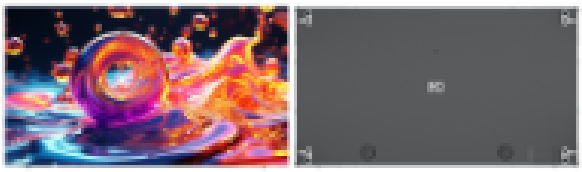
Indoor Full Color LED Video Wall

C1.5625-16:9G



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

1. One cabinet, one card, and one power supply, which can be directly mounted on the wall, embedded, or floor-standing.
2. The cabinet size adopts the golden ratio of 16:9, providing an excellent visual experience and meeting the needs of the mainstream market.
3. The cabinet adopts the front and back installation method, which can fit the wall at a close distance, effectively save space, and achieve harmonious integration with the surrounding environment.
4. The LED display screen module adopts a plastic bottom shell kit design. The die-cast aluminum box is in direct contact with the PCB circuit board. The edge of the PCB circuit board directly contacts the four sides of the die-cast box to improve the thermal conductivity. Compared with the bottom shell with a plastic kit, it can better solve the color drift problem and ensure that the screen body is accelerated due to heat conduction. aging and reduced service life.
5. The LED display unit module and the unit box use industrial-grade precision floating wireless connectors, which have the ability to correct the deviation of the mosaic, and the connection is more stable. The whole screen joints can be finely adjusted in units of modules to avoid the light and dark line effect between modules due to the joints. The signal cable and low-voltage power line cannot be seen inside the box, and it can be directly plugged in and out with power.
6. The LED display adopts a non-contact magnetic suspension front maintenance design, which can remove low-voltage devices such as modules, receiving cards, and power supplies from the front, and has hot-swap capabilities.
7. In order to ensure the horizontal angle, vertical angle, and flatness of the screen installed on site and improve the final viewing experience of customers, the LED display box is equipped with horizontal and vertical detection modules inside. The horizontal and vertical angles can be intuitively corrected on site to ensure the horizontality and verticality of the LED box structure during the project construction process.
8. The switching power supply of the LED display has PFC function, power factor ≥0.95, power efficiency ≥91%@25℃, and has over-current, short-circuit, over-voltage, and under-voltage protection functions.
9. LED display chromaticity uniformity within ±0.001Cx,Cy; LED display pixel center distance relative deviation ≤1%; LED display mean fault recovery time (MTTR) ≤2 minutes.
10. LED display color temperature 100K-20000K continuously adjustable, can be set to cold color, warm color, standard and other multi-level white field adjustment, when the color temperature is 8500K, 100%, 75%, 50%, 25% four-level white field adjustment color temperature error ≤100K.
11. In order to prevent metal ion migration and line short circuit, the LED display PCB uses FR-4 four-layer board of the same grade or higher material, PCB wire is wider, wire spacing and via spacing are larger, which can better prevent module black screen, display abnormality, lamp bead color deficiency, caterpillar and other phenomena, surface immersion gold treatment, board thickness ≥2mm, copper thickness ≥1 ounce, TG ≥170℃, PCB board surface has moisture/dust/anti-static.
12. The back of the LED display box is equipped with a test button, which can realize four monochrome displays of red, green, blue and white, and scan the display in horizontal and vertical scanning. There is no need to remove the front module of the box and press the button inside the box to perform this test function.
13. The LED display has a single power leakage current ≤ 0.3mA, which eliminates the risk of leakage current formed by multiple power supplies causing tripping of the upper power box.
14. The LED display has a low blue light mode, and you can choose 30%, 40%, and 70% in the control software to adjust the blue light output of the display, effectively reducing the damage of blue light radiation to the eyes.
15. It has a record of the number of times the LED display is turned on and off, and the length of use, which can form a data storage period of 100 days, and supports the monitoring of on-site temperature and humidity. The data can be displayed in real time on the control software end, which is convenient for users to understand the on-site screen and environmental temperature and humidity data.

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Specification

Module parameters	
LED encapsulation	SMD1212 black light (GOB)
Pixel pitch	1.5625mm
Resolution	409600 pixels/m²
Lamp beads/IC	Domestic high-quality copper wire/high refresh rate
Pixel configuration	1R1G1B
Module resolution	192*108
Module size (mm)	300*168.75
Cabinet resolution	384*216
Cabinet size (mm)	600*337.5*31.5
Cabinet weight	≤4Kg/piece
Working voltage	DC+4.2V
Main parameters	
Best viewing distance	≥4.7m
Horizontal viewing angle	≥175°
Vertical viewing angle	≥175°
Maintenance method	Front maintenance
Control mode	Synchronous control
Drive device	Constant current drive
Refresh rate	≥4200Hz
Frame rate	≥60Hz
Scanning method	48S
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 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)
Cabinet material	Die-cast aluminum cabinet
Brightness uniformity	≥99%
Protection class	IP5X