

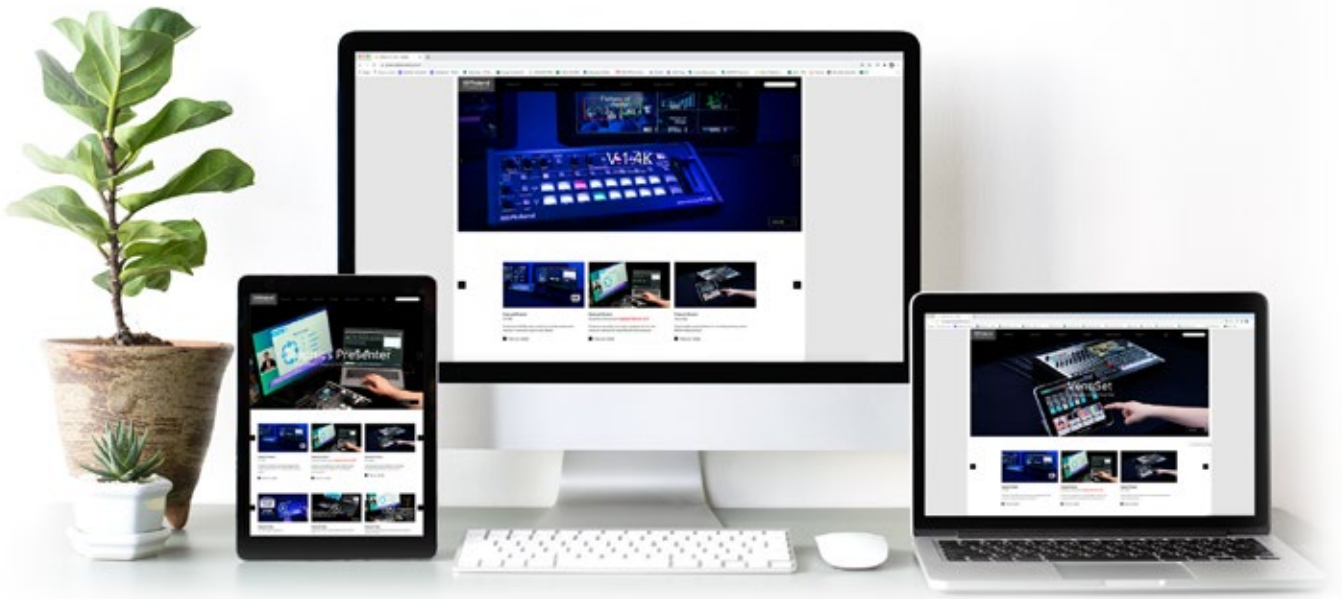


 **Roland**
Professional A/V

PROFESSIONAL VIDEO EQUIPMENT

2026 CATALOGUE





Welcome

Roland offers an array of professional video solutions for multiple applications, combining superb product quality with award-winning design. As the product of choice for video professionals on a global scale, the video range is feature-rich, innovative and built on the ground-breaking digital technology that has made Roland a market leader.

Roland first entered the world of professional video in 1998 with the V-5 Video Canvas, which delivered unprecedented quality and functionality at an accessible price.

As the world of professional video evolves, we are inspired to develop products with increasingly sophisticated features, that can deal with ever-changing hardware and software, handle those last-minute changes and still deliver a seamless result. That's why Roland's professional video products are designed through consultation with the market and – most importantly – the end user, so that every requirement is met. The result is a comprehensive portfolio of compact, integrated products that provide the flexibility and connectivity demanded by video professionals.

From portable, full-HD studio gear that can mix, edit, record and distribute audio/video, to full 4K switchers that connect and display multiple sources simultaneously, Roland video equipment has the features you need to achieve professional results. In addition to these all-important features, we've enhanced the user

experience by incorporating intuitive user interfaces, touchscreen displays, preview monitors and clear workflows into the product design.

As Roland Corporation celebrated its 50th year in 2022, we take pride in holding our place at the cutting edge of video technology. The audiovisual world is constantly evolving, more so in recent years, and we have responded with award-winning multi-camera livestreaming and hybrid event solutions. The Roland philosophy to 'inspire enjoyment through creativity' has never been stronger.

Whether you're working in corporate, broadcast, live production, livestreaming, visual performance or house of worship, Roland professional video gear has all the features you are looking for – and more. And if your requirement is for video switchers, streaming switchers, matrix switchers, converters or equipment for recording and playback, our products are reliable, powerful and affordable.

For further information, visit the Roland Professional Video website for video tutorials, application guides, product brochures and case studies.

PROAV.ROLAND.COM



VIDEO SWITCHERS

AV MIXERS AND
STREAMING DEVICES

MATRIX SWITCHERS

TITLER/MOTION GRAPHICS &
CONTROL SOFTWARE

VIDEO PROCESSOR

VIDEO INSTANT REPLAY

CONVERTERS

ACCESSORIES



[V-1-4K](#)



[V-02HD MK II](#)



[V-1HD](#)



[V-1HD±](#)



[V-8HD](#)



[V-1SDI](#)



[V-80HD](#)



[V-160HD](#)



[V-600UHD](#)



[VR-1HD](#)



[VR-6HD](#)



[VR-120HD](#)



[VR-400UHD](#)



[XS-1HD](#)



[XS-42H](#)



[XS-62S](#)



[VenuSet](#)



[Graphic Presenter](#)



[VP-42H](#)



[P-20HD](#)



[VC-1SC-4K](#)



[JVC-01](#)



[JVC-02](#)



[VC-1 DMX](#)



[VC-100UHD](#)



[SDI Cables](#)



[CB-BV1](#)



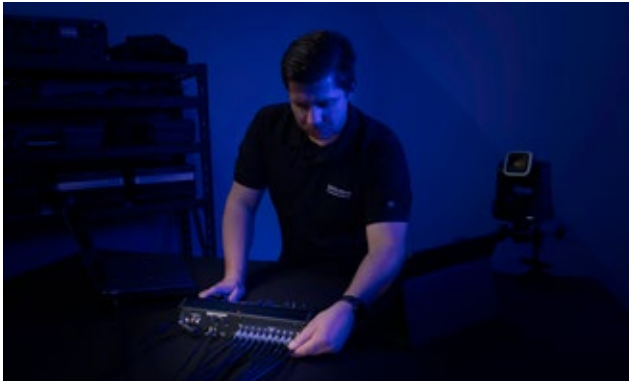
▼ P60



▼ P58

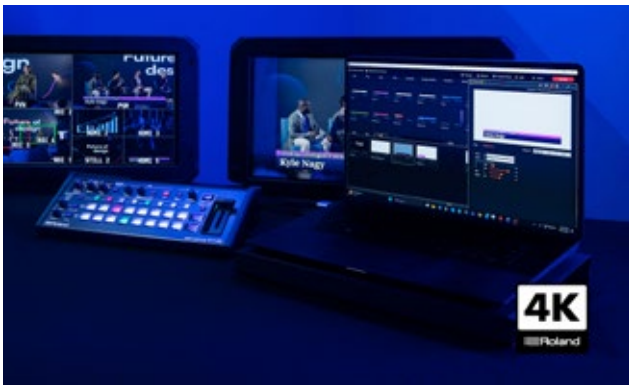
The new benchmark in compact 4K switching for live event production

- Professional 4K 60p switcher with HDR support and flexible connectivity
- All-in-one design that's easy to carry and set up
- Intuitive panel layout with customizable pads and T-bar
- Five HDMI 2.0 inputs, four HDMI 2.0 outputs, multi-view output, and USB 4K 60p streaming output
- Two XLR line inputs, stereo RCA output, and 3.5 mm stereo output for phones and external audio destinations
- ROI (Region of Interest) function enables cropping up to four areas from a single 4K video source
- Multi-channel audio mixing and effects
- PTZ control with support for multiple brands and mixed protocols running at once
- Extensive device control over USB and LAN
- Graphics Presenter software for Windows elevates live productions with stunning graphics
- V-1-4K remote control software available for iPad, macOS, and Windows
- VenuSet control panel app for iPad, macOS, and Windows streamlines operation for users of any skill level



HDMI Connectivity with Input Scaling

The V-1-4K features five HDMI inputs with scalers on every channel, enabling seamless switching between HD and 4K 60p HDR video sources. Five HDMI output channels include multi-viewer functionality, allowing independent video signals to be fed to a main monitor, a confidence monitor, and other destinations without a distribution amplifier.



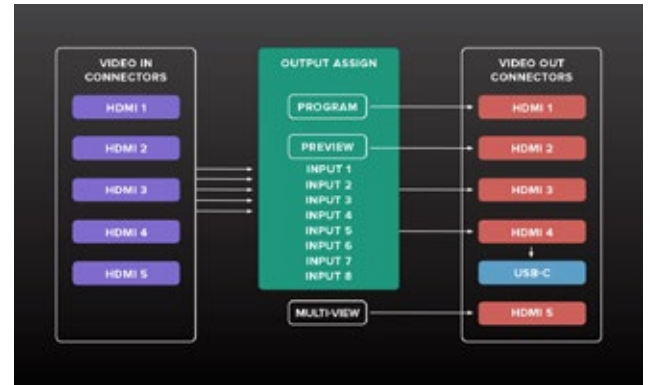
Professional Graphics in 4K

Graphics Presenter software for Windows allows you to create stunning titles and graphics without the need for expensive third-party graphic presentation solutions. V-1-4K setup is quick and straightforward, requiring only a single HDMI connection to send fill and key signals from the computer to the switcher. Graphics Presenter Version 3.0 and later supports 4K and HD workflows with a wide selection of ready-to-edit templates, including animated title text, sports scores, motion graphics, and more. The software and templates are available free of charge for download on Roland Cloud.



Efficient Multi-Angle Shots with ROI

The ROI (Region of Interest) processor lets you compose up to four shots from a single 4K camera image, such as a wide shot of the stage, a medium shot of a speaking panel, and close-ups of each speaker. This powerful feature elevates your production value without increasing camera count, complexity, or costs. Using the V-1-4K RCS or V-1-4K Remote app, it's easy to set and adjust cropped areas from a computer or iPad.



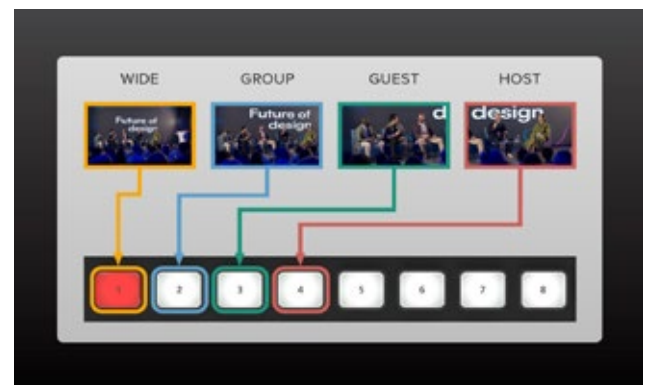
Flexible Routing

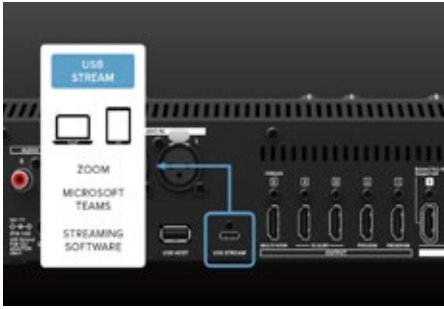
The five video inputs and six total outputs (HDMI plus USB streaming) offer flexibility for a wide range of production needs. In addition to program, preview, and multi-view outputs, output channels 3 and 4 can be assigned to any output bus and any input signal via 4K-to-HD downscalers.



Video Composition Tools

The V-1-4K makes it simple to keep audiences engaged with layered graphics and visual effects. Three composition layers allow you to use scalable picture-in-picture images and add titles, logos, social media comments, and more.





Plug-and-Play Streaming Up to 4K 60p

The V-1-4K uses the same connection technology as webcams for a plug-and-play streaming experience. Simply connect the USB-C output to a computer and start streaming with Zoom, Microsoft Teams, or any streaming platform that supports a standard webcam connection.

Deep PTZ Camera Integration

Robotic PTZ (pan-tilt-zoom) cameras greatly expand your production capabilities, thanks to their small size and remote-controlled positioning. The V-1-4K includes built-in control support for select Canon, JVC, Panasonic, Sony, PTZOptics, Avonic, and VISCA-compatible PTZ LAN cameras. Mix and match different brands and operate up to five PTZ cameras simultaneously. The V-1-4K Remote app for iPad is an ideal companion for PTZ operation, providing remote camera controls from the tablet.

