



Introduction

The SC-UHD104M is Starview's new all-in-one controller that integrates video processing, video control and LED screen configuration into one unit. Integrated configuration software (Novastar's software), it enables richer image mosaic effects and easier operations.

The SC-UHD104M supports a variety of video signals, Ultra HD 4K×2K@60Hz image processing and sending capabilities, as well as up to 10,400,000 pixels.

Thanks to its powerful image processing and sending capabilities, the SC-UHD104M can be widely used in applications such as stage control systems, conferences, events, exhibitions, high-end rental and fine-pitch displays.

Features

- Industry-standard input connectors
 - 2x 3G-SDI
 - 1x HDMI 2.0
 - 4x SL-DVI
- 16 Ethernet output ports load up to 10,400,000 pixels.
- 3 independent layers
 - 1x 4K×2K main layer 2x 2K×1K PIPs (PIP 1 and PIP 2)
 - Adjustable layer priorities
- DVI mosaic

Up to 4 DVI inputs can form an independent input source, which is DVI Mosaic.

- Decimal frame rate supported

Supported frame rates: 23.98 Hz, 29.97 Hz, 47.95 Hz, 59.94 Hz, 71.93 Hz and 119.88 Hz.

- 3D

Supports 3D display effect on the LED screen. The device output capacity will be halved after the 3D function is enabled.

- Personalized image scaling

Three scaling options are pixel-to-pixel, full screen and custom scaling.

- Image mosaic

Up to 4 devices can be linked to load a super large screen when used together with the video distributor.

- Easy device operation and control through V-Can
- Up to 10 presets can be saved for future use.
- EDID management

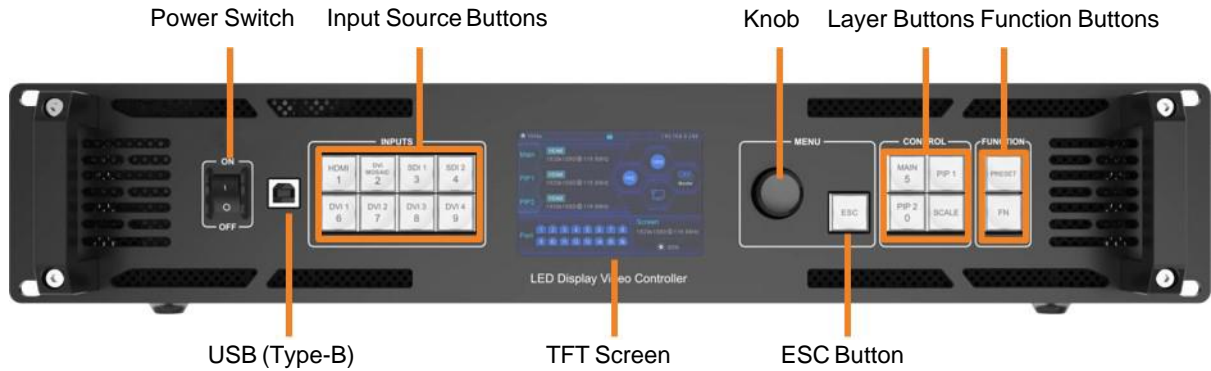
Custom EDID and standard EDID supported

- Device backup design

In backup mode, when the signal is lost or the Ethernet port fails on the primary device, the backup device will take over the task automatically.

