



**VISUAL
MAGIC
WORLD**

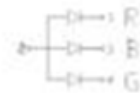
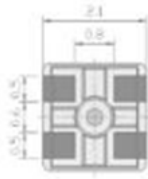
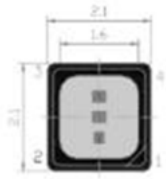
维曼

**P2.5 SMD Full-Color
Outdoor Screen**

Model: PCW2.5-B

Hongli-VMW display electronics.Co.,Ltd

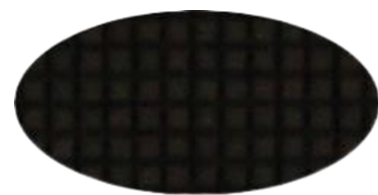
LED Chip Parameters



Item No.	Colour	Luminous Intensity	Primary Wavelength	Remarks
1	Red (Test conditions: 15mA, 2.4V)	350mcd	620nm	Chip wavelength and brightness are typical values
2	Green (Test conditions: 10mA, 3.2V)	650mcd	520nm	
3	Blue (Test conditions: 5mA, 3.2V)	150mcd	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

SMD1921

Point Spacing

2.5mm

Pixel Composition

1R1G1B

Module Technical Parameters

Module Resolution (width × height)

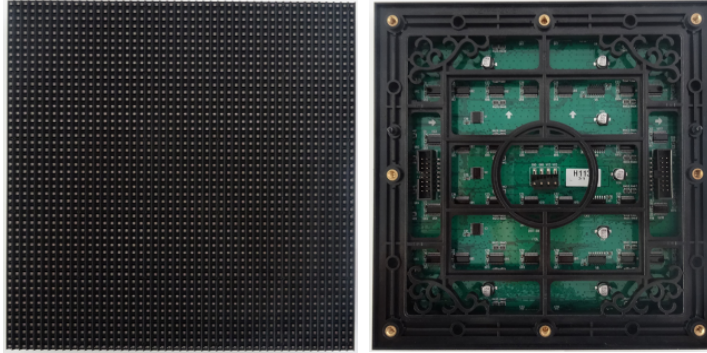
128 pixels x 64 pixels

Module Dimensions (width × height)

(Width) 320mm × (Height)
160mm

Face Shield

As Standard



Box Technical Parameters

Box Resolution (width × height)

256 pixels x 256 pixels

Module Distribution (width × height)

2 x 4

Flatness between Modules

≤1mm

Box Size (width × height × thickness)

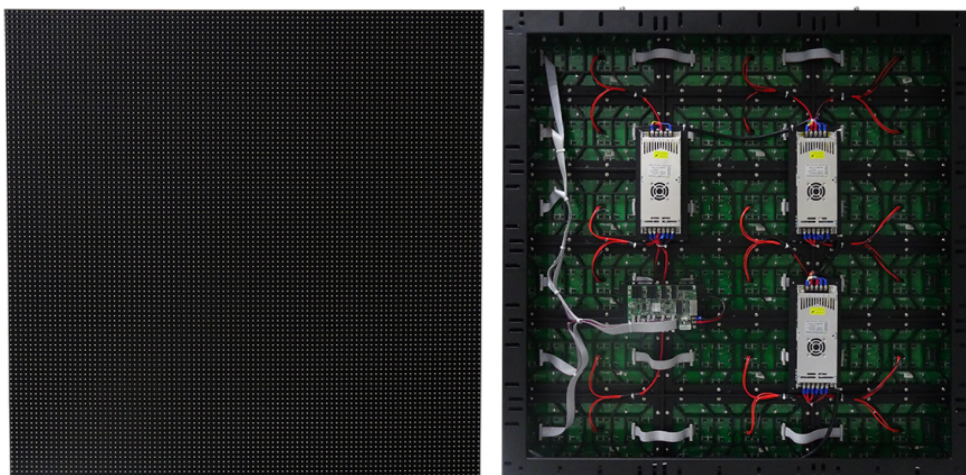
640mm x 640mm x 100mm

Weight

28Kg/m²

Installation Method

Back frame installation/
lifting/inner arc installation



Screen Technical Parameters

Parameter	Specification
Point Density	160,000 points/m ²
Brightness (white field colour temperature 6500K)	≤6000cd/m ²
Horizontal Perspective / Vertical Perspective	140° / 140°
Flatness	≤1mm
Chromaticity Uniformity	≥98%
Highest Contrast Ratio	4000:1
Protection Level	IP65

System Control Parameters

Parameter	Specification
Signal Colour Processing Bit Depth	Red, green, blue each ≥16bit
Driving Method	Low turning point, low voltage constant current drive (4.2V)
Frame Change Frequency	60 frames/second High refresh supports 3D: 120 frames/second
Refresh Rate	≥3840Hz
Screen Colour Temperature	2000K to 9500K adjustable
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

Screen Operating Parameters

Parameter	Specification
Operating Voltage	AC : 110V~240V、 50~60Hz
Peak Power	≤900W/m ²
Average Power	260W/m ² to 360W/m ²
Continuous Operating Time	≥7 × 24 hours, supports continuous uninterrupted display
Average Time Between Failures	≥10,000 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