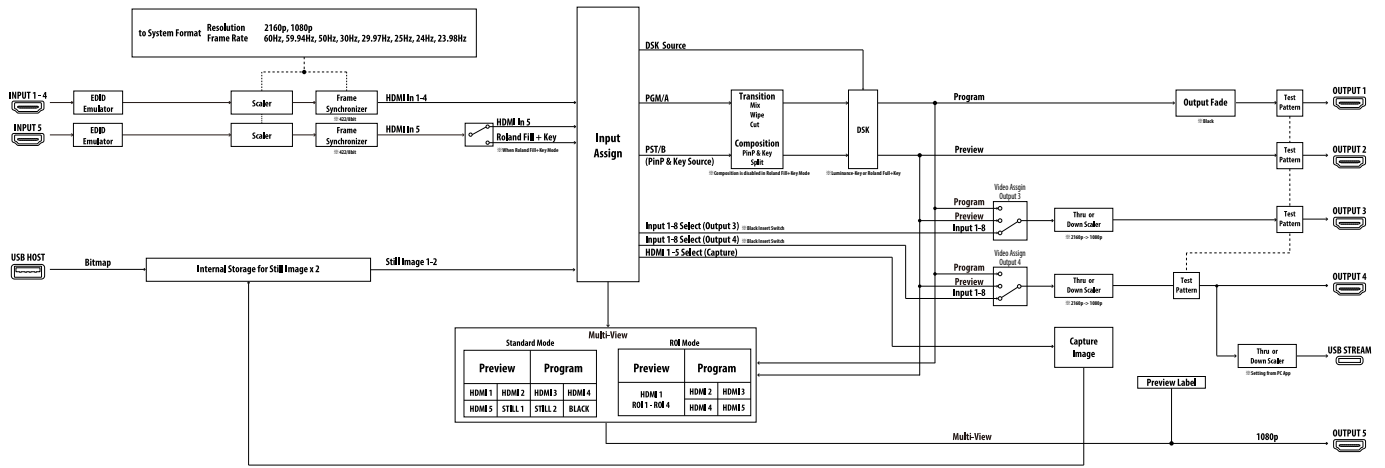


SPECIFICATIONS V-1-4K

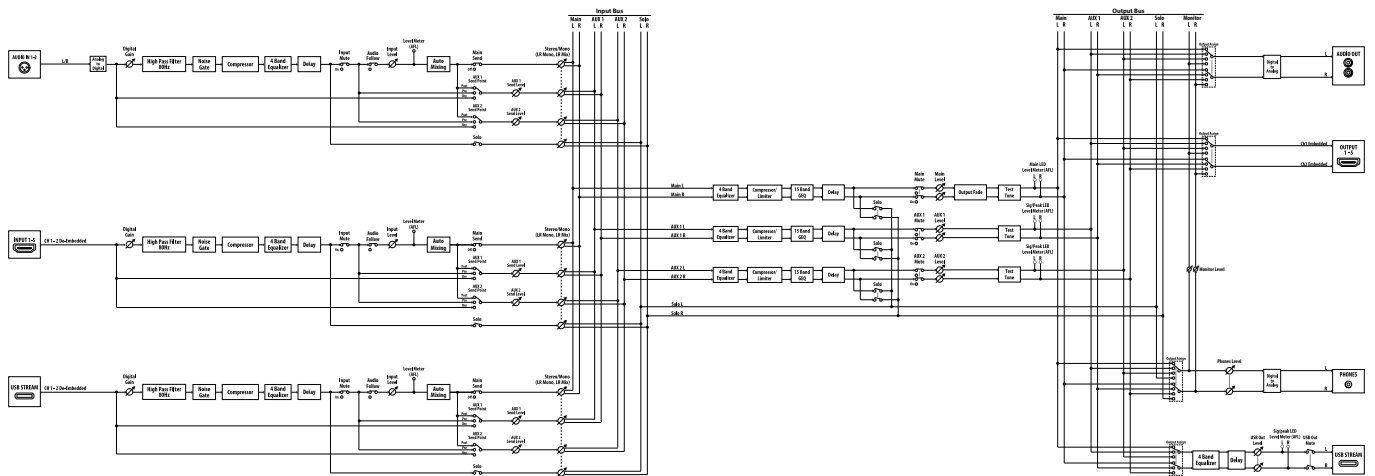
VIDEO	
Video Processing	4:2:2 (Y/Pb/Pt), 8-bit
Video Channels	5 channels
Video Input Formats	HDMI IN 1--5: 720/60p, 59.94p, 50p 1080/59.94i *1, 50i *1 1080/60p, 59.94p, 50p, 30p, 29.97p, 25p, 24p, 23.98p 2160/60p *2, 59.94p *2, 50p *2, 30p, 29.97p, 25p, 24p, 23.98p UXGA(1600x1200/60Hz), WUXGA(1920x1200/60Hz), WQHD (2560x1440/60Hz) *3 * Conforms to CEA-861-G, VESA CVT. * HDMI IN 5 support Roland FILL+KEY signal * Color Gamut and Dynamic Range are the same as the system format. *1 The input interlaced video signal is converted to progressive video signal by internal processing. *2 HDMI IN 1--3 supports YUV420. *3 Reduced Blanking
Video Output Formats	HDMI OUT 1--2 (1080/60p *1, *3, 1080/59.94p *1, *4, 1080/50p *1, *5, 1080/30p *1, *6, 1080/29.97p *1, *7, 1080/25p *1, *8, 1080/24p *1, *9, 1080/23.98p *1, *10, 2160/60p *2, *3, 2160/59.94p *2, *4, 2160/50p *2, *5, 2160/30p *2, *6, 2160/29.97p *2, *7, 2160/25p *2, *8, 2160/24p *2, *9, 2160/23.98p *2, *10 *1 System Format = 1080p, *2 System Format = 2160p, *3 Frame Rate = 60 Hz, *4 Frame Rate = 59.94 Hz, *5 Frame Rate = 50 Hz, *6 Frame Rate = 30 Hz, *7 Frame Rate = 29.97 Hz, *8 Frame Rate = 25 Hz, *9 Frame Rate = 24 Hz, *10 Frame Rate = 23.98 Hz HDMI OUT 3--4 1080/60p *1, *3, *4, 1080/59.94p *1, *3, *5, 1080/50p *1, *3, *6, 1080/30p *1, *3, *7, 1080/29.97p *1, *3, *8, 1080/25p *1, *3, *9, 1080/24p *1, *3, *10, 1080/23.98p *1, *3, *11, 2160/60p *2, *4, 2160/59.94p *2, *5, 2160/50p *2, *6, 2160/30p *2, *7, 2160/29.97p *2, *8, 2160/25p *2, *9, 2160/24p *2, *10, 2160/23.98p *2, *11 *1 System Format = 1080p, *2 System Format = 2160p, *3 System Format = 2160p and Down-convert = ON, *4 Frame Rate = 60 Hz, *5 Frame Rate = 59.94 Hz, *6 Frame Rate = 50 Hz, *7 Frame Rate = 30 Hz, *8 Frame Rate = 29.97 Hz, *9 Frame Rate = 25 Hz, *10 Frame Rate = 24 Hz, *11 Frame Rate = 23.98 Hz, * Color Gamut: Rec.709, Rec.2020, * Dynamic Range: SDR, HDR PQ (HDR10), HDR HLG, * HDMI OUT 3--4 can be Down-convert out (1080p) when system format is 2160p. * Conforms to CEA-861-G. HDMI OUT 5 (MULTI-VIEW) 1080/60p * Color Gamut: Rec.709, * Dynamic Range: SDR, * Conforms to CEA-861-G. USB STREAM: 1080/60p, 59.94p, 50p, 30p, 29.97p, 25p, 2160/60p, 59.94p, 50p, 30p, 29.97p, 25p *Supports Uncompressed Video (YUY2) and Compressed Video (Motion JPEG).
Still Image	Bitmap File (.bmp) Up to 3840 x 2160 pixels, 24-bit color, uncompressed. * It can be stored up to 2 files in the internal memory.
Video Effects	Transition: Cut, Mix (Dissolve), WIPE (8 types), SPLIT (2 types) Composition: PinP x 1 (Square), Keyer x 1 (Luminance Key, Chroma Key), DSK (Luminance Key), Roland FILL+KEY Mode Other: Multi-View (1 types), Still Image capture, Still Image playback, Output fade (Audio, Video: Black), Test pattern output

* 0 dBu = 0.775 Vrms
 * This product is a Class A digital device under FCC part 15.
 * The terms HDMI, HDMI High-Definition Multimedia Interface, HDMI Trade dress and the HDMI Logos are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.

AUDIO	
Audio Processing	Sample rate: 24 bits, 48 kHz
Audio Channels	14 channels
Audio Formats	USB STREAM (input/output): Linear PCM, 16 bits, 48 kHz, 2 ch HDMI IN: Linear PCM, 24 bits, 48 kHz, 2 ch HDMI OUT: Linear PCM, 24 bits, 48 kHz, 2 ch
Audio Effects	Channel Effects: High pass filter, Noise gate, Compressor, 4-Band equalizer, Delay, Auto mixing Master Effects: 4-Band equalizer, Compressor/Limiter, 15-Band GEQ, Delay Other: Output fade, Test tone output
COMMON SECTION	
Other Functions	Memory (8 types), Panel lock function, EDID Emulator, Auto Switching Smart Tally, Remote Camera Control (Up to 5 units)
CONNECTORS	
Video Input Connectors	HDMI IN 1--5: HDMI type A x 5 (HDMI2.0) * HDCP 1.4 2.2 Supported, * Multi-format Supported
Video Output Connectors	HDMI OUT 1--4: HDMI type A x 4 (HDMI2.0) * HDCP 1.4 2.2 Supported HDMI OUT 5: HDMI type A x 1 (HDMI1.4) * HDCP 1.4 Supported USB STREAM: USB Type-C (R) (USB2.0 / USB3.2 Gen1)
Audio Input Connectors	Analog: AUDIO IN 1--2: XLR type Digital: USB STREAM: USB Type-C (R) HDMI IN 1--5: HDMI type A x 5
Audio Output Connectors	Analog: AUDIO OUT 1--2: RCA phono type PHONES: Stereo miniature phone type Digital: USB STREAM: USB Type-C (R) HDMI OUT 1--5: HDMI type A x 5
Other Connectors	USB HOST: USB A type (for USB flash drive) USB STREAM: USB Type-C (R) (for remote control from PC and iPad) LAN CONTROL: RJ45, 100BASE-T (for Remote Control)
AUDIO INPUT/OUTPUT CHARACTERISTICS	
Input Level	AUDIO IN 1, 2: +4 dBu (Maximum: +24 dBu)
Input Impedance	AUDIO IN 1, 2: 16 k ohms
Output Level	AUDIO OUT 1, 2: -10 dBu (Maximum: +10 dBu) PHONES: 92 mW + 92 mW (32 ohms)
Output Impedance	AUDIO OUT 1, 2: 1 k ohms PHONES: 10 ohms
OTHERS	
Power Supply	AC Adaptor
Current Draw	4 A
Power Consump.	52 W
Operating Temp.	+0 to +40 degrees Celsius, +32 to +104 degrees Fahrenheit
Dimensions	330 (W) x 164 (D) x 79 (H) mm, 13 (W) x 6-1/2 (D) x 3-1/8 (H) inches
Weight (excl. AC ad.)	1.9 kg, 4 lbs 4 oz
Accessories	Startup Guide, Leaflet "USING THE UNIT SAFELY", AC adaptor Power cord



VIDEO BLOCK DIAGRAM



AUDIO BLOCK DIAGRAM

Powerful 4K Switching and Streaming in a Portable, All-in-One Design

Roland's popular V-1 series has led the industry since 2004, redefining entry-level video switching with innovative, professional-grade products that are easy for anyone to operate with minimal training. The V-1-4K sets a new benchmark, offering comprehensive support for today's 4K 60p workflows in a compact, accessible, and user-friendly hub for live events, houses of worship, conference rooms, livestreaming, and more.



V-600UHD

4K MULTI-FORMAT VIDEO SWITCHER



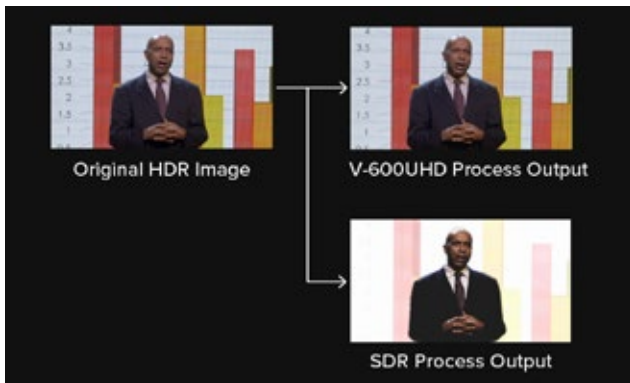
Upgrade your events to 4K HDR — one input at a time

- 4K without compromise
- High Dynamic Range [HDR]
- Full 50/60Hz frame rate
- A more vivid color space
- 10-bit 4:4:4 pixel-accurate color
- Support for DCI cinema 4K resolution
- The right I/O for your show
- Capture all the action with a single 4K camera
- Get creative with composition
- Audio system integration
- The best solution for working with LED displays
- Automatic ROI
- PTZ Control



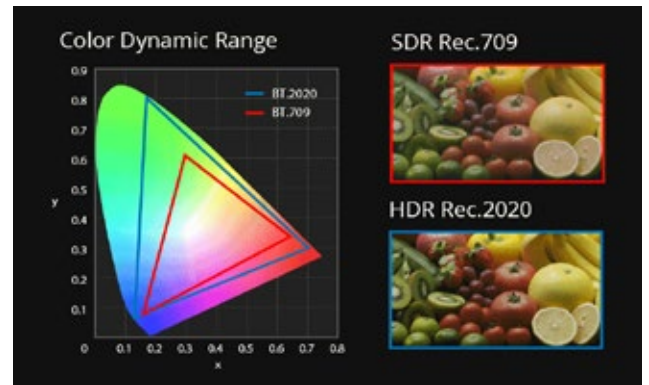
As clients and audiences start demanding 4K at events, your current HD sources and displays shouldn't become obsolete — and the V-600UHD lets you transition to 4K workflows as demand and budgets allow. With Roland's Ultra Scaler technology, scaling is provided on every input, so you can use Full HD and 4K sources simultaneously, and output at multiple resolutions. You can also leverage the high pixel density of 4K camera sources in Full HD workflows for problem-free, visually-impressive productions.

4K Without Compromise: upgrading to 4K greatly improves the image quality in your productions, so why compromise with switchers that may deliver more pixels but omit the true capabilities of 4K?



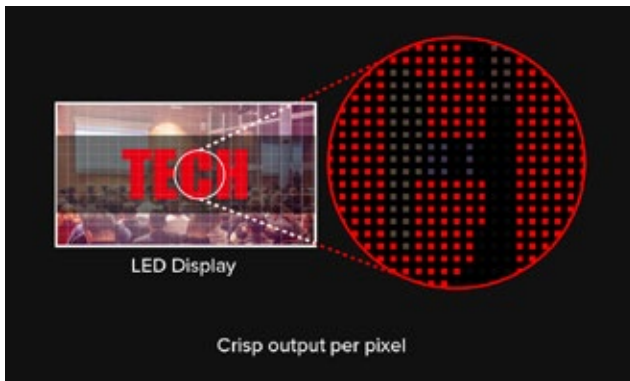
High Dynamic Range [HDR]

The V-600UHD uses High Dynamic Range [HDR] so your events look amazing. You don't just see more pixels, you see better, more dynamic-looking pixels that preserve the details in the darkest and brightest areas of an image. HDR provides well-balanced stage lighting without oversaturation for IMAG (and it's easier to achieve compared with using SDR.) And SDR dynamic range signals can also be input and switched with the V-600UHD.



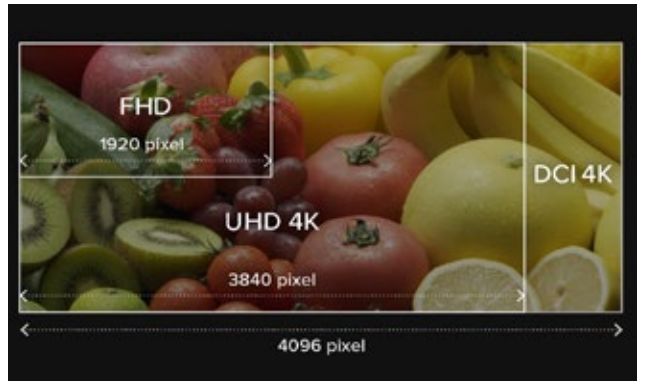
A more vivid color space

The V-600UHD supports Rec.2020, the highest-specification Wide Color Gamut (WCG), as well as RGB and Rec.709 standards to display the widest range of visible colors. This provides an increased level of realism and improved color accuracy, especially for red and yellow color ranges.