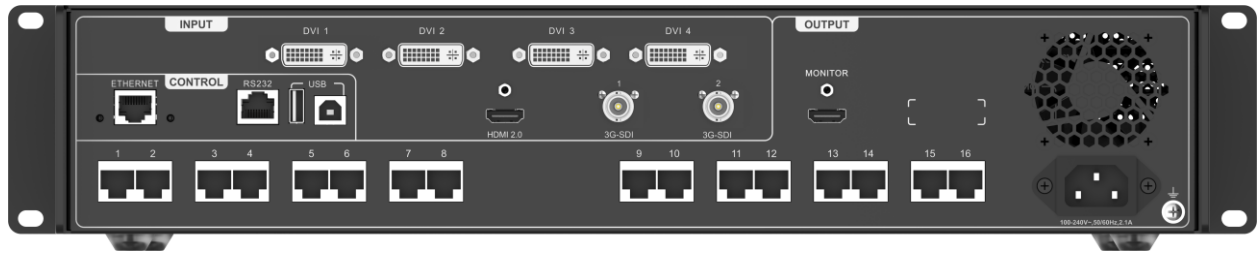
Appearance

Front Panel



Button	Description
Power switch	Power on or power off the device.
USB (Type-B)	Connect to the control PC for debugging.
Input source buttons	On the layer editing screen, press the button to switch the input source for the layer; otherwise, press the button to enter the resolution settings screen for the input source. Status LEDs: <ul style="list-style-type: none"> ● On (orange): The input source is accessed and used by the layer. ● Dim (orange): The input source is accessed, but not used by the layer. ● Flashing (orange): The input source is not accessed, but used by the layer. ● Off: The input source is not accessed and not used by the layer.
TFT screen	Display the device status, menus, submenus and messages.
Knob	<ul style="list-style-type: none"> ● Rotate the knob to select a menu item or adjust the parameter value. ● Press the knob to confirm the setting or operation.
ESC button	Exit the current menu or cancel the operation.
Layer buttons	Press a button to open a layer, and hold down the button to close the layer. <ul style="list-style-type: none"> ● MAIN: Press the button to enter the main layer settings screen. ● PIP 1: Press the button to enter the settings screen for PIP 1. ● PIP 2: Press the button to enter the settings screen for PIP 2. ● SCALE: Turn on or turn off the full screen scaling function of the bottom layer.
Function buttons	<ul style="list-style-type: none"> ● PRESET: Press the button to enter the preset settings screen. ● FN: A shortcut button, which can be customized as a shortcut button for Synchronization (default), Freeze, Black Out, Quick Configuration or Image Color function

Rear Panel



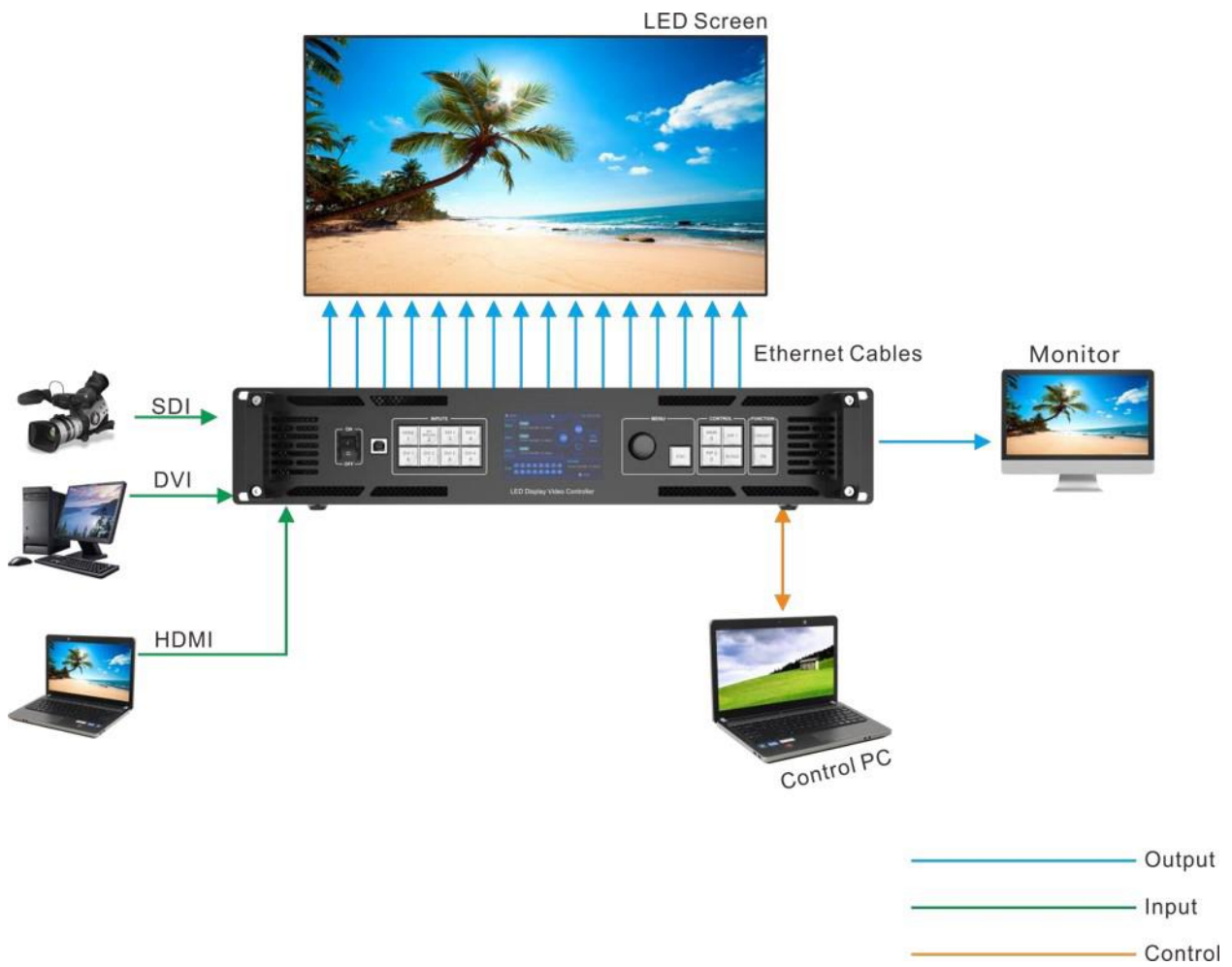
Input		
Connector	Qty	Description
3G-SDI	2	<ul style="list-style-type: none"> • Max. input resolution: Up to 1920×1080@60Hz • Support for interlaced signal input and deinterlacing processing • DOES NOT support input resolution settings.
DVI	4	<ul style="list-style-type: none"> • Single link DVI connector, with max. input resolution up to 1920×1200@60Hz • Four DVI inputs can form an independent input source, which is DVI Mosaic. • Support for custom resolutions <ul style="list-style-type: none"> - Max. width: 3840 pixels - Max. height: 3840 pixels • HDCP 1.4 compliant • DOES NOT support interlaced signal input.
HDMI 2.0	1	<ul style="list-style-type: none"> • Max. input resolution: Up to 3840×2160@60Hz • Support for custom resolutions <ul style="list-style-type: none"> - Max. width: 3840 pixels - Max. height: 3840 pixels • HDCP 2.2 compliant • EDID 1.4 compliant • DOES NOT support interlaced signal input.
Output		
Connector	Qty	Description
Ethernet port	16	<ul style="list-style-type: none"> • Gigabit Ethernet output • 16 ports load up to 10,400,000 pixels. <ul style="list-style-type: none"> - Max. width: 16384 pixels - Max. height: 8192 pixels • A single port loads up to 650,000 pixels.
MONITOR	1	<ul style="list-style-type: none"> • An HDMI connector for monitoring output • Support for resolution of 1920×1080@60Hz
Control		
Connector	Qty	Description
ETHERNET	1	<ul style="list-style-type: none"> • Connect to the control PC for communication. • Connect to the network.

