



# LED SOLUTION

## P3.076 OUTDOOR



# 1. FEATURES

- Eliminate color aberration and significantly improve display quality. Supports brightness and chroma calibration for each point.
- The brightness and chroma of each light point are calibrated to effectively remove color aberration, ensuring high brightness and chroma uniformity across the entire screen and enhancing display image quality.
- Seamless image connection, no black screen.
- Supports pre-stored image settings of the receiving card, allowing a designated image to be set as the display's boot-up image, or displayed when the network cable is disconnected or no signal is detected, ensuring no black screen and seamless images.
- Supports 3D functionality, with independent main control and 3D glasses that support 3D functions, providing a vivid cinema-level 3D shock effect.
- Supports mapping function, which identifies the location and routing of the receiving card, making the connection easy.
- Supports firmware program and configuration parameter rereading, allowing rereading and locally saving the firmware program and configuration parameters of the receiving card, avoiding complex operations and improving work efficiency.

## 2. SPECIFICATION

Model	TCO-P3.076-960-960
LED Module Specifications	
LED Lamp Type	SMD 1515
Pixel Pitch (mm)	3.076
Module Size (mm)(W x H )	320 x 160
Module Resolution (pixels)(W x H )	104 x 52
Scan Mode	13
Color Temperature	3000-9500K
LED Cabinet Specifications	
Cabinet Size (mm) )(W x H )	960 x 960
Cabinet Resolution (pixels) )(W x H )	312 x 312
Pixel Density (pixels/m²)	105625
Dust/Water Resistance	IP65
Input Voltage	100 ~ 240VAC
Input Frequency	50-60 Hz
Max Power Consumption (W/m²)	600
Average Power Consumption (W/m²)	210
Viewing Angle (°)	Horizontal 160° / Vertical 160°
Brightness (nits)	> 5500 nits and ≤ 6000 nits (High brightness)
Gray Scale	65536 levels per color
Contrast Ratio	6000:1
Bit Depth	16 bits
Refresh Rate	1920 - 3840 Hz
Frame Rate	60 Hz
LED Lifespan (50% Brightness)	≥ 100,000 hours
Brightness Control Modes	Manual / Automatic / Programmable
Operating Temperature	-30°C to 60°C
Humidity	10%-90% RH non-condensing
Maintenance Access	Front-Back

## 2. SPECIFICATION

### Video Processor Specifications

Color Processing	Faroudja® Real Color®True for color processing, Faroudja® DCDi for de-interlacing, Faroudja® TrueLife™ for video enhancement
Dual-Screen Modes	Three custom modes with one-button switching, flexible PIP/PBP (Picture-in-Picture/Picture-by-Picture) display
Seamless Switching	Fade-in and fade-out transitions
Mode Switching	One-key switching and preselection with toggle
Control Methods	Panel buttons and PC software for flexible, convenient operation
Card Support	Supports one built-in sending card
6 input signals and 2 outputs with multiple resolutions	1024 × 768_60Hz / 75Hz, 1280 × 1024_60Hz / 75Hz, 1366 × 768_60Hz, 1440 × 900_60Hz, 1536 × 1536_60Hz, 1920 × 1080p_50Hz / 60Hz
Control Terminal	RS232
Input Voltage	100-240VAC 50 / 60Hz
Max Power Consumption	≤25W
Ambient Temperature	0-45°C
Ambient Humidity	15-85%

### LED Cabinet Accessories Specifications

Max Load per Card	512 x 512 pixels; supports up to 24 parallel RGB data sets
Interface Type	Uses 12 standard HUB75 interfaces, ensuring high stability and reliability, suitable for various scenarios
Max Load	512 x 512 pixels
Input Voltage	DC 3.3V ~ 5.0V
Rated Power Consumption	2.5W

## 2. SPECIFICATION

Operating Temperature	-20°C to +70°C
Storage Humidity	10% RH to 90% RH non-condensing
Storage Environment Temperature	-25°C to +125°C
<b>Sending Card Specifications</b>	
Max Load per Device	1920 × 1200 @ 60Hz, stackable via UART interface for unified control
Video Input Support	DVI and HDMI high-definition video input
Audio Support	One audio input
Network Output	Four-way network output ports
USB Control Interface	Stackable for unified control across multiple units
Max Supported Resolution Load	2048 × 1152 or 1920 × 1200
Input Resolution Options	1920 × 1200
	2048 × 1152
	2560 × 960
Supported Resolution	2048 × 1152
	1920 × 1200
	2560 × 960
Pixel Capacity	2.3 million pixels
Control Method	USB Interface
Video Input Interfaces	HDMI / DVI
Audio Interface	HDMI / 3.5mm
Video Format	RGB, YCrCb4:2:2, YCrCb4:4:4
Output Interface	4 Ethernet ports
Power Consumption	16W
Power Supply	100-240V, 50 / 60Hz
Input Voltage	200-240Vac, 47-63Hz
Protection Features	Low voltage, overload, short circuit
Max Output Power	200W
Operating Temperature	-30°C to +60°C

## 2. SPECIFICATION

### Battery Specifications

Power Factor	0.50@230Vac
Storage Temperature	-40°C to +100°C, 20-95% RH
Insulation Voltage	I/PO/P: 3.0KVac
Safety Standards	GB4943, UL60950-1, EN60950-1
Isolation Voltage	I/P-FG: 1.5KVac; O/P-FG: 0.5KVac, 1 minute
Cooling System	Passive (cold)
EMC Standards	GB9254, EN55022
Protection Time	50ms for protection, 20ms for overload
Leakage Current	0.30mA@230Vac

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