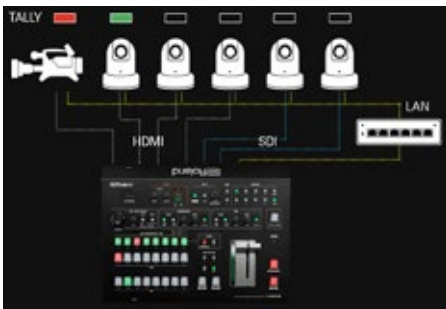
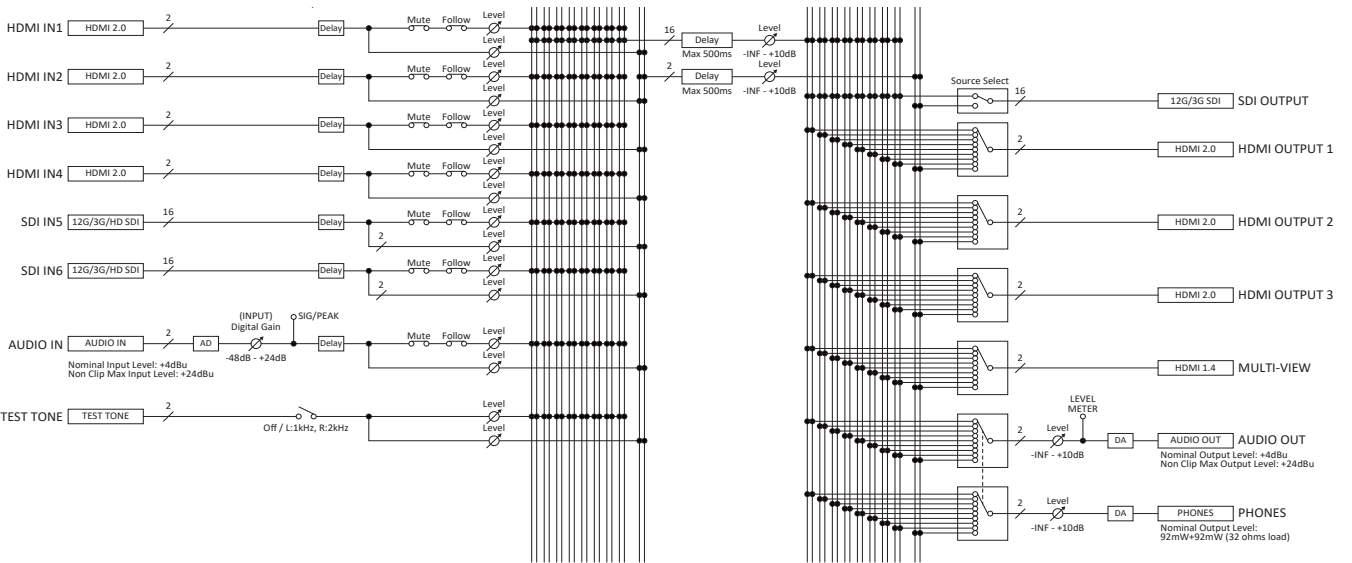
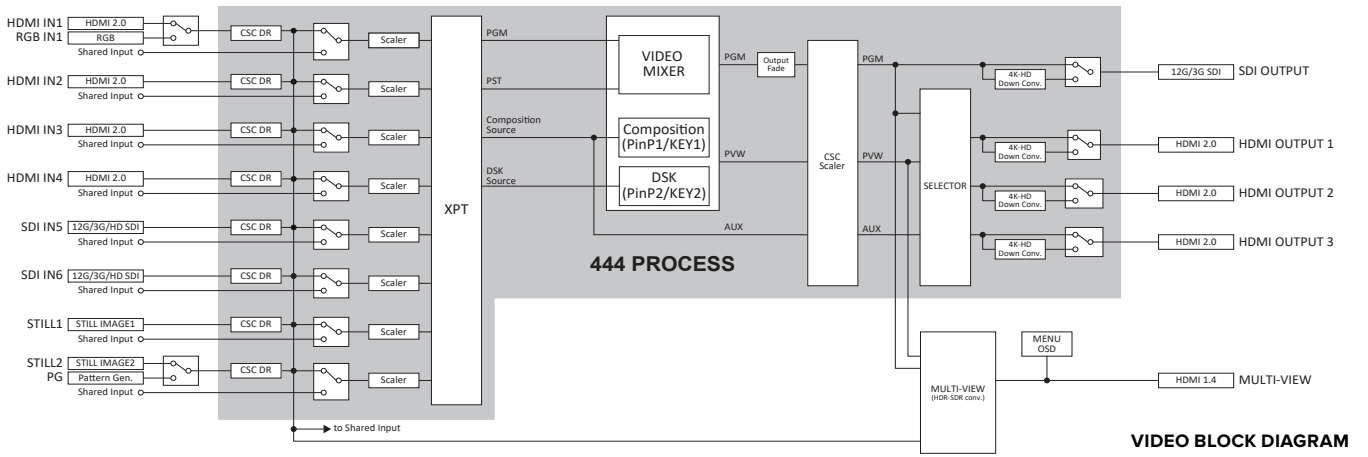
10-bit 4:4:4 pixel-accurate color

Internal 10-bit Color Depth processing reduces color banding and sharpens high-detail sources from computers. This makes it easier to read small fonts and other fine details, even when drastically scaled and magnified.



Support for DCI cinema 4K resolution

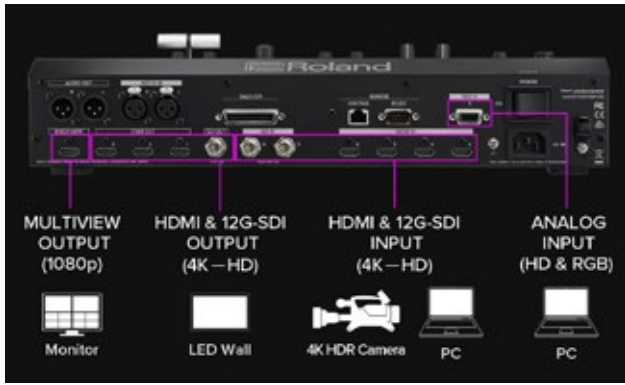
Not all 4K content has the same aspect ratio. Although 4K content is always 2160 pixels high, DCI or "Cinema 4K" is 4096 pixels wide, which is 256 pixels wider than UHD. The V-600UHD lets you switch and display content at the originally intended aspect ratio, without cropping or letterboxing.



Multiple PTZ & remote camera control

When LAN based, PTZ cameras are called into action, take control using the V-600UHD. Seamlessly integrate JVC, Panasonic, Sony, PTZ Optics, Avonic, and VISCA compatible professional pan-tilt-zoom (PTZ) robotic cameras to streamline workflow without needing a dedicated controller.





The right I/O for your show

The V-600UHD has four HDMI 2.0 and two 12G SDI inputs, perfect for events needing several computer and video playback sources complete with IMAG camera support. Each input independently supports input and scaling of HD, Full HD, UHD 4K, and DCI 4K, as well as PC resolutions from UXGA to DCI 4K — with no converters needed. AUX destination switching makes it easy to include down-stage confidence monitors, while the configurable multi-view monitor lets you see all your sources, programs and previews — at a glance. Each output also supports downscaling to Full HD for outputting to streaming encoders or other HD-equipped destination displays.



Capture all the action with a single 4K camera

You don't need multiple cameras for multiple shots. If your production requires a wide shot of the stage, a medium shot of the speaking panel, and close-ups of each speaker, the V-600UHD has you covered with built-in Region of Interest [ROI]. This allows you to point a single 4K camera at the stage and use the V-600UHD's input sharing and scaling functions to crop out up to eight "camera shots" that you can assign to the V-600UHD's cross points. Increase your production value without increasing your camera count, complexity or costs.

SPECIFICATIONS V-600UHD

VIDEO	
Video Processing	YCbCr 4:4:4, 10-bit
Video Channels	6 channels
Supported Video Input Formats (*1)	HDMI (Video, CEA-861-F): 720p: 1280 x 720p, 50/59.94/60 Hz, 1080i: 1920 x 1080i, 50/59.94/60 Hz, 1080p: 1920 x 1080p, 23.98/24/25/29.97/30/50/59.94/60/100/119.88/120 Hz, 2160p (UHD): 3840 x 2160p, 23.98/24/25/29.97/30/50/59.94/60 Hz, 2160p (DCI): 4096 x 2160p, 23.98/24/25/29.97/30/50/59.94/60 Hz (PC, VESA DMT): 1024x768 (XGA): 60 Hz, 1280x1024 (SXGA): 60 Hz, 1600x1200 (UXGA): 60 Hz (PC, VESA CVT): 1280x768 (WXGA): 60 Hz, 1280x800 (WXGA): 60 Hz, 1400x1050 (SXGA+): 60 Hz, 1920x1200 (WUXGA): 60 Hz (Reduced blanking), 2560x1440 (WQHD): 60/120 Hz (Reduced blanking) (CEA-861-F): 1920x1080 (FHD): 30/60 Hz, 3840x2160 (UHD): 24/30/60 Hz, 4096x2160 (DCI): 24/30/60 Hz SDI (Video, SMPTE ST296): 720p: 1280 x 720p, 50/59.94/60 Hz (Video, SMPTE ST274): 1080i: 1920 x 1080i, 50/59.94/60 Hz, 1080p: 1920 x 1080p, 23.98/24/25/29.97/30/50/59.94/60 Hz (Video, SMPTE ST2048-2): 1080p (2K DCI): 2048 x 1080p, 23.98/24/25/29.97/30/47.95/48/50/59.94/60 Hz (Video, SMPTE ST2036-1): 2160p (UHD): 3840 x 2160p, 23.98/24/25/29.97/30/50/59.94/60 Hz (Video, SMPTE ST2048-2): 2160p (DCI): 4096 x 2160p, 23.98/24/25/29.97/30/47.95/48/50/59.94/60 Hz RGB (PC, VESA DMT): 1600 x 1200 (UXGA): 60Hz (PC, CEA-861-F): 1920 x 1080 (FHD): 60Hz
	Supported Video Output Formats (*1)
Still Image	Windows Bitmap File (.bmp), Maximum 4096 x 2160 pixels, 24-bit color, uncompressed, PNG File (.png), Maximum 4096 x 2160 pixels (Alpha channel of PNG file is not loaded)
Video Effects	Transition: Mix, Cut, Wipe (9 patterns) Composition: PinP, Key (*3), PinP + Key (*3) DSK: PinP, Key (*3), PinP + Key (*3) Pattern Generator: 12 patterns, 4 motions Others: Output Fade, Output Freeze, Output Capture

(*1) Color Gamut: Rec.709, Rec.2020, Dynamic Range: SDR, HDR PQ (HDR10), HDR HLG

(*2) Available when the following settings are used.

• In System menu 0 Processing 0 Format: 3840x2160

• In Output menu 0 HDMI OUT 1—3 0 Down Convert: Enabled

(*3) Luminance Key, Chroma Key

AUDIO	
Audio Processing	24 bits/48 kHz
Audio formats	SDI IN/OUT: Linear PCM, 24 bits/48 kHz, 16 ch (Conforms to SMPTE 299M) HDMI IN/OUT: Linear PCM, 24 bits/48 kHz, 2 ch
Audio Effects	Matrix mixer Delay (1 ms units, max 500 ms) Test tone output
Input Level	AUDIO IN L/R: +4 dBu (Maximum: +24 dBu)
Input Impedance	AUDIO IN L/R: 15 k ohms
Output Level	AUDIO OUT L/R: +4 dBu (Maximum: +24 dBu) PHONES: 92 mW + 92 mW (32 ohms)
Output Impedance	AUDIO OUT L/R: 600 ohms PHONES: 10 ohms
OTHERS	
Other Connectors	USB MEMORY port: USB A type (for USB flash drive) RS-232 connector: DB-9 type (Male) (for Remote Control) LAN port: RJ45 type, 100BASE-TX (for Remote Control) TALLY/GPI port: DB-25 type (Female) (Tally: 16, GPI: 8) * XLR type: 1 GND, 2 HOT, 3 COLD
Other Functions	Memory (64 settings), EDID Emulator (HDMI IN), Panel Lock function, Remote Camera Control
Power Consumption	80 W
Operating Temp.	+5 to +40 degrees Celsius +41 to +104 degrees Fahrenheit
Dimensions	482 (W) x 300 (D) x 109 (H) mm 19 (W) x 11-13/16 (D) x 4-5/16 (H) inches * When rack mount angles are fitted.
Weight	5.3 kg 11 lbs 11 oz * Including rack mount angles.
Accessories	Owner's Manual Power cord Rack-mount angle x 2

* 0 dBu=0.775 Vrms

* This product is a Class A digital device under FCC part 15.

V-160HD

STREAMING VIDEO SWITCHER VERSION 3.1



▼ P60



▼ P58

The new standard in hybrid event switching

- Portable hybrid event switcher with comprehensive features and connectivity
- Nine selectable output modes: PGM, Sub PGM, 3xAUX, PVW and three multi-view options
- Eight-layer video effects engine
- Powerful live production automation with sequencing, macros, and preset memories
- Extensive device control with Bluetooth, USB, RS-232, Numeric Keypad and LAN
- Wireless and wired camera tally support
- Eight 3G SDI inputs with frame rate converters
- Eight 1080p HDMI inputs with frame rate converters, including four with real-time scalars
- Seven total outputs across SDI, HDMI, and USB-C streaming
- 40-channel digital audio mixer with effects and processing
- 16-slot still store function supports screen capture or uploaded BMP, JPEG, and PNG images via alpha channel in the internal non-volatile memory
- PTZ control with support for multiple brands and mixed protocols running at once
- Remote control software for iPad, macOS, and Windows
- iPad video monitoring and switching
- Graphics Presenter support – this free, easy-to-use software for Windows computers **Ver.3.1**
- New Chroma Key Engine – upgraded keyer algorithms allow for more precise composition in real time **Ver.3.1**



Hybrid to the max

The V-160HD combines the robust hardware needed to flawlessly execute live productions with the livestreaming capabilities found in computer-based systems. While software workflows are fine for online-only events, the V-160HD delivers the pro essentials you need for both the in-person and streaming components of a live hybrid event, complete with the ability to tailor the content for each audience.

On-demand signal processing means you never have to worry about issues like computer CPU overhead, latency, and output delay on live audience screens. Integrated connectivity standards like SDI, HDMI, XLR, and USB-C eliminate the need to build out costly infrastructure and conversion processes. The comprehensive interface provides hands-on controls that can be learned quickly by a single operator.

Presets, macros, and advanced sequencing features let you set up and automate complex switching tasks with one touch.



Stream live

The V-160HD uses the same connection technology as webcams,* allowing you to stream events at 30/60 FPS in Full HD** and reach a worldwide audience. Simply connect the USB-C output to a computer and start streaming with Zoom, Microsoft Teams, YouTube, Facebook Live, or any platform that can use a webcam as its source. Everything is plug and play, with no driver installation needed.

*USB video class (UVC) and USB audio class (UAC) compliant.

