HIGH QUALITY

ST Pro-COB series

The high-end 16:9 LED video wall

- Anti-collision,
- High stability,
- High contrast

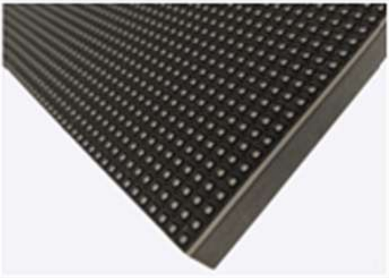
Anti-collission	Large viewing angle	Dual-Backup	16:9 ratio	2K/4K/8K	High contrast ratio

Flip chip COB technology, High stability

- IP54 Waterproof
- Dust Proof
- Anti-oil Stain
- Anticollision
- Antistatic
- Antioxidation

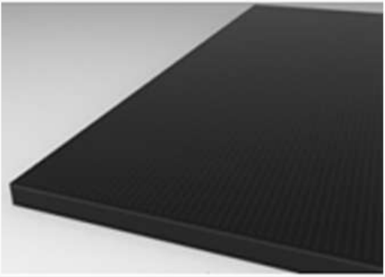
SMD

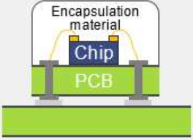
Surface mount device



COB

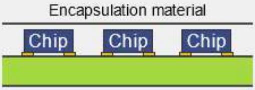
Chip On Board





SMD Packaging Technology

- × Low moisture level
- × Easy to knock and fall
- × Micro-LED bottleneck
- × Heat dissipation bottleneck
- × Reliability Bottleneck
- × Light efficiency bottleneck



Full Flip COB Packaging Technology

- ✓ High moisture level
- ✓ High protection level
- ✓ Micro-LED bottleneck
- ✓ Low heat resistance, good heat dissipation
- ✓ No lead, high reliability
- ✓ Inverted structure improves luminosity

- Radio gamut range of **115%** NTSC, **281 trillion** colors, more detailed and rich colors, softer image display, enhance visual experience
- Secondary optical diffusion with **matt coating effectively** reduces light intensity radiation and pressure on the viewer's retina

COB aging picture

SMD aging picture

EXTRA WIDE VIEWING

The areal packaging technology makes the LED module glow evenly, and the horizontal and vertical viewing angles are **170 °/170 °** without color bias, effectively eliminating moire

COB LED Display

(Wide viewing angle Complete picture Unbiased)

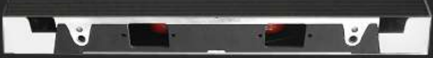
SMD LED Display

(Small View Angle Picture distortion Bias)

Good heat dissipation and energy saving

- Direct and PCB board circuit connection, the shortest heat conduction path, the smallest heat resistance value, better heat dissipation than SMD discrete devices;
- With the design of Common cathode , less heat and more energy-saving.

Heat dissipation



Energy saving

16:9 Golden Ratio,Easy realize 2K,4K,8K

Panel size with16:9 Golden ratio (27")combined with fine pixel pitch allow the setup of 2K,4K,8K resolution display achievable,perfectly match mainstream video sources and enable to substitute any existing LCD Screen

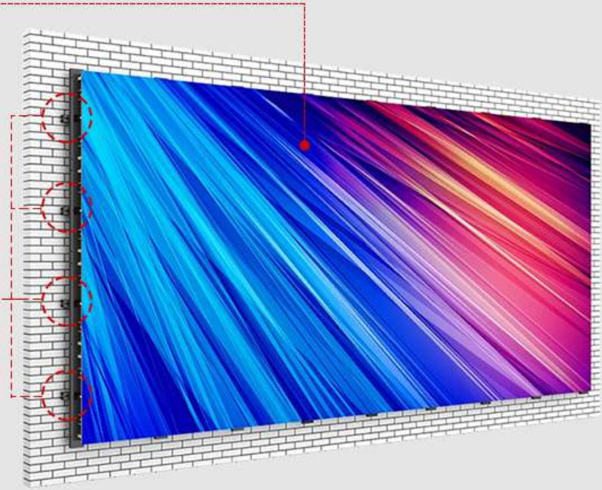
16:9 **2K** **4K** **8K**

8K (7680x4320p)
4K (3840x2160p)
2K (3840X2160p)

FRONT INSTALLATION AND MAINTENANCE

- **Front maintenance design:** Modules, power supply, received card can be maintained from the front without rear space.

- **Front install design:**support direct wall mounted with simple steel bars



Front maintenance design: Modules, power supply, received card can be maintained from the front without rear space.

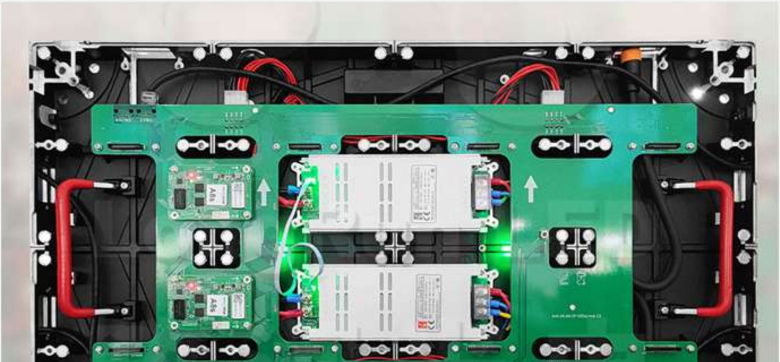
Front install design:support direct wall mounted with simple steel bars

SUPPORTS DUAL BACKUP OF NETWORK CABLES

- Dual backup of input network cables, backup network cables to maintain signal transmission when one network cable fails.

