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TECH FOR A BETTER WORLD

SLC2 PRO
ALL-IN-ONE PROCESSOR



Introduction

The SLC2 Pro is an all-in-one processor combining video processing and video control functionalities into a single device. Equipped with 4 Ethernet ports, it supports three working modes: video processor, fiber converter, and ByPass. Capable of managing up to 2.6 million pixels, the SLC2 Pro can output at a maximum width of 10,240 pixels and a height of 8,192 pixels, making it perfectly suited for controlling ultra-wide and ultra-high LED screens on-site.

The SLC2 Pro boasts powerful video signal reception and processing capabilities, supporting a maximum resolution of 4K×2K@60Hz for video input. It can handle multiple video signal inputs and includes features like 6 layers, output scaling, low latency and pixel-level brightness and chroma calibration. These functions combine to deliver outstanding image display quality.

With various control options available, the SLC2 Pro can be operated via the front panel knob, Starview software, Starview app, providing you with a convenient and effortless control experience.

The SLC2 Pro is housed in an industrial-grade casing, which, combined with its powerful video processing and transmission capabilities, makes it robust and well-suited for complex operational environments. The SLC2 Pro is a perfect fit for medium and high-end rental, stage control systems and fine-pitch LED screens.

Features

Multiple connectors, free input and output

- A comprehensive range of input connectors
  - 1x HDMI 2.0 (IN & LOOP)
  - 2x HDMI 1.3
  - 1x 10G optical fiber port (OPT 1)
  - 1x 3G- SDI (IN & LOOP)
  - 1x USB 3.0 (Play images or videos saved in a USB drive.)
- Output connectors
  - 4x Gigabit Ethernet ports

    A single device supports up to 2.6 million pixels, delivering a maximum width of 10,240 pixels and a maximum height of 8192 pixels.
  - 2x Fiber outputs

    OPT 1 sends the output on Ethernet ports 1~4.

    OPT 2 copies or backs up the output on Ethernet ports 1~4.
  - 1x HDMI 1.3

    For monitoring display.
  - 1x 3D connector

    Directly connect a third - party 3D emitter.
- Self- adaptive OPT 1 for either video input or sending card output

  Thanks to the self - adaptive design, OPT 1 can be used as either an input or output connector, depending on its connected device.
- Audio input and output
  - Audio input accompanied with HDMI sources
  - 3.5 mm independent audio input and output
  - Adjustable output volume

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- Free topology

  Flexible screen configuration without rectangle restriction on a single Ethernet port. The maximum circumscribed rectangle of the large screen loaded by the device must be within the device loading capacity.

  *Specific receiving cards are required.

- Low latency

  By enabling the low latency feature and ByPass mode, the device delay can be reduced to 0 frame.

- Output synchronization

  An input source connected to the device's video connector can be used as the sync source to ensure the output images of all cascaded units in sync.

- EDID management

  Import and export EDID files.

Diverse display possibilities for flexible configuration

- Easy preset saving and loading
  - Up to 256 user-defined presets supported
  - Load a preset by simply pressing one button.
  - Save, overwrite and delete a preset.
  - Preview the layer layout saved in the preset.
- Multiple layer display
  - Supports 6*2K×1K layer resources.

    Users can create layers in three different specifications - 4K×2K, 4K×1K, and 2K×1K. These layers will use 4x, 2x, and 1x 2K layer resources respectively, depending on the capacity of the input source connector used to open the layers.
  - Adjustable layer size and position
  - Adjustable layer priority
  - Adjustable aspect ratio

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- OSD function
  - Supports the text OSD and image OSD. For the text OSD, four components are available, including static text OSD, dynamic text OSD, weather OSD and time OSD.
  - Supports customization of the text content, font, font color, size, opacity and background color.
  - Supports configuration of the scrolling direction, initial position and spe ed for the dynamic text OSD.
- 3D function
  - Traditional solution: Connect the EMT200 Pro 3D emitter to the device's Ethernet port, and use the compatible 3D glasses to enjoy a 3D visual experience.
  - New solution: Connect the third - party 3D emitter to the device 3D connector and use the compatible 3D glasses to enjoy a 3D visual experience.