**YUV2 (uncompressed) and Motion JPEG (compressed) formats supported.



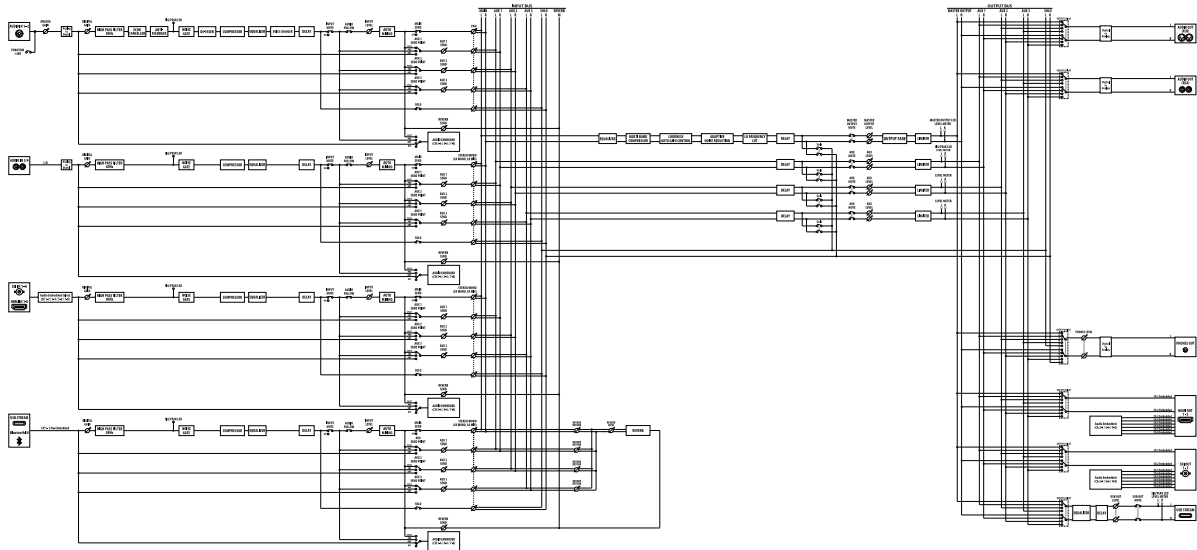
One-touch automation

The V-160HD's newly developed sequencer makes presets and macros even more powerful, allowing a single operator to execute perfectly timed cues with ease. Up to 1000 steps can be recorded in the sequencer, and each step can include both presets and macros. Simply set up your cues ahead of time in the sequence list and trigger them in order using the Next button on the panel. With the power of the V-160HD's sequencer, you can tackle the most complex events without ever breaking a sweat.

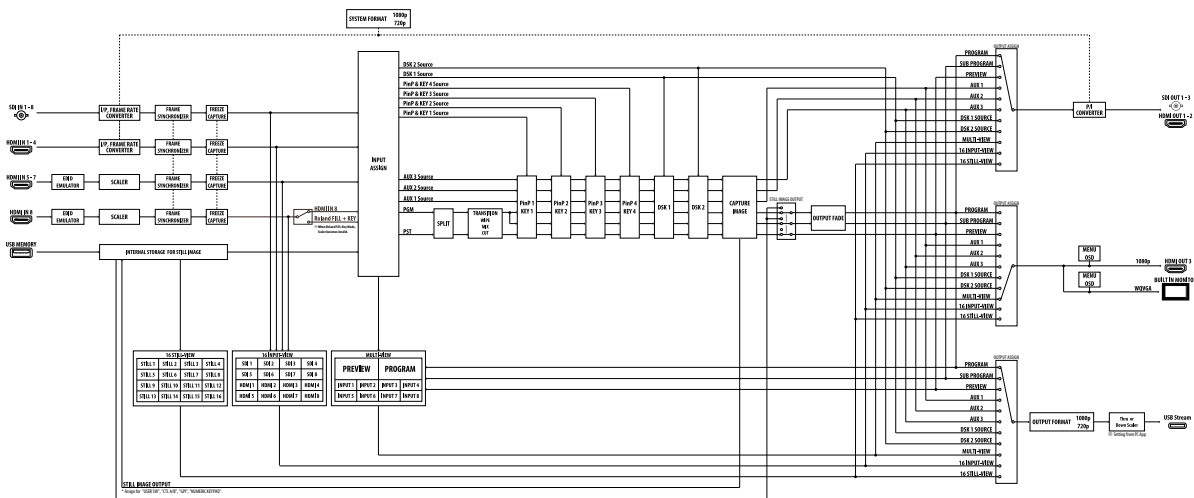


HDMI and SDI connectivity

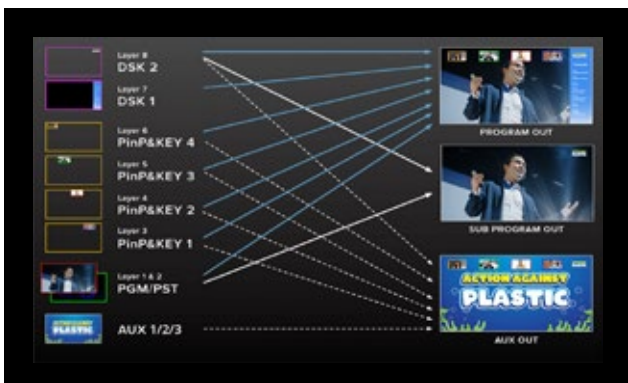
The V-160HD supports HDMI for common A/V devices plus SDI for long cable runs and high-end cameras. Seamlessly mix eight HDMI sources and eight SDI sources in Full HD, even with mismatched frame rates and color spaces. And with built-in scalers on four of the HDMI inputs, you can easily interface with client-provided sources like computers, tablets, smartphones, gaming consoles, and legacy 4:3 devices.



AUDIO BLOCK DIAGRAM



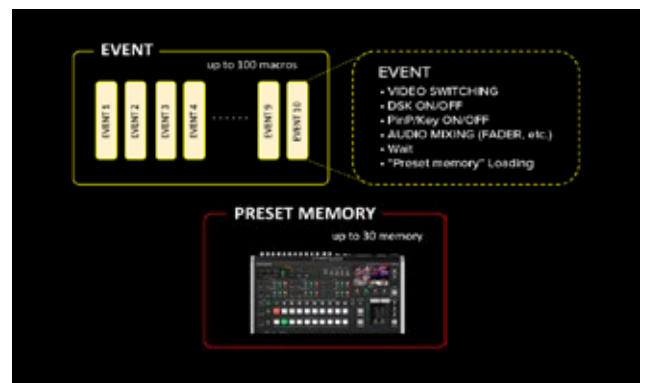
VIDEO BLOCK DIAGRAM



Powerful video effects engine

Video effects and graphics are must-haves to bring polish and excitement to any production. The V-160HD's effects engine features eight composition layers that can be assigned to the Program and Sub-Program outs, so you'll always keep audiences engaged with visually appealing content. With up to four picture-in-picture windows, downstream key layers, 16 still store slots with transparent PNG image support, and more, you can manage the creative needs of any client.

For example: Layers 1-2: Start with a mixable live background video layer. Layers 3-6: Place four picture-in-picture layers or chroma/luminance key effects. Layers 7-8: Add two downstream keyers with support for fill and key inputs.



Instant recall

Storing and recalling custom looks can be accomplished with just a few button presses on the V-160HD. The 30 preset memories and powerful effects engine work together to provide seamless scene changes, including synchronizing the transition of all composition layers at the program output. The 100 macros go even deeper, allowing you to build and fire off complex action lists that include switching, DSK on/off, audio mixing adjustments, PTZ camera movements, and much more. Our free remote control software for macOS, Windows, and iPad further enhances this workflow, providing a large graphical interface for setting up and previewing actions before you take them live.



Extensive PTZ camera support

Robotic PTZ (pan-tilt-zoom) cameras eliminate the need for multiple camera operators, provide great production coverage with studio-grade broadcast quality, and can be placed in discreet locations thanks to their small size. The V-160HD includes built-in support to directly control select Canon, JVC, Panasonic, Sony, PTZOptics, Avonic, and VISCA-compatible PTZ LAN cameras. Mix and match different brands as you like, and operate up to 16 PTZ cameras simultaneously.

V-160HD iPad remote control utility

The dedicated V-160HD remote control app turns an iPad into an efficient touch interface for the V-160HD. Run essential switching functions, mix audio with virtual faders, change settings and parameters quickly and create up to 30 custom scenes for fast, efficient setup changes.



SPECIFICATIONS V-160HD

VIDEO		AUDIO	
Video Processing	4:2:2 (Y/Pb/Pr), 8-bit	Audio Processing	Sample rate: 24 bits/48 kHz
Input Connectors	HDMI IN 1--4: HDMI type A x 4, * HDCP Supported HDMI IN 5--8: HDMI type A x 4, * HDCP Supported * Multi-format Supported SDI IN 1--8: BNC type x 8 * Conforms to SMPTE 424M (SMPTE 425M-AB), 292M	Audio formats	USB STREAM (input/output): Linear PCM, 24 bits/48 kHz, 2ch Bluetooth (input): Linear PCM, 24 bits/48 kHz, 2ch HDMI IN: Linear PCM, 24 bits/48 kHz, 2ch HDMI OUT: Linear PCM, 24 bits/48 kHz, 8ch SDI IN: Linear PCM, 24 bits/48 kHz, 2ch (Conforms to SMPTE 299M) SDI OUT: Linear PCM, 24 bits/48 kHz, 8ch (Conforms to SMPTE 299M)
Output Connectors	HDMI OUT 1--3: HDMI type A x 3 * HDCP Supported SDI OUT 1--3: BNC type x 3 * Conforms to SMPTE 424M (SMPTE 425M-AB), 292M, USB STREAM: USB Type-C (TM), PREVIEW: HDMI type A	Input Connectors	Analog: AUDIO IN 1--2: Combo type (XLR, 1/4-inch TRS phone), phantom power DC 48 V (unloaded maximum), 14 mA (maximum load), AUDIO IN 3/L, 4/R: RCA phono type Digital: USB STREAM: USB Type-C (TM) Bluetooth HDMI IN 1--8: HDMI type A x 8, SDI IN 1--8: BNC type x 8
Supported Video Input Formats	HDMI IN 1--4, SDI IN 1--8 720/59.94p *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 HDMI IN 5--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 (640x480/60Hz), SVGA (800x600/60Hz), XGA (1024x768/60Hz) WXGA (1280x800/60Hz), SXGA (1280x1024/60Hz) FWXGA (1366x768/60Hz), SXGA+ (1400x1050/60Hz) UXGA (1600x1200/60Hz), WUXGA (1920x1200/60Hz) * 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	Output Connectors	Analog: AUDIO OUT: XLR type, AUDIO OUT: RCA phono type PHONES: Stereo 1/4-inch phone type Digital: USB STREAM: USB Type-C (TM), HDMI OUT 1--3: HDMI type A x 3, SDI OUT 1--3: BNC type x 3
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 JPG File (.jpg) Maximum 1920 x 1080 pixels, 24-bit color * It can be stored up to 16 files in the internal memory. * * It can be exported in the USB flash drive. * PNG alpha channel supported.	Input Level	AUDIO IN 1, 2: -60--+4 dBu (Maximum: +24 dBu) AUDIO IN 3/L, 4/R: -10 dBu (Maximum: +10 dBu)
Output formats	HDMI OUT 1--2, SDI OUT 1--3: 720/59.94p *1, *4, 720/60p *1, *5 720/50p *1, *6, 1080/59.94i *2, *4, 1080/60i *2, *5, 1080/50i *2, *6 1080/59.94p *3, *4, 1080/60p *3, *5, 1080/50p *3, *6 *1 SYSTEM FORMAT = 720p, *2 SYSTEM FORMAT = 1080i, *3 SYSTEM FORMAT = 1080p, *4 FRAME RATE = 59.94 Hz, *5 FRAME RATE = 60 Hz, *6 FRAME RATE = 50 Hz HDMI OUT 3: 1080/59.94p *1, 1080/60p *2, 1080/50p *3 *1 FRAME RATE = 59.94 Hz, *2 FRAME RATE = 60 Hz, *3 FRAME RATE = 50 Hz SUBS STREAM: 1080/59.94p, 720/59.94p, 640x480/59.94p *1 1080/29.97p, 720/29.97p, 640x480/29.97p *2, 1080/50p, 720/50p, 640x480/50p *3, 1080/25p, 720/25p 640x480/25p *4 * Uncompressed format (YUV2) and Compressed format (Motion JPEG) supported. *1 FRAME RATE(USB OUT) = 59.94 Hz, *2 FRAME RATE(USB OUT) = 29.97Hz, *3 FRAME RATE(USB OUT) = 50Hz *4 FRAME RATE(USB OUT) = 25Hz	Input Impedance	AUDIO IN 1, 2: 9.4 k ohms (ANALOG GAIN 0<-24 dBu), 74.4 k ohms (ANALOG GAIN >24dBu), AUDIO IN 3/L, 4/R: 47 k ohms
Video Effects	Transition: CUT, MIX (DISSOLVE/FAM/NAM), WIPE (8 types), SPLIT (2 types) Composition: PinP x 4 (SQUARE, CIRCLE, DIAMOND), Keyer x 4 (Luminance Key, Chroma Key), DSK x 2 (Luminance Key, Chroma Key, Alpha Key, External Key) Others: Flip horizontal, Flip vertical, Still Image Capture, Still Image Playback, Output fade (Audio, Video: WHITE or BLACK), Test pattern output	Output Level	AUDIO OUT (XLR): +4 dBu (Maximum: +24 dBu), AUDIO OUT (RCA): -10 dBu (Maximum: +10 dBu), PHONES: 92 mW + 92 mW (32 ohms)
		Output Impedance	AUDIO OUT (XLR): 600 ohms, AUDIO OUT (RCA): 1 k ohm PHONES: 10 ohms
		Audio Effects	Auto Mixing, Delay, Reverb, High pass filter, Echo canceller, Anti-feedback, Noise gate, De-esser, Compressor, Equalizer, Voice changer, Multi-band compressor, Limiter, Test tone output
OTHERS		OTHERS	
Other Connectors	USB MEMORY: USB A type (for USB flash drive) USB STREAM: USB Type-C (TM) (for remote control from PC and iPad) Bluetooth: for remote control from iPad CTL/EXP: 1/4-inch TRS phone type (for remote control from foot switch and expression pedal), TALLY/GPIO: DB-25 type (Female)(Tally/GPIO: 16, GPI: 8), RS-232: DB-9 type (Male) (for Remote Control) LAN CONTROL: RJ45 100BASE-TX (for Remote Control), Reference IN/THRU: BNC type * Black Burst (Sync to frames), Bi-Level, Tri-Level	Other Functions	Preset Memory (30 types), Macro Control (100 types), Sequencer Control Panel lock function, EDID Emulator, Auto Switching, Auto Input Detect Smart Tally, Remote Camera Control, Rec Control
Bluetooth	Ver 4.2 Profile Support: A2DP (Audio), GATT (MIDI over Bluetooth Low Energy), Codec: SBC (Support to the content protection of the SCMS-T method)	Bluetooth	Ver 4.2 Profile Support: A2DP (Audio), GATT (MIDI over Bluetooth Low Energy), Codec: SBC (Support to the content protection of the SCMS-T method)
Display	4.3 inches TFT Color LCD: 480 x 272 dots	Display	4.3 inches TFT Color LCD: 480 x 272 dots
Power Supply	AC adaptor	Power Supply	AC adaptor
Current Draw	2.5 A	Current Draw	2.5 A
Power Consumption	55 W	Power Consumption	55 W
Operation Temp.	+0 to +40 degrees Celsius, +32 to +104 degrees Fahrenheit	Operation Temp.	+0 to +40 degrees Celsius, +32 to +104 degrees Fahrenheit
Dimensions	437 (W) x 253 (D) x 103 (H) mm, 17-1/4 (W) x 10 (D) x 4-1/16 (H) inches 480 (W) x 253 (D) x 103 (H) mm, 18-15/16 (W) x 10 (D) x 4-1/16 (H) inches * When rack mount angles are fitted.	Dimensions	437 (W) x 253 (D) x 103 (H) mm, 17-1/4 (W) x 10 (D) x 4-1/16 (H) inches 480 (W) x 253 (D) x 103 (H) mm, 18-15/16 (W) x 10 (D) x 4-1/16 (H) inches * When rack mount angles are fitted.
Weight	3.9 kg, 8 lbs 10 oz, excluding AC adaptor	Weight	3.9 kg, 8 lbs 10 oz, excluding AC adaptor
Accessories	Startup Guide, Leaflet "USING THE UNIT SAFELY", AC adaptor Power cord, Rack-mount angle x 2, Rack-mount angle mounting screw x 6	Accessories	Startup Guide, Leaflet "USING THE UNIT SAFELY", AC adaptor Power cord, Rack-mount angle x 2, Rack-mount angle mounting screw x 6
Options (sold separately)	Footswitch: BOSS FS-5U, FS-6, FS-7, Expression Pedal: EV-5, BOSS FV-500L, FV-500H	Options (sold separately)	Footswitch: BOSS FS-5U, FS-6, FS-7, Expression Pedal: EV-5, BOSS FV-500L, FV-500H

