



**VISUAL
MAGIC
WORLD**
维曼

P1.86 Indoor SMD Small-Pitch LED Display (Magnetic Module)

Model: PCM1.86-CM

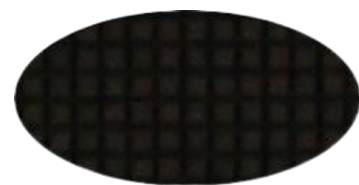
LED Chip Parameters



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

SMD1515

Point Spacing

1.86mm

Pixel Composition

1R1G1B

Module & Screen Technical Parameters

Module Technical Parameters

Module Resolution (width × height)

172 pixels × 86 pixels

Module Dimensions (width × height)

(Width) 320mm × (Height)
160mm

Face Shield

None

Weight

0.95Kg/module; 16.5Kg/m²

Installation Method

Magnetic installation



Screen Technical Parameters


Parameter	Specification
Point Density	288906 points/m ²
Brightness (white field colour temperature 6500K)	100cd to 800cd/m ² adjustable
Horizontal Perspective / Vertical Perspective	160° / 160°
Flatness	≤0.4mm
Chromaticity Uniformity	≥98%
Highest Contrast Ratio	5000:1
Protection Level	IP20

System Control Parameters

Parameter	Specification
Signal Colour Processing Bit Depth	Red, green, blue each ≥ 16 bit
Driving Method	Constant current driving
Frame Change Frequency	60 frames/second High refresh supports 3D: 120 frames/second
Refresh Rate	≥ 3000 Hz
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	DC: 5V
Peak Power	$\leq 650\text{W}/\text{m}^2$
Average Power	$150\text{W}/\text{m}^2$ to $280\text{W}/\text{m}^2$
Continuous Operating Time	$\geq 7 \times 24$ hours, supports continuous uninterrupted display
Average Time Between Failures	$\geq 10,000$ 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

 **Note:** Parameter specifications may vary according to specific project circumstances (products are manufactured according to submitted contract specification documents).