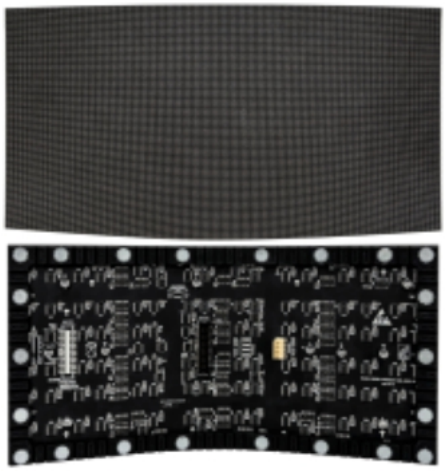
Indoor full-color LED video wall

R2.5(R2.5-G)



Description

Designed with artistic creativity at its core, flexible LED screens demonstrate exceptional flexibility, easily achieving customized design requirements across wide-angle variations in internal and external curvatures, as well as complex structures like cylinders, waves, and ribbons. Compared to traditional rigid modules, these flexible screens incorporate flexibility and wide-angle design concepts, breaking through conventional technical frameworks to create soft and varied curvilinear beauty. Their "flexibility" conquers a wide range of artistic challenges. This not only creates a fantastic visual experience for viewers, but also vividly presents a rich and diverse visual effect.

Features

*The module has a magnetic structure design, and the magnetic columns are welded through patches to ensure the flatness of the module surface;

*The box structure adopts sheet metal sandblasted iron box and unique segmented splicing process, which effectively reduces the screen splicing gap;

*The hollow design of the box allows the heat emitted by the power supply and modules to flow through the air, achieving self-heating;

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

*With ultra-high refresh rate, good picture continuity and high picture smoothness;

*The LED display module can support an inner and outer arc bending angle of 135°;

*The LED display module PCB assembly uses 3M high-performance adhesive that complies with the GB/T 2792-2014 standard. It maintains adhesion in high-temperature environments up to 80°C, eliminates warping and debonding, and ensures long-term stable and reliable performance.

*The bottom shell of the LED display module has 22 strong magnets built in. The magnetic field strength of a single magnet and its matching magnetic base is ≥2000GS. The height of the magnet can be fine-tuned up to 1mm using a special tool to ensure a stable installation and the flatness of the module surface.

*The LED display cabinet has a built-in adjustable curvature mechanism that supports fine-tuning of the curvature by 5mm, providing flexible surface adjustment capabilities to ensure a smooth transition on the display surface.

*LED display color uniformity 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 is continuously adjustable from 1000K to 20000K. It can be set to multiple levels of white field adjustment, such as cool, warm, and standard. 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.

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

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

Indoor full-color LED video wall

R2.5(R2.5-G)

Specification

Module parameters	
LED packaging	SMD2121 black light
Physical point spacing	2.5mm
Resolution	160000 points/m²
Lamp beads/IC	Nationstar Copper Wire/High Refresh Rate
Luminous point color combination	1R1G1B
Module resolution	128*64
Module size (mm)	320*160
Module weight	≤300g/sheet
Box size (mm)	960*960*78+customized
Finished product weight	≤32kg/m²
Operating voltage	DC+4.2V~+5V
Main parameters	
Optimal viewing distance	≥7.5m
Horizontal viewing angle	≥175°
Vertical viewing angle	≥175°
Maintenance method	Front/rear maintenance
Control method	Synchronous control
Drive devices	constant current
Refresh rate	≥4320Hz
Frame rate	≥60Hz
Scanning method	32S
Brightness	200-600cd/m²
Grayscale	12/14/16/18 bits
Contrast	≥10000:1
Decay rate (three years of operation)	≤15%
Brightness adjustment method	Automatic/Manual: 0-100%
Mean time between failures	≥20000H
Life	≥100000H
Noise rate	≤1/100000 and no continuous out-of-control points
Ambient temperature	Storage -35℃~+85℃
Operating temperature	-20℃~+60℃
Operating voltage (AC)	220V±10%/50Hz/60Hz
Average power consumption	≤95W/m²
Maximum power consumption	≤380W/m²
Installation specifications	Simple sheet metal box
Brightness uniformity	≥99%
Protection level	IP5X