Indoor Full Color LED Video Wall

COB1.56 (TV-COB156)

Description

It has the characteristics of seamless splicing, high contrast, high color gamut, ultra-high color consistency, high grayscale, fast frame change speed, natural color restoration, wide viewing angle, perfect display, long service life, shockproof, anti-collision, moisture-proof, front waterproof and dustproof. It is suitable for use in various harsh environments and has better high and low temperature/humidity storage and application performance.

Features

The LED display screen adopts CNC one-piece die-cast aluminum cabinet.
The LED display screen module adopts a plastic bottom shell kit design. The die-cast aluminum cabinet is in direct contact with the PCB. The edge of the PCB directly contacts the four sides of the die-cast box to improve the thermal conductivity. Compared with the product with a plastic bottom shell kit, it can better solve the color drift and ensure that the screen body is accelerated due to thermal conductivity. The aging and reduced service life of the screen are reduced. The product surface temperature rises by ≤5℃ after lighting for 5 minutes under normal video playback, and the temperature rise is ≤10℃ after lighting for 10 minutes.
The LED display screen adopts a non-contact magnetic suspension front maintenance design. The low-voltage devices such as modules, receiving cards, and power supplies can be disassembled from the front and can work normally after multiple hot plug tests.
The LED display screen switching power supply has PFC function, power factor 0.95, power efficiency ≥91%@25℃, and has over-current, short-circuit, over-voltage, and under-voltage protection functions.
The refresh rate setting option can be adjusted through the supporting control software.
The color temperature of the LED display screen is continuously adjustable from 100K to 20000K. It can be set to cold, warm, standard and other white field adjustments. When the color temperature is 8500K, the color temperature error of the four-level white field adjustment of 100%, 75%, 50%, and 25% is ≤100K.
In order to effectively improve the stability of signal transmission and DC power supply, the connector of the LED display screen uses a gold-plating process with a gold-plating thickness of ≥50μm.
The LED display screen has a record of the number of screen power on and off and the length of use, as well as monitoring feedback of the temperature and humidity on site, and forms a data storage cycle of 100 days. The data can be extracted on the control software side to ensure that users understand the on-site screen and the use environment in real time.
The LED display screen has a FLASH intelligent storage circuit that can store module calibration data. The calibration data can be automatically read back when the module is replaced. The storage capacity is ≥1MB.
The LED display screen meets the EMCCLASSB anti-interference capability and requires stable operation without interference from external radio frequency electromagnetic fields.
The LED display screen has a low blue light mode. You can choose 30%, 40%, and 70% in the control software to adjust the blue light output of the display screen, effectively reducing the damage of blue light radiation to the eyes.
High protection: shockproof, collision-proof, moisture-proof, front waterproof, and dustproof.
High adaptability: suitable for use in various harsh environments, with better high and low temperature/humidity storage and application performance.
High reliability: extremely low bad pixel rate during long-term use. Even if individual bad pixels occur, the module can be directly replaced and returned to the factory for repair, eliminating the trouble of users having to constantly repair the lights during long-term use.
It can be used to monitor and display the on-site situation in real time and play various promotional advertisements.
The product is seamlessly spliced, and there is no visual black seam when splicing.
The display unit is flexible and compact, flat, curved, and smoothly spliced.
DC low-voltage power supply, natural heat dissipation, no fan, and zero noise at work.
Ultra-low out-of-box failure rate, extremely low maintenance and use costs, and the unit board is very easy to replace.
Supports picture correction, using gamma correction technology to achieve point-by-point brightness and color correction.
Supports intelligent light control, can intelligently adjust the brightness, improve the comfort of the picture, and save energy.
Ultra-wide viewing angle display, the display has a larger visual range, and the picture is still clear at any angle.
With ultra-high refresh rate, good picture continuity, and high picture smoothness.
The picture is delicate and realistic, and the grayscale is still excellent under low brightness.
Supports ultra-high-definition display, adopts unique picture quality enhancement technology, effectively improves image clarity, and high-speed picture is smooth without ghosting.

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Specification

Module specifications	
Physical point spacing	1.5625mm
Resolution	409600 points/m²
Lamp beads/IC	COB full flip chip common positive/professional high refresh rate IC
Light point color combination	1R1G1B
Unit board resolution	96*108
Unit board dimension (mm)	150*168.75
Cabinet resolution	384*216
Box dimension (mm)	600*337.5
Box weight	≤4Kg/pc
Operating voltage	DC+4.2V
Main specifications	
Optimal viewing distance	≥4.8m
Horizontal viewing angle	≥178°
Vertical viewing angle	≥178°
Maintenance method	Front maintenance
Control method	Synchronous control
Drive devices	Constant current drive
Refresh rate	≥3840Hz
Frame rate	≥60Hz
Scanning method	54S
Brightness	200-600CD/㎡ (adjustable)
Grayscale	12/14/16bit
Contrast	≥100000:1
Decay rate (three years of operation)	≤15%
Brightness adjustment method	0-100% adjustment through supporting software; supports automatic/manual, supports setting brightness timing adjustment
Computer operating system	WIN7 and above
Mean time between failures	≥20000H
Service life	≥150000H
Noise rate	≤1/1000000 and no continuous out-of-control points
Software	Professional LED display system programming software
Operating humidity	10%RH to 90%RH
Operating temperature	-20℃ to +60℃
Operating voltage (AC)	90V～270V(50Hz/60Hz)
Average power consumption	≤104W/m²
Maximum power consumption	≤310W/m²
Box specifications	Die-cast aluminum housing
Color uniformity	≥99%
Protection level	Front IP65