  Note: When the 3D function is enabled and the video source format is **Side-by-Side** or **Top-and-Bottom**, the device output capacity will be halved.
- Personalized image scaling

  Supports three kinds of image scaling modes, including full screen, pixel to pixel and custom.
- Powerful video processing
  - Based on SuperView III image quality processing technologies to provide stepless output scaling.
  - One- click full screen display
  - Free input cropping
- Color adjustment

  Supports output color management, including brightness, saturation, contrast and hue.
- Pixel level brightness and chroma calibration

  Work with Starview software and Starview calibration software to support brightness and chroma calibration on each LED, which can effectively remove color discrepancies and greatly improve LED display brightness and chroma consistency, allowing for better image quality. The function of displaying image on screen for test is also supported.

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USB playback, tim esaving and effortless

- Supports USB playback for instant plug - and- play convenience.

Multiple device modes and operation modes, convenient and efficient

- Various working modes
  - Video processor
  - Fiber converter
  - ByPass
- Multiple control options
  - Device front panel knob
  - Starview software
  - Starview app
  - Remote control (optional)

    Enable or disable the device standby mode, power on or power off the screen, adjust the screen brightness and output volume, switch presets, se t the USB playback parameters, adjust the output image quality, switch layer input sources and set the 3D function through a remote control.

    *For the descriptions of the remote control buttons and functions, please refer to the user manual.

Data saving after power failure and backup design, stable and reliable

- End- to- end backup
  - Backup between devices
  - Backup between input sources
  - Backup between Ethernet ports
  - Backup up between OPT and Ethernet ports

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- Dual receiving card backup

- Ethernet port backup test

  Test whether the pre - stored images, backup Ethernet ports and devices take effect without plugging and unplugging the Ethernet cables.

- Data saving after power failure

  After a normal shutdown or unexpected power outage, reconnecting the power will automatically restore the previously saved settings on the device.

- 24/7 rigorous stability test under extreme high and low temperatures proved robust stability and reliability.

Table 4- 1 Function limitations

Function	Limitation	Mutually Exclusive Function
3D	• Work with the matched 3D glasses. • When the 3D function is enabled and the video source format is **Side- by- Side** or **Top- and- Bottom**, the device output capacity will be halved.	Input crop
Low Latency	All cabinets loaded by Ethernet ports must be aligned at the top of the circumscribed rectangle.	N/A
ByPass Mode	When the device works as an independent LED display processor, the video processing function is unavailable.	N/A
OSD	• The quantity of the text OSD components is as follows. – Static text OSD: 10 – Dynamic text OSD: 1 – Weather OSD: 2 – Time OSD: 2 • The text OSD and image OSD cannot be used together. • The dynamic text OSD and other text OSD components cannot be used together.	Remote control

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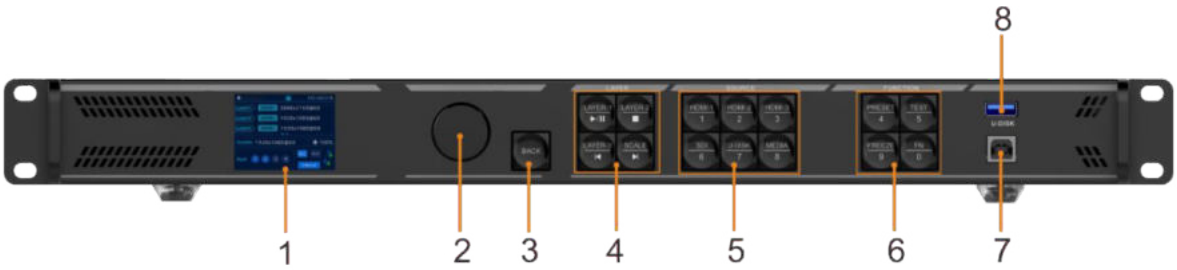
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Table 4- 2 Latency at the SLC2 Pro

Working Mode	Low Latency (Unit: Frame)	Non- Low Latency (Unit: Frame)
Video processor	1~2	2~3
ByPass	0	1
Fiber converter	0	

Appearance

Front Panel



*The picture shown is for illustration purpose only. Actual product may vary due to product enhancement.

