All-in-one LED video wall

G138 (WG138-G)

Description

An LED display device with a split screen and system design, with highly integrated functions, long service life, fast frame change speed, high refresh rate, good uniformity, wide viewing angle, high grayscale, etc. It is suitable for university lecture halls, academic lecture halls, large, medium and small university conference rooms and other places.

Features

*The whole machine adopts an ultra-narrow frame, and the aluminum alloy frame adopts an anti-collision rounded corner design, with seamless connections at the corners, making the product and people safer.
*The module inside the screen has a bottomless design. The module fits the box, and the lamp beads dissipate heat quickly and evenly, effectively reducing heat radiation. Users will not feel "burned", and the immersive visual experience is better. There is no fan structure, and the noise of the whole machine is ≤10dB.
*The software is developed and customized based on the Android system, with three major functions: browsing, sharing, and collaboration, and rich application scenarios. It has built-in WPS, clock, welcome interface, calendar and other application software, and can add third-party APP applications.
*It has built-in hidden antennas (WIFI, AP, Bluetooth), which can realize Wi-Fi wireless Internet access and AP wireless hotspot transmission at the same time. It has Bluetooth 5.0 and can connect to common peripherals such as Bluetooth remote control, Bluetooth mouse, Bluetooth keyboard, Bluetooth speakers, etc.
*It has a one-button eye protection mode. When it is turned on, it can effectively reduce the damage of harmful high-energy blue light, improve the comfort of viewing, and protect the eyes.
*It has a preset high-definition background map. When the network cable is disconnected or there is no video source signal input, the preset picture can be displayed to ensure that there is no black screen and the picture is seamlessly connected.
*The LED display screen adopts a "jawless" design, with a border of ≤3.5mm on all sides and a screen-to-body ratio of ≥99%.
*The LED display unit module and the unit box use an industrial-grade precision floating wireless connector, which has the ability to correct the deviation, and the connection is more stable. The whole screen seam can be finely adjusted in units of modules to avoid the light and dark line effect between modules due to the seam. The signal cable and low-voltage power cable cannot be seen inside the box, and it can be directly plugged in and out with power.
*The LED display switch power supply has a PFC function, a power factor of 0.95, a power efficiency of ≥91%@25℃, and has over-current, short-circuit, over-voltage, and under-voltage protection functions; it eliminates the phenomenon of flashing and black screen caused by unstable power grid.
*The LED display screen can be adjusted in multiple levels of brightness from 0 to 100% through the remote control or mouse sliding menu.
*The entire LED display screen can be powered by a single power cord, which can be powered by AC power. It has distributed power supply measures and does not require special preparation of other power supply accessories such as power boxes and distribution cabinets.
*The PCB of the LED display module adopts surface immersion gold treatment, with a board thickness of ≥2.0mm, a copper thickness of ≥1 ounce, and a TG of ≥150℃.
*The LED display screen uses Type-C to replace traditional network cables for signal transmission, and uses 5G high-bandwidth and low-latency transmission technology. A single Type-C can carry 2.6 million pixel data.
*The LED display screen has a one-button low-power mode, which retains the user's current process and enters a deep sleep state. In low-power mode, the power consumption of the entire machine is ≤0.6W.
*The LED display screen has infrared remote control sleep/wake-up and low-power functions, and the effective distance of infrared remote control startup is 5m. At the same time, the remote control has the functions of page turning, signal source selection switching, brightness, and volume control. The menu key has the function of opening the system and application menus, and the direction keys have the functions of operating menus and options up, down, left, and right.
*The LED display screen has 4 scene modes: standard, soft, cinema, and video. At the same time, the brightness, saturation, contrast and other parameters can be customized. Users can choose different modes for different conference application scenarios to ensure that large-screen document presentations, video playback, and remote conferences can all present excellent display effects.
*The LED display screen has Windows, MacOS, iOS, and Android multi-platform terminals that connect to the display screen hotspot for 4-screen wireless projection. The Windows PC terminal needs to use a hardware wireless projection device.
*The LED display screen has 2.4G and 5G dual-band WIFI access. The built-in WIFI6 transmitter module can quickly create 2.4G and 5G dual-band wireless hotspots to connect and interact with third-party devices. When third-party devices are connected and interacted, they will not interfere with the main screen network. The wireless unobstructed effective use distance can reach 8m.
*Optional wall brackets, floor brackets, hanging brackets and other installation methods.

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Specification

Processor and storage devices	
System	Android 11 version
CPU	1.8G 64-bit quad-core processor
GPU	MaLi G52
Storage memory	32G
Running memory	4G
Technical parameters	
Display size	138 inches
Display resolution	1920*1080 pixels
Net display size (width x height) (mm)	3050×1715
Size including frame (width x height) (mm)	3057×1722
LED packaging	SMD1212 black light
Physical point spacing	1.588mm
Resolution	396424 points/m²
Lamp beads/IC	Nationstar copper wire/High refresh rate
Glowing point color combination	1R1G1B
Module resolution	192*108
Module size (mm)	305*171.5
Cabinet resolution	384*216
Box size (mm)	610*343
Box weight	≤5.3Kg/pc
Operating voltage	DC+4.2V
Optimal viewing distance	≥4.7m
Horizontal viewing angle	≥175°
Vertical viewing angle	≥175°
Maintenance method	Front maintenance
Drive devices	Constant current drive
Refresh rate	≥4200Hz
Frame rate	≥60Hz
Scanning method	64S
Brightness	200-800CD/m²
Grayscale	12/14/16/18bit
Contrast	≥10000:1
Decay rate (three years of operation)	≤15%
Brightness adjustment method	0-100%
Mean time between failures	≥20000H
Service 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)	AC90-270V 50Hz/60Hz
Average power consumption of the whole machine	≤750W
Maximum power consumption of the whole machine	≤3000W
Installation box specifications	Die-cast aluminum housing
Total weight	150Kg (without mounting bracket)
Brightness uniformity	≥99%
Protection level	IP5X
Device interface	
Video interface	HDMI*1 (video input), HDMI*1 (LOOP output)
Audio port	Audio output interface*1, SPDIF optical digital audio interface*1
Functional interface	USB 3.0*1, USB 2.0*1, RJ45 (Gigabit Ethernet port), Type-C (proprietary protocol), 4P aviation plug (proprietary protocol, control switch screen)
Wireless interface	WIFI, Bluetooth, Infrared
Central control serial port	RS232 interface*1 (RJ45 type, baud rate 115200bps)