COB-Ultra Series

Innovative COB LED Display - P0.78 P0.93 P1.25 P1.56



- IP54
- 16:9 Aspect Ratio
- Seamless Connection
- 3840Hz-7680Hz
- Large Viewing Angle
- Die-Casting Aluminum
- Easy Front Maintenance
- Common Cathode

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Slim and Lightweight Design

COB Ultra series adopt die-casting aluminum cabinet , designed to be 4.4kg/panel, its humanized design offers higher strength, lightweight construction and precision. The extinguishing screen mirror black and bright, comparable to the appearance of the LCD screen.



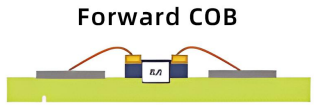
- 600(w)mm x 337.5(h)mm
- 39.5mm thickness
- 4.4kgs weight

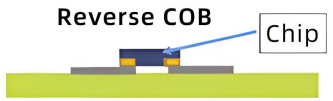
The pixel pitch P0.78, P0.93, P1.25, P1.56 are available.

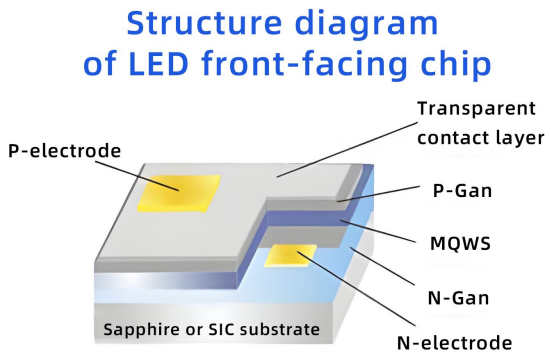
RGB Full Flip Chip Technology

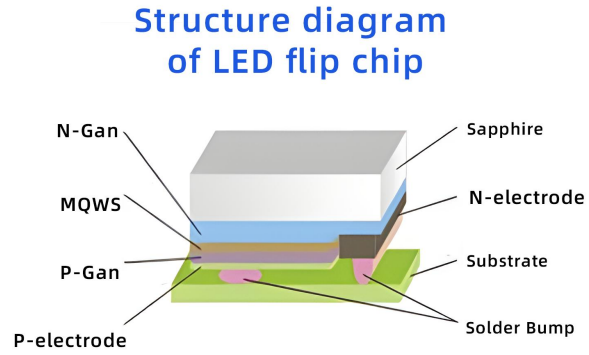
Our COB Ultra uses advanced flip COB technology.

- Flip COB structure is simpler, has simplified manufacturing process, no gold wire and better heat dissipation.
- Higher protection, reliability and RGB light mixing effect.
- Chip level micro-spacing, ultra high-definition display and light source is not dazzling.

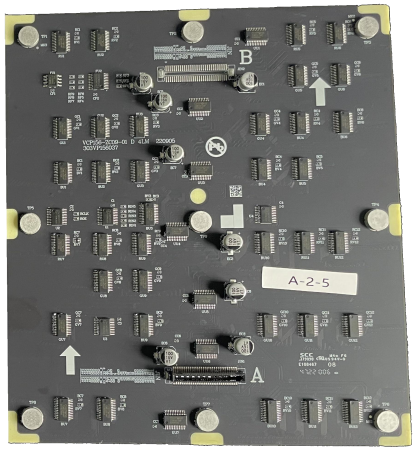












Fully Front Access Magnetic Design & Easy Maintenance

The module of cabinet are installed and removed fully from the front, which can realize the full front maintenance of the cabinet.The upper, lower, left and right connection of the cabinet is locked and leveled by the connecting piece, and easy to install.