USB	2	<ul style="list-style-type: none"> • USB 2.0 (Type-B): <ul style="list-style-type: none"> - Connect to the PC for debugging. - Input connector to link another device • USB 2.0 (Type-A): <ul style="list-style-type: none"> Output connector to link another device
RS232	1	Connect to the central control device.

Note:

HDMI source and DVI Mosaic source can be used by the main layer only.

Applications



Specifications

Electrical Specifications	Power connector	100–240V~, 50/60Hz, 2.1A
	Power consumption	70 W
Operating Environment	Temperature	0°C to 50°C
	Humidity	20% RH to 85% RH, non-condensing
Storage Environment	Temperature	–20°C to +60°C
	Humidity	10% RH to 85% RH, non-condensing
Physical Specifications	Dimensions	482.6 mm x 372.5 mm x 94.6 mm
	Net weight	6.22 kg
	Gross weight	9.78 kg
Packing Information	Carrying case	530.0 mm x 420.0 mm x 193.0 mm
	Accessories	1x European power cord 1x US power cord 1x UK power cord 1x Cat5e Ethernet cable 1x USB cable 1x DVI cable 1x HDMI cable 1x Quick Start Guide 1x Certificate of Approval
	Packing box	550.0 mm x 440.0 mm x 215.0 mm
Certifications	CE, FCC, IC, RoHS	
Noise Level (typical at 25°C/77°F)	45 dB (A)	

Video Source Features

Input Connector	Color Depth		Max. Input Resolution
HDMI 2.0	8-bit	RGB 4:4:4	3840×2160@60Hz
		YCbCr 4:4:4	3840×2160@60Hz
		YCbCr 4:2:2	3840×2160@60Hz
		YCbCr 4:2:0	Not supported
	10-bit/12-bit	RGB 4:4:4	3840×1080@60Hz
		YCbCr 4:4:4	3840×1080@60Hz
		YCbCr 4:2:2	3840×2160@60Hz
		YCbCr 4:2:0	Not supported
SL-DVI	8-bit	RGB 4:4:4	1920×1080@60Hz
3G-SDI	Max. input resolution: 1920×1080@60Hz Note: The input resolution cannot be set for a 3G-SDI signal.		

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