



STARVIEW SC-UHD

VIDEO PROCESSOR

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OVERVIEW

The SC-UHD is a new all-in-one controller developed by Starview. Featuring video processing and control, and the built-in Master VI platform software, the SC-UHD allows you to easily manage layers and configure screens by using a mouse, keyboard and monitor.

The SC-UHD is capable of receiving a variety of video signals and processing images of resolutions up to Ultra HD 4K x 2K@60Hz and 8K x 1K@60Hz. It comes with a maximum loading capacity of 10,400,000 pixels and can send the processed videos to LED displays using Ethernet ports and fiber optical ports.

Thanks to the powerful video processing and sending capabilities, the SC-UHD is widely used for high-end rental applications, stage control systems and fine-pitch fixed LED displays.

FEATURES

- Industry-standard input connectors

- + 4x 12G-SDI (IN-LOOP)
- + 1x HDMI 2.0 (IN-LOOP)
- + 1x DP 1.2
- + 4x HDMI 1.3 (Purchase a DVI input card to replace the connectors).

- 16x Ethernet outputs and 4x OPT outputs

- + Two modes available on fiber optical output ports: copy and hot backup

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+ The maximum loading capacity is 10,400,000 pixels. The maximum output width and height per unit reach up to 16,384 pixels 8192 pixels respectively.

- **6x layers**

+ Up to 2x 4K x 2K and 4x 2K x 1K layers can be added, and layer scaling is available.

+ Flexible layer adjustment, including opacity, mask, overlapping, copying, mirroring, flipping, etc.

+ Irregular layer supported

+ Z-order sorting

- **1x OSD, 1x LOGO and 1x BKG**

+ OSD supports cropping, opacity adjustment, dynamic and static images, and position settings.

+ LOGO supports resolutions up to 256 x 256 and allows for cropping, opacity adjustment and position settings.

+ BKG can be scaled to fit the screen automatically.

- **DVI mosaic**

+ An input source can be made up of at most 4 DVI input sources.

- **HDR output**

+ Greatly enhances display image quality, providing more clear and vivid image.

- **Decimal frame rates**

+ The supported frame rates are 23.98, 29.97 and 59.94.

- **Low-latency output**

- **Built-in Master VI platform software allowing for easier operations**

- **Working with the A8s or A10s Plus receiving card to support HDR function, making images smoother**

- **Low latency output**

+ The end-to-end delay can be as low as 1 frame when the low latency and synchronization functions are turned on and the data runs vertically on the screen.

- **Multiviewer settings**

+ Monitor the input sources, PVW or PGM, or perform mixed monitoring.

- **Web control**

+ Access and control the SC-UHD in real time by using a browser without the need to install multiple pieces of software.