* 0 dBu = 0.775 Vrms

V-80HD

DIRECT STREAMING VIDEO SWITCHER



VenuSet
SUPPORTED

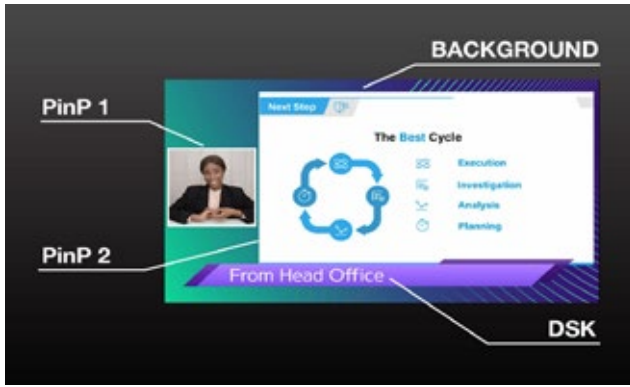
▼ P60

GRAPHICS
PRESENTER
SUPPORTED

▼ P58

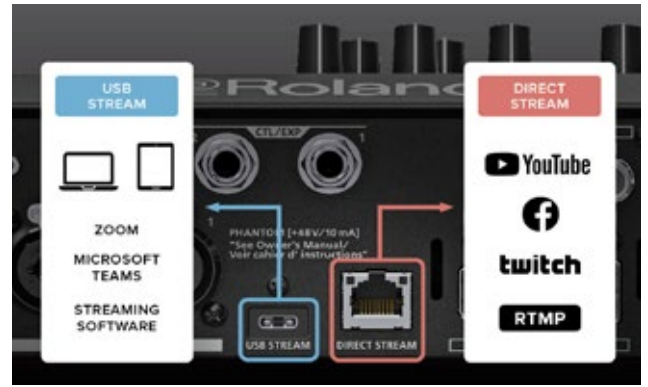
Professional switching for live events, web streaming, and studio production

- Professional eight-channel switcher with a compact footprint and comprehensive features
- Supports a variety of applications, including in-person events, conferences, web streaming, houses of worship, and studio production setups
- Four 3G SDI inputs with frame rate converters
- Two 3G SDI and three HDMI outputs plus 10 assignable buses
- Seven total outputs include SDI, HDMI, USB-C streaming, and LAN (RTMP/SRT)
- 28-channel digital audio mixer and three output buses with effects and processing
- Five-layer video effects engine, including two PinP windows with key composition and DSK
- Easily create stunning titles and motion graphics with the companion Graphics Presenter software for Windows
- 32-slot still store function supports screen capture or uploaded BMP, JPEG, and PNG images via alpha channel
- Powerful live production automation with sequencing, macros, and scene memorie picture-in-picture etc.
- Integrated PTZ camera control with simultaneous support for multiple brands and mixed protocols
- Eight assignable pads for controlling up to 64 discreet functions



Powerful video effects engine

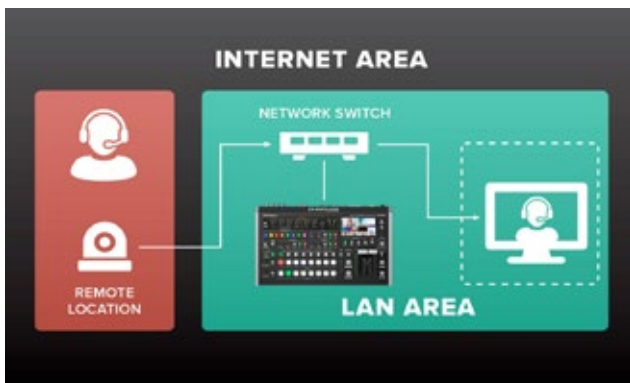
The V-80HD is filled with tools to elevate presentations with impressive video effects and graphics. The onboard effects engine features five composition layers that include a split-screen effect, two PinP windows with key composition, and one DSK with fill/key composite support. It's simple to create common layouts, such as a business presentation with an individual speaker, image slides, and a title on a background. PinP and DSK layers can be managed individually on the Program, Sub-Program, and two Aux outputs, providing flexibility for any production need.



Plug-and-Play streaming

The V-80HD uses the same connection technology as webcams, providing a plug-and-play streaming experience. Simply connect the USB-C output to a computer or smartphone and start streaming with Zoom, Microsoft Teams, or any platform that can use a webcam as its source. LAN connectivity is also supported, allowing you to stream directly to YouTube, Facebook Live, Twitch, or any RTMP platform without a computer.

Compact and powerful, the V-80HD covers professional video production needs for in-person events, livestreaming, studio productions, and other applications. The all-in-one design is easy to carry and set up, while flexible I/O features support 3G SDI, HDMI, USB 3.0, and LAN (RTMP/SRT) connections. The V-80HD also includes multi-channel audio mixing and effects, integrated control for PTZ cameras, and remote operation with video monitoring via dedicated control apps. And with the companion Graphics Presenter software, you can easily enhance productions with impressive titles, motion graphics, and more.



Secure AV transmission with SRT

The V-80HD supports SRT (Secure Reliable Transport), an open-source standard for AVoIP that provides secure encrypted audio and video transmission over IP networks. It also offers future-proof connectivity within installed system configurations. SRT allows you to seamlessly extend your V-80HD production capabilities via LAN or an internet connection. Access camera images from remote locations and switch them along with local HDMI and SDI sources. And send a dedicated SRT video output to an external destination, such as another building at the production location

SRT (Secure Reliable Transport) is an open-source video transport protocol and technology stack developed by Haivision.



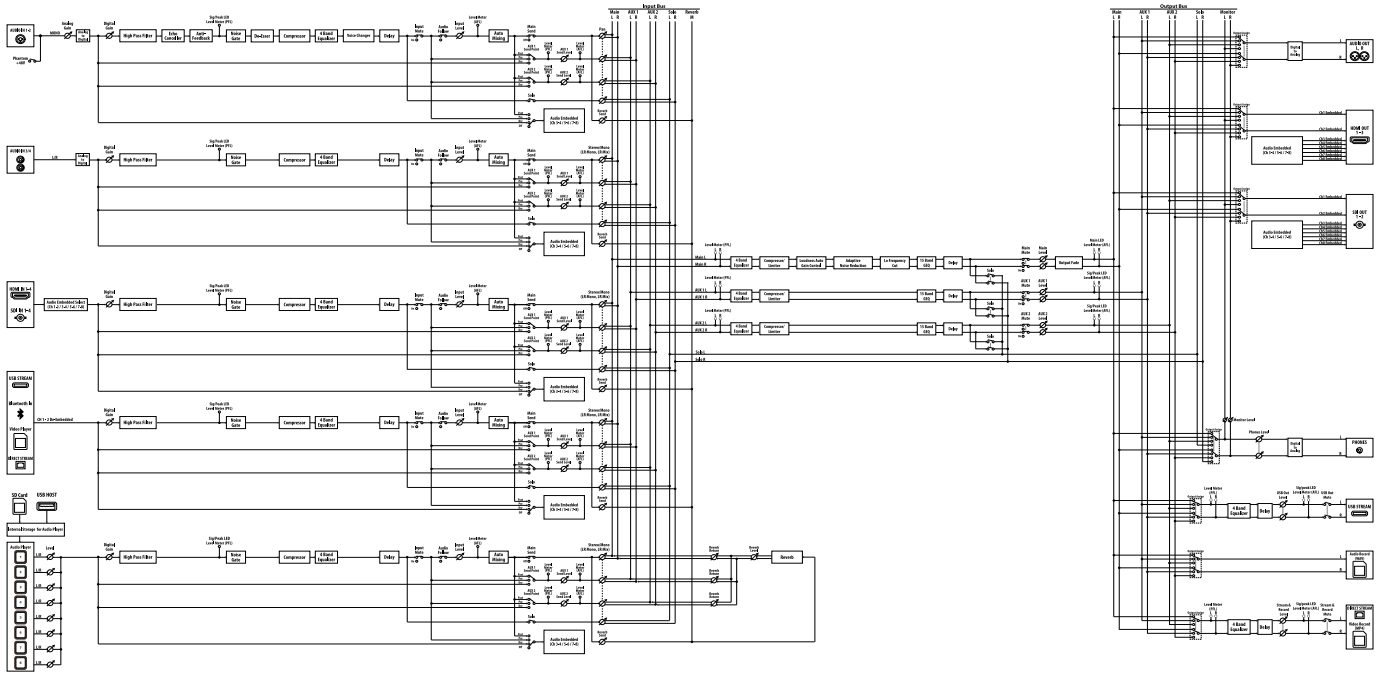
SDXC card recording

With the V-80HD's onboard recorder, you can easily capture an event to an SDXC card and provide your client with an H.264 MP4 video file* for their editing and distribution needs. Stereo WAV audio can also be recorded independently for podcasts and other audio-driven media. It's even possible to capture still images to internal memory from any video output bus and save them to the card for later use.

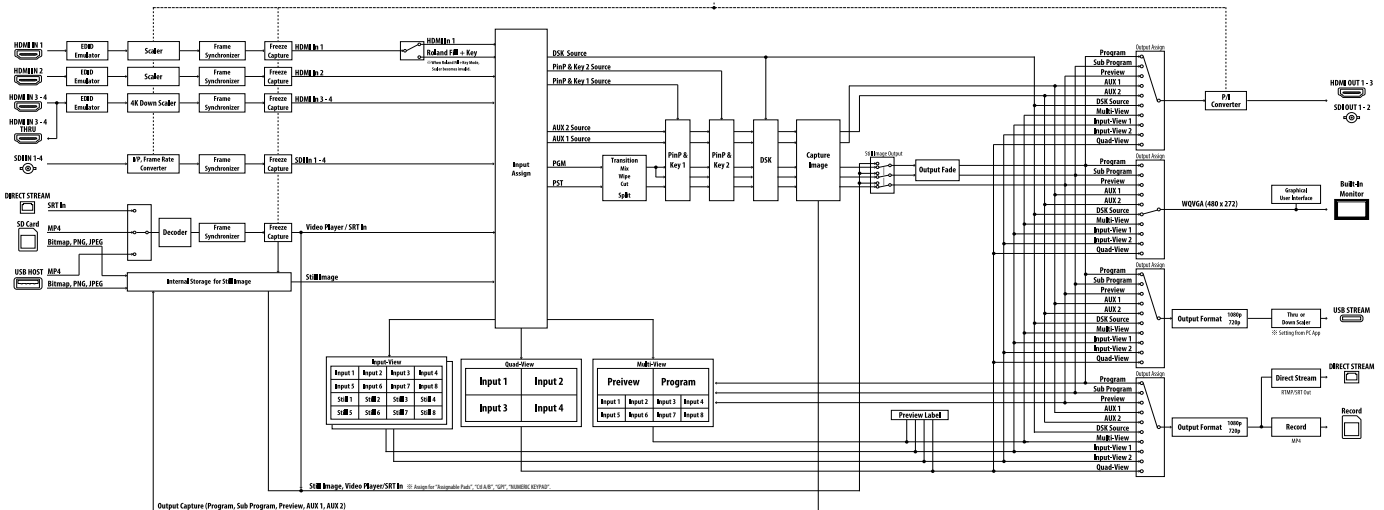
*The recording bitrate is the same as the livestream encoding bitrate.

