

LED DISPLAY

PRODUCT SPECIFICATION



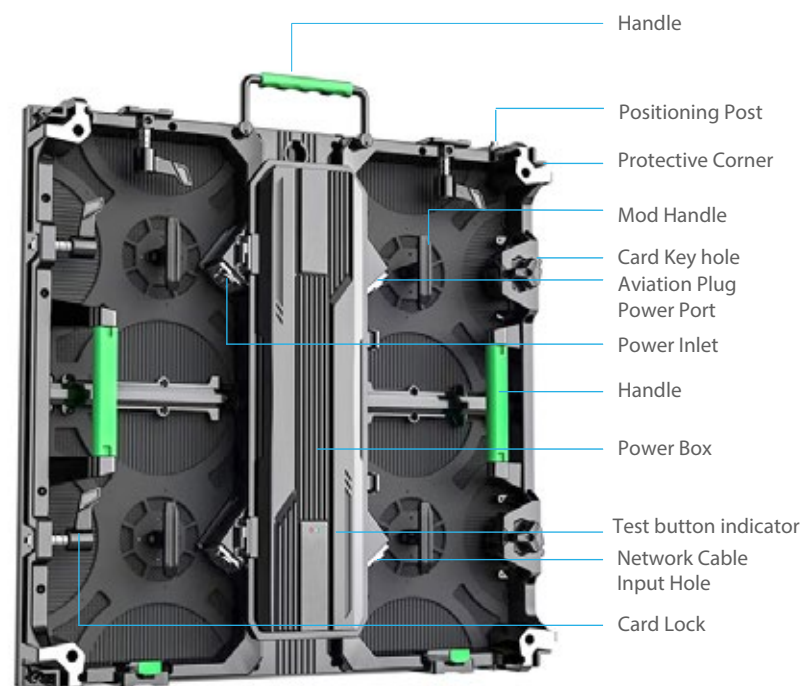
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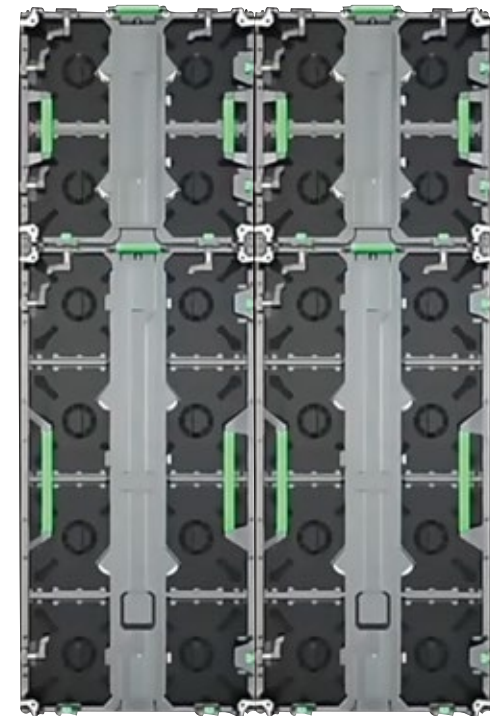
Product Information

- Cabinet size : 500×500×73/500×1000×73mm
- Module size: 250×250×15mm
- Weight:7.5kg / 12.4kg
- Indoor (mm): P2.6 / P2.9 / P3.9
- Outdoor (mm): P2.9 / P3.9 / P4.8
- Maintenance Method: Rear maintenance
- Material: Die-cast aluminum
- Usage: Indoor / Outdoor



Curved Lock System

- Unique curved connection design.
- Support concave and convex connection.
- Each module is modular in design and fully compatible with the large or small cabinet frame.



SUPPORT MIXED INSTALLATION

Scope Of Application

- Suit for advertisement, stadium, exhibition, TV-Show, mansion, video wall, shopping mall, banks, schools, bus station, airport, gym, market, factories, monitoring centers, hospital, bar etc.