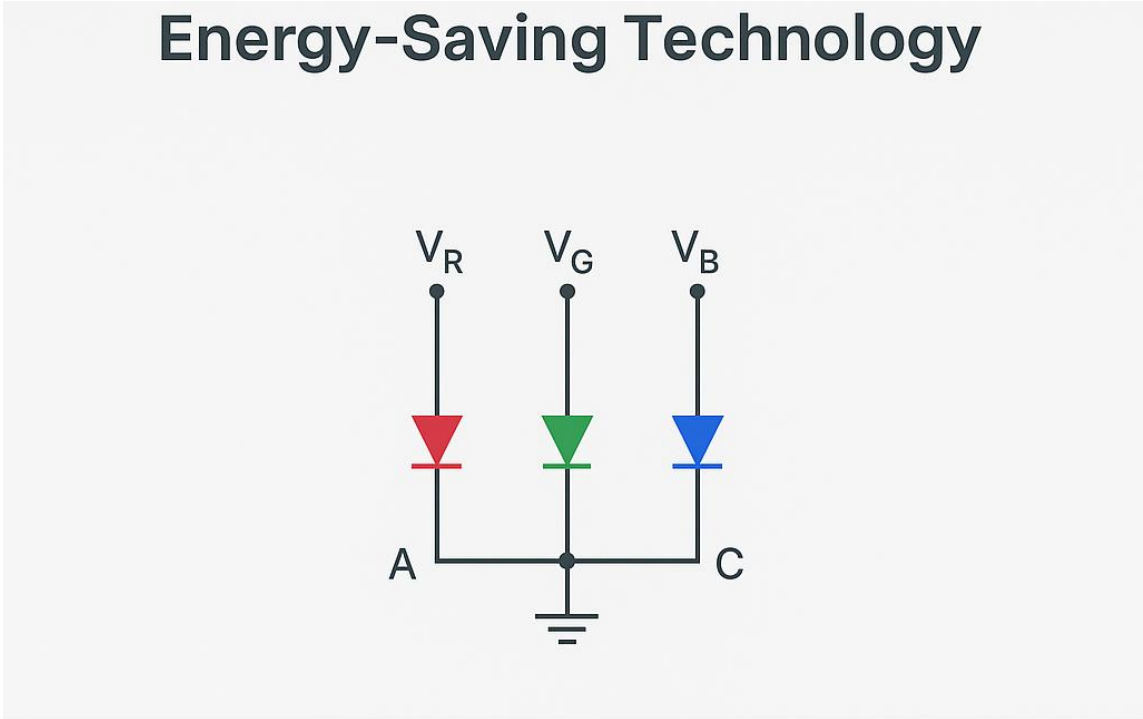


Common Cathode Energy-Saving Technology

Common cathode technology allows independent voltage supply to the red, green, and blue LEDs. This enables precise current control and reduces unnecessary power loss, resulting in up to **30% lower energy consumption** compared to traditional common anode designs. It also helps reduce heat generation, extending the screen's lifespan and improving stability.

Max power consumption

- P0.9: ≤ 275W/㎡
- P1.25: ≤ 245W/㎡
- P1.56: ≤ 205W/㎡

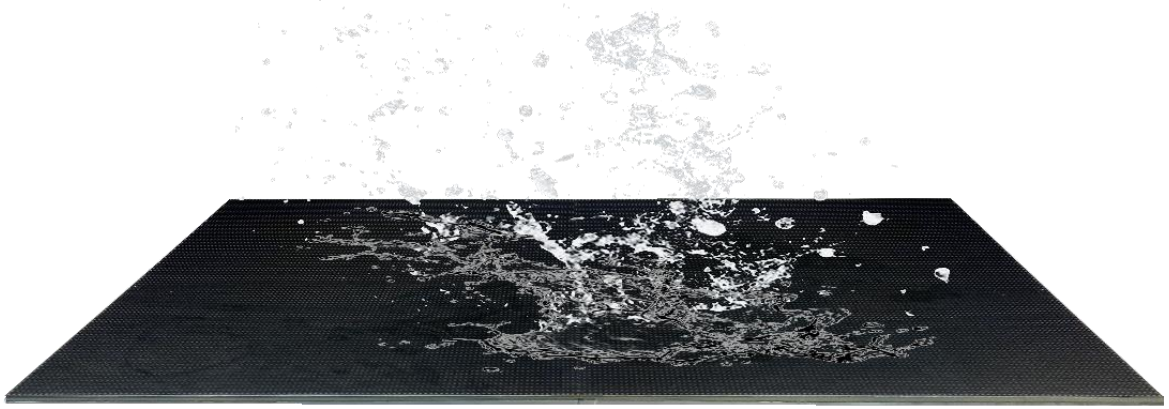


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Strong Module with IP54

Compared with ordinary indoor LED products, we adopt IP54 high protection level.