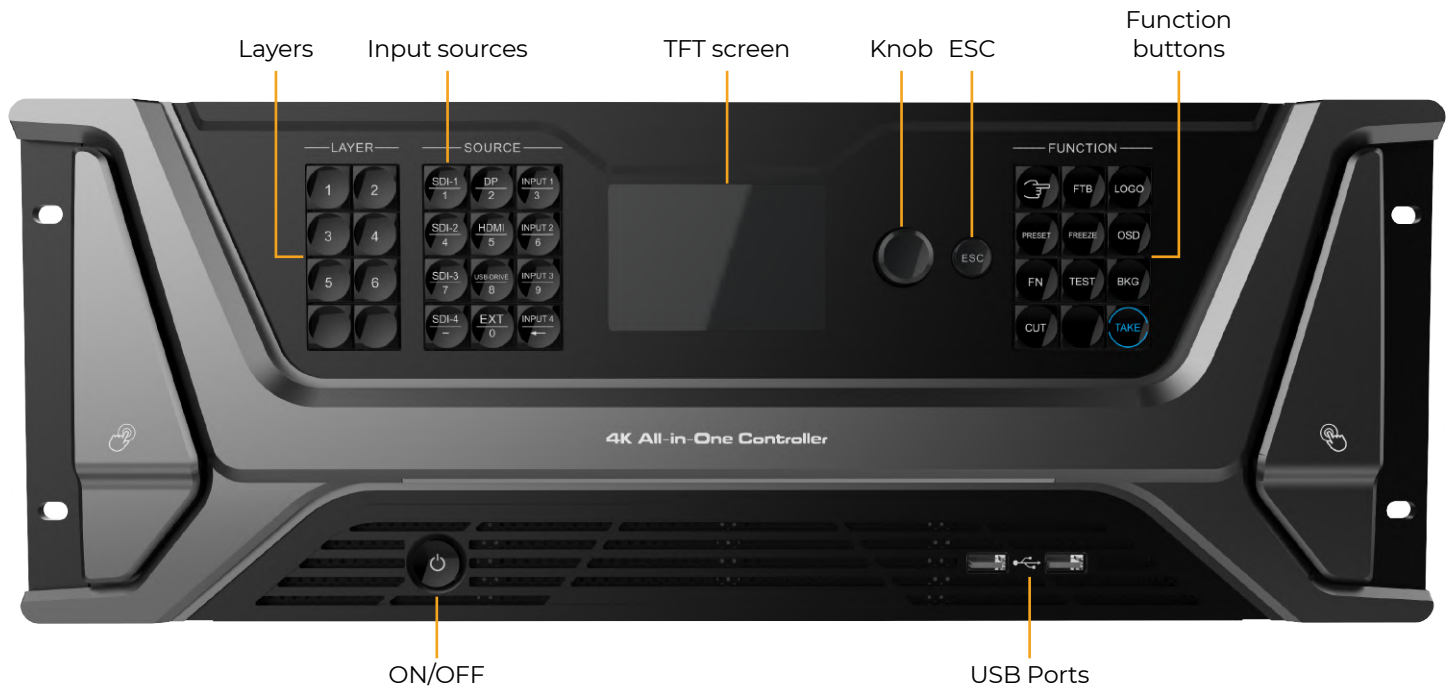
- **Up to four SC-UHD units can be linked together for image mosaic.**

- **Decimal frame rates supported**

+ The supported frame rates are 23.98 Hz, 29.97 Hz, 47.95 Hz, 59.94 Hz, 71.93 Hz and 119.88 Hz.

APPEARANCE

FRONT PANEL



Button	Description
On/OFF button	Hold down the button for 3 seconds to power on, power off or restart the device.
Layer buttons	Open or close layers and display layer status. Status LEDs: - On (blue): The layer is open and an input source is accessed. - Flashing (blue): The layer is being edited and an input source is accessed. - On (white): The layer is open, but no input source is accessed. - Flashing (white): The layer is being edited, but no input source is accessed or the input source is abnormal. - Off: The layer is closed.
Input source buttons	Quickly switch the layer input source and display the input source status. Press an input source button to switch to the input source. Status LEDs: - On (blue): The input source is accessed and being used by a layer. - On (white): The input source is accessed but not in use. - Off: + The input source is not accessed or abnormal. + The input source is not accessed but already used by a layer
TFT screen	Display current device status, menus, submenus and messages.
USB ports	2x USB2.0 - Connect to a mouse and keyboard to control the device with the built-in GUI. - Insert a USB drive to update the system. - Insert a USB drive to import or export files.

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Knob	<ul style="list-style-type: none"> - Rotate the knob to scroll through the menu items, or adjust a parameter value. - Press the knob to confirm the selection or settings. 																								
Function buttons	<table border="0"> <tr> <td></td> <td>Enter or exit the quick navigation screen</td> <td></td> <td>Make the LED screen fade to black</td> </tr> <tr> <td></td> <td>Access the LOGO menu</td> <td></td> <td>Access the preset menu</td> </tr> <tr> <td></td> <td>Freeze the output image</td> <td></td> <td>Access the OSD menu</td> </tr> <tr> <td></td> <td>Custom function button</td> <td></td> <td>Access the test pattern menu</td> </tr> <tr> <td></td> <td>Access the BKG settings menu</td> <td></td> <td>Send the PVW to PGM with a transition effect</td> </tr> <tr> <td></td> <td>Send the PVW directly to PGM without a transition effect</td> <td></td> <td></td> </tr> </table>		Enter or exit the quick navigation screen		Make the LED screen fade to black		Access the LOGO menu		Access the preset menu		Freeze the output image		Access the OSD menu		Custom function button		Access the test pattern menu		Access the BKG settings menu		Send the PVW to PGM with a transition effect		Send the PVW directly to PGM without a transition effect		
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ESC button	Exit the current menu or cancel an operation.																								