SPECIFICATION

Technical parameter: (T=25℃)

Application	Indoor			
Pixel Pitch	2.6mm	2.97mm	3.91mm	
Pixel Structure	3IN1 SMD	3IN1 SMD	3IN1 SMD	
Pixel Density (dots/m ²)	147928/m ²	113367/m ²	65410/m ²	
Module Resolution (W×H)	96(W)X96(H) dots	84(W)X84(H) dots	64(W)X64(H) dots	
Module Dimension (mm)	250mm x 250mm	250mm x 250mm	250mm x 250mm	
Cabinet Dimension (mm)	500x500x73mm / 500x1000x73mm			
Weight (kg) / set	7.5kg / 12.4kg			
Material	Die-cast Aluminum			
Maintenance type	Rear maintenance			
Certification	CCC, FCC , CE , ETL, UKCA, ROHS			
Single Point Brightness	support			
Chroma Correction	support			
White Balance Brightness	600–800cd/m ²			
Color Temperature	2000–12500K Adjustable			
Viewing Angle (H/V°)	H: 160° V: 140°			
Optimal Viewing Distance (m)	1–4 meters			
Brightness Uniformity	≥97%			
Contrast Ratio	≥5000:1			
Signal Processing Bits	16 bits*3			
Gray Scale	16Bit			
Control Distance	Cable: 100 m,Optical Fiber: 10km			
Drive Mode	Constant current source driver			
Frame Rate	≥60HZ			
Refresh Rate (Hz)	≥3840–7680HZ			
Way to Control	Synchronize			
Brightness Adjustment Range	0–100Stepless Adjustmen			
Continuous Operation Time	≥72Hours			
Life Span	>100,000Hours			
IP Level	IP20			
Operating Temperature (°C/RH)	–20 °C to 50 °C			
Operating Humidity (°C/RH)	10 %– 80% RH No Condensation			
Storage Temperature (°C/RH)	–20 °C to 60 °C			
Operating Voltage	DC 4.2–5V			
Input Voltage (V)	AC200–240V 50/60 HZ			
Maximum Power Consumption	700W/m ²			
Average Power Consumption	260W/m ²			

SPECIFICATION

Technical parameter: (T=25℃)

Application	Outdoor			
Pixel Pitch	2.97mm	3.91mm	4.8mm	
Pixel Structure	3IN1 SMD	3IN1 SMD	3IN1 SMD	
Pixel Density (dots/m ²)	113367/m ²	65410/m ²	43402/m ²	
Module Resolution (W×H)	84(W)X84(H) dots	64(W)X64(H) dots	52(W)X52(H) dots	
Module Dimension (mm)	250mm x 250mm	250mm x 250mm	250mm x 250mm	
Cabinet Dimension (mm)	500x500x73mm / 500x1000x73mm			
Weight (kg) / set	7.5kg / 12.4kg			
Material	Die-cast Aluminum			
Maintenance type	Rear maintenance			
Certification	CCC, FCC , CE , ETL, UKCA, ROHS			
Single Point Brightness	support			
Chroma Correction	support			
White Balance Brightness	4500–6500cd/m ²			
Color Temperature	2000–12500K Adjustable			
Viewing Angle (H/V°)	H: 160° V: 140°			
Optimal Viewing Distance (m)	1–4 meters			
Brightness Uniformity	≥97%			
Contrast Ratio	≥5000:1			
Signal Processing Bits	16 bits*3			
Gray Scale	16Bit			
Control Distance	Cable: 100 m,Optical Fiber: 10km			
Drive Mode	Constant current source driver			
Frame Rate	≥60HZ			
Refresh Rate (Hz)	≥3840–7680HZ			
Way to Control	Synchronize			
Brightness Adjustment Range	0–100Stepless Adjustmen			
Continuous Operation Time	≥72Hours			
Life Span	>100,000Hours			
IP Level	IP65			
Operating Temperature (°C/RH)	–20 °C to 50 °C			
Operating Humidity (°C/RH)	10 %– 80% RH No Condensation			
Storage Temperature (°C/RH)	–20 °C to 60 °C			
Operating Voltage	DC 4.2–5V			
Input Voltage (V)	AC200–240V 50/60 HZ			
Maximum Power Consumption	850W/m ²			
Average Power Consumption	300W/m ²			

