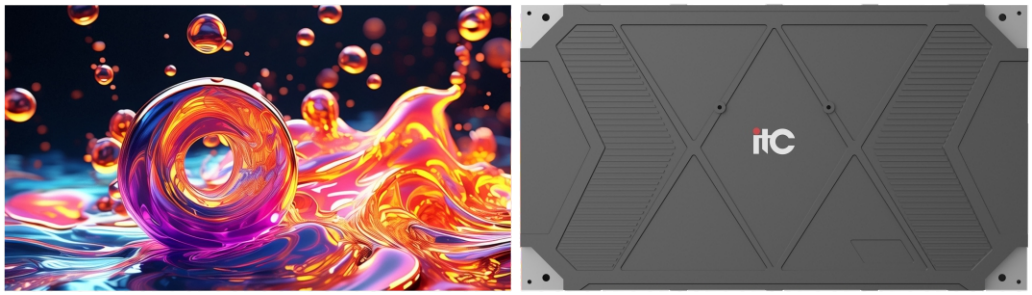
Indoor full color LED video wall

X1.588 (X1.588-PH)



Description

It has the characteristics of seamless, perfect display, long service life, fast frame change speed, high refresh rate, good uniformity, wide viewing angle, high grayscale, and natural color restoration. It is widely used in command and dispatch, security monitoring, video conferencing, studio display, and various indoor conference room displays.

Features

*The display unit is flexible and compact, with flat and curved surfaces and smooth splicing.
*The picture is delicate and realistic, and the grayscale is still excellent under low brightness conditions.
*DC low-voltage power supply, natural heat dissipation, no fan, and zero noise during operation.
*It can be used to monitor and display on-site conditions in real time and play various promotional advertisements.
*It has ultra-high refresh rate, good picture continuity and high picture smoothness.
*Failure only requires maintenance of a single LED pixel or a single module, with low maintenance cost and fast speed.
*Supports picture correction and uses gamma correction technology to achieve point-by-point brightness and color correction.
*Supports intelligent light control, which can intelligently adjust the brightness, improve picture comfort, and save energy.
*Ultra-wide viewing angle display, the display has a larger visual range, and the picture is still clear at any angle.
*It supports ultra-high-definition display and adopts unique image quality enhancement technology to effectively improve image clarity, and the high-speed picture is smooth without ghosting.
*The LED display screen has no plastic bottom shell kit design. The die-cast aluminum box 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 products with plastic bottom shell kits, it can better solve the color drift and ensure that the screen is accelerated due to thermal conductivity. The aging of the screen is reduced and the service life is reduced.
*An industrial-grade precision floating wireless connector is used between the LED display unit module and the unit cabinet. It has the ability to correct the deviation during interlocking, and the connection is more stable. The whole screen seam can be finely adjusted based on the module to avoid the light and dark line effects between modules due to the seam. No signal cables or low-voltage power cables can be seen inside the cabinet, and it can be directly plugged in and out while powered.
*The LED display screen adopts a non-contact magnetic levitation front maintenance design, which allows the front removal of modules, receiving cards, power supplies and other low-voltage components, and has hot-swappable capabilities.
*The LED display switching power supply has PFC function, wide voltage input AC90-270V50Hz/60Hz, which can prevent screen flickering and black screen caused by unstable power grid, power factor 0.95, power efficiency ≥95%@25℃, and has over-current, short-circuit, over-voltage and under-voltage protection functions.

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*LED display chromaticity uniformity is within ±0.001Cx,Cy; LED display pixel center distance relative deviation ≤1%; LED display mean failure recovery time (MTTR) ≤2 minutes.

*The color temperature of the LED display screen is continuously adjustable from 3000K to 20000K. It can be set to multiple levels of white field adjustment such as cold color, warm color, and standard color. 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.

*The PCB of the LED display module adopts surface immersion gold treatment, the board thickness is ≥2mm, the copper thickness is ≥1oz, and the TG is ≥150℃.

*The LED display screen is equipped with FLASH intelligent storage circuit, which can store module production information parameters, operating parameters, and calibration data in the module. When the module is replaced, the calibration data can be automatically read back, etc. The storage capacity is ≥16kb.

*The LED display screen has a single power supply leakage current of ≤0.3mA, which prevents the leakage current formed by multiple power supplies from causing the risk of tripping of the upstream electrical box.

*The LED display has a low blue light mode, and you can select 30%, 40%, and 70% to adjust the blue light output of the display in the control software, effectively reducing the damage of blue light radiation to the eyes.

*It can record the number of times the LED display screen is turned on and off, and the length of time it is used, and can form a data storage period of ≥100 days. It also supports the monitoring of on-site temperature and humidity, and can display data in real time on the control software side, making it convenient for users to understand the on-site screen and environmental temperature and humidity data.

*The LED display has HDR high dynamic range images. The HDR display function achieves a more realistic and vivid image display effect by expanding the dynamic range of the image and increasing the detail information of the bright and dark parts of the image.

Specification

Module parameters	
LED packaging	SMD1212 black light
Physical point spacing	1.588mm
Resolution	396424 points/m²
Lamp beads/IC	Domestic high-quality gold wire/high refresh rate
Light point color combination	1R1G1B
Module resolution	96×216
Module size (width x height) (mm)	152.5×343
Cabinet resolution	384×216
Cabinet size (width x height) (mm)	610×343
Cabinet weight	5.3Kg/pc
Operating voltage	DC +4.2V
Hard connection, fully supports hot plug, which is convenient and fast	
Main parameters	
Optimal viewing distance	≥4.7m
Horizontal viewing angle	≥175°
Vertical viewing angle	≥175°
Maintenance method	Front maintenance
Control method	Synchronous control
Drive devices	Constant current drive
Refresh rate	≥3840Hz
Frame rate	≥60Hz
Scanning method	36S
Brightness	200-800cd/m²
Grayscale	12/14/16bit
Contrast	≥10000:1
Decay rate (three years of operation)	≤15%
Brightness adjustment method	The brightness can be adjusted from 0-100% through the accompanying software; it supports both automatic/manual modes and allows for scheduled brightness adjustments

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Mean time between failures	≥20000H
Life	≥100000H
Noise rate	≤1/100000 and no continuous out-of-control points
software	Professional LED display system programming software
Ambient temperature	Storage -35℃~+85℃
Operating temperature	-20℃~+60℃
Operating voltage (AC)	90V ~ 270V(50Hz/60Hz)
Average power consumption	≤200W/m²
Peak power consumption	≤550W/m²
Installation box specifications	Die-cast aluminum housing
Brightness uniformity	≥99%
Protection level	IP5X
Wireless connectivity	