Indoor Full Color LED Video Wall

C2.0 (C2.0-MZ)

Description

It has the characteristics of seamless splicing, perfect display, long service lifespan, fast frame changing speed, high refresh rate, good uniformity, wide viewing angle, high grayscale, natural color reproduction, etc. It is widely used in command and dispatch, security monitoring, video conference, studio display, and various conference display occasions.

Feature

* The LED display screen adopts front/rear maintenance mode, and low-voltage devices such as modules, receiving cards, and power supplies can be removed from the front, and it has hot-swappable capabilities.
* The LED display color uniformity is within ±0.001Cx,Cy; the relative deviation of the center distance of the LED display pixel is ≤1%; the average fault recovery time (MTTR) of the LED display screen is ≤2 minutes.
* 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, and multiple white field adjustments such as cold color, warm color, and standard can be set. 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.
* To prevent metal ion migration and short circuit, the LED display uses FR-4 four-layer board with the same grade or higher material. The PCB wire is wider, and the wire spacing and via spacing are larger, which can better prevent module black screen, display abnormality, lamp bead color loss, caterpillars and other phenomena. The surface is treated with gold immersion, the board thickness is ≥1.6mm, the copper thickness is ≥1 ounce, TG ≥170℃, and the PCB board surface is moisture-proof/dust-proof/anti-static/anti-oxidation, and the mildew-proof grade is ≤1.
* The LED display is based on GB/T 5169.16-2017 standard, the test temperature is 650℃, the time is 30 seconds, the sample burning flame or melt should be extinguished within 30 seconds after the end of the glow wire test, and the burning flame or melt of the sample should not cause the test paper below to burn when dripping, and the flame retardant grade (PCB board, wire, power supply, connector) reaches V-0 grade.
* The LED display screen requires a maximum noise sound pressure of <2db at 1m away from the product under working conditions of 25℃, 40%RH and 100.2kpa.
* The LED display screen complies with 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, and the blue light output of the display screen can be adjusted to 30%, 40% and 70% in the control software, effectively reducing the damage of blue light radiation to the eyes.
* Seamless splicing without visual black seams.
* The display module is flexible, and supports flat and curved smooth splicing.
* The picture is delicate and realistic, and the grayscale is still excellent under low brightness.
* DC low-voltage power supply, natural heat dissipation, no fan, and zero noise.
* It can be used for real-time scene monitoring and various advertising playback.
* With ultra-high refresh rate, good picture coherence and high fluency.
* When a failure occurs, it only needs to maintain a single LED lamp or a single module at very low maintenance cost but pretty high speed.
* Support picture correction. The Gamma correction adopted enables pixel-by-pixel brightness color correction.
* Support intelligent light control, which can intelligently adjust brightness, improve picture comfort, and save energy.
* With ultra-wide viewing angle display. The display screen has a wider visual range, and the viewing picture from any angle is still clear.
* Support ultra HD display. Unique image quality enhancement technology effectively improves image clarity, making high-speed picture smooth without image smearing.

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Specification

Module parameters	
LED encapsulation	SMD1515 black light
Pixel pitch	2.0mm
Resolution	250000 pixels/m²
Lamp bead/IC	Domestic high-quality copper wire/high refresh rate
Pixel configuration	1R1G1B
Module resolution	160*80
Module size (mm)	320*160
Module weight	≤0.48Kg/pc
Working voltage	DC+4.2V~+5V
Main parameters	
Best viewing distance	≥6.0m
Horizontal viewing angle	≥175°
Vertical viewing angle	≥175°
Maintenance method	Front/rear maintenance
Control mode	Synchronous control
Drive device	Constant current
Refresh rate	≥4200Hz
Frame rate	≥60Hz
Scanning method	40S
Brightness	200-800CD/m²
Grayscale	12/14/16/18bit
Contrast	≥10000:1
Attenuation rate (after working for 3 years)	≤15%
Brightness adjustment method	0-100% adjustment through the supporting software; support automatic/manual, support setting brightness timing adjustment
MTBF	≥20000H
Lifespan	≥100000H
Failed rate	≤1/100000 and no continuous failed pixels
Storage temperature	-35℃~+85℃
Working temperature	-20℃~+60℃
Working voltage (AC)	220V±10%/50Hz/60Hz
Average power consumption	≤125W/m² at 800CD/m² (≤95W/m² at 600CD/m²)
Maximum power consumption	≤500W/m² at 800CD/m² (≤380W/m² at 600CD/m²)
Installation method	Magnetic installation
Brightness uniformity	≥99%
Protection class	IP5X