No.	Area	Function
1	LCD screen	Display the device status, menus, submenus and messages.
2	Knob	• Rotate the knob to select a menu item or adjust the parameter value. • Press the knob to confirm the setting or operation.
3	Back button	Exit the current menu or cancel the operation.
4	Layer buttons	Layer button description: • LAYER 1~3: Open or close a layer, and show the layer status. – On (blue): The layer is opened. – Flashing (blue): The layer is being edited. – On (white): The layer is closed. • When you play media files saved in a USB drive, the layer buttons are used to control the playback. – LAYER- 1: This button is used to play or pause the files. – LAYER- 2: This button is used to stop the playback. – LAYER- 3: This button is used to play the previous file.

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No.	Area	Function
		• SCALE: A shortcut button for the full screen function. Press the button to make the layer of the lowest priority fill the entire screen. – On (blue): Full screen scaling is turned on. – On (white): Full screen scaling is turned off. • When you play media files saved in a USB drive, this button is us ed to play the next file.
5	Input source buttons	• Show the input source status and switch the layer input source. • Button indicators are used to indicate the working status of the input source signal. – On (blue): The input source has a signal. – Flashing (blue): The input source has no signals, but it is used by a layer. – On (white): The input source is not used, and no input signal is accessed. • U- DISK: USB source button Press the button to switch to a USB source, while hold down the button to enter the **Input Settings** screen. • MEDIA: USB player button Press the button to enter the **USB Player** screen. Note On the home screen, when layer 1 is opened, you can press the input source button to quickly switch the input source for layer 1.
6	Function buttons	• PRESET: Access the preset settings menu. • TEST: Access the test pattern menu. • FREEZE: Freeze/unfreeze the output image. • FN: A custom function button
7	USB	Connect to the PC installed with Starview software for device control.
8	U- DISK	1x USB 3.0 • Supports USB playback. – Single- partition USB drive supported – File system: NTFS, FAT32 and exFAT – Max. width and height of media files Width: 3840 pixels, height: 2160 pixels – Picture format: jpg, jpeg, png and bmp – Decoded image resolution: 3840×2160 or lower

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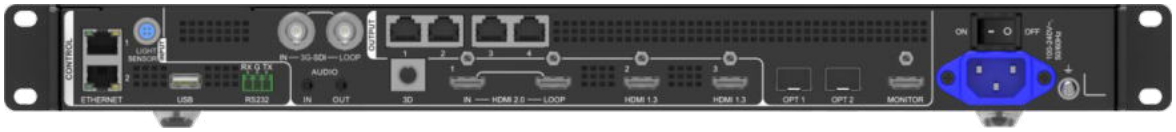
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No.	Area	Function
		– Video format: mp4, mkv, mov, avi, flv, m4v, mpg, mpeg, ts – Video coding: H.264, H.265, MPEG-2, MPEG-4 – Max. video frame rate: H.264: 3840×2160@30fps, H.265: 3840×2160@60fps MPEG-2/MPEG-4: 1920×1080@60fps – Max bitrate: H.264/H.265: 100Mbps MPEG-2/MPEG-4: 50Mbps – Audio coding: AAC,AC3, DTS, MP3, DVD, DVD_LPCM, MP2, OPUS – Audio sampling rate: opus: 24kHz, 48kHz Other formats: 22.05kHz to 94kHz – Transition effect of image switching: Ripple, zoom in, cut out, flip, blinds, H wipe, V wipe, cube, dissolve, grid, swapping, scroll, fade in/out, twirl, heart trans, doorway, perspective triangle, disappear, bounce, pinwheel, random Note The resolution of a USB source is fixed at 1920×1080@60Hz.

Note

*Hold down the knob and **BACK** button simultaneously for 3s or longer to lock or unlock the front panel buttons.*

Rear Panel



*The picture shown is for illustration purpose only. Actual product may vary due to product enhancement.

Input Connectors		
Connector	Qty	Description
HDMI 2.0	1	1x HDMI 2.0 • Max. input resolution: 4096×2160@60Hz • Supported frame rate:

