

MP Series

LED Wall Controller

MP1600

INTRODUCTION

A super-large load LED display controller, the maximum load of a single unit is 4096x2160@60Hz, the resolution can be customized, and the widest or highest output can reach 7680 pixels, which meets the on-site configuration requirements for ultra-long and ultra-large screens.

And it has the switch between the sending card mode and the photoelectric conversion mode, which can be used as a traditional sending device or as a photoelectric converter. Flexible usage and super high cost performance meet more diverse market demands. Stable and reliable, powerful, dedicated to providing users with the ultimate visual experience, the main application and rental and fixed installation fields, such as concerts, live broadcast evening parties, monitoring centers, Olympic Games, stadiums and sports centers, etc.

MP1600 serves as the interface between the user and the LED display, allowing for the display of various types of content such as text, images, and videos. The controller receives the input data and converts it into signals that can be displayed on the LED display. LED display controllers can come in various forms, from simple single-chip controllers to more advanced controllers that feature integrated graphics processors and support for a wide range of input formats. They can be designed for specific applications or be more general-purpose, allowing for flexibility in their use. LED display controllers are an essential component in the creation of LED displays, enabling the display of dynamic content and enhancing the visual impact of various applications.



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FEATURES

- 4K UHD resolution
- 4096×2160 / 3840×2160@60Hz
- 4K×2K / 8K×1K point-to-point display
- Single 16 network ports / loading up to 9.2 million pixels
- 10G optical fiber long-distance transmission on the screen, reducing the background complexity and improving the stability factor
- 3D mode, quick switch
- Support quick touch screen and advanced touch screen, built-in receiving card configuration file, hardware brightness adjustment
- Intelligent LCD monitoring interface, real-time tracking status, fast troubleshooting
- Brightness and contrast control: The controller have the ability to adjust the brightness and contrast of the display.
- Video input support: The controller support various video inputs such as HDMI, VGA, and DVI.
- Image and video processing: The controller have built-in processing capabilities to enhance the display quality, such as color correction, noise reduction, and edge enhancement.
- Multi-screen support: The controller be able to support multiple screens, which may be arranged in different configurations such as horizontal, vertical, or tiled.
- Compatibility: The controller compatible with the LED display hardware and software, as well as any third-party software or devices that may be used in the application.

RELEVANT FUNCTION INDICATION

- 4K UHD resolution
- 4096×2160 / 3840×2160@60Hz
- 4K×2K / 8K×1K point-to-point display
- Single 16 network ports / loading up to 9.2 million pixels



One MP1600 can replace four MP700

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4K UHD

A single unit features a loading capacity of up to 4096×2160@60Hz. It supports any custom resolutions with the maximum width or height up to 7680 pixels, meeting the on-site configuration requirements of ultra-long or ultra-wide LED displays.



Ultra Large Capacity
Resolution:
4K×2K@60Hz
Maximum width up to 8K



Multi Outputs
Neutrik EtherCON×16
OPT Ports×4



Multiple Video Inputs
1×DP1.2
4×DVI

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Sending card mode & the photoelectric conversion mode

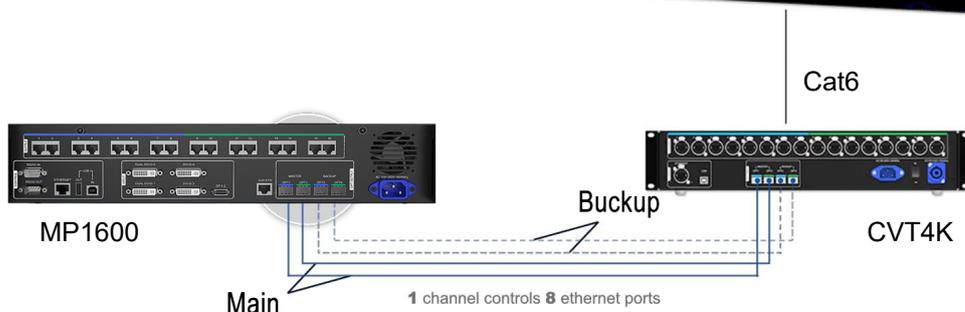
The function of the photoelectric converter is also the conversion between photoelectric signals. It is mainly used as a carrier for transmission between switches and devices. Compared with transceivers, optical modules are more efficient and safer.

