Specifications

VIDEO

Video Processing	4:2:2 (Y/Pb/Pr), 8-bit
Input Connectors	INPUT 1–6: HDMI type A x 6 * HDCP Supported INPUT 7–8: HDMI type A x 2 * HDCP Supported * Multi-format Supported
Output Connectors	OUTPUT 1–3: HDMI type A x 3 * HDCP Supported
Input formats	INPUT 1–6 720/59.94p *1, *3 720/50p *1, *4 1080/59.94i, 1080/59.94p, 1080/60p, 1080/29.97p, 1080/30p *2, *3 1080/50i, 1080/50p, 1080/25p *2, *4 1080/23.98p, 1080/24p *2 * The input interlaced video signal is converted to progressive video signal by internal processing. *1 SYSTEM FORMAT = 720p *2 SYSTEM FORMAT = 1080i or 1080p *3 FRAME RATE = 59.94 Hz *4 FRAME RATE = 50 Hz INPUT 7–8 480/59.94i, 480/59.94p, 720/59.94p, 1080/59.94i, 1080/59.94p, 1080/60p, 1080/29.97p, 1080/30p *1 576/50i, 576/50p, 720/50p, 1080/50i, 1080/50p, 1080/25p *2 1080/23.98p, 1080/24p VGA (640×480/60Hz), SVGA (800×600/60Hz), XGA (1024×768/60Hz) WXGA (1280×800/60Hz), SXGA (1280×1024/60Hz) FWXGA (1366×768/60Hz), SXGA+ (1400×1050/60Hz) UXGA (1600×1200/60Hz), WUXGA (1920×1200/60Hz) * The refresh rate is the maximum value of each resolution. * Conforms to CEA-861-E,VESA DMT Version 1.0 Revision 11. * 1920 x 1200/60 Hz: Reduced blanking * The input interlaced video signal is converted to progressive video signal by internal processing. *1 FRAME RATE = 59.94 Hz *2 FRAME RATE = 50 Hz
Still Image	Bitmap File (.bmp) Maximum 1920 x 1080 pixels, 24-bit color, uncompressed. PNG File (.png) Maximum 1920 x 1080 pixels, 24-bit color * It can be stored up to 8 files in the internal memory. * PNG alpha channel not supported.
Output formats	OUTPUT 1–2: OUTPUT 3: 720/59.94p *1, *4 1080/59.94p *1 720/50p *1, *5 1080/50p *2 1080/59.94i *2, *4 *1 FRAME RATE = 59.94 Hz 1080/50i *2, *5 *2 FRAME RATE = 50 Hz 1080/59.94p *3, *4 1080/50p *3, *5 *1 SYSTEM FORMAT = 720p *2 SYSTEM FORMAT = 1080i *3 SYSTEM FORMAT = 1080p *4 FRAME RATE = 59.94 Hz *5 FRAME RATE = 50 Hz
Video Effects	Transition: CUT, MIX (DISSOLVE/FAM/NAM), WIPE (8 types) Composition: PinP x 2 (SQUARE, CIRCLE, DIAMOND), SPLIT (2 types), Keyer x 2 (Luminance Key, Chroma Key), DSK (Luminance Key, Chroma Key) Others: Flip horizontal, Flip vertical, Still Image Capture, Still Image Playback, Output fade (Audio, Video: WHITE or BLACK), Test pattern output

AUDIO

Audio Processing	Sampling rate: 24 bits/48 kHz
Audio formats	Linear PCM, 24 bits/48 kHz, 2ch
Input Connectors	INPUT 1–8: HDMI Type A x 8 AUDIO IN: RCA phono type
Output Connectors	OUTPUT 1–3: HDMI Type A x 3 AUDIO OUT: RCA phono type PHONES: Stereo miniature type
Input Level	AUDIO IN: -10 dBu (Maximum: +8 dBu)
Input Impedance	AUDIO IN: 38 k ohms
Output Level	AUDIO OUT: -10 dBu (Maximum: +8 dBu) PHONES: 92 mW + 92 mW (32 ohms)
Output Impedance	AUDIO OUT: 1 k ohm PHONES: 10 ohms
Audio Effects	Delay, High pass filter, Compressor, Noise gate, Equalizer, Multi-band compressor, Limiter, Test tone output