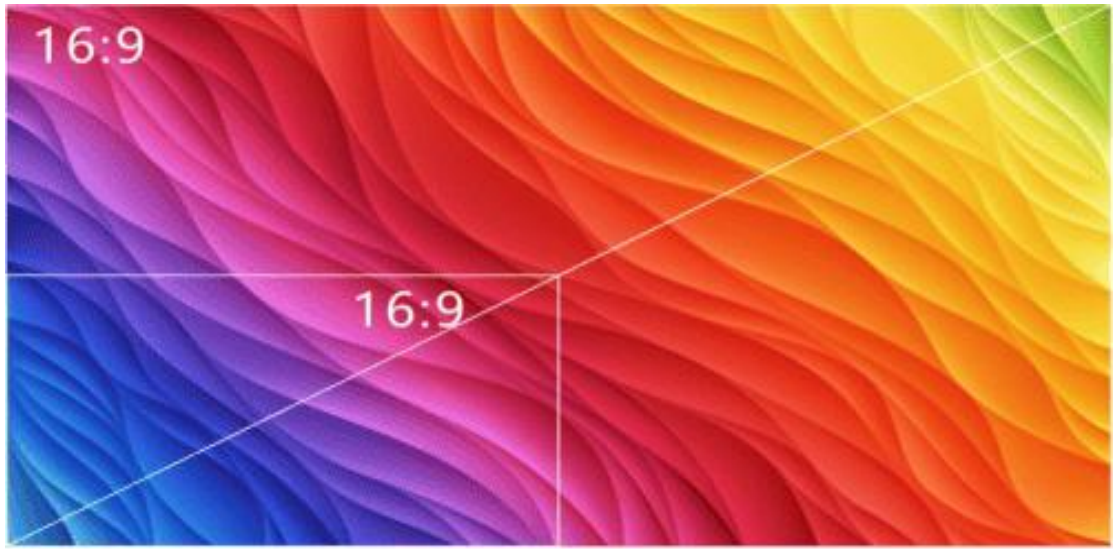
- Allow the water clean on surface
- Have higher anti-knock, waterproof, anti-static, scrubbing



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Exquisite Cabinet Design

COB encapsulated micro-pitch LED display adopts 16:9 golden ratio cabinet size design, accurately matching the standard resolution of 2K/4K/8K. The screen image's quality is better, higher definition, more delicate, and has better visual effects.

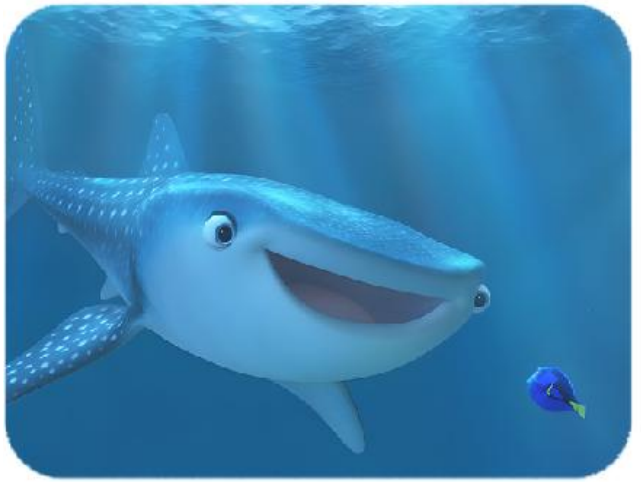


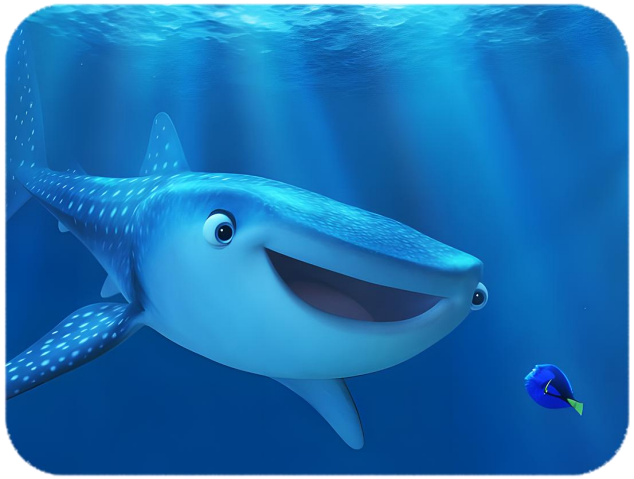


High Contrast

The color contrast ratio of 20,000:1.

The high contrast ratio improves readability for text, graphics, and video content. COB Ultra enables true blacks by eliminating gaps between pixels, creating more immersive viewing experiences. Suitable for control rooms, broadcasting, and high-end commercial applications where image clarity is critical. COB Ultra maintains consistent contrast across wide viewing angles without color shift.





Larger Viewing Angle

More than 160 degrees of ultra-wide viewing angle allow more viewers to fully immerse themselves in its captivating visual display. Regardless of the angle from which it is viewed, one can experience its breathtaking visual effects.



Extraordinary Visual Effects

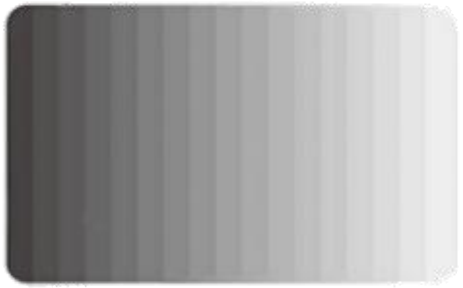
Thanks to the high refresh rate (3840-7680Hz) and grey scale (up to13-22bits), COB Ultra series delivers exceptional visual performance. The image is more stable and the clearer, bring us amazing visual effects. In addition, the light from our COB LED looks softer to our eyes.



