



Specifications

Independent Controller MCTRL R5

Rev1.0.0 NS1601000126

Overview

MCTRL R5 is an independent master controller developed by NovaStar with an epoch-making significance. The loading capacity of a single unit is up to 3840x1080@60Hz, which is able to meet the on-site requirements of oversized LED displays. MCTRL R5 makes it easier to create stunning rotation visual effects for users.

MCTRL R5 also can be used as two independent Full-HD controllers, which makes it more flexible to load LED displays.

The design of MCTRL R5 is innovative. It allows to configure a display at any time without PC.

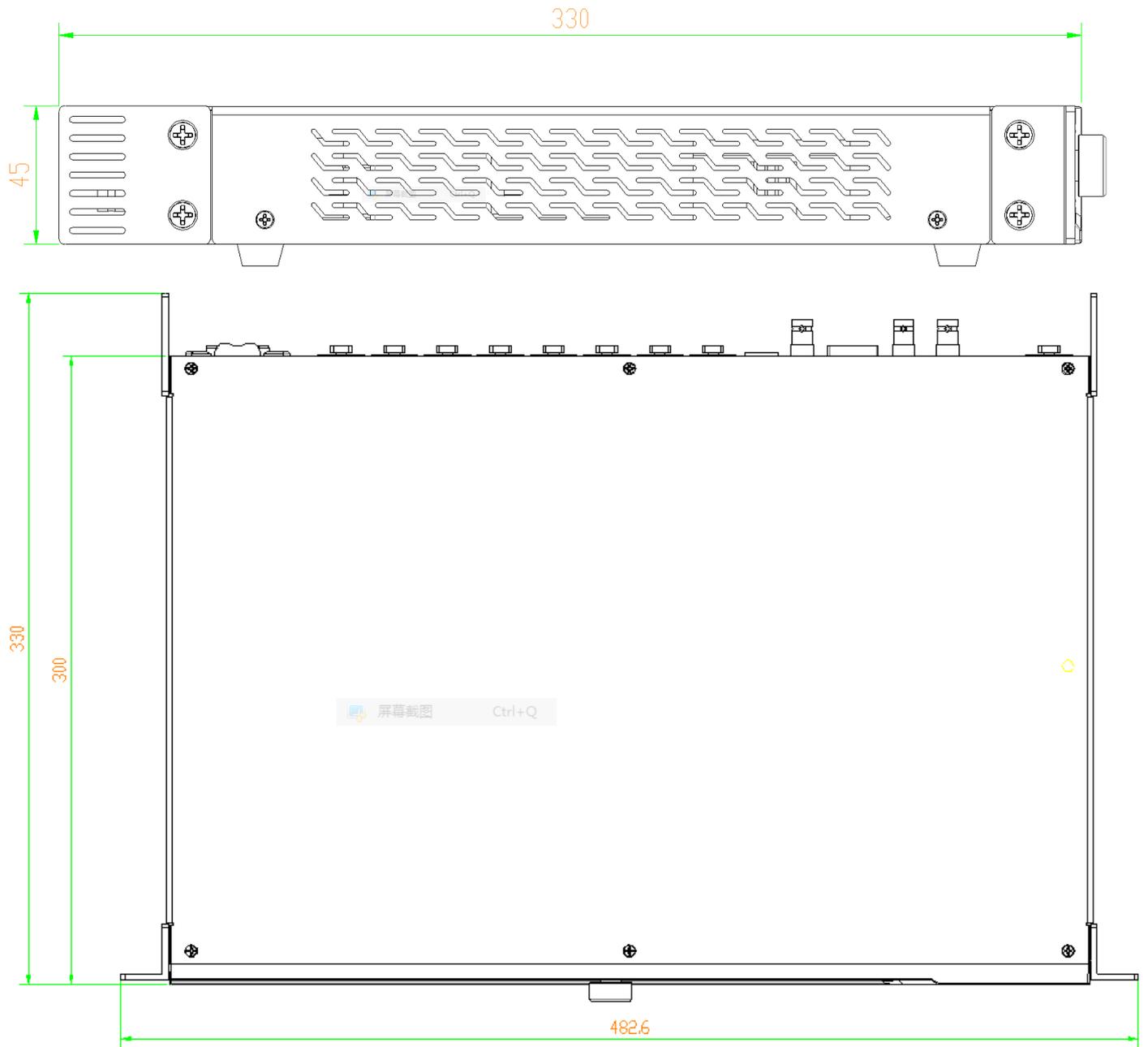
Various video inputs such as HDMI, dual-link DVI,SDI etc. and outputs of 8-channel Neutrik Gigabit Ethernet ports as well as 2-channel optical fiber ports are supported.

Features

- 1) Complete video input interfaces: 6G SDI, HDMI1.4 x 1, dual-link DVI x 1;
- 2) Supports 8-channel Neutrik Gigabit Ethernet outputs and 2-channel optical fiber outputs and maximum loading capacity of a single unit up to 3840x1080@60Hz;
- 3) Image rotation can be realized at any area in the screen with any angle. It will much easier with cabinet, ports and screen rotation operation.
- 4) Innovative design to enable smart configuration which has greatly shortened the time for stage preparation;

- 5) NovaStar's G4 engine to create stable and flicker-free pictures without scanning lines, and bring smooth images with a good sense of layering;
- 6) Supports NovaStar's latest pixel-by-pixel calibration technology, the process of which is fast and efficient;
- 7) Enables white balance calibration and color gamut mapping based on the different features of LEDs on the display to ensure the real restoration of color;
- 8) Screen configuration can be done at any time without PC;
- 9) Manual adjustment of screen brightness, which makes it much easier and quicker;
- 10) Multiple controllers are able to be cascaded for uniform control.

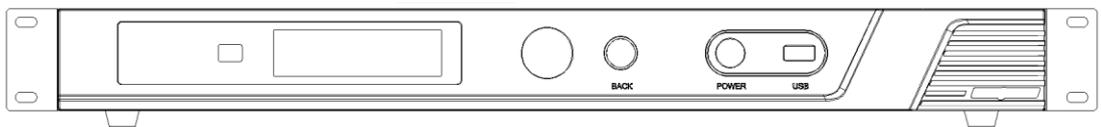
Dimensions



Dimensions of MCTRL R5 (mm)

Appearance

Front panel

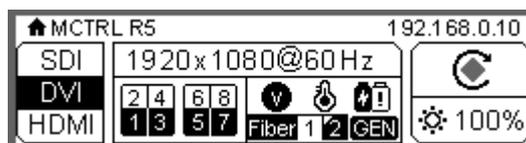


Power button;

Press the button for startup. After startup, press and hold the button for 4~5 seconds to power off.

USB interface for connecting USB drives.

③: Operation screen



The top section of the screen displays product name (customizable) and its IP address. The meanings of other sections are described as below:

- 1) Input status of signal source. Highlight indicates it has signal.
- 2) Current input source and its resolution, frame rate.
- 3)Status, the meanings of each status icon are introduced like voltage, temperature and dual power management and etc.
- 4) Connection status of Ethernet ports. Highlight indicates that the connection is available and the port works as master control. Mark on the upper left corner of the icon indicates that the connection is

available and the port is in redundancy state.

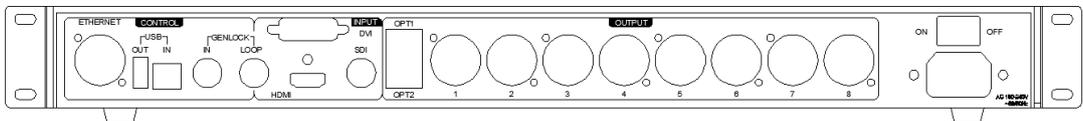
5) Connection status of optical fiber ports. Blue indicates that the connection is available and the fiber port works as master control while gray indicates the port is not connected or the connection is unavailable. Mark on the upper left corner of the icon indicates that the connection is available and the port is in redundancy state.

6) Rotation status of the screen. Whole circle and square combination icon indicates no rotations. Half circle with diamond combination icon indicates there are rotation settings in your screen.

④: Knob, Pressing the knob indicates Enter or OK, rotating the knob allows us to select or adjust.

⑤: BACK: Back to the previous menu.

Rear panel



Inputs	
SDI	6G SDI interface
HDMI 1.4	HDMI 1.4 interface
DUAL DVI	Dual-link DVI interface
Outputs	
1~8	8-channel Neutrik Gigabit Ethernet outputs
OPT1~2	2-channel optical fiber outputs
Control	
ETHERNET	Control interface
USB	IN: cascade input or connecting to PC for communication OUT: cascading next unit
GenLock	

IN	Genlock type: Blackburst Genlock synchronous signal, making sure the pictures on LED display are synchronous with external Genlock source.
LOOP	Genlock loop output
Power supply	
AC 100-240V ~ 50/60HZ	AC power interface

Specifications

Inputs		
Port	Qty	Resolution specifications
SDI	1	6G standard Max. supported resolution:3840×1080@60Hz, Max. width and height are 3840(downward compatibility)
HDMI	1	HDMI 1.4 standard Max. supported resolution:3840×1080@60Hz Max. width and height are 3840 (downward compatibility)
Dual-link DVI	2	VESA standard, max. supported resolution: 3840x1080@60Hz and 3840×2160@30Hz (downward compatibility)
Outputs		
Port	QTY	Resolution specifications
RJ45	8	Neutrik Gigabit Ethernet port
OPT	2	Optical fiber port, single mode and double fiber, LC port, 1310mm

		<p>OPT1 is used for transferring the data of port 1-8</p> <p>OPT2 is the backup channel of OPT1</p> <p>Either Gigabit Ethernet port or optical fiber port can be used at the same time. Two types of ports cannot be used to connect devices simultaneously.</p>
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Control		
Port	Qty	Notes
ETHERNET	1	Control interface
USB	2	Control interface of upper computer and cascading interface

Overall Specifications	
Input power	AC 100-240V, 50/60Hz
Overall power consumption	25W
Operating temperature	-20~60°C
Dimensions(L×W×H)	482.6×330×45 (mm)
Weight	4.6kg