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		23.98/24/25/29.97/30/47.95/48/50/56/59.94/60/70/71.93/72/75/85/100/119.88/120/144 • Compatible with HDMI 1.4 and HDMI 1.3 video inputs • HDMI 2.0- 1 loop out supported Up to 6 devices can be cabled in one loop. • Custom resolutions supported – Max. width: 8192 pixels (8192×1080@60Hz) – Max. height: 8188 pixels (1080×8188@60Hz) • Supports 8- bit/10- bit/12- bit video inputs. • Supported color space/sampling rate: RGB 4:4:4/YCbCr 4:4:4/YCbCr 4:2:2/YCbCr 4:2:0. • HDCP 1.4 and HDCP 2.2 supported • Accompanied audio supported • Does not support interlaced signal inputs.
HDMI 1.3	2	2x HDMI 1.3 • Max. input resolution: 1920×1080@60Hz • Supported frame rate: 23.98/24/25/29.97/30/47.95/48/50/56/59.94/60/70/71.93/72/75/85/100/119.88/120 • Custom resolutions supported – Max. width: 2048 pixels: 2048 pixels (2048×1080@60Hz) – Max. height: 2048 pixels 2048 pixels (1080×2048@60Hz) • Supports 8- bit video inputs. • HDCP 1.4 supported • Supported color space/sampling rate: RGB 4:4:4/YCbCr 4:4:4/YCbCr 4:2:2 • Accompanied audio supported • Does not support interlaced signal inputs.
3G- SDI	1	1x 3G- SDI • ST- 424 (3G), ST- 292 (HD) and ST- 259 (SD) standard video inputs supported • Supported protocols: SMPTE 259M, SMPTE 274M, SMPTE 296M, SMPTE 425M- A and SMPTE 425M- B • Max. input resolution: 1920×1080@60Hz • 3G- SDI loop output supported • Deinterlacing processing supported • 10- bit video inputs supported • Does not support input resolution and bit depth settings.

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*Connector capacity limitations	• SL – Standard resolution: 1920×1080@60Hz – Custom max width: 2048 (2048×1080@60Hz) – Custom max height: 2048 (1080×2048@60Hz) • DL – Standard resolution: 3840×1080@60Hz/3840×2160@30Hz – Custom max width: 4096 (4096×1080@60Hz) – Custom max height: 3840 (1080×3840@60Hz) • 4K – Standard resolution: 4096×2160@60Hz/8192×2160@30Hz – Custom max width: 8192 (8192×1080@60Hz) – Custom max height: 8188 (1080×8188@60Hz) Note If the resolution of an input source is larger than the max width limit of the connector capacity, you need to switch the connector capacity to ensure that the input source can be processed normally.

Output Connectors		
Connector	Qty	Description
Ethernet ports	4	• Max. loading capacity: 2.6 million pixels • Max. width: 10,240 pixels, max. height: 8192 pixels • Maximum capacity of a single port: 650,000 pixels (output bit depth: 8bit) • Supported frame rate: 23.98/24/25/29.97/30/47/48/50/59.94/60/71.93/72/75/85/95/100/119.88/120/144
OPT	2	2x 10G optical fiber ports • OPT 1: Self- adaptive, either for video input or for output • OPT 2: For output with copy and backup modes or loop output • Supports the following thr ee modes: – Input+output: OPT 1 for video input, while OPT 2 copies or backs up the output on 4 Ethernet ports – Input+loop: OPT 1 for video input, OPT 2 for loop output – Output: OPT 1 sends the output on 4 Ethernet ports, while OPT 2 copies or backs up the output on 4 Ethernet ports. • Paired with single- mode and dual- mode optical modules with the following transmission distance

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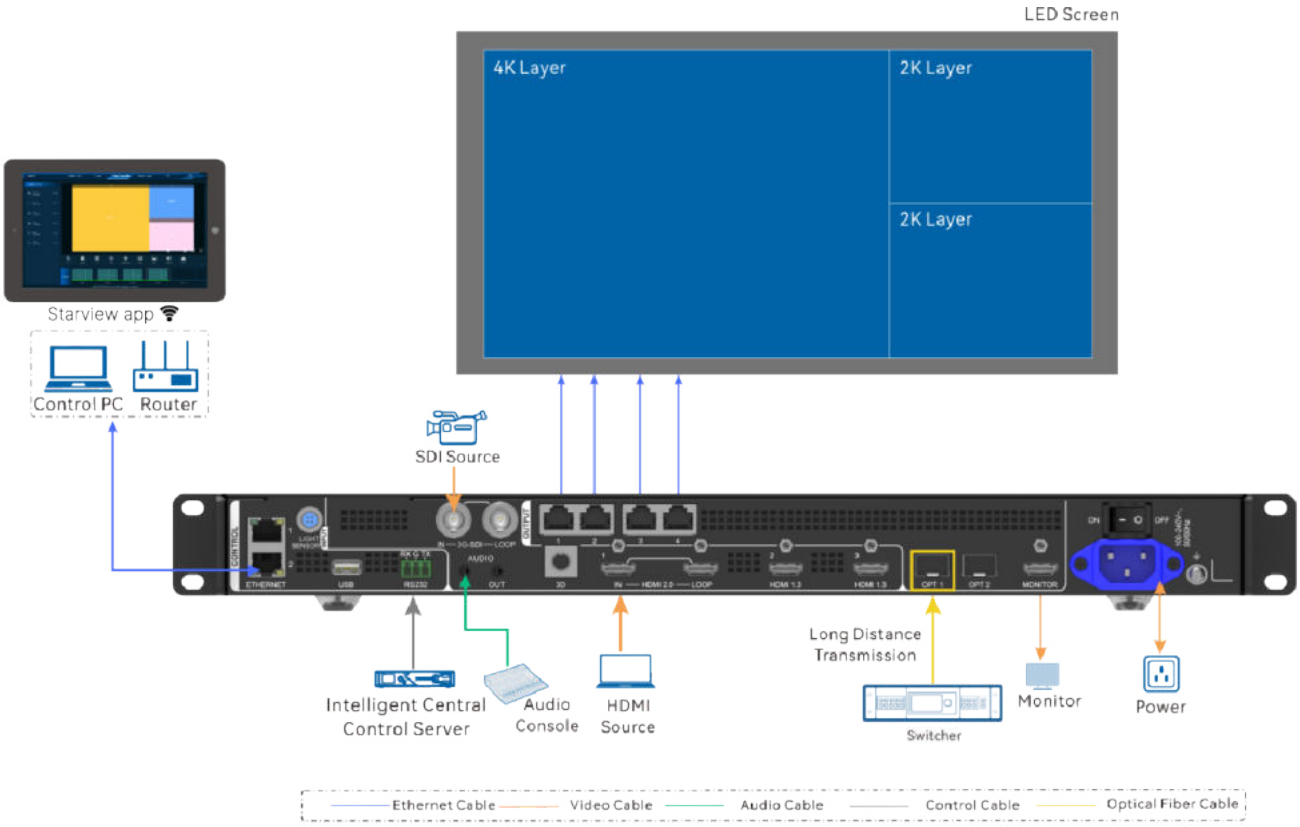
		– Single- mode twin- core optical module: ≤10 km – Multi- mode twin- core optical module: ≤300 m Note The optical module is not installed at the factory. Please purchase and install it as needed.
HDMI 1.3	1	For monitoring display Output resolution: 1920×1080@60Hz (fixed)
3D	1	1x 3D connector Connect the 3D emitter and use the compatible 3D glasses to enjoy a 3D visual experience. Note When the 3D function is enabled and the video source format is **Side- by- Side** or **Top- and- Bottom**, the device output capacity will be halved.
Audio Connectors		
Connector	Qty	Description
AUDIO	2	1x AUDIO input, 1×AUDIO output • 3.5 mm standard audio input and output connectors • Audio sampling rate up to 48 kHz
Control Connectors		
Connector	Qty	Description
ETHERNET	2	• Connect to the control PC for device control and firmware upgrade via Starview web. Status LEDs: • The top left one indicates the connection status. – On: The port is properly connected. – Flashing: The port is not properly connected, such as loose connection. – Off: The port is not connected. • The top right one indicates the communication status. – On: No data communication. – Flashing: The communication is good and data is being transmitted. – Off: No data transmission
USB	1	1x USB 2.0 • Cascade the devices via the USB port and Ethernet port. Up to 5 devices

