



## Introduction

Developed by NovaStar, the MCTRL R5 is the first independent controller that supports rotation function. With up to 3840×1080@60Hz loading capacity of a single unit, it can support any custom resolution within this range as required, thus meeting the on-site configuration requirements of extra-long or extra-large LED displays.

Working with the A8s or A10s, the MCTRL R5 supports free screen configuration on SmartLCT, presenting full rotation of the display screen at any angle, adding diversity to images, and bringing different visual experience to users.

The MCTRL R5 is mainly applied to concert control centers, live events, security monitoring, Olympic Games and various sports centers.

## Features

- Provides complete input connectors, including 1 × 6G-SDI, 1 × dual-link DVI and 1 × HDMI 1.4.
- Supports 8 × Gigabit Ethernet ports and 2 × fiber optical outputs.
- Supports rotation of LED screens at any angle.
- Adopts innovative architectural design to enable smart configuration, which can greatly shorten the stage preparation time.
- Adopts NovaStar G4 engine to realize a perfect image display with no flickering and scanning lines, but fine quality and good sense of depth.
- Supports NovaStar's latest pixel level calibration technology with a fast and efficient process.
- Implements white balance calibration and color gamut mapping to ensure colors are faithfully reproduced.
- Supports screen configuration at any time without a PC.
- Supports easy and quick manual adjustment of screen brightness.
- Supports hardware upgrade via USB on the front panel.
- Supports cascading multiple controllers for uniform control.

## Rear Panel



No.	Name	Description
①	Indicator <b>R5</b>	Blue always on: Normal Red on: Alarm Orange on: No signal Blue breathing: Standby
②	LED screen	Displays the menu.
③	Knob	Pressing the knob enters a menu or confirms an option or operation, while rotating the knob selects a menu item or adjusts a parameter.
④	<b>BACK</b>	Returns to the parent menu.
⑤	<b>POWER</b>	Pressing it powers on the device, while holding it down for 4–5 seconds powers off the device.
⑥	USB port	Connects to the USB drive for firmware upgrade.