Tests

Categories	Item	Reference Standard	Experimental Conditions	Duration Time	Receiving Standard
LED Lamp					
Environmental Experiments	Temperature Cycle	JESD22-A104-A	-40°C~25°C~100°C~25°C30min , 5min, 30min, 5min	Cycle 100 times	0/50
	Cold & Heat Shock	JESD22-A106	-40°C~100°C30min,30min	Cycle 100 times	0/50
	High temperature storage	JIS C 7021 (1977)B-11	Ta=60°C RH=90%	1000 hours	0/50
Lifetime Test	Ambient temperature lifetime tests	JESD22-A108-A	Ta=25°C Test Conditions: Power on and lit	1000 hours	0/50
	High temperature lifetime tests	JESD22-A101	Ta =85°C RH=85% Test Conditions: Power on and lit	1000 hours	0/50
Mechanical Vibration Experiments	Mechanical Vibration	MIL-STD-883 Method 2007	20G minutes, 20 to 2000Hz4 cycles, 4 minutes. Each,X,Y,Z	--	0/50
LED Finished Unit Cabinet					
Environmental Storage Experiment	Low temperature storage tests	GB2423.2	Storage at (-40±2)°C for 4h, recovery at room temperature for 4h,normal display and uniformity without abnormalities and no uncontrolled spots	8 hours	0/50
Ageing Test	High temperature storage tests	GB2423.2	Storage at (60±2)°C for 4h, recovery at room temperature for 4h, normal display and uniformity without abnormalities and no uncontrolled spots	8 hours	0/50
	Ambient temperature ageing test		Ta=25°C72-hour uninterrupted power-on display playing	72 hours	0/50
	High temperature ageing test	GB2423.2-89	Check every hour for 8h at (40±2)°C.Normal display and uniformity without abnormalities and no uncontrolled spots	8 hours	0/50
Mechanical Vibration Experiments	Mechanical vibration	GB6587.4-86	Vibration frequency 5HZ-55HZ-5HZ,amplitude 0.19mm, 5 minutes	5 min	0/50

Using environment

- This product is an outdoor display; avoid using it in high temperature, high acid/alkali/salt environments.
- Keep away from flammable materials, gases and dusts; the normal operating temperature of this product is $-20\sim 50^{\circ}\text{C}$, the optimal ambient temperature is $-10\sim 40^{\circ}\text{C}$.
- Avoid storage in high temperature, high humidity, high acid/alkali/salt environment; keep away from flammable materials and gases.
- Avoid strong collisions and sharp objects during transport.

Cleaning

- If cleaning the module surface, please use a soft bristle brush and brush gently. Do not use any liquid substances to clean the surface of the LED module, as this may damage the SMD-LED.

Operation

- This product is DC +5V power supply (working voltage: $4.5\sim 5.2\text{V}$), AC power supply is forbidden; power terminals are forbidden to be reversed.
- If the product is faulty during the warranty period, please send it back to our company for repair, or repair it under the guidance of our after-sales staff.
- During dismantling/assembly of the product, be sure to operate with care and avoid tools hitting the product.
- lightning and static protection should be done during operation and use; the box and steel structure should be earthed
- The product should not be switched on and off continuously during use; at least 1 minute should elapse between operations
- This product should not be turned off for a long time, it is recommended to use it once in half a month with 4 hours of power on; in high humidity environment, it is recommended to use it once in a week with 4 hours of power on.
- This product is not allowed to play the highest brightness all-white screen for more than half an hour, it is recommended to play dynamic video mainly.

Moisture-proof and storage requirements

1. After opening the package, the product must be stored in the temperature $<30^{\circ}\text{C}$ and humidity $<60\%$ environment.
2. If the screen is not used for more than 3 days, please use the pre-lighting method first: 30%–50% brightness for 4–8 hours, and then adjust it to normal brightness (80%–100%) to light up the screen, for eliminating the moisture and normal operation.
3. If the screen is not used for more than 7 days, please use the pre-lighting method first: 30%–50% brightness for more than 12 hours, and then adjust it to normal brightness (80%–100%) to light up the screen, for eliminating the moisture and normal operation.

Ø More than 3 days, LED screen (30%–50% in brightness) pre-lit 4–8 hours;
 Ø More than 7 days, LED screen (30%–50% in brightness) pre-lit more than 12 hours;

The operation process is as follows:

