

MCTRL4K LED DISPLAY CONTROLLER

The MCTRL4K is an LED display controller with an ultra-large loading capacity developed by Novastar. A single unit features a loading capacity of up to 4096x2160@60Hz. It supports any custom resolutions with a width or height up to 7680 pixels, meeting the on-site configuration requirements of ultra-long or ultra-wide LED displays. Using the Multi-Card mode, the MCTRL4K can be split into two independent controllers and can play back signals from two input sources. The MCTRL4K comes with many industry-leading technologies such as HDR, individual gamma adjustment for RGB, low latency, 3D, and pixel level brightness and chroma calibration. These technologies improve the display brightness, grayscale and color performance, presenting more uniform, detailed and vivid images. The MCTRL4K is stable, reliable and powerful, dedicated to providing users with an ultimate visual experience. It can be mainly used in the rental and fixed installation applications, such as concerts, live events, security monitoring, Olympic Games, various sports centers, and much more.



MCTRL4K

LED DISPLAY CONTROLLER

PRODUCT DETAILS

KEY FEATURES

Ultra-large loading capacity of up to 4096x2160@60Hz

Multi-Card mode to play back signals from 2 different input sources

High bit-depth inputs: 8bit/10bit/12bit

HDR10 and HLG supported

3D function supported

Individual gamma adjustment for RGB

Automatic color range conversion from RGB limited to RGB full

Low latency

Inputs with decimal frame rates

Pixel level brightness and chroma calibration

Supports ultra-high resolution settings with NVIDIA graphics card

Screen configuration via web control page

Cascading of up to 10 units

SPECIFICATIONS

1x DP 1.2 input with max. resolution of 4096x2160@60Hz and custom resolutions supported

1x HDMI 2.0 input with max. resolution of 4096x2160@60Hz and custom resolutions supported

2x DL-DVI inputs, each with a max. resolution of 3840x1080@60Hz and custom resolutions supported

16x Neutrik Gigabit Ethernet ports with max. capacity of a single port of 650.000 pixels for 8-bit inputs, and 320.000 pixels for 10-bit inputs

4x 10G optical ports

OPT 1 and 2 for data transmission, OPT 3 and 4 for copy

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1x Ethernet control port for computer connection

1x USB Type-B input port for cascading units, or PC connection for debugging

1x USB Type-A output port for cascading units

1x Genlock port + Loop

Input voltage 100V~240V - 50/60Hz

Power consumption 30W

Working temperature from -20°C to +60°C

Working humidity from 10% RH to 90% RH, non condensing

Product size 482.6 × 372 × 88.1 mm (19 × 14.64 × 3.47 in)

Product weight 4.6 kg (10.14 lbs.)