## Rear Panel

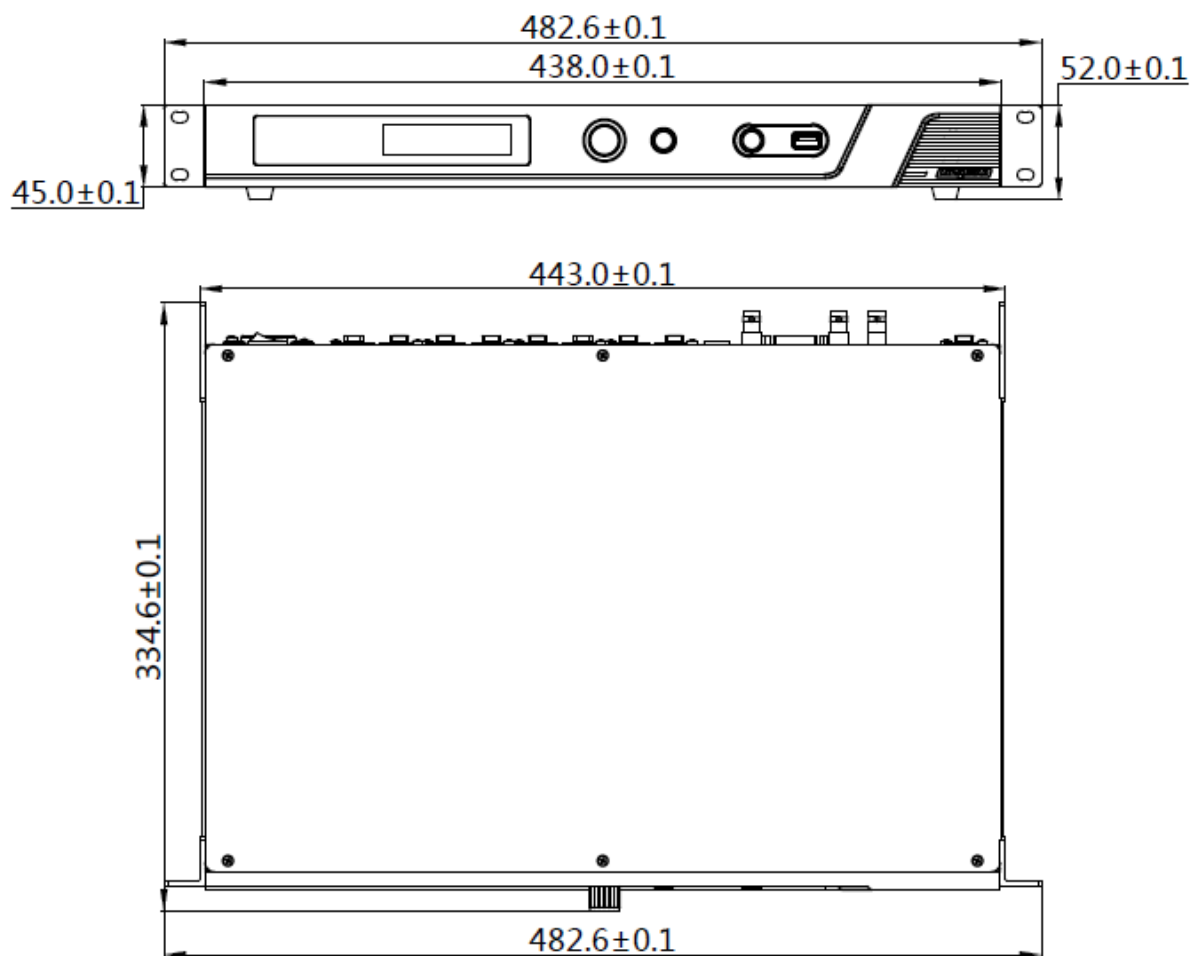


Input	
SDI	6G-SDI connector
HDMI	HDMI1.4 connector
DVI	DVI connector
Output	
1–8	8 × Neutrik (NE8FBH) Gigabit Ethernet outputs
OPT1–2	2 × Fiber optical outputs OPT1 corresponds to Ethernet ports 1–8. OPT2 serves as the backup for OPT1.
Control	
ETHERNET	For PC connection
USB IN	Input port for cascading devices, or for PC connection
USB OUT	Output port for cascading devices
GENLOCK	
IN	GENLOCK type: Blackburst. It is the GENLOCK synchronization signal which is used to ensure synchronization between the LED screen display and external GENLOCK source.
LOOP	GENLOCK loop output
Power Connector	
AC 100-240 V–50/60 Hz	AC power input

Note: Type-A USB port is prohibited from being connected to the upper computer directly.

## Dimensions

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Unit: mm

## Specifications

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Input Voltage	AC 100-240 V 50/60 Hz
Rated Power Consumption	25 W
Operating Temperature	-20°C–60°C
Operating Humidity	10% RH–90% RH
Dimensions	482.6 mm × 334.6 mm × 52.0 mm
Weight	4.3 kg
Certifications	<ul style="list-style-type: none"><li>• FCC</li><li>• RoHS</li><li>• UL&amp;CUL</li><li>• EMC</li><li>• LVD</li><li>• CB</li><li>• IC</li></ul>
Packing	<p>Each MCTRL R5 unit is equipped with a suitcase, an accessory box and a large carton.</p> <p>Packing dimensions:</p> <p>Suitcase: 550 mm × 400 mm × 175 mm, white cardboard box printed with <b>NOVASTAR</b>, one unit in a suitcase.</p> <p>Accessory box: 405 mm × 290 mm × 48 mm, white cardboard box printed with <b>Accessory Box</b>.</p> <p>Accessories include 1 × power cord, 1 × Ethernet cable, 1 × USB cable, 1 × HDMI cable and 1 × DP cable.</p> <p>Carton: 550 mm × 400 mm × 175 mm, craft paper box printed with <b>NOVASTAR</b>.</p> <p>Packing rules: Product and accessory box (containing related cables) packed in the suitcase and the suitcase packed in the large carton.</p>