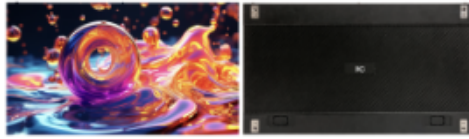# Indoor Full Color LED Video Wall

TV-COB125(TV-COB125)

Description

It features seamless splicing, high contrast, high color gamut, ultra-high color consistency, high grayscale, fast frame changing speed, natural color reproduction, wide viewing angle, perfect display, long service lifespan and other characteristics. It is shockproof, crashproof, moisture-proof, front waterproof, dust-proof, and is suitable for use in various harsh environments, with better high and low temperature/humidity storage and application performance.

Feature

*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, 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 in the normal video playback state, 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 the module, receiving card, and power supply can be disassembled from the front and can work normally after multiple hot plug tests.

*The switching power supply of the LED display screen 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, 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.

*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, and the gold plating thickness is ≥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 on the temperature and humidity on site, and forms a data storage cycle of 100 days, and can extract data 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, and the storage capacity is ≥1MB.

*The LED display screen complies with the EMC CLASS B 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 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, anti-collision, 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 extremely easy to replace.

*Supports image correction, using gamma correction technology to achieve point-by-point brightness and color correction.

*Supports intelligent light control, which can intelligently adjust the brightness, improve the comfort of the picture, and save energy and electricity.

*Ultra-wide viewing angle display, the display screen has a larger visual range, and the picture is still clear at any angle.

*It has an 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 conditions.

*Supports ultra-high-definition display, using unique picture quality enhancement technology, effectively improving image clarity, and high-speed picture smoothness without ghosting.

Specification

Pixel pitch	1.25mm
Resolution	640000 pixels/m²
Lamp bead/IC	COB Full inverted common cathode /professional high refresh IC
Pixel composition	1R1G1B
Module resolution	120*135
Module dimension(mm)	150*168.75
Cabinet resolution	480*270
Cabinet dimension(mm)	600*337.5
Cabinet weight	≤4.3kg/pc
Operating voltage	DC+4.2V
Best viewing distance	≥3.75m
Horizontal view angle	≥178°
Vertical view angle	≥178°
Maintenance method	Front maintenance
Graphics card	DVI/HDMI/DP
Video signal	Compatible with PAL/NTSC/SECAM format, support S-Video; VGA; RGB; Composite Video; SDI; DVI; RF; RGBHV; YUV; YC, etc.
Control mode	Synchronous control
Drive device	Constant current drive
Refresh rate	≥3840Hz
Frame rate	≥60Hz
Scanning method	60S
Brightness	200-600CD /㎡ (adjustable)
Grayscale	12/14/16bit
Contrast	≥100000:1
Attenuation rate (after 3-year work)	≤15%
Brightness adjustment method	0-100% adjustment through supporting software; support automatic/manual, support setting brightness timing adjustment
Computer operating system	WIN98/2000/WINXP/WINVista/WIN7
MTBF	≥20000H
Lifespan	≥150000H
Failed rate	≤1/1000000 and no continuous failed pixels
Software	Professional LED video wall system programming software
Working humidity	10%RH to 90%RH
Operating temperature	-20℃ ~ +60℃
Operating voltage(AC)	90V ~ 270V(50Hz/60Hz)
Average power consumption	≤104W/m²
Maximum power consumption	≤310W/m²
Cabinet specification	Die-cast aluminum cabinet
Brightness uniformity	≥99%
Protection class	Front IP65