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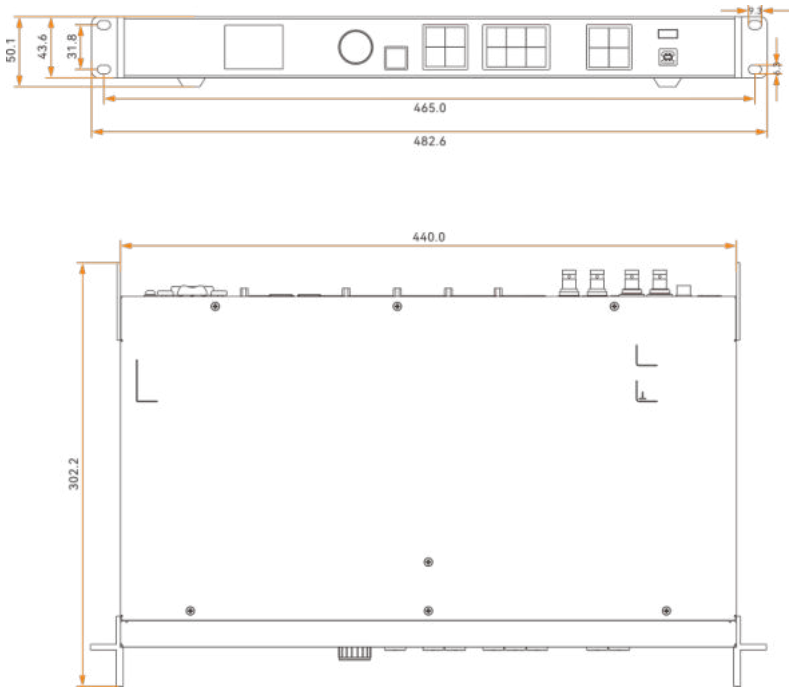
		can be cascaded. • Update the firmware via the USB drive. • Import or export device logs and EDID files.
RS232	1	3- pin connectors • RX: Receive signals. • TX: Send signals. • G: Ground
LIGHT SENSOR	1	Connect to a light sensor to collect the ambient brightness, allowing for automatic screen brightness adjustment.

Applications



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Dimensions



Tolerance: ±0.5 Unit: mm

Specifications

Electrical Parameters	Power connector	100- 240V~, 50/60Hz, 2A- 0.8A
	Rated power consumption	42W
Operating Environment	Temperature	0°C to 50°C
	Humidity	5% RH to 85% RH, non- condensing
Storage Environment	Temperature	- 10°C to 60°C
	Humidity	5% RH to 95% RH, non- condensing
Physical Specifications	Dimensions	482.6 mm × 302.2 mm × 50.1 mm
	Net weight	3.8 kg
	Total weight	6.4 kg
Packing Information	Packing box	565 mm × 450 mm × 175 mm
	Accessories	1x Power cord, 1x Ethernet cable, 1x HDMI cable, 2x Silicone dustproof plugs, 1x USB cable, 1x Phoenix

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		connector
Accessories (optional)	1x Remote control	
Noise Level (typical at 25°C/77°F)	45 dB (A)	

Video Source Features

Input Connectors	Common Resolutions		Color Space	Sampling Rate	Bit Depth	Integer Frame Rates (Hz)
HDMI 2.0	4K×2K	4096×2160	RGB / YCbCr	4:4:4	12bit	24/25/30
					10bit	24/25/30
					8bit	24/25/30/48/50/60
			YCbCr	4:2:2	8/10/12bit	
			YCbCr	4:2:0	8/10/12bit	
	4K×1K	3840×1080	RGB / YCbCr	4:4:4	12bit	24/25/30/48/50/60/72/85
					10bit	24/25/30/48/50/60/72/100
					8bit	24/25//30/48/50/60/72/120
			YCbCr	4:2:2	8/10/12bit	
			YCbCr	4:2:0	8/10/12bit	
	2K×1K	1920×1080	RGB / YCbCr	4:4:4	12bit	24/25/30/48/50/60/72/120/144
					10bit	24/25/30/48/50/60/72/120/144
					8bit	24/25/30/48/50/60/72/120/144
			YCbCr	4:2:2	8/10/12bit	
			YCbCr	4:2:0	8/10/12bit	
HDMI 1.3	2K×1K	1920×1080	RGB / YCbCr	4:4:4	12bit	24/25/30
					10bit	24/25/30/48/50/60
					8bit	24/25/30/48/50/60

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Input Connectors	Common Resolutions		Color Space	Sampling Rate	Bit Depth	Integer Frame Rates (Hz)
			YCbCr	4:2:2	8/10/12bit	
3G- SDI	2K×1K	1920×1080	YCbCr	4:2:2	8/10/12bit	24/25/30/48/50/60

Note

The table above shows some common resolutions and integer frame rates only. The adaptation to decimal frame rates is also supported, including 23.98/29.97/59.94/71.93/119.88Hz.

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