Outdoor Full Color LED Video Wall

TV-OM500-BX



Description

Outdoor LED video walls are widely used in finance, taxation, industry and commerce, post and telecommunications, sports, advertising, factories and mines, transportation, education systems, stations, docks, airports, shopping malls, hospitals, hotels, banks, securities markets, construction markets, auction houses, industrial enterprise management, and other public places. They support media display, information dissemination, traffic guidance, and creative display applications.

Features

*The LED display screen supports rapid content switching and real-time updates, providing efficient dynamic information dissemination capabilities.

*The main light-emitting component is LED chips, which are mercury-free and environmentally friendly.

*It features energy-saving and environmentally friendly characteristics, supports all-weather operation, and can adapt to various harsh outdoor environments, possessing anti-corrosion, waterproof, moisture-proof, lightning-proof, and shockproof features.

*It has high photoelectric conversion efficiency, achieving efficient light output with low power consumption. Operating voltage is 2-4.2V, and operating current is 0.02-0.03A.

*It features seamless splicing and a high refresh rate, resulting in a delicate image display.

*It records the number of times the LED display screen is turned on and off and the usage time, with a data retention period of 100 days. It also supports monitoring of on-site temperature and humidity, displaying data in real-time on the control software, allowing users to easily understand the on-site screen and environmental temperature and humidity data.

*The LED display color uniformity is within ±0.001Cx,Cy.

*The LED display screen's color temperature is continuously adjustable from 100K to 20000K, with multiple white level adjustments including cool, warm, and standard. At a color temperature of 8500K, the color temperature error for four white level adjustments (100%, 75%, 50%, and 25%) is ≤100K.

*The LED display screen's PCB uses surface immersion gold treatment, with a board thickness ≥1.2mm, copper thickness ≥1 ounce, and TG ≥150℃.

*To ensure effective signal transmission and DC power supply stability, the gold plating thickness of the LED display screen is ≥50μm.

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Specification

Module specifications	
LED Packaging Form	SMD1921
Physical Pitch	5mm
Resolution	40000 pixels /m²
LED Chip/IC	High-quality domestic copper wire/High Refresh Rate
Light Emitting Point Color Combination	1R1G1B
Module Resolution	64×32
Module Dimensions (W×H) (mm)	320×160
Cabinet Resolution	192×192
Cabinet Dimensions (W×H) (mm)	960×960
Cabinet Weight	≤45Kg/m²
Operating Voltage	DC+3.8V~+5V
Main specifications	
Optimal Viewing Distance	≥15m
Horizontal Viewing Angle	≥170°
Vertical Viewing Angle	≥170°
Maintenance Method	Rear maintenance
Graphics Card	DVI/HDMI/DP
Video Signal	Compatible with PAL/NTSC/SECAM standards, supports S-Video; VGA; RGB; CompoSiteVideo; SDI; DVI; RF; RGBHV; YUV; YC, etc.
Control Method	Synchronous control
Drive Device	Constant current
Refresh Rate	≥3840Hz
Frame Rate	≥60Hz
Scanning Method	8S
Brightness	≥4000cd/m² (adjustable)
Grayscale/Color	281 trillion
Contrast Ratio	≥10000 : 1
Degradation Rate (3 Years of Operation)	≤15%
Brightness Adjustment Method	Software 0 to 255 stepless adjustment
Computer Operating System	WIN98/2000/WINXP/WINViSta/WIN7
Mean Time Between Failures (MTBF)	≥20000H
Lifespan	≥100000H
Noise Ratio	≤1/100000 and no continuous loss of control points
Software	Professional LED display system program compilation software
Ambient Temperature	Storage temperature: -35℃~+85℃, operating temperature: -20℃~+50℃
Ambient Humidity	10%~80% non-condensing
Operating Voltage (AC)	220V±10%/50Hz or 110V±10%/60Hz
Average Power Consumption	≤270W/m²
Peak Power Consumption	≤900W/m²
Installation Enclosure Specifications	Standard sheet metal enclosure
Color Uniformity	≥99%
Protection Rating	Front IP65/ Rear IP54