



**VISUAL
MAGIC
WORLD**
维曼

P1.9 Outdoor COB Display (Waterproof Cabinet)

Specification

Luminescent Chip Parameters

Item No.	Colour	Luminous Intensity	Primary Wavelength	Remarks
1	Red (Test conditions: 5mA, 2.0V)	22mcd	620nm	Chip wavelength and brightness are typical values
2	Green (Test conditions: 2mA, 3.0V)	38mcd	520nm	
3	Blue (Test conditions: 2mA, 3.0V)	5mcd	470nm	

Pixel Point Parameters

To achieve optimal white balance colour matching, the required brightness ratio for each colour is **R:G:B = 3:6:1**.



LED Type

COB 3 in 1

Point Spacing

1.95mm

Pixel Composition

1R1G1B

Power Supply

Common Cathode

Module Specifications

Module Resolution (width × height)

128 × 128 pixels

Module Dimensions (width × height)

250 × 250 mm

Cabinet Specifications

Cabinet Resolution (width × height)

256 pixel × 256 pixel

Module Distribution (width × height)

2 × 2

Flatness between Modules

≤0.1mm

Cabinet Size (width × height)

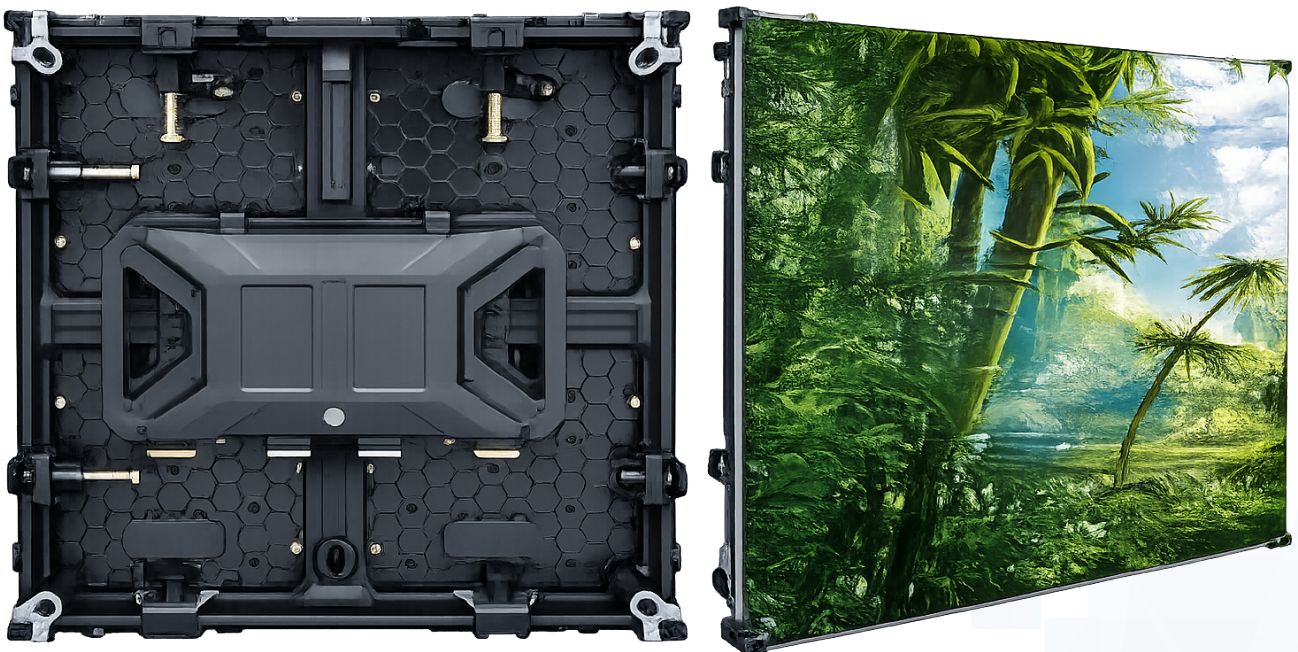
500mm × 500 mm

Weight

5.5Kg per box; 22Kg/ m²

Installation Method

Back frame installation



Screen Technical Parameters

Parameter	Specification
Point Density	262144 points/ m ²
Brightness (white field colour temperature 6500K)	≤3000cd/ m2 adjustable
Horizontal Perspective / Vertical Perspective	≤178°
Flatness	≤0.1mm
Chromaticity Uniformity	≥98%
Highest Contrast Ratio	10000:1
Protection Level	IP65

System Control Parameters

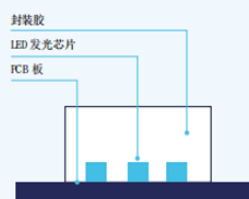
Parameter	Specification
Signal Colour Processing Bit Depth	Red, green, blue each ≥16bit
Driving Method	Constant current drive
Frame Change Frequency	60 frames/second
Refresh Rate	≥3840Hz
Screen Colour Temperature	Adjustable from 1000K to 18000K
Brightness Adjustment	Manual / Automatic / Programme Control
Pixel Correction	Equipped with brightness and chromaticity point-by-point correction
Control Method	Synchronous control

Control Distance	Category 6 twisted pair cable, use optical fibre transmission for distances exceeding 80 metres
Software Interface	Windows XP / 7 / 8 / 10
Signal Input	HDMI, DVI, DP

Screen Operating Parameters

Parameter	Specification
Operating Voltage	DC:2.8V/3.8V
Peak Power	$\leq 680\text{W/m}^2$
Average Power	240W/m^2 to 315W/m^2
Continuous Operating Time	$\geq 7 \times 24$ hours, supports continuous uninterrupted display
Average Time Between Failures	≥ 80000 hours
LED Lifespan	100,000 hours
Discrete Out-of-Control Points	≤ 0.0001 , 0 at factory
Continuous Out-of-Control Points	0
Blind Spot Rate	≤ 0.0001 , 0 at factory
Operating Ambient Temperature	-10°C to 60°C
Operating Ambient Humidity	10% to 90% RH, non-condensing
Screen temperature rise (using operating status)	≤ 38 degrees

Inverted COB Packaging Process



Micro - 倒装COB

Micro LED: 即“微”LED, 该显示技术结构设计薄膜化、微小化与阵列化, 发光单元尺寸 μm 等级, 适合更小间距、高度密度显示应用。