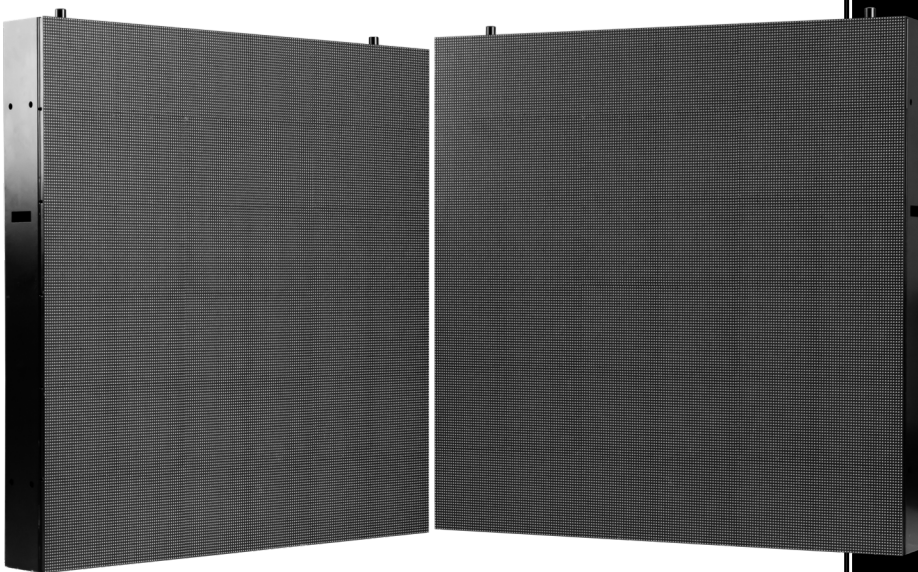# LED SCREEN

P5 OUTDOOR

FEATURES

➢ Eliminates color aberration and significantly improves screen quality. Supports brightness and chromatic calibration of each pixel.

➢ The brightness and chromaticity of each light point are calibrated to effectively eliminate color aberrations, ensuring high uniformity in the brightness and chromaticity across the entire screen and enhancing the display image quality.

➢ Provides seamless image connection with no black screen. It supports the preset image settings of the receiving card, allowing a designated image to be set as the boot screen image.

➢ When the network cable is disconnected or there's no signal, it ensures that the display does not go black and maintains a seamless image.

➢ Supports 3D functionality with independent master control and 3D glasses compatibility, allowing for vivid, cinema-level 3D effects.

➢ Also supports mapping functions, which allow easy identification of the receiving card's position and routing, simplifying connections.

➢ Furthermore, it supports firmware programs and configuration parameter re-reading, enabling the re-reading and local storage of the receiving card's firmware programs and configuration parameters, avoiding complex operations and enhancing work efficiency.

SPECIFICATION

Model	TCO-P5-960-960
LED Module Specifications	
Pixel Pitch (mm)	5
Pixel Density (points/m²)	40.000
LED Chip Type:	RGB SMD (1 Red, 1 Blue, 1 Green)
LED Lamp Type	SMD 2727
Module Resolution (pixels)(W x H)	64 x 32
Module Size (mm)(W x H)	320 x 160
Module Weight (kg)	1.58
LED Cabinet Specifications	
Modules per Cabinet (H x W)	6 x 3
Cabinet Resolution (pixels)(W x H)	192 x 192
Cabinet Size (mm)(W x H)	960 x 960
Cabinet Weight (kg)	30
Screen Flatness (mm)	0.5
Brightness (nits)	7800
Contrast Ratio	≥ 6000:1
Brightness Uniformity (after calibration)	97%
Viewing Angle (°)	Horizontal 160° / Vertical 160°
Bit Depth	16 bits
Color Temperature	3000-9500K
Frame Rate	60Hz
LED Lifespan (hrs)	100,000
Power Supply	100~240VAC
Max Power Consumption (W/m²)	850
Average Power Consumption (W/m²)	350
Operating Humidity (% RH)	10%-90% non-condensing

SPECIFICATION

Operating Temperature	-30°C~60°C
Maintenance Access	Front-Back
Certifications	CE, FCC, ETL, EMC
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-button 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%

SPECIFICATION

LED Cabinet Accessories Specifications	
Max Load per Card	512x512 pixels; supports up to 24 parallel RGB data sets
Interface Type	Uses 12 standard HUB75 interfaces with 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
Operating Temperature	-20°C to +70°C
Storage Humidity	10% RH to 90% RH non-condensing
Storage Environment Temperature	-25°C to +125°C
Image Sending Card Specifications	
Max Load per Device	1920 × 1200 @ 60Hz, stackable via UART interface for unified control
Support One Video Input	DVI and HDMI high-definition video input
Audio Support	One audio input
Output Support	Four-way network output ports
USB Control Interface Support	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

SPECIFICATION

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
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