REAR PANEL



Input		
Connector	Quantity	Description
12G-SDI	4	Supports ST-2082-1 (12G), ST-2081-1 (6G), ST-424 (3G) and ST-292 (HD). - Up to 4K x 2K@60Hz input resolution - Connector 4 supports deinterlacing processing. - Supports 12G-SDI output with loop-through. Note: When the input source is a 12G-SDI signal, a CANARE / L-4.5CHD+ / UHDTV-SDI SDI cable is required and it cannot be longer than 50 m
DP 1.2	1	- Up to 4K x 2K@60Hz (8K x 1K@60Hz) input resolution - HDCP 1.3 compliant - Does not support interlaced input signals.

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HDMI 2.0	1	<ul style="list-style-type: none"> - Up to 4K x 2K@60Hz (8K x 1K@60Hz) input resolution - HDCP 1.4 and HDCP 2.2 compliant - Does not support interlaced input signals. - Supports HDMI 2.0 output with loop-through.
HDMI 1.3	4	D_4 x HDMI 1.3 input card (can be replaced by a D_4 x DVI input card) <ul style="list-style-type: none"> - Up to 1920 x 1080@60Hz input resolution for each connector - HDCP 1.3 compliant - Supports interlaced input signals.

Output

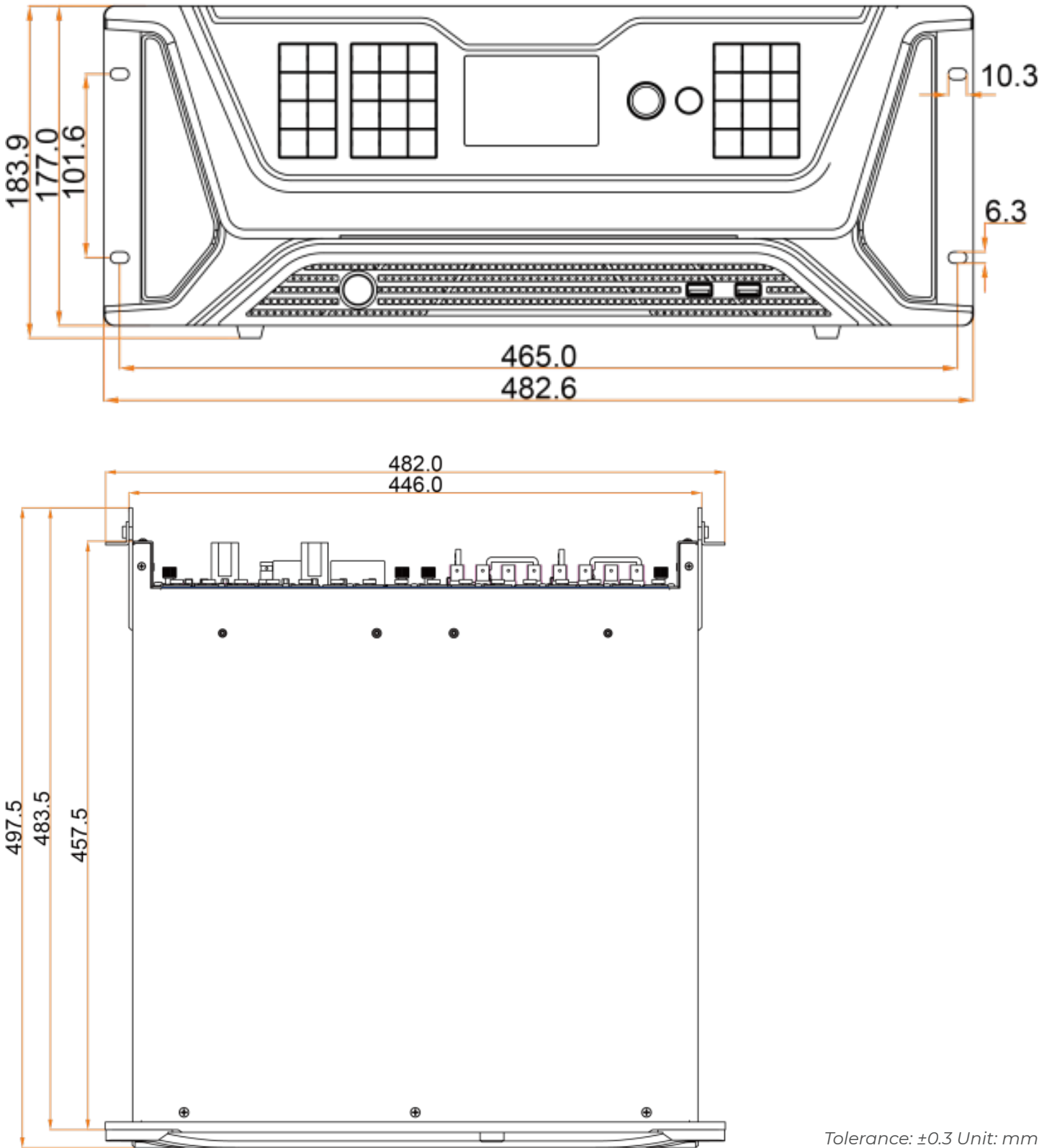
Connector	Quantity	Description
Ethernet port	16	Neutrik Gigabit Ethernet outputs <ul style="list-style-type: none"> - Max. loading capacity: 10.4 million pixels - Max. width: 16,384 pixels - Max. height: 8,192 pixels
OPT1-4	4	10G fiber optical outputs (copy and hot backup) <ul style="list-style-type: none"> - OPT 1 transmits data on Ethernet ports 1-8. - OPT 2 transmits data on Ethernet ports 9-16. - OPT 3 is the copy/hot backup channel for OPT 1. - OPT 4 is the copy/hot backup channel for OPT 2.
MVR	1	HDMI 1.3 connector, used for Multiviewer to monitor input sources, PVM or PGM, or perform mixed monitoring
AUX	1	HDMI 1.3 connector, used for connecting to an auxiliary device such as a teleprompter

Control

Connector	Quantity	Description
ETHERNET	1	For PC communication or network connection
USB	3	<ul style="list-style-type: none"> - 1x USB 2.0 (Type-B): Connect to the PC for device debugging. - 2x USB 2.0 (Type-A): <ul style="list-style-type: none"> + Insert a USB drive to update the system. + Connect to a mouse and keyboard. + Output port for linking another device unit
GENLOCK IN-LOOP	1	Connect to a synchronization signal source. <ul style="list-style-type: none"> - IN: Accept the sync source. - LOOP: Loop the sync source.
CONTROL UI	1	Connect to a monitor for displaying the user interface of the Master VI platform software.