OTHERS

Other Connectors	USB MEMORY: USB A type (for USB flash drive) REMOTE:USB B Type (for remote control from iPad) CTL/EXP:1/4-inch TRS phone type
Other Functions	Preset Memory (8 types) Panel lock function EDID Emulator Auto Switching Auto Input Detect
Display	4.3 inches TFT Color LCD: 480 x 272 dots
Power Supply	AC Adaptor
Current Draw	3.3 A
Power Consumption	39.6 W
Operating Temp.	+0 to +40 degrees Celsius, +32 to +104 degrees Fahrenheit
Dimensions	317 (W) x 193 (D) x 70 (H) mm 12-1/2 (W) x 7-5/8 (D) x 2-13/16 (H) inches
Weight (excluding AC adaptor)	2.0 kg, 4 lbs 7 oz
Accessories	Owner's Manual, AC adaptor, Power cord

* 0 dBu = 0.775 Vrms

Unlock new creative possibilities for live event switching

Versatile, portable, and reliable, the Roland V-8HD brings a world of creative options to live event switching. Its all-in-one hardware design eliminates computer setup hassles and software-based crashes, while the HDMI workflow and loaded professional toolset streamline production and reduce stress.

Roland

https://proav.roland.com/

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V-8HD
HD VIDEO SWITCHER

AUDIO | HDCP | 1080P PROGRESSIVE | WUXGA 1080/60p

V-8HD HD VIDEO SWITCHER

Main features

- 18-channel digital audio mixer with effects
- All-HDMI workflow
- Five-layer effects and keying engine
- Built-in multiviewer preview monitor
- AUX output for a different video feed
- Technology-assisted automatic video switching
- Start & Stop Atomos recorders
- Free iPad remote control app available
- Ultra-mobile, lightweight, and efficient

Maximum Connectivity

Nearly all modern cameras and digital video devices use HDMI, the most common AV connector on the planet. The V-8HD seamlessly mixes eight HDMI sources with Full HD support, even when the sources have mismatched frame rates and color spaces. And with the built-in scalers on two of the HDMI inputs, you can easily interface with client-provided sources like computers, tablets, smartphones, gaming consoles, and legacy 4:3 devices.
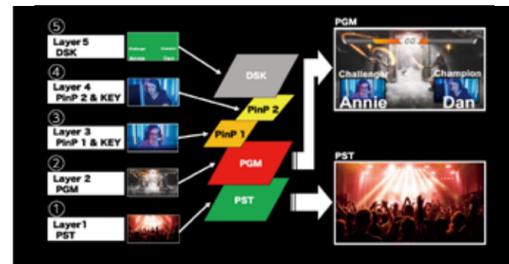
The Power of More

Creative professionals need more video inputs for layered graphics and visual effects, and business professionals often need multiple backup video sources. With a generous number of HDMI inputs and outputs, the V-8HD offers a vast amount of creative freedom without increasing the budget, resulting in greater audience engagement and satisfied clients.

Set Up Layers, Effects, and Keys

Video effects, layers, and graphics add polish and excitement to any production. With the V-8HD's five composition layers, you'll always keep audiences engaged with visually appealing content. Prepare the content according to client specifications and separate it into layers:

- **Layer 1 and 2** Start with one mixable live background video layer.
- **Layer 3 and 4** Place in two picture-in-picture layers or chroma/luminance key effects.
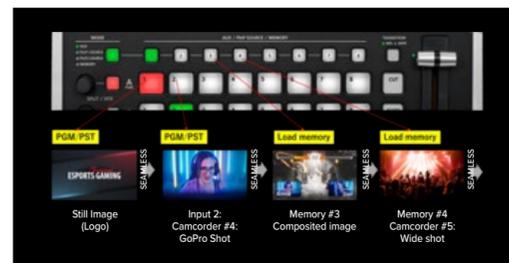- **Layer 5** Add one downstream keyer layer.

Ultra-Mobile, Lightweight, and Efficient

The AV production table is the last thing on an event organizer's mind. Thanks to its compact footprint, the V-8HD fits effortlessly into any live production environment, even when you have to deal with minimal setup space. And it only weighs around 4 lb./2 kg, making it easy to carry in a backpack or luggage. With its smart feature set, 8 HDMI inputs, built-in 18-channel audio mixer, and support for external battery power, the streamlined V-8HD is the most versatile and efficient HDMI switcher available.

Seamless Memory Recall

With the V-8HD, storing and recalling individual scenes is done by pressing a few buttons. The 8 present memories and powerful composition effects engine work together to provide completely seamless loading and switching of inputs and stored scenes.

| Still Image (Logo) | Input 2: Camcorder #4: GoPro Shot | Memory #3 Composited image | Memory #4 Camcorder #5: Wide shot |

Record Triggering and Confirmation

Many technical elements contribute to a successful recording. But forgetting to hit the record button means the difference between getting paid for the job or not. Via HDMI, the V-8HD operator can trigger Atomos recorders to start and stop recording. And some camcorders even display a recording confirmation icon on the input channel of the V-8HD's multiviewer screen, letting you keep an eye on the recording status while staying focused on other critical tasks.

