Outdoor Full Color LED Video Wall

K2.5 Pro(KP2.5-Z)



Description

The product is based on the all-aluminum shell module design, integrating high brightness, energy saving, safety, and environmental protection, and its heat dissipation performance is particularly outstanding. The minimalist and thin structure not only saves space, but is also easier to install, and can be widely used in a variety of outdoor scenes.

Features

*Waterproof and dustproof, able to resist wind and rain erosion and dust pollution, suitable for various outdoor environments;
*Independent integrated main control box design, the main control and display panel form independent components;
*The aluminum bottom shell design has the characteristics of high flatness, high density and fast heat conduction. It improves the side view modularization problem caused by the easy deformation of the conventional plastic bottom shell after assembly, and has a super high consistency effect under a wide viewing angle outdoors.
*The external test button is integrated with the indicator light function. The green light flashes when the communication is normal. In the absence of communication, you can press the button to enter the self-test mode. The whole machine can be tested without disassembling the module.
*The silent control box and fanless design eliminate the traditional fan, reduce noise and provide a quieter operating environment.
*The color temperature of the LED display screen is continuously adjustable from 100K to 20000K. It can be set to cold, warm, standard and other multi-level white field adjustments. 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 LED display PCB adopts surface immersion gold treatment, board thickness ≥1.2mm, copper thickness ≥1 ounce, TG ≥150℃;
*It has the number of times the LED display screen is turned on and off and the length of use, which can form a data storage cycle 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.
*The LED display has a test button on the back of the cabinet, which can realize red, green, blue and white monochrome display, and scan and display in horizontal and vertical scanning modes. There is no need to remove the front module of the cabinet and press the button inside the cabinet to perform this test function;
*The LED display has a low blue light mode, and you can select 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;
*The LED display module adopts a design that the driver is close to the aluminum bottom shell, and is supplemented by high thermal conductivity silicone grease. All ICs have large-area heat sinks for auxiliary heat dissipation, and more heat exchange with the air, thereby reducing the chip temperature and preventing hardware damage caused by the heat of the IC itself. At the same time, it solves the problem that the color coordinates of the LED red light chip drift due to high temperature, causing the color of the emitted light to change, affecting the display effect;
*The aluminum bottom shell of the LED display module adopts a heat-insulating guide cavity design to enhance air convection. The surface of the aluminum bottom shell is oxidized, with a thin coating, which is fully in contact with the air. Under the action of airflow, rapid heat dissipation is achieved to prevent the performance degradation or device damage of the LED display module due to overheating;

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Specification

Module specifications	
LED packaging	SMD1415
Physical point spacing	2.5mm
Resolution	160000 pixels /m²
Lamp beads/IC	high-quality copper wire/High refresh rate
Glowing point color combination	1R1G1B
Module resolution	64*256
Module size (mm)	160*640
Cabinet resolution	256*256
Cabinet size (mm)	640*640*92.5
Cabinet weight	≤15Kg/pc
Operating voltage	DC+4.5V~+5V

Main specifications

Optimal viewing distance	≥7.5m
Horizontal viewing angle	≥175°
Vertical viewing angle	≥175°
Maintenance method	Rear maintenance
Control method	Synchronous control
Drive devices	Constant current
Refresh rate	≥4320Hz
Frame rate	≥60Hz
Scanning method	16S
Brightness	≥4500CD/m²
Grayscale	12/14/16/18bit
Contrast	≥10000:1
Decay rate (three years of operation)	≤15%
Brightness adjustment method	0-100% adjustment through supporting software; support automatic/manual, support setting brightness timing adjustment
Computer operating system	WIN7 and above
Mean time between failures	≥20000H
Life	≤100000H
Noise rate	≤1/100000 and no continuous out-of-control points
Ambient temperature	Storage -35°C~+60°C
Operating temperature	-20°C~+50°C
Operating voltage (AC)	220V±10%/50Hz/60Hz
Average power consumption	≤250W/m²
Maximum power consumption	≤750W/m²
Box specifications	Aluminum box
Brightness uniformity	≥99%
Protection level	Front IP65/Rear IP65