The sending card mode is a device that converts short-distance electrical signals and long-distance optical signals. The received optical signal is converted into an electrical signal



Optical transmission for long distance

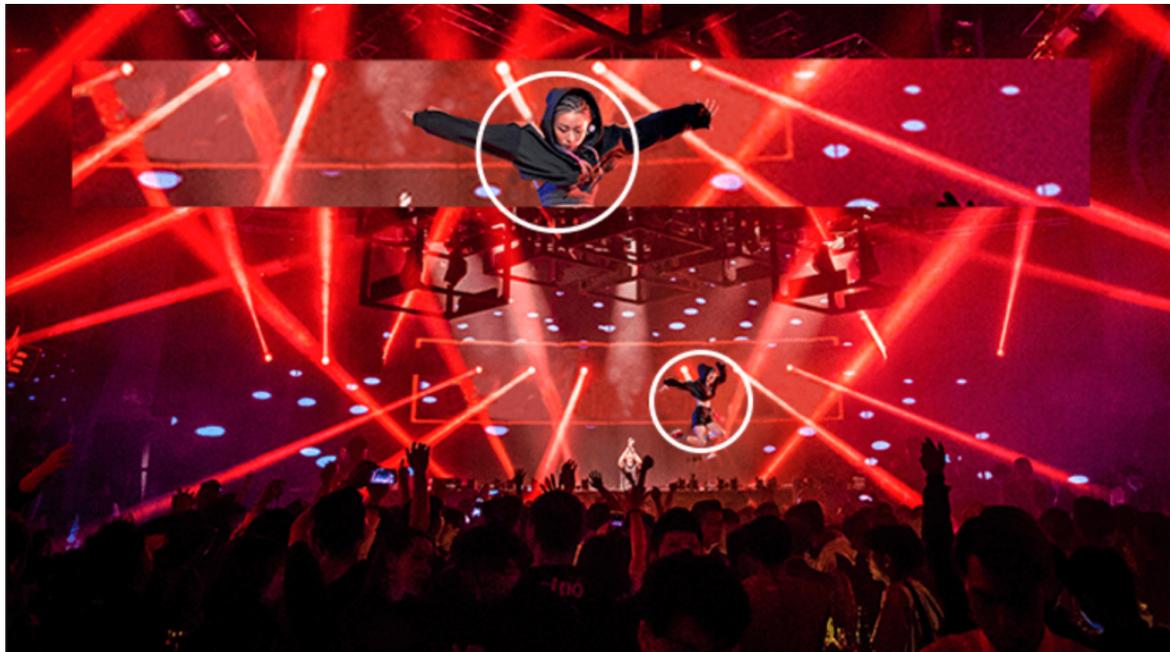
10G bandwidth optical fiber, Up to 10km long-distance transmission