Separate Feeds for Separate Needs

Presenter comfort monitors, live streams, and recording feeds often require different visual content from the main program output. The V-8HD has you covered, with assignment buttons for sending any of your connected input devices to a dedicated AUX output without affecting the main feed. It's also possible to synchronize the AUX output with the program output, giving you a built-in 2x distribution amp.

Audio and Effects

A crystal-clear sound mix is essential for professional presentations. That's easy to achieve with the V-8HD, which allows pros and beginners alike to quickly create engaging mixes that sound great. The studio-grade, 18-channel audio mixer blends signals from the eight HDMI inputs and stereo RCA inputs, while a feature-packed preset effects library provides setups for everyday production environments like meetings and interviews, plus challenging situations that require wind noise reduction and microphone de-essing.

Built-In Multiviewer Display

The V-8HD's bright, 4.3-inch multiviewer display means less gear to buy and haul to the gig. From a single screen, you can monitor all 8 video inputs, PGM, and PVW plus menu overlay. Input windows show camcorder recording status and embedded audio levels. Connect a larger external screen for an immense multiviewer experience, or to make menu changes without moving the focus from the action.
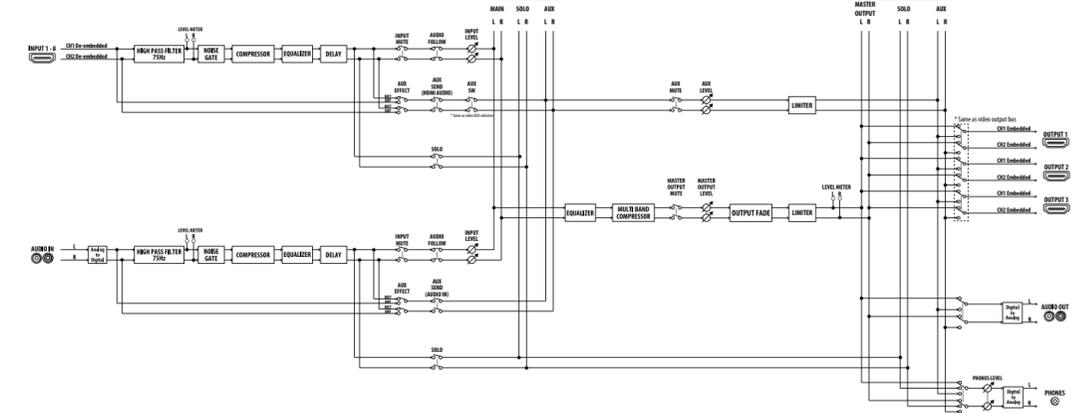

Automated Video Switching

The V-8HD makes your job easier with three technology assisted automatic switching modes. Input Scan switches input sources randomly or in sequence, while Preset Memory Scan switches between preset memories. Beats Per Minute (BPM) Sync is also available, automatically switching Preview and Program at a specified tempo.
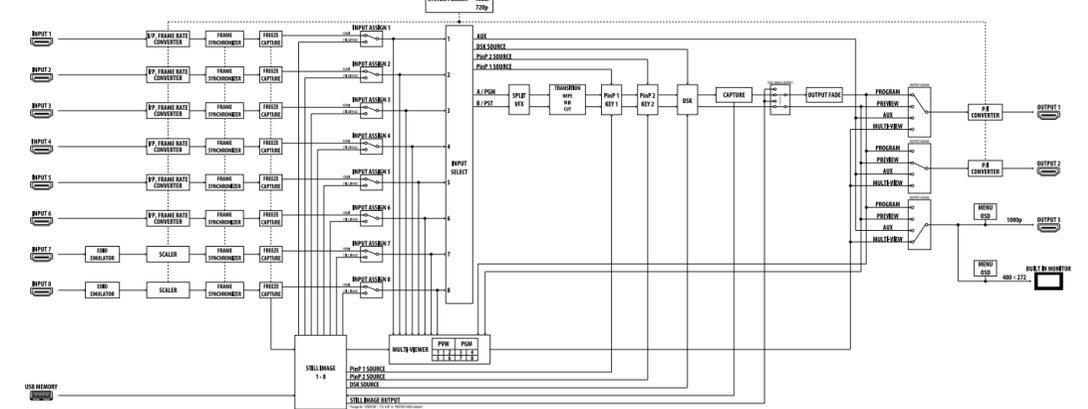
V-8HD iPad Remote Control Utility

The dedicated V-8HD remote control app turns an iPad into an efficient touch interface for the V-8HD.

Audio block diagram

Video block diagram

Dimensions

unit = mm