Low Refresh Rate



High Refresh Rate



Low Grayscale



High Grayscale

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Seamless Display, Easy Mobility

Precision die-cast aluminum cabinets with internal locks create a seamless, bezel-free display.
Concealed power and signal cables keep the setup neat and organized.
The mobile floor stand allows easy movement and flexible positioning to suit different spaces and presentation needs.



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Application Fields

The high-precision screen is perfect for various installation environments, and it has gained customer praise for its reliable performance and high-quality image effects.

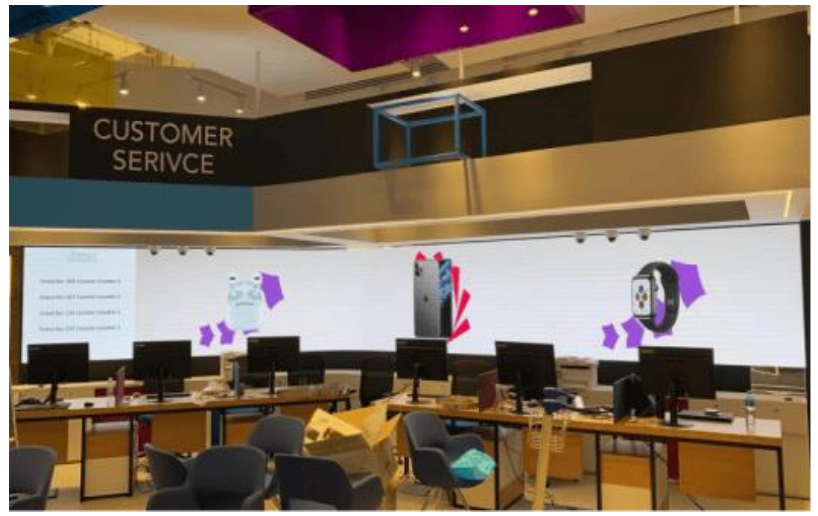
Its application fields are as follows:

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









Item	P0.78	P0.93	P1.25	P1.56
Pixel Pitch	0.78mm	0.93mm	1.25mm	1.56mm
LED Type	Flip COB	Flip COB	Flip COB	Flip COB
Module Resolution	192dots×216dots	160dots×180dots	120dots x 135dots	96dots x 108dots
Driving Mode	1/96 scan	1/40 scan	1/60 scan	1/48 scan
Module Pixels	41472dots	28800dots	16200dots	10368dots
Module Size	150×168.75mm	150×168.75mm	150 x 168.75mm	150 x 168.75mm
Cabinet Size	600*337.5*27mm	600*337.5*27mm	600*337.5*27mm	600*337.5*27mm
Cabinet Resolution	768dotsx 432dots	640dotsx 360dots	480dots x 270dots	384dotsx 216dots
Pixel Density	1638400dots/㎡	1137777dots/㎡	640000dots/㎡	409600dots/㎡
Minimum Viewing Distance	0.78 m	0.93 m	1.25 m	1.56m
Brightness	600-1000nits	600-1000nits	600-1000nits	600-1000nits
IP Grade	IP54	IP54	IP54	IP54
Refresh Rate	3840~7680Hz	3840~7680Hz	3840~7680Hz	3840~7680Hz
Gray Scale	13~22bits	13~22bits	13~22bits	13~22bits
Viewing Angle	H:160° / V:160°	H:160° / V:160°	H:160° / V:160°	H:160° / V:160°
Maximum Power Consumption	275W/m²	275W/m²	245W/m²	205W/m²
Average Power Consumption	110W/m²	110W/m²	110W/m²	110W/m²
Screen Lifespan	≥100,000 hours	≥100,000 hours	≥100,000 hours	≥100,000 hours
Input Voltage	AC100V - AC240V @ 50Hz/60Hz	AC100V - AC240V @ 50Hz/60Hz	AC100V - AC240V @ 50Hz/60Hz	AC100V - AC240V @ 50Hz/60Hz
Operating Temperature	- 20℃ ~ 40℃	- 20℃ ~ 40℃	- 20℃ ~ 40℃	- 20℃ ~ 40℃
Operating Humidity	10% ~ 85%	10% ~ 85%	10% ~ 85%	10% ~ 85%
Cabinet Material	Die-casting Aluminum	Die-casting Aluminum	Die-casting Aluminum	Die-casting Aluminum
Cabinet Weight	4.4kg/panel	4.4kg/panel	4.4kg/panel	4.4kg/panel
Operating System	Windows (Win10, Win8, etc.)	Windows (Win10, Win8, etc.)	Windows (Win10, Win8, etc.)	Windows (Win10, Win8, etc.)
Signal Source Compatibility	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.