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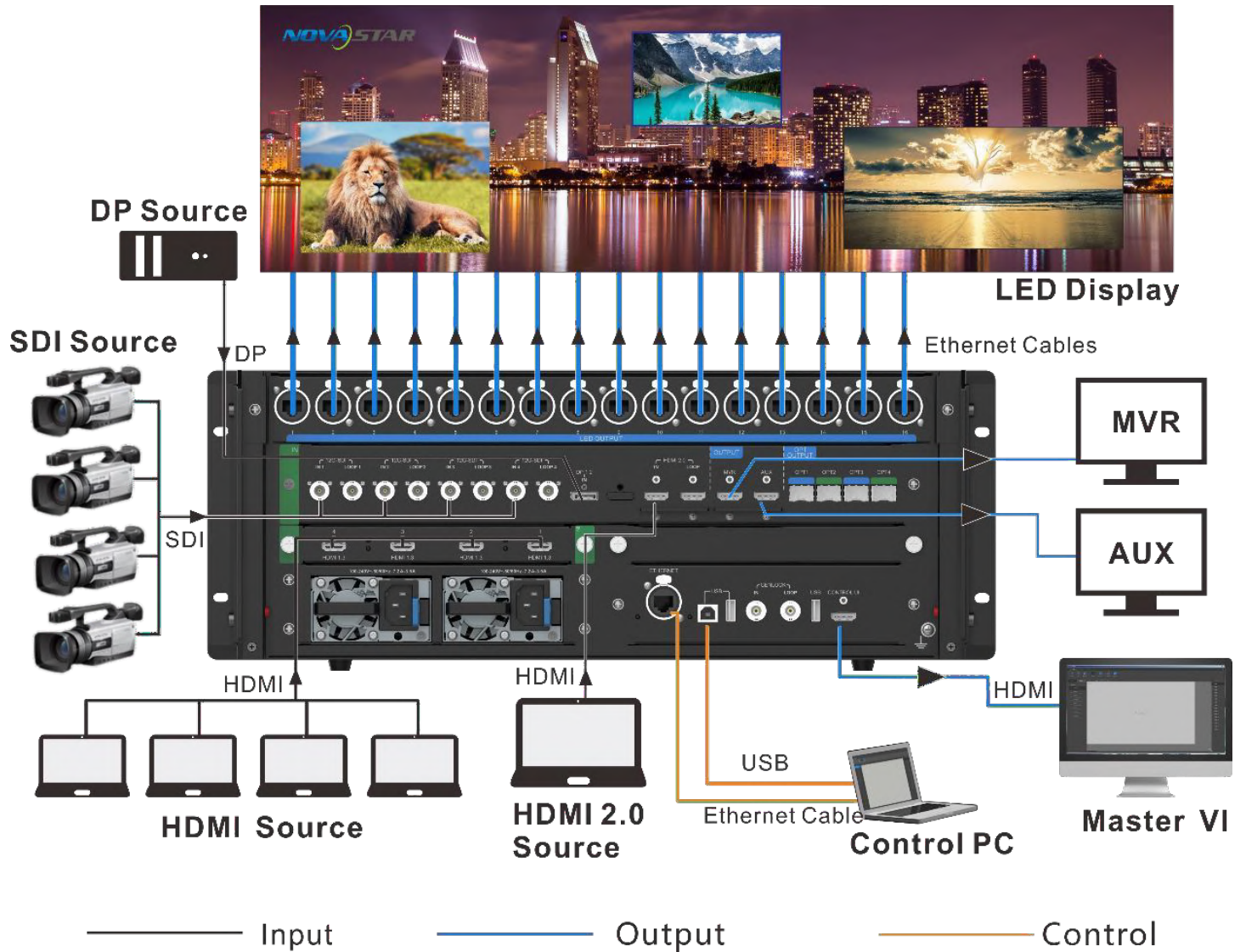
DIMENSIONS



Tolerance: ±0.3 Unit: mm

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APPLICATIONS



SPECIFICATIONS

Overall Specifications		
Electrical Specifications	Power connectors	100–240V~, 50/60Hz, 7.2A–3.5A Dual redundant power supplies
	Rated power consumption	180W
Operating Environment	Operating temperature	-10°C to +60°C
	Operating humidity	0% to 80%, non-condensing
Storage Environment	Storage humidity	0% to 95%, non-condensing

