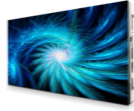




# Indoor Full Color LED Video Wall

## B1.667(TV-PM166-YX)



### Description:

It has the characteristics of seamless splicing, perfect display, long service lifespan, fast frame changing speed, high refresh rate, good uniformity, wide viewing angle, high grayscale, natural color reproduction, etc. It is widely used in command and dispatch, security monitoring, video conference, studio display, and various conference display occasions.

### Feature:

- \*The LED display screen adopts CNC one-piece die-cast aluminum cabinet, and the selected materials meet the standard of "GB/T 15115-2009 Die-cast Aluminum Alloy".
- \*It can withstand  $\geq 5000N$  tension and  $\geq 45000N$  pressure.
- \*The surface of the LED display PCB board has moisture-proof/dust-proof/anti-static/anti-oxidation capabilities.
- \*The LED display screen adopts a three-axis (X, Y, Z) adjustment mechanism, which can realize the arbitrary adjustment of the screen's up and down, left and right seams and front and back flatness, with splicing flatness  $\leq 0.1mm$ , misalignment value  $\leq 0.1mm$ , and gap  $\leq 0.1mm$ .
- \*There is no fan in the LED display cabinet. The LED lights on the front of the product are exposed to the air and dissipate heat through environmental radiation and other methods, and the back is dissipated through the cabinet body.
- \*The LED display cabinet is in direct contact with the module to improve heat dissipation without adding a plastic bottom shell; the cabinets are connected in a hidden way, and no signal lines or low-voltage power lines can be seen on the back of the cabinet.
- \*The LED display module has a magnetic structure, user-level module front maintenance, and can be disassembled and installed from the front. The light board, receiving card, power supply, and module can all work normally after multiple hot-swap tests.
- \*The LED display uses a maskless design, the front of the screen is matte black, and the reflectivity of the LED light board is  $\leq 2\%$ .
- \*To ensure the playback effect, the LED display uses a constant current driver chip, dynamic scanning, synchronous control, and current gain adjustment level  $\geq 8$  bits.
- \*The PCB of the LED display module adopts surface immersion gold treatment, the board thickness is  $\geq 2mm$ , the copper thickness is  $\geq 1$  ounce, and the TG is  $\geq 150$ .
- \*The LED display module connector, signal simple cow, and power socket are gold-plated to effectively improve the signal transmission and DC power supply stability. The gold plating thickness is  $\geq 2\mu m$ .
- \*When the LED display is not used for a long time, it can be displayed gradually from 10% to 100% brightness to eliminate the moisture inside the LED lamp to protect the LED lamp.
- \*The LED display supports HDR system card to achieve high dynamic image display and 22-bit fine grayscale; it is equipped with 3D video processor and 3D picture effect display at frame rate of 120Hz.
- \*The LED display supports the storage of correction data in the module, and the correction data can be automatically read back when the module is replaced.
- \*The contact current value of the LED display shall not exceed 3.5mA.
- \*It can be used to monitor the scene 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.
- \*Faults only require maintenance of a single LED pixel or a single module, with low maintenance cost and fast speed.
- \*Supports picture correction, adopts gamma correction technology, and can realize point-by-point brightness and color correction.
- \*Supports intelligent light control, which can intelligently adjust the brightness, improve the picture comfort, and save energy and power.
- \*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.
- \*Supports ultra-high-definition display, adopts unique picture quality enhancement technology, effectively improves image clarity, and high-speed picture is smooth without ghosting.

### Specifications:

|                                |   |
|--------------------------------|---|
| Model                          | B1.667  |
| LED encapsulation              | SMD1010 black light   |
| Pixel pitch                    | 1.667mm   |
| Resolution                     | 359856 pixels/m <sup>2</sup>  |
| Lamp bead/IC                   | Nationstar copper wire / high refresh rate  |
| Pixel configuration            | 1R1G1B  |
| Cabinet resolution             | 240*180   |
| Cabinet size (mm)              | 400*300   |
| Cabinet weight                 | 5kg/pc  |
| Working voltage                | DC +4.2V  |
| Best viewing distance          | $\geq 5m$   |
| Horizontal viewing angle       | $\geq 160^\circ$  |
| Vertical viewing angle         | $\geq 160^\circ$  |
| 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                   | $\geq 3840Hz$   |
| Frame rate                     | $\geq 60Hz$   |
| Scanning method                | 30S   |
| Brightness                     | 200~800CD/m <sup>2</sup> (adjustable)   |
| Grayscale                      | 12/14/16bit   |
| Contrast                       | $\geq 10000:1$  |
| Decay rate (after 3-year work) | $\leq 15\%$   |
| Brightness adjustment method   | 0-100% adjustment through supporting software; support automatic/manual, support setting brightness timing adjustment |
| Computer operating system      | WIN98/2000/WIN XP/WIN Vista/WIN7  |
| MTBF                           | $\geq 10000H$   |
| Lifespan                       | $\geq 100000H$  |
| Failed rate                    | $\leq 1/10000$ and no continuous failed pixels  |
| Software                       | Professional LED video wall system programming software   |
| Storage temperature            | -35°C~+85°C   |
| Working temperature            | -10°C~+40°C   |
| Working voltage (AC)           | 220V $\pm 10\%$ /50Hz or 110V $\pm 10\%$ /60Hz  |
| Average power consumption      | 242W/m <sup>2</sup>   |
| Maximum power consumption      | 725W/m <sup>2</sup>   |
| Cabinet material               | Die-cast aluminum cabinet   |
| Color uniformity               | $\geq 98\%$   |
| Protection class               | IP5X  |