SPECIFICATIONS V-80HD

VIDEO	
Video Processing	4:2:2 (Y/Pb/Pr), 8-bit
Number of Video Channels	8 channels
Video Input Formats	<p>HDMI IN 1--4 480/59.94i, 480/59.94p, 720/59.94p, 1080/59.94i, 1080/59.94p, 1080/60p, 1080/29.97p, 1080/30p, 576/50i, 576/50p, 720/50p, 1080/50i, 1080/50p, 1080/25p, 1080/23.98p, 1080/24p, 2160/59.94p, 2160/60p, 2160/29.97p, 2160/30p *1 2160/50p, 2160/25p *1 2160/23.98p, 2160/24p *1 VGA (640 x 480/60 Hz), SVGA (800 x 600/60 Hz), XGA (1024 x 768/60 Hz) WXGA (1280 x 800/60 Hz), SXGA (1280 x 1024/60 Hz) FWXGA (1366 x 768/60 Hz), SXGA+ (1400 x 1050/60 Hz) UXGA (1600 x 1200/60 Hz), WUXGA (1920 x 1200/60 Hz) * 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. * The input refresh rates of SVGA (800 x 600)--SXGA+ (1400 x 1050) are 75 Hz when the unit's frame rate setting is 50 Hz. * HDMI IN 1 support Roland FILL+KEY signal * Only for HDMI IN 3, 4 SDI IN 1--4 720/59.94p *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 = 1080p *3 Frame Rate = 29.97 Hz, 30 Hz, 59.94 Hz, 60 Hz *4 Frame Rate = 25 Hz, 50 Hz</p>
Video Output Formats	<p>HDMI OUT 1--3, SDI OUT 1--2: 720/59.94p *1, *3, 720/60p *1, *4, 720/50p *1, *7, 1080/59.94i *1, *3, 1080/60i *1, *4, 1080/50i *1, *7, 1080/59.94p *2, *3, 1080/60p *2, *4, 1080/29.97p *2, *5, 1080/30p *2, *6, 1080/50p *2, *7, 1080/25p *2, *8, 1080/23.98p *2, *9, 1080/24p *2, *10 *1 System Format = 720p, *2 System Format = 1080p, *3 Frame Rate = 59.94 Hz, *4 Frame Rate = 60 Hz, *5 Frame Rate = 29.97 Hz, *6 Frame Rate = 30 Hz, *7 Frame Rate = 50 Hz, *8 Frame Rate = 25 Hz, *9 Frame Rate = 23.98 Hz, *10 Frame Rate = 24 Hz USB STREAM: 1080/59.94p, 720/59.94p, 640 x 480/59.94p *1, 1080/60p, 720/60p, 640 x 480/60p *2, 1080/29.97p, 720/29.97p, 640 x 480/29.97p *3, 1080/30p, 720/30p, 640 x 480/30p *4, 1080/50p, 720/50p, 640 x 480/50p *5, 1080/25p, 720/25p 640 x 480/25p *6, 1080/23.98p, 720/23.98p 640 x 480/23.98p *7, 1080/24p, 720/24p 640 x 480/24p *8 * Uncompressed format (YUY2) and Compressed format (Motion JPEG) supported, *1 Frame Rate(USB Out) = 59.94 Hz, *2 Frame Rate(USB Out) = 60 Hz, *3 Frame Rate(USB Out) = 29.97 Hz, *4 Frame Rate(USB Out) = 30 Hz, *5 Frame Rate(USB Out) = 50 Hz, *6 Frame Rate(USB Out) = 25 Hz, *7 Frame Rate(USB Out) = 23.98 Hz *8 Frame Rate(USB Out) = 24 Hz DIRECT STREAM: 720/59.94p *1, *3, 720/60p *1, *4, 720/29.97p *1, *5, 720/30p *1, *6 720/50p *1, *7, 720/25p *1, *8, 1080/59.94p *2, *3, 1080/60p *2, *4 1080/29.97p *2, *5, 1080/30p *2, *6, 1080/50p *2, *7, 1080/25p *2, *8 1080/23.98p *2, *9, 1080/24p *2, *10 *1 System Format = 720p, *2 System Format = 1080p, *3 Frame Rate (Stream&Record) = 59.94 Hz, *4 Frame Rate (Stream&Record) = 60 Hz *5 Frame Rate (Stream&Record) = 29.97 Hz, *6 Frame Rate (Stream&Record) = 30 Hz, *7 Frame Rate (Stream&Record) = 50 Hz, *8 Frame Rate (Stream&Record) = 25 Hz, *9 Frame Rate (Stream&Record) = 23.98 Hz, *10 Frame Rate (Stream&Record) = 24 Hz</p>
Stream and Record formats	<p>Audio Video: Protocols: RTMP, RTMPS, SRT (Caller, Listener), Container: FLV (RTMP, RTMPS), MPEG2-TS (SRT), Recording File Format: MP4, Codec: H.264, target bitrate up to 20,000 kbps AAC-LC, 16 bits, 48 kHz, stereo, target bitrate up to 384 kbps * When the format of either Stream & Record or Video Player/SRT In exceeds 1080/30p, the Stream & Record and Video Player/SRT In functions cannot be used simultaneously. * When the sum of the bitrate for Stream & Record and Video Player/SRT In exceeds 20,000 kbps, the Stream & Record and Video Player/SRT In functions cannot be used simultaneously. Audio: Recording File Format: WAV, Codec: Linear PCM, 16 bits, 48 kHz, stereo</p>
Video Player	<p>Video Player: File Format: MP4, Codec: H.264, Average bit rate of 20,000 kbps or less, up to 1080/60p, AAC-LC, 16 bits, 48 kHz, stereo SRT In: Protocol: SRT (Caller, Listener), Container: MPEG2-TS, Codec: H.264, Average bit rate of 20,000 kbps or less, up to 1080/60p, AAC-LC, 16 bits, 48 kHz, stereo * When the format of either Stream & Record or Video Player/SRT In exceeds 1080/30p, the Stream & Record and Video Player/SRT In functions cannot be used simultaneously. * When the sum of the bitrate for Stream & Record and Video Player/SRT In exceeds 20,000 kbps, the Stream & Record and Video Player/SRT In functions cannot be used simultaneously.</p>
Video Player	<p>Bitmap File (.bmp) Up to 1920 x 1080 pixels, 24-bit color, uncompressed. PNG File (.png) Up to 1920 x 1080 pixels, 24-bit color, JPEG File (.jpg, .jpeg) Up to 1920 x 1080 pixels, 24-bit color * It can be stored up to 32 files in the internal memory. * It can be exported to the SD Card and USB flash drive. * PNG alpha channel supported.</p>
Video Effects	<p>Transition: Cut, Mix (Dissolve/FAM/NAM), WIPE (8 types), SPLIT (2 types) Composition: PinP x 2 (Square, Circle, Diamond), Keyer x 2 (Luminance Key, Chroma Key), DSK (Luminance Key, Chroma Key, Alpha Key, External Key), Roland FILL+KEY Mode, Other: Multi-View (4 types), Flip horizontal, Flip vertical, Still Image capture, Still Image playback, Output fade (Audio, Video: White or Black), Test pattern output, Stream Delay</p>
AUDIO	
Audio Processing	Sample rate: 24 bits, 48 kHz
Number of Audio Chs.	28 channels
Audio Formats	<p>USB STREAM (input/output): Linear PCM, 16 bits, 48 kHz, 2 ch Bluetooth (input): Linear PCM, 16 bits, 48 kHz, 2 ch HDMI IN: Linear PCM, 24 bits, 48 kHz, 2 ch HDMI OUT: Linear PCM, 24 bits, 48 kHz, 8 ch SDI IN: Linear PCM, 24 bits, 48 kHz, 2 ch (Conforms to SMPTE 299M) SDI OUT: Linear PCM, 24 bits, 48 kHz, 8 ch (Conforms to SMPTE 299M)</p>
Audio Player	<p>File format: WAV (Linear PCM, 16 bits, 48 kHz/44.1 kHz, stereo) * It can be stored up to 64 tracks in the internal memory.</p>
Audio Effects	<p>Channel Effects: High pass filter, Echo canceller, Anti-feedback, Noise gate, De-esser, Compressor, 4-Band equalizer, Voice changer, Delay, Auto mixing // Master Effects: Reverb, 4-Band equalizer, Compressor/Limiter, Loudness Auto Gain Control, Adaptive Noise Reduction, Low Frequency Cut, 15-Band GEQ, Delay Other: Output fade, Test tone output</p>
COMMON SECTION	
Recording Media	<p>SDHC/SDXC card (commercially available) USB flash drive (commercially available) * SDXC card is required for video recording.</p>
Other Functions	<p>Scene Memory (32 types), Macro Control (100 types), Sequencer Control (1,000 steps), Panel lock function, EDID Emulator, Auto Switching, Auto Input Detect, Smart Tally, Remote Camera Control (Up to 8 units) External Rec Control, Menu language (English, Japanese, Simplified Chinese)</p>
CONNECTORS	
Video Input Connectors	<p>HDMI IN 1--4: HDMI type A x 4 * HDCP Supported * Multi-format Supported SDI IN 1--4: BNC type x 4 * Conforms to SMPTE 424M (SMPTE 425M-AB), 292M</p>
Video Output Connectors	<p>HDMI OUT 1--3: HDMI type A x 3 * HDCP Supported HDMI IN 3--4 THRU: HDMI type A x 2 * HDCP Supported SDI OUT 1--3: BNC type x 2 * Conforms to SMPTE 424M (SMPTE 425M-AB), 292M * USB STREAM: USB Type-C (R)</p>
Audio Input Connectors	<p>Analog: AUDIO IN 1--2: Combo type (XLR, 1/4-inch TRS phone), phantom power DC 48 V (unloaded maximum), 10 mA (maximum load), AUDIO IN 3/L, 4/R: RCA phono type Digital: USB STREAM: USB Type-C (R), HDMI OUT 1--3: HDMI type A x 3 HDMI IN 3--4 THRU: HDMI type A x 2, SDI OUT 1--2: BNC type x 2</p>
Audio Output Connectors	<p>Analog: AUDIO OUT 1--2: XLR type, PHONES: Stereo 1/4-inch phone type Digital: USB STREAM: USB Type-C (R), Bluetooth, HDMI OUT 1--3: HDMI type A x 3, HDMI IN 3--4 THRU: HDMI type A x 2 SDI OUT 1--2: BNC type x 2</p>
Other Connectors	<p>USB HOST: USB A type (for USB flash drive, for remote control from USB numeric keypad), USB STREAM: USB Type-C (R) (for remote control from PC and iPad, Graphics Presenter), Bluetooth: for remote control from iPad, CTL/EXP 1, 2: 1/4-inch TRS phone type (for remote control from foot switch and expression pedal), TALLY/GPIO: DB-25 type (Female)(Tally/GPIO: 16, GPI: 8), RS-232: DB-9 type (Male) (for Remote Control), DIRECT STREAM: RJ45, 1000BASE-T (for Live Streaming, SRT In/Out and Remote Control)</p>
AUDIO INPUT/OUTPUT CHARACTERISTICS	
Input Level	AUDIO IN 1, 2: -64--+4 dBu (Maximum: +24 dBu) AUDIO IN 3/L, 4/R: -10 dBu (Maximum: +10 dBu)
Input Impedance	AUDIO IN 1, 2: 8.4 k ohms, AUDIO IN 3/L, 4/R: 10 k ohms
Output Level	AUDIO OUT 1, 2: +4 dBu (Maximum: +24 dBu) PHONES: 92 mW + 92 mW (32 ohms)
Output Impedance	AUDIO OUT 1, 2: 600 ohms, PHONES: 33 ohms
OTHERS	
Bluetooth	Ver 5.0 Profile Support: A2DP (Audio), GATT (MIDI over Bluetooth Low Energy) Codec: SBC (Support to the content protection of the SCMS-T method)
Display	4.3 inches TFT Color LCD: 480 x 272 dots
Power Supply	AC Adaptor
Current Draw	2.1 A
Power Consumption	51 W
Operating Temp.	+0 to +40 degrees Celsius, +32 to +104 degrees Fahrenheit
Dimensions	396 (W) x 254 (D) x 103 (H) mm, 15-5/8 (W) x 10 (D) x 4-1/16 (H) inches
Weight	3.5 kg, 7 lbs 12 oz
Accessories	Startup Guide, Leaflet "USING THE UNIT SAFELY", AC adaptor Power cord
Options (sold separately)	Footswitch: BOSS FS-5U, FS-6, FS-7 Expression Pedal: EV-5, EV-30, BOSS FV-500L, FV-500H
	* 0 dBu = 0.775 Vrms * This product is a Class A digital device under FCC part 15.



AUDIO BLOCK DIAGRAM



VIDEO BLOCK DIAGRAM



Multiple video inputs and versatile video outputs

The V-80HD features versatile input connectivity with HDMI for common A/V devices and SDI for long cable runs and high-end cameras. A total of eight channels are available, allowing seamless switching of up to four HDMI and four SDI input sources. The two 4K HDMI inputs are equipped with downscalers and can also send parallel connections to game consoles at eSports events. In addition, an SRT input can be assigned to a crosspoint button along with the SDI and HDMI inputs. With its multiple assignable outputs—including two SDI and three HDMI video outputs, a USB-C streaming output, and LAN (RTMP/SRT)—the V-80HD puts a high-end video matrix at your command. Each output can be assigned to 10 buses, allowing you to feed program displays, auxiliary monitors, multi-view producer displays, and online audiences all at once.



▼ P60

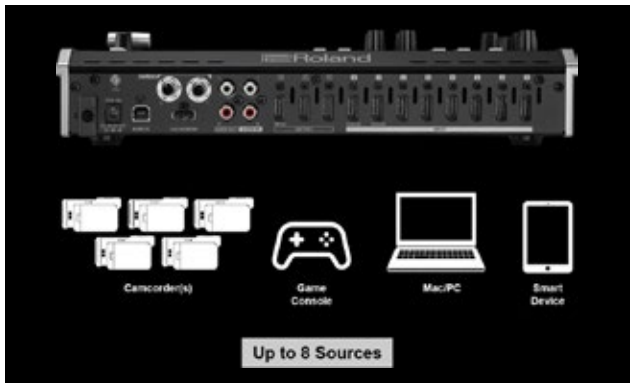


▼ P58

Unlock new creative possibilities

- All HDMI workflow
- Built-in multi-viewer preview monitor
- Execute smooth transitions using the T-bar fader
- Powerful live production automation with sequencing, macros, and preset memories
- Eight-slot still store function supports screen capture and import of BMP, JPEG and transparent PNG images to internal non-volatile memory
- Ultra-mobile, lightweight, and efficient
- Five-layer effects and keying engine
- Aux output for a different video feed
- Technology-assisted automatic video switching
- Supported output formats: 23.98Hz, 24Hz, 25Hz, 29.97Hz, 30Hz
- 18-channel digital audio mixer with a wide range of effects, including sync delay on each channel
- Remote start and stop of Atomos recorders
- Free iPad remote control app available
- Graphics Presenter support – this free, easy-to-use software for Windows computers **Ver.3.0**
- New Chroma Key Engine – upgraded keyer algorithms allow for more precise composition in real time **Ver.3.0**
- Dissolve Mode – Instantly send a selected input to the PGM bus **Ver.3.0**
- USB Numeric Keypad Support **Ver.3.0**

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 on the gig.