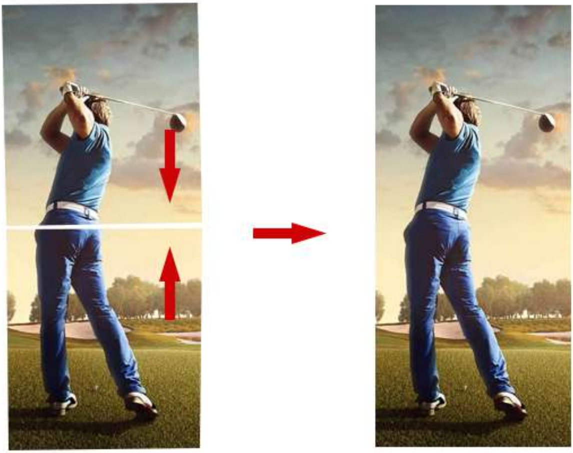
STABILITY AND SECURITY

- **Dual power dual card backup design**, as long as one stops working and the other starts automatically. At the same time, the system will receive errors and display the exact error location.
- **Highly integrated design and high quality plug-ins** can reduce the occurrence of **80%** problems and greatly improve product stability.



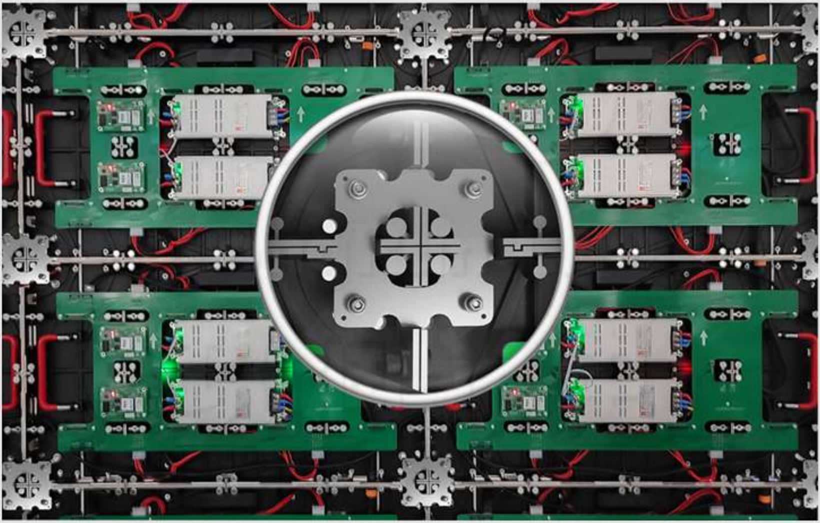
USER FRIENDLY DESIGN

- A floating connector is used between the module and the box, make the installation become simple and easy;
- Module can be fine-tuned for more flat stitching;
- Anti-dementia interface to avoid incorrect installation;

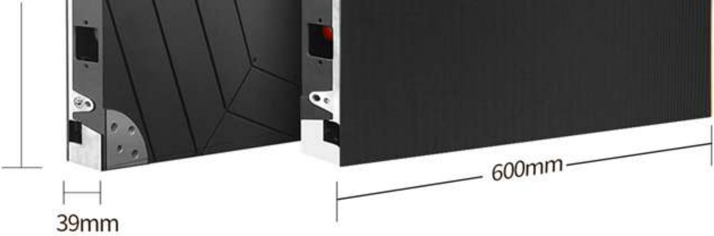


PATENTED CONNECTOR,SIMPLE INSTALLATION

Patented design connector is adopted for cabinet installatio,
simple and easy installation



Product Parameters



Box size: 600*337.5*39mm (27 inches)

Parameter	P0.93Common Cathode	P1.25	P1.56	P1.87
LED Lamp	Flip COB technology			
Brightness(cd/m^2)	500~800	500~800	500~800	500~800
Refresh rate (Hz)	≥2880Hz	≥3840Hz		
Panel size（mm)	600*337.5*39	600*337.5*39	600*337.5*39	600*337.5*39
Viewing distance（M)	1m-100m			
Max/Ave (W/m^2)	Max power consumption:300W/m^2, Ave power consumption :100W/m^2			
IP grade	IP54			
Contrast ratio	Contrast ratio:10000:1			
Grayscale (bit)	16bit			
Frame frequenc (Hz)	50/60Hz			
Viewing angle (Deg)	Horizontal≥170° ,Vertical≥170°			
Install/Maintenance way	Maintenance way: Front maintenance; Install way: Front or rear install			
Work environment	Temperature -20℃~+80℃, Humidity 10%RH~95%RH			
Lifespan/MTBF (H)	Lifespan≥100000,MTBF ≥50000			

Success Cases

Broadcast, TV Studio, Airport, Exhibition, Conference, Military Monitor, Star Hotel, Metro Station,luxury store, 4S car, Festivalparty, Church, Resturant, School, Museum, Bank, Club, Supermarket, Commercial Central, Monitor Centre etc

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