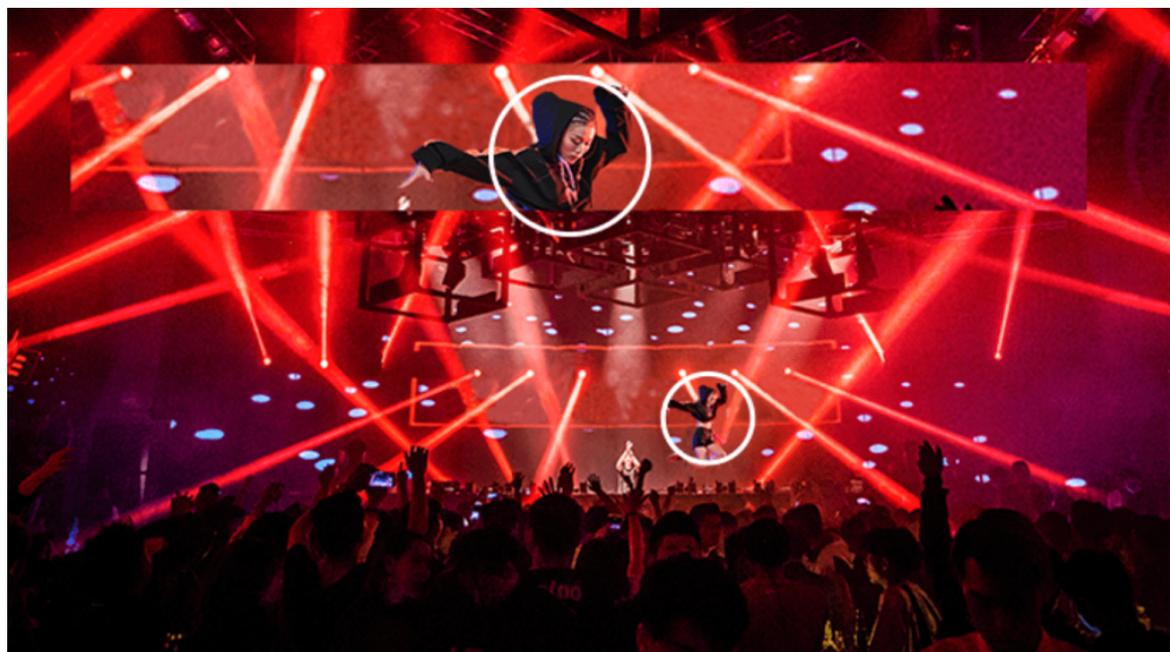
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Low latency

Image latency can be a very common issue with video transmission, but the latency of MP1600 is less than 1ms, providing a smooth viewing experience.



High latency



Low latency(less 1ms)

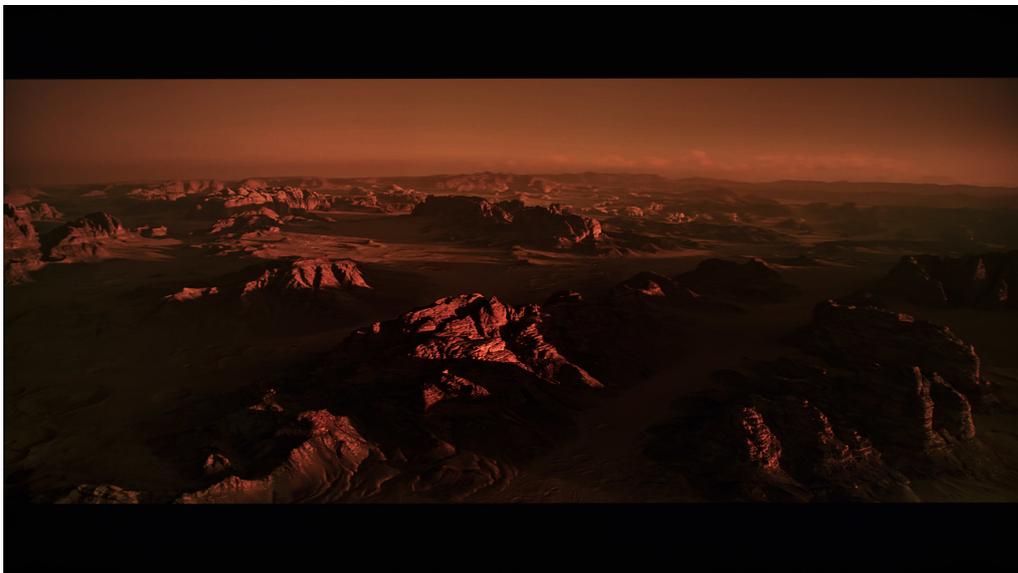
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10bit color depth

Higher color depth means more shades of color.



8bit



10bit

During scenes with dynamic lighting changes, light, shadow, and color are all expressed in beautiful detail, making the image more real, accurate, and layered.

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SPECIFICATIONS

Product Name	MP1600
Maximum out load	9.2million pixel
Width and height maximum	Widest: 7680 pixel Highest:7680 pixel
Input interface	DP 1.2x1 Single Link DVIx4 or Dual Link DVIx2
Color bit depth	12bit/10bit/8bit
Output interface	RJ45x16 OPTx4(Options)
LCD panel	Support
Quick setup	Support
Independent gama	Support
3D	Support
Control method	TCP/IP USB R5232

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