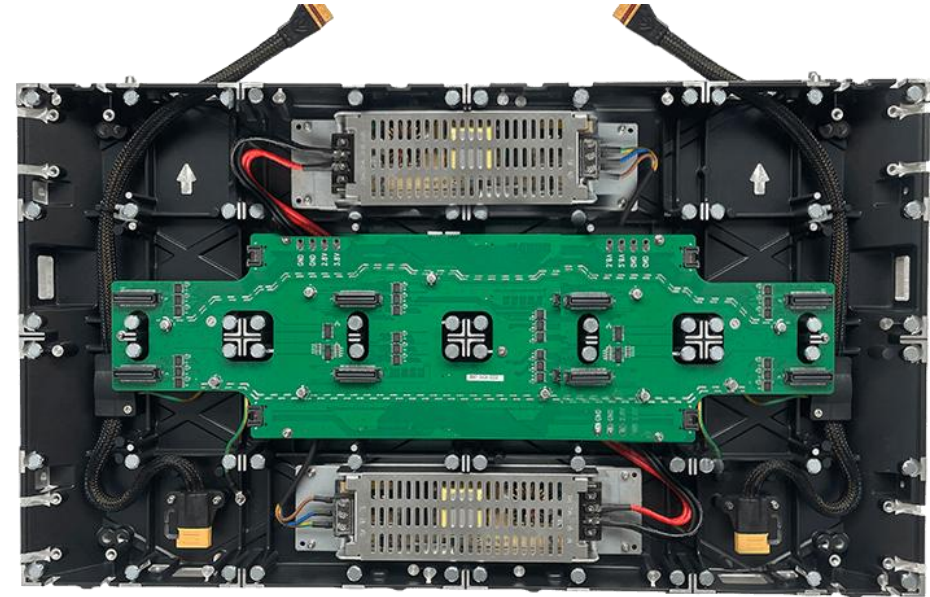


## **16:9 Aspect Ratio**

The golden ratio is 16:9. The box size is 600mm×337.5mm. Bring our customers a comfortable viewing experience.

## Power and Signal Redundancy

COB MAX supports dual backup of power and receiving card. When a problem suddenly occurs, the backup power supply and receiving card can keep the screen working, ensuring that important meetings or activities are not affected.



## Application Fields

- Meeting Room
- TV Studio
- Exhibition Center
- Shopping Mall
- Airport
- Cinema



## COB MAX Parameters

Item	P0.7	P0.9	P1.25	P1.56	P1.875
<b>Pixel Pitch</b>	0.78mm	0.93mm	1.25mm	1.56mm	1.875mm
<b>LED Type</b>	COB	COB	COB	COB	COB
<b>Module Resolution</b>	192dots×216dots	160dots×180dots	120dots×135dots	96dots×108dots	80dotsx 90dots
<b>Driving Mode</b>	1/54scan	1/45scan	1/45scan	1/54scan	1/45scan
<b>Module Pixels</b>	41,472dots	28,800dots	16,200dots	10,368dots	7,200dots
<b>Module Size</b>	150mm×168.75mm	150mm×168.75mm	150mm×168.75mm	150mm×168.75mm	150mm×168.75mm
<b>Cabinet Size</b>	600mm×337.5mm×32mm	600mm×337.5mm×32mm	600mm×337.5mm×32mm	600mm×337.5mm×32mm	600mm×337.5mm×32mm
<b>Cabinet Resolution</b>	768dots×432dots	640dots×360dots	480dots×270dots	384dots x 216dots	320dots x 180dots
<b>Pixel Density</b>	1,638,400dots/m <sup>2</sup>	1,137,778dots/m <sup>2</sup>	640,000dots/m <sup>2</sup>	410,913dots/m <sup>2</sup>	284444dots/m <sup>2</sup>
<b>Minimum Viewing Distance</b>	≥0.7mm	≥0.9mm	≥1.25mm	≥1.56m	≥1.875m
<b>Brightness</b>	1500nits~3000nits	1500nits~3000nits	1500nits~3000nits	1500nits~3000nits	1500nits~3000nits
<b>IP Grade</b>	IP54	IP54	IP54	IP54	IP54
<b>Refresh Rate</b>	3840Hz ~7680Hz	3840Hz ~7680Hz	3840Hz ~7680Hz	3840Hz~7680Hz	3840Hz~7680Hz
<b>Gray Scale</b>	14bits~22bits	14bits~22bits	14bits~22bits	14bits~22bits	14bits~22bits
<b>Viewing Angle</b>	H:160° / V:160°	H:160° / V:160°	H:160° / V:160°	H:160° / V:160°	H:160° / V:160°
<b>Maximum Power Consumption</b>	420W/m <sup>2</sup>	320W/m <sup>2</sup>	310W/m <sup>2</sup>	350W/m <sup>2</sup>	310W/m <sup>2</sup>
<b>Average Power Consumption</b>	210W/m <sup>2</sup>	150W/m <sup>2</sup>	150W/m <sup>2</sup>	170W/m <sup>2</sup>	150W/m <sup>2</sup>
<b>Input Voltage</b>	AC100V~AC240V @ 50Hz / 60Hz	AC100V~AC240V @ 50Hz / 60Hz	AC100V~AC240V @ 50Hz / 60Hz	AC100V~AC240V @ 50Hz / 60Hz	AC110V~AC220V @ 50Hz / 60Hz
<b>Operating Temperature</b>	- 20℃~60℃	- 20℃~60℃	- 20℃~60℃	- 20℃~60℃	- 20℃~60℃
<b>Operating Humidity</b>	10%~90%	10%~90%	10%~90%	10%~90%	10%~90%
<b>Cabinet Material</b>	Die-casting Aluminum	Die-casting Aluminum	Die-casting Aluminum	Die-casting Aluminum	Die-casting Aluminum
<b>Cabinet Weight</b>	5kg/panel	5kg/panel	5kg/panel	5kg/panel	5kg/panel
<b>Operating System</b>	Windows (Win7, Win8, etc.)	Windows (Win7, Win8, etc.)	Windows (Win7, Win8, etc.)	Windows (Win7, Win8, etc.)	Windows (Win7, Win8, etc.)
<b>Signal Source Compatibility</b>	DVI, HDMI1.3, DP1.2, SDI, HDMI2.0, etc.	DVI, HDMI1.3, DP1.2, SDI, HDMI2.0, etc.	DVI, HDMI1.3, DP1.2, SDI, HDMI2.0, etc.	DVI, HDMI1.3, DP1.2, SDI, HDMI2.0, etc.	DVI, HDMI1.3, DP1.2, SDI, HDMI2.0, etc.