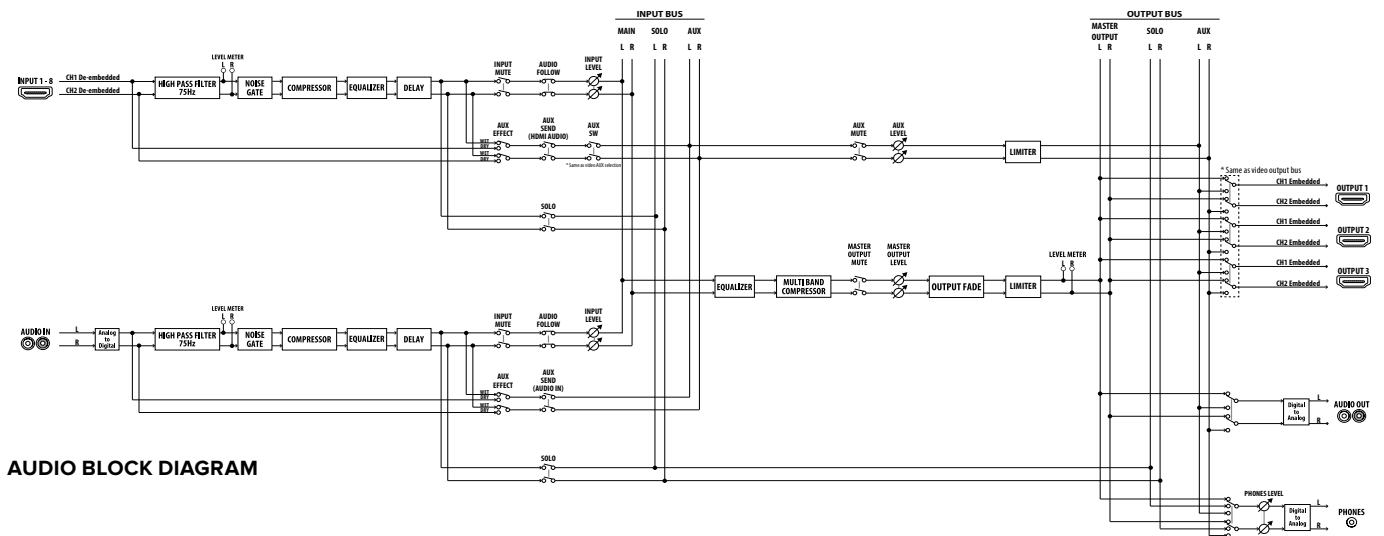


Maximum connectivity

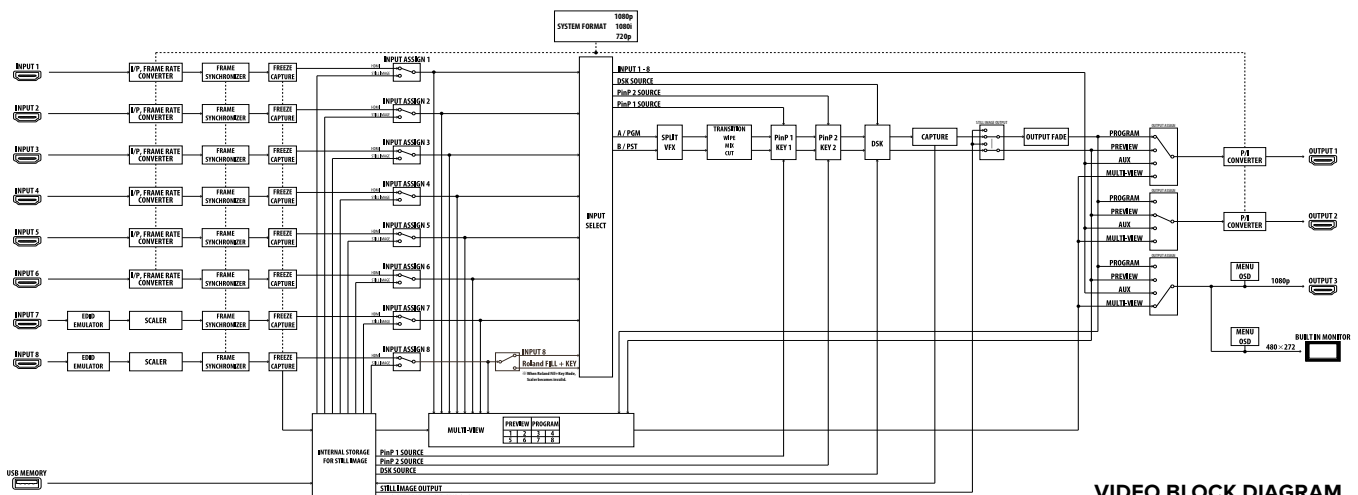
Nearly all modern cameras and digital video devices use HDMI, the most common AV connector on the planet. The V-8HD seamlessly mixes eight HDMI sources with Full HD support, even when the sources have mismatched frame rates and color spaces. And with the built-in scalars on two of the HDMI inputs, you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

The power of more

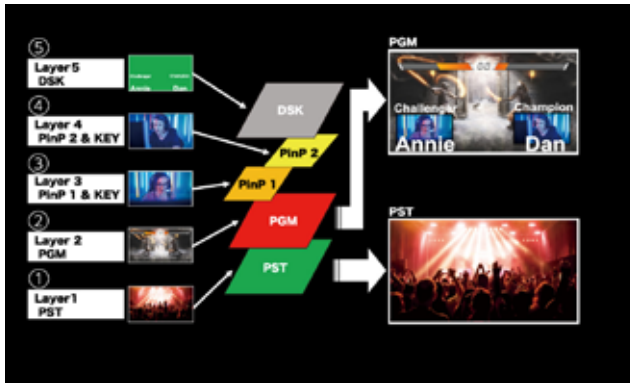
Creative professionals need more video inputs for layered graphics and visual effects, and business professionals often need multiple backup video sources. Having the ability to meet all these needs brings satisfied clients and greater audience engagement. With the V-8HD's generous number of HDMI inputs and outputs, you're able to offer clients a vast amount of creative freedom—without increasing the budget.



AUDIO BLOCK DIAGRAM



VIDEO BLOCK DIAGRAM



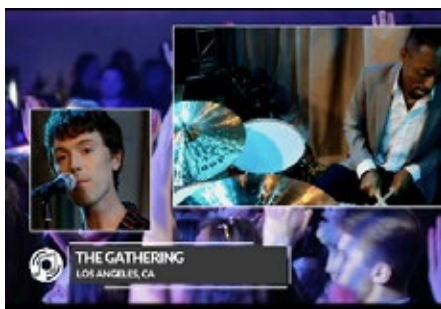
Set up layers, effects, and keys

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 by creating a basic background setup for mixing between two sources. Layer 3 and 4: Drop in two picture-in-picture layers with chroma and luminance effects. Layer 5: Add one downstream keyer layer with chroma, luminance, and [Version 2.0] alpha effects or external fill and key inputs.



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. BPM (beats per minute) sync is also available, automatically switching Preview and Program at a specified tempo for tight synchronization with musical cues.



One-touch automation (version 2.0)

The V-8HD's newly developed sequencer makes presets and macros even more powerful, allowing a single operator to execute perfectly timed cues with ease. Up to 1000 steps can be recorded in the sequencer, and each step can include both presets and macros. Simply set up your cues ahead of time in the sequence list and trigger them in order by pressing a button on the panel. With the power of the V-8HD's sequencer, you can tackle the most complex events without ever breaking a sweat.

Instant recall with memories and macros

With the V-8HD, storing and recalling unique looks requires only a few button presses. The 24 preset memories and powerful composition effects engine work together to provide a completely seamless load between different looks, including synchronizing the transition of all effect layers on and off at the Program output. [Version 2.0] The 100 macros go even deeper, allowing you to build and trigger complex action lists that include switching, DSK on/off, audio mixing adjustments, and much more. Our free remote control software for iPad further enhances this workflow, providing a large graphical interface for setting up and previewing actions before you take them live.





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. Run essential switching functions, mix audio with virtual faders, change settings and effect parameters quickly, and create up to 24 custom scenes for fast, efficient setup changes.



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 multi-viewer screen, letting you keep an eye on the recording status while staying focused on other critical tasks.

SPECIFICATIONS V-8HD

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
Supported Video Input Formats	INPUT 1-6 720/59.94p, 720/60p *1, *3 720/50p *1, *4 1080/59.94i, 1080/60i, 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, 60 Hz, 29.97 Hz, 30 Hz *4 FRAME RATE = 50 Hz or 25 Hz INPUT 7-8 480/59.94i, 480/59.94p, 720/59.94p, 720/60p, 1080/59.94i, 1080/60i, 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 or 60 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 JPEG File (.jpg, .jpeg) Maximum 1920 x 1080 pixels, 24-bit color * It can be stored up to 8 files to the internal memory. * It can be exported to the USB memory. * PNG alpha channel supported (Exclusive with alpha bus or AUX bus)
Output formats	OUTPUT 1-2: 720/59.94p *1, *4, 720/60p *1, *5, 720/50p *1, *8, 1080/59.94i *2, *4, 1080/60i *2, *5, 1080/50i *2, *8, 1080/59.94p *3, *4, 1080/60p *3, *5, 1080/29.97p *3, *6, 1080/30p *3, *7, 1080/50p *3, *8, 1080/25p *3, *9, 1080/23.98p *3, *10, 1080/24p *3, *11, *1 SYSTEM FORMAT = 720p, *2 SYSTEM FORMAT = 1080i, *3 SYSTEM FORMAT = 1080p, *4 FRAME RATE = 59.94 Hz, *5 FRAME RATE = 60 Hz, *6 FRAME RATE = 29.97 Hz, *7 FRAME RATE = 30 Hz, *8 FRAME RATE = 50 Hz, *9 FRAME RATE = 25 Hz, *10 FRAME RATE = 23.98 Hz, *11 FRAME RATE = 24 Hz OUTPUT 3: 1080/59.94p *1, 1080/60p *2, 1080/29.97p *3, 1080/30p *4, 1080/50p *5, 1080/25p *6, 1080/23.98p *7, 1080/24p *8, *1 FRAME RATE = 59.94 Hz, *2 FRAME RATE = 60 Hz, *3 FRAME RATE = 29.97 Hz, *4 FRAME RATE = 30 Hz, *5 FRAME RATE = 50 Hz, *6 FRAME RATE = 25 Hz, *7 FRAME RATE = 23.98 Hz, *8 FRAME RATE = 24 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, Alpha Key *1, External Key *1) Others: Flip horizontal, Flip vertical, Still Image Capture, Still Image Playback, Output fade (Audio, Video: WHITE or BLACK), Test pattern output *1 Exclusive with alpha bus or AUX bus

AUDIO	
Audio Processing	Sampling rate: 24 bits/48 kHz
Audio formats	Linear PCM, 24 bits/48 kHz, 2ch
Audio Effects	Delay, High pass filter, Compressor, Noise gate, Equalizer, Multi-band compressor, Limiter, Test tone output
CONNECTORS	
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
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 (24 scenes), Macro Control (100 types), Sequencer Control, Panel lock function, EDID Emulator, Auto Switching, Auto Input Detect, Rec Control
AUDIO INPUT/OUTPUT CHARACTERISTICS	
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
OTHERS	
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	2.0 kg / 4 lbs 7 oz * Excluding AC adaptor
Accessories	Owner's Manual, AC adaptor, Power cord

* 0 dBu = 0.775 Vrms



Switch, mix, and create like a pro

- Professional HD switching solution for live events, livestreaming, or both at once
- Compact and portable for fast set up
- Technology-assisted automatic video switching
- Pro audio I/O with legendary Roland sound quality
- Eight memory presets to recall visual layouts on cue
- Standalone video switcher and 14-channel audio mixer for single operators
- Familiar interface that's quick to learn and easy to use
- Four-layer effects and keying engine to engage audiences with graphics, lower thirds, and social callouts
- Free iPad remote control app available

The V-1HD+ is the ultimate compact A/V switching solution for serious visual storytellers. Elevate your creative production process with versatile I/O, a familiar user interface, deep control, and essential monitoring tools that help keep your content looking great and sounding perfect.



V-1HD+ iPad remote control utility

The dedicated V-1HD+ remote control app turns an iPad into an efficient touch interface for the V-1HD+. Run essential switching functions, mix audio with virtual faders, change settings and effect parameters quickly, and create up to 8 custom scenes for fast, efficient setup changes.



Multiviewer display

A 10-window multiviewer display can be applied to one or both HDMI outputs, helping you manage productions in real time. Cue up camera shots, preview presentations, and choose stored still images before taking them live to the program feed. Camcorder recording status can be monitored as well.



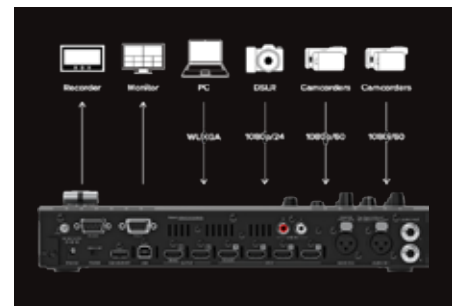
A legacy of success

Since its release in 2015, the Roland V-1HD has been the most popular high-definition, four-channel HDMI video switcher available. The V-1HD+ extends this legacy with a deeper feature set for advanced applications—while still maintaining the simple operation, pro performance, and rugged reliability that’s made the V-1HD a favorite of users around the world.

No-compromise video I/O

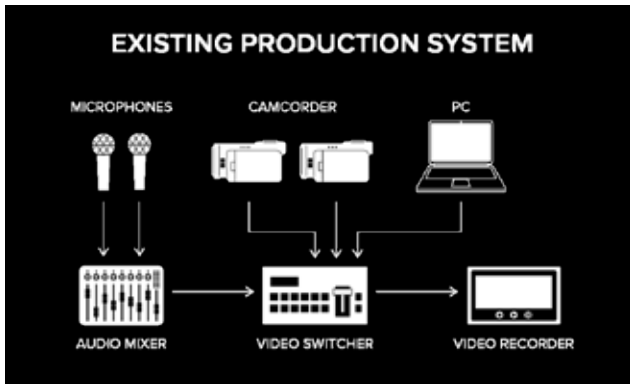
Four HDMI inputs with frame rate conversion let you mix a variety of sources, including cameras, presentation computers, tablets, and video game consoles. And when you have a troublesome source that won’t display correctly, simply plug it into Input 4 and let the built-in video scaler sync and calibrate the image automatically.

Two independent HDMI outputs can be assigned to display one of three different video busses, providing the versatility you need for pro production. For example, you can use one as your main program output for a recorder or livestream, and the second output to turn any HD video monitor into an “up-next” input preview display or expanded multiviewer with 10 windows.



14-channel audio mixing with effects

With two XLR mic inputs and selectable phantom power, the V-1HD+ lets you bring pro-grade microphones into your productions, including condenser broadcast mics. There’s also an 1/8-inch input for a lavalier mic or stereo audio source like a smartphone, plus another stereo input on RCA jacks. Embedded stereo audio from the four HDMI inputs can be included in your mix as well. With the V-1HD+, there’s no need for a dedicated small audio console. Distribute analog sound to a PA system via two balanced 1/4-inch TRS outputs, and use embedded digital audio in the HDMI outputs to feed recorders and livestream broadcasts.



Say goodbye to workflow workarounds

While many video switchers promise easy workflows, they often require workarounds for optimum results. Too often, those workarounds force you into technical compromises and purchasing extra gear. With its feature-rich design, the V-1HD+ provides the key tools you need to get the job done right.



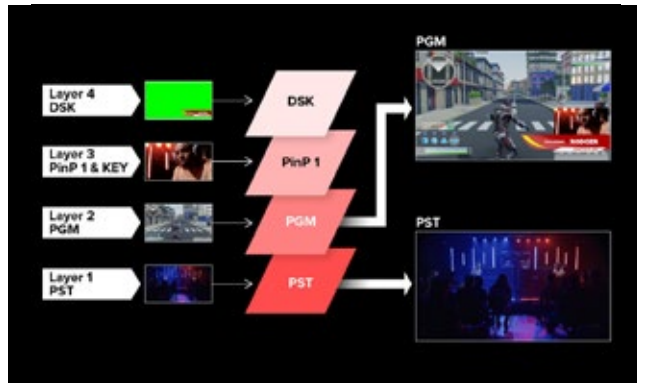
Pro operation made easy

Your passion for a simplified interface led our designers to add quick-action buttons for the most commonly used operations. With one-touch access to the system menu, downstream key on/off, transition type, picture-in-picture, effects on/off, and more, V-1HD+ production workflow is smooth and hassle-free.