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Physical Specifications	Dimensions	482.6 mm x 183.9 mm x 497.5 mm
	Net weight	21 kg
	Gross weight	42 kg
Packing Information	Accessories	<ul style="list-style-type: none"> - 2x Power cords - 1x DVI cable - 1x USB cable - 1x Ethernet cable - 1x HDMI cable - 1x DP cable - 1x Mini DP to DP cable - 46x Silicone dustproof plugs - 1x USB drive (16 GB) - 1x Custom Letter - 1x Quick Start Guide - 1x Certificate of Approval - 1x Safety Manual
	Flight case	531 mm x 286 mm x 786 mm
Certifications		FCC, IC, UL/CUL, CB, CE, RoHS 10, EAC, KC, RCM, PSE
Noise Level (typical at 25°C/ 77°F)		57 dB (A)

REAR PANEL

Connector	Quantity		Description
- HDMI 2.0 - DP 1.2	8 bit	RGB4:4:4	4096 x 2160@60Hz 8192 x 1080@60Hz
		YCbCr4:4:4	
		YCbCr4:2:2	Unsupported
		YCbCr4:2:0	
	10 bit	RGB4:4:4	4096 x 2160@60Hz 8192 x 1080@60Hz
		YCbCr4:4:4	
		YCbCr4:2:2	4096 x 2160@60Hz 8192 x 1080@60Hz
		YCbCr4:2:0	
	12 bit	RGB4:4:4	4096 x 2160@60Hz 8192 x 1080@60Hz
		YCbCr4:4:4	
		YCbCr4:2:2	4096 x 2160@60Hz 8192 x 1080@60Hz
		YCbCr4:2:0	

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HDMI 1.3	8 bit		1920 x 1080@60Hz
		YCbCr4:2:2	
		YCbCr4:2:0	
	10 bit	RGB4:4:4	
		YCbCr4:4:4	
		YCbCr4:2:2	
	12 bit	RGB4:4:4	
		YCbCr4:4:4	
		YCbCr4:2:2	
12G-SDI	<ul style="list-style-type: none"> - Max. input resolution: 4096 x 2160@60Hz - Does not support input resolution and bit depth settings. - Supports ST-2082-1 (12G), ST-2081-1 (6G), ST-424 (3G) and ST-292 (HD). 		

INPUT AND OUTPUT RESOLUTIONS

Input Resolutions						
Standard Resolution	Standard Frame Rate (Hz)	SL-DVI	DL-DVI	HDMI 1.3	HDMI 2.0	DP 1.2
1024 x 768	48/50/59.94/60/75/85	√	√	√	√	√
1280 x 720	23.98/24/25/29.97/30/48/50/59.94/60	√	√	√	√	√
1280 x 1024	48/50/59.94/60/75/85	√	√	√	√	√
1366 x 768	50/59.94/60	√	√	√	x	x
1440 x 900	60/75/85	√	√	√	√	√
1600 x 1200	48/50/59.94/60	√	√	√	√	√
1680 x 1050	60	√	√	√	√	√
1920 x 1080	23.98/24/25/29.97/30/48/50/59.94/60	√	√	√	√	√
1920 x 1200	50/59.94/60	√	√	√	√	√
2048 x 1080	30/48/50/59.94/60	√	√	√	√	√
2048 x 1152	30/60	√	√	√	√	√
2560 x 1080	50/59.94/60	x	√	x	√	√
2560 x 1600	50/59.94/60	x	√	x	√	√
2560 x 1600	120	x	x	x	√	√

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3840 x 1080	30/50/59.94/60	x	√	x	√	√
3840 x 1080	120	x	x	x	√	√
3840 x 2160	30	x	√	x	√	√
3840 x 2160	60	x	x	x	√	√

Input Resolutions

23.98Hz, 24Hz, 25Hz, 29.97Hz, 30Hz, 47.95Hz, 48Hz, 50Hz, 59.94Hz, 60Hz, 71.93Hz, 72Hz, 75Hz, 85Hz, 100Hz, 119.88Hz, 120Hz

- √: The connector supports the resolution and frame rate.
- x: The connector does not support the resolution and frame rate.
- Any input frame rate can be output at different frame rates.

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