LED COB Indoor Display

WL21-COB Series

INTRODUCTION

COB LED display, high-contrast visuals. This durable and reliable screen excels in diverse settings, including digital signage, broadcasting studios, control rooms, corporate lobbies, and educational facilities. It provides an exceptional viewing experience with enhanced brightness and color accuracy, making it ideal for environments where superior image quality is crucial. Embrace a display that offers both longevity and unparalleled clarity in a wide range of professional applications.



FEATURES

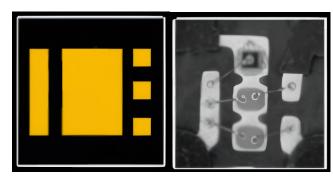
- Super Contrast Experience: vivid content and intense contrast
- Micro LED technology embeds micron-sized LED into modules to form a tile-like structure
- · This exceptional brightness ensures clear, vivid images even in bright conditions
- Higher reliability and durability: full flip-chip process
- Improve thermal management capabilities. The LED chip adopts a flip-chip structure, thereby reducing heat generation by about 30%. The screening rate of the structure is low.
- Improved light efficiency and brightness: Full flip-chip process, this improvement directly enhances the overall brightness and color consistency of the display.

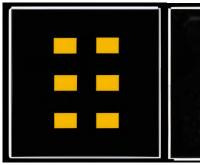
WL21-COB Series



Easier To Achieve Micro-Pitch

The Full Flip Chip process reduces the area occupied by the pixel points by up to 40% compared with the front-mounted process, so that more pixels can be accommodated under the same size, thereby achieving a smaller pixel pitch.







Highly Integrated Design

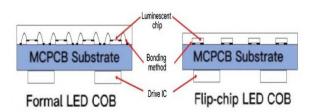
The highly integrated world makes troubleshooting very simple. Finding the corresponding faulty component and replacing it can make the screen look brand new.





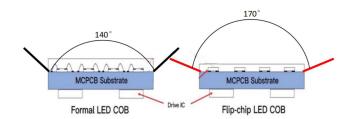
Higher Reliability And Durability

The Full Flip Chip Process not only reduces the number of solder pins by flipping the LED chip directly onto the substrate, but also reduces the electrical and thermal connection problems caused by the pins. This structure improves the mechanical and thermal stability of the entire assembly, thereby enhancing the reliability and durability of the LED display.



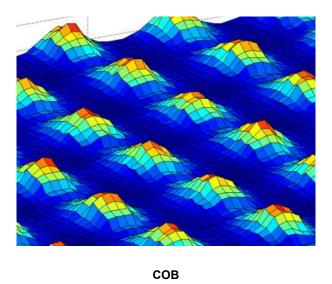
Improve Light Efficiency And Brightness

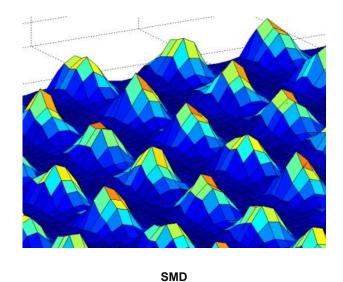
The Full Flip Chip process makes the light output surface of the LED chip unobstructed by traditional solder joints, and the effective viewing angle is increased from 140° of the front-mounted structure to 170° of the flip-chip structure. This improvement directly enhances the overall brightness and color consistency of the display.



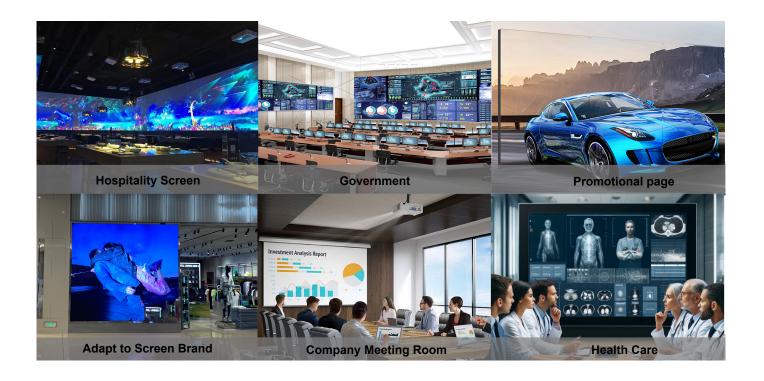
Healthy Soft Light

COB is filled with polymer materials, which reduces the separation of pixels, reduces the flashness of the picture, and the overall screen glows softly without glare, reducing the glare and tingling caused by long-term viewing.





WILIANG



SPECIFICATIONS

| Product Name | WL21- COB-P0.6 | WL21- COB-P0.7 | WL21- COB-P0.9 | WL21- COB-P1.2 | WL21- COB-P1.5 | WL21- COB-P1.8 |
|-------------------------------|--------------------------|-----------------------|-----------------------|----------------------|----------------------|----------------------|
| Pixel Pitch | 0.625mm | 0.78125mm | 0.9375mm | 1.25mm | 1.5625mm | 1.875mm |
| Panel Material | Die Casting Aluminum | | | | | |
| Brightness | 600Nit | | | | | |
| Pixel Density | 2560000 Pixel /Sqm | 1638400 Pixel /Sqm | 1137777 Pixel /Sqm | 640000 Pixel /Sqm | 409600 Pixel /Sqm | 284444 Pixel /Sqm |
| Module Size | 150mm(W)x168.75mm(H) | | | | | |
| Panel Size | 600mm(W)x337.5mm(H) | | | | | |
| Module Resolution | 240(W)x270(H) | 192(W)x216(H) | 160(W)x180(H) | 120(W)x135(H) | 96(W)x108(H) | 80(W)x90(H) |
| Panel Resolution | 960(W)x540(H) | 768(W)x432(H) | 640(W)x360(H) | 480(W)x270(H) | 384(W)x216(H) | 320(W)x180(H) |
| Weight Per Panel | 6.4KG | 4.6KG | 5.1KG | 5KG | 5KG | 5KG |
| Horizontal Viewing Angle | 170° | | | | | |
| Vertical Viewing Angle | 160° | | | | | |
| Best View Distance | 0.8m~3m | 1m~3m | 1m~3m | 1.5m~3m | 1.8m~3m | 2m~3.5m |
| Power Consumption | 155W /Sqm | 145W /Sqm | 125W /Sqm | 108W /Sqm | 108W /Sqm | 108W /Sqm |
| Max Power Consumption | 460W /Sqm | 435W /sqm | 370W /sqm | 330W /sqm | 330W /sqm | 330W /sqm |
| Refresh Rate | 3840Hz | | | | | |
| Software Manual Adjustment | 100 Levels Adjustable | | | | | |
| Lifespan | 100000 hours | | | | | |

