

MC Pro 960 Series

Ultra Light Outdoor Engineering
High Brightness Performance.



622 SQM Outdoor P6 Project by Shenzhen Zhongbo was Successfully Completed
 Screen size: 43.2m * 14.4m, 622 sqm

Overview

The MC Pro Series features an ultra lightweight die cast aluminum cabinet design, making it one of the lightest outdoor display panels in the industry. Built for demanding outdoor environments, it combines 360 degree potted module waterproofing, extreme brightness up to 10,000 nits, solder free technology, and multi shape flexibility for standard flat, curved, or creative display setups.

KEY ADVANTAGES



All Weather Protection

IP66 360 degree potted module design with UV resistant, anti corrosion materials ensures robust IP66 protection in harsh outdoor climates.



Extreme Sunlight Brightness

Delivers up to 10,000 nits brightness and an 8000 to 1 contrast ratio to guarantee crisp, clear visibility under direct sunlight.



Flexible Creative Design

Versatile cabinet design enables flat, corner curved, circular, and custom irregular shapes for diverse outdoor display projects.



7680Hz Refresh Rate

High refresh rate driver IC delivers smooth flicker free, camera ready visual performance for professional outdoor applications.



Front & Rear Maintenance

Supports complete front and rear module serviceability, providing hassle free access across all installation scenarios.



Ultra Light Die Cast Fram

Lightweight die cast aluminum cabinet under 23 kg per sq meter simplifies handling and reduces structural load for outdoor mounting.

Technical Specifications

MC Pro 960 · 4.44 | 6.67 mm pixel pitch

Mechanical Parameters	Pixel Pitch (mm)	4.44 Plus	6.667 Standard	6.667 Plus
	LED Type	SMD 1921 RGB	SMD 1921 RGB Gold Wire	
	Module Resolution (Pixels)	108 × 72	72 × 48	
	Module Size (mm)	480 (W) × 320 (H)		
	Cabinet Size (mm)	960 x 960 x 80(D)		
	Cabinet Resolution (pixels)	216 x 216	144 x 144	
	Cabinet Area (m²)	0.9216		
	Cabinet Weight (kg)	≤ 23 KG per sq meter		
	Pixel Density (dot/m2)	50,625	22,500	
	Flatness (mm)	≤0.1		
	Ingress Protections (IP)	65/65	66/66	
	Maintenance	Front & Rear		
Optical Parameters	Brightness (nits)	7000 - 7500 @6500K		10000 @6500K
	Color Temperature (K)	3200-9300 adjustable		
	Viewing Angle (H/V)°	140°/140°		
	Center Point Deviation	<3%		
	Brightness/Color Uniformity	≥97%		
	Contrast Ratio	7000:1	8000:1	
Electrical Parameters	Max/Avg Power Consumption	650/210 (W/pc)	650/220 (W/pc)	750/250 (W/pc)
	Voltage Range	AC100-240V, 50/60 (Hz)		
Processing Performance	Frame Rate (Hz)	50&60		
	Drive Mode	Constant Current Drive		
	Gray Scale	14-16 bits		
	Refresh Rate (Hz)	7680		
	Color Figures	14-16 bit		
Operating Parameters	Life Time (hrs)	100,000 hrs		
	Operating Temperature /Humidity Range (°C/RH)	-10 - 50/10%-80% (non-condensing)		
	Storage Temperature /Humidity Range (°C/RH)	-20 - 60/10%-85% (non-condensing)		