Audio monitoring

Even if your video looks perfect, poor sound will ruin the entire production. With the V-1HD+, you can always keep track of your audio quality. Each analog input has its own signal/peak indicator, and headphones can be plugged in to monitor the overall audio feed. When using the multiviewer display, signal level meters are shown for all inputs and the main outputs.



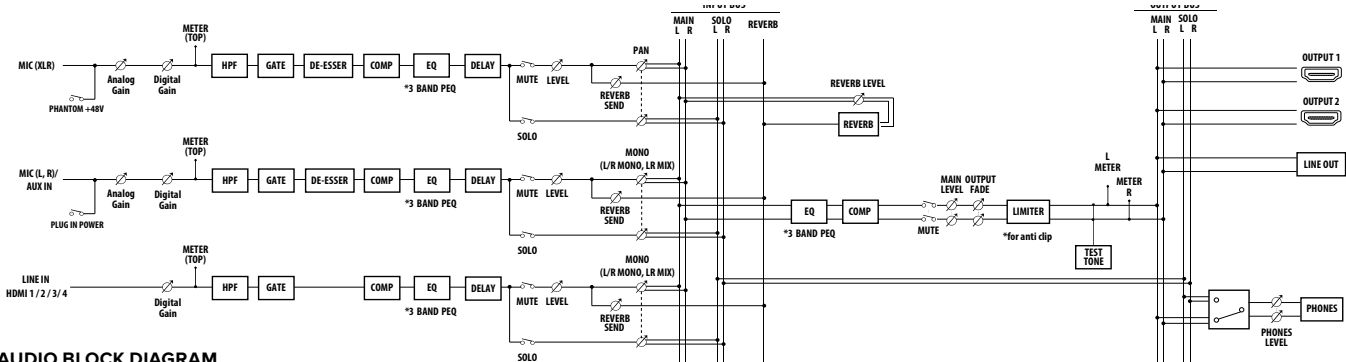
Four-layer effects engine

Savvy visual storytellers understand the power of layered graphics and visual effects. With four composition layers at your command, it's simple to add lower-third titles, logos, social media comments, and more to inform your audience and keep them involved.

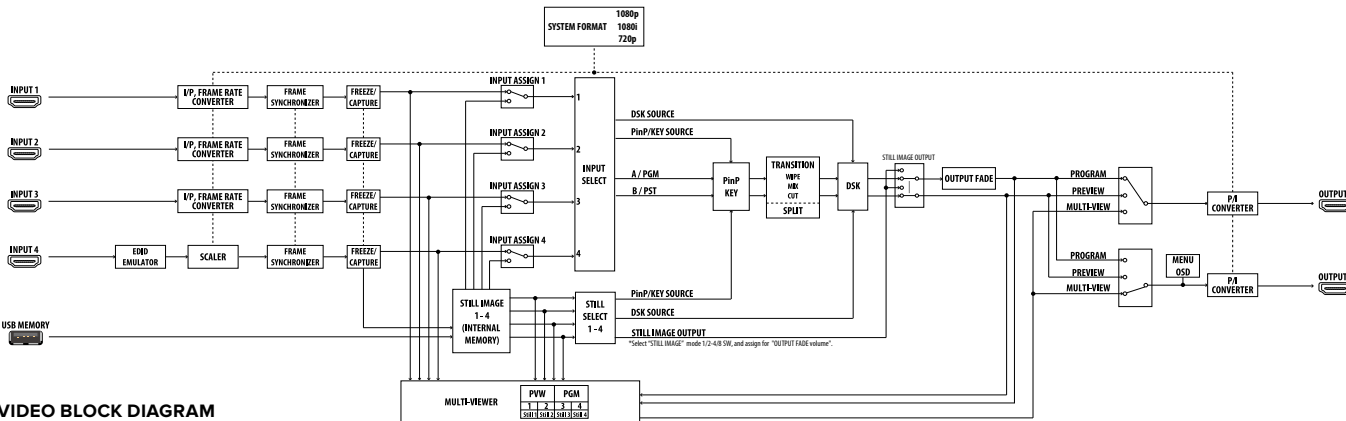


Legacy Support

Budgets don't always allow you to upgrade every component in your video system at the same time. The V-1HD+ can interface with legacy systems and components via its RS-232 port, allowing you to keep working while saving up for that new piece of gear.



AUDIO BLOCK DIAGRAM



VIDEO BLOCK DIAGRAM

SPECIFICATIONS V-1HD+

VIDEO	
Video Processing	4:2:2 (Y/Pb/Pr), 8-bit
Input Connectors	INPUT 1-3: HDMI type A x 3 *HDCP Supported INPUT 4: HDMI type A *HDCP Supported * Multi-format Supported
Output Connectors	OUTPUT 1-2: HDMI type A x 2, *HDCP Supported
Input formats	INPUT 1-3: 720/59.94p, 720/60p *1, *3, 720/50p *1, *4, 1080/59.94i, 1080/60i, 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 4: 480/59.94i, 480/59.94p, 720/59.94p, 720/60p, 1080/59.94i, 1080/60i, 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 x 480/60 Hz), SVGA (800 x 600/60 Hz), XGA (1024 x 768/60 Hz) WXGA (1280 x 800/60 Hz), SXGA (1280 x 1024/60 Hz) FWXGA (1366 x 768/60 Hz), SXGA+ (1400 x 1050/60 Hz) UXGA (1600 x 1200/60 Hz), WUXGA (1920 x 1200/60 Hz) * 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 store up to 4 files in the internal memory. * PNG alpha channel not supported.
Output formats	OUTPUT 1-2: 720/59.94p *1, *4, 720/50p *1, *5, 1080/59.94i *2, *4, 1080/50i *2, *5 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 (SQUARE, CIRCLE, DIAMOND), SPLIT (2 types), Keyer (Luminance key, Chroma key), DSK (Luminance key, Chroma key) Other: Flip horizontal, Flip vertical, Still image capture, Still image playback, Output fade (Audio, Video: WHITE or BLACK), Test pattern output

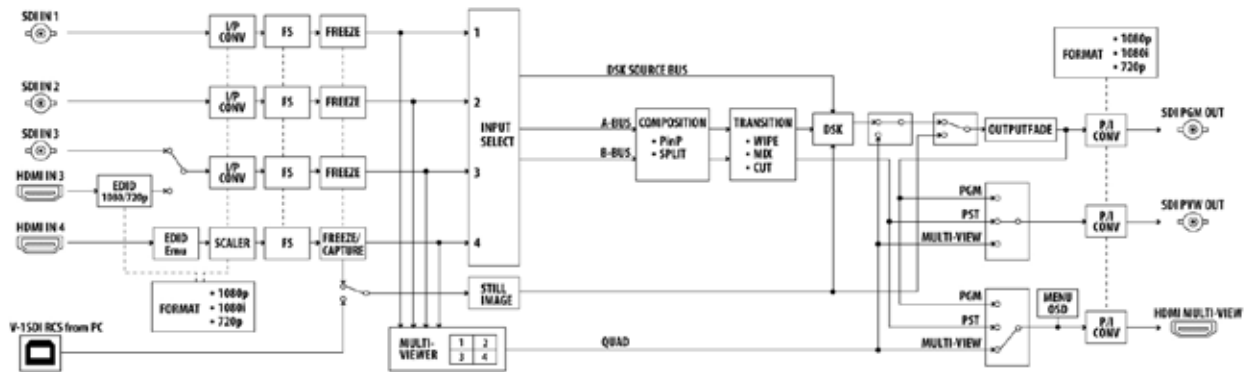
* 0 dBu=0.775 Vrms

AUDIO	
Audio Processing	Sample rate: 24 bits/48 kHz
Audio formats	Linear PCM, 24 bits/48 kHz, 2 ch
Input Connectors	INPUT 1-4: HDMI Type A x 4 AUDIO IN 1-2: XLR-3-31 type (balanced, phantom power DC 48 V, 14 mA Max), LINE IN: RCA phono type MIC/AUX IN: Stereo miniature phone type (PLUG-IN power)
Output Connectors	OUTPUT 1-3: HDMI Type A x 2 AUDIO OUT L, R: 1/4-inch TRS phone type PHONES: Stereo miniature phone type
Nominal Input Level	AUDIO IN 1-2: -60 to +4 dBu (Maximum input level: +24 dBu) LINE IN: -10 dBu (Maximum input level: +10 dBu) MIC/AUX IN: -51 to -10 dBu (Maximum input level: +10 dBu)
Input Impedance	AUDIO IN 1-2: 10 k ohms, LINE IN: 15 k ohms, MIC/AUX IN: 10 k ohms
Nominal Output Level	AUDIO OUT L, R: +4 dBu (Maximum output level: +24 dBu) PHONES: 72 mW + 72 mW (32 ohms load)
Output Impedance	AUDIO OUT L, R: 600 ohms, PHONES: 10 ohms
Audio Effects	Delay, High pass filter, De-Esser, Compressor, Noise gate, Equalizer, Limiter, Reverb, Test tone output
OTHERS	
Other Connectors	USB MEMORY: USB A type (for USB flash drive) REMOTE: USB B type (for remote control) RS-232: DB-9 type (male, for remote control) TALLY: DB-9 type (female, for TALLY output)
Other Functions	Preset memory (8 types), Panel lock function, EDID emulator Auto switching, Auto input detect
Power Supply	AC Adaptor
Current Draw	2.1 A
Power Consumption	25.2 W
Operating Temp.	+0 to +40 degrees Celsius, +32 to +104 degrees Fahrenheit
Dimensions	316 (W) x 121 (D) x 65 (H) mm, 12-1/2 (W) x 4-13/16 (D) x 2-9/16 (H) inches
Weight (excluding AC adaptor)	1.4 kg, 3 lbs 2 oz
Accessories	Startup Guide, Leaflet "USING THE UNIT SAFELY", AC adaptor, Power cord
Options (sold separately)	Footswitch: BOSS FS-5U, FS-6, FS-7 Expression Pedal: EV-5, BOSS FV-500L, FV-500H

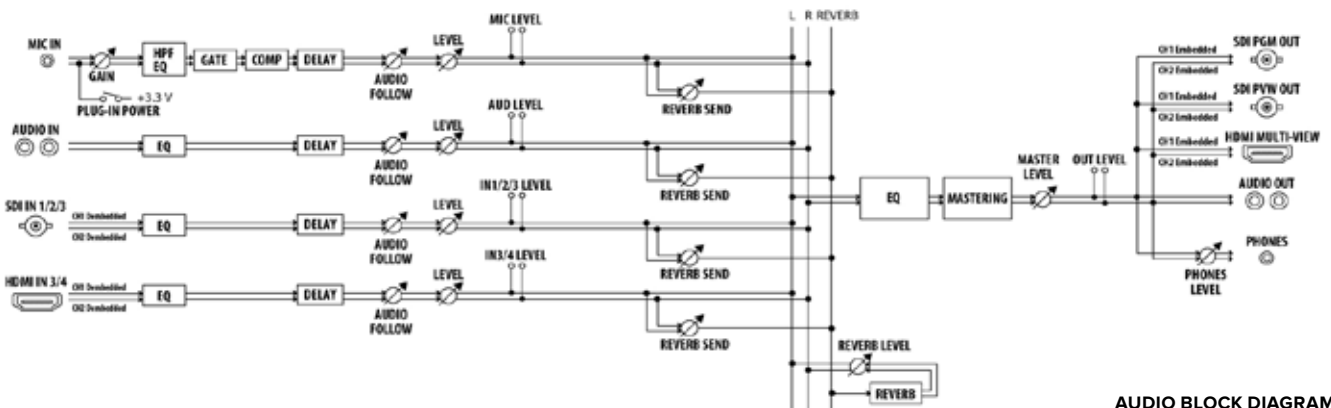


Professional SDI video switching that you can take anywhere

- Support for SDI and HDMI cameras, smartphones, tablet computers and PCs etc.
- Easy to operate with hardware controls
- Compact size
- Supports up to Full HD 1080p
- 3 x 3G-SDI and 2 x HDMI inputs
- 2 x 3G-SDI and 1 x HDMI output
- Input 4's scaler now supports a wider range of video and VESA resolutions^{1,2}
- HDCP compliant
- Quad input multi-viewer with source labelling and audio metering
- Composition effects including DSK (Downstream Keyer), picture-in-picture etc.
- Capturing a still image from Input Video on channel 4³ [Ver.1.5]
- Full 14-channel audio mixer included
- Software control using V-1SDI RCS application for Mac and PC and remote control via RS-232 connection
- Send a still image to the V-1SDI by V-1SDI RCS [Ver.1.5]



VIDEO BLOCK DIAGRAM



AUDIO BLOCK DIAGRAM



SPECIFICATIONS V-1SDI

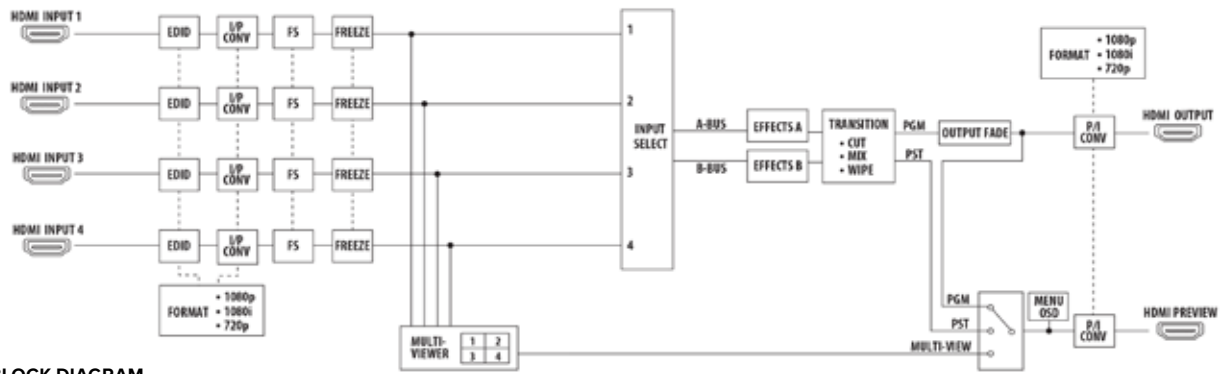
VIDEO	
Processing	4:2:2 (Y/Pb/Pr), 8-bit
Input Connectors	SDI INPUT 1--3: BNC x 3 * Conforms to SMPTE 424M (SMPTE 425M-AB), 292M HDMI INPUT 3--4: Type A (19 pins) x 2 * HDCP Supported * INPUT 3: SDI or HDMI selected
Output Connectors	SDI OUT PGM: BNC x 1, SDI OUT PVW: BNC x 1 * Conforms to SMPTE 424M (SMPTE 425M-AB), 292M, HDMI OUT MULTI-VIEW: Type A (19 pins) x 1 * HDCP Supported
Input formats	SDI INPUT 1-3 Conforms to SMPTE 296M, SMPTE 274M HDMI INPUT 3 720/59.94p, 720/50p SMPTE 296M(FORMAT switch = 720p) 1080/59.94i, 1080/50i, 1080/59.94p, 1080/50p SMPTE 274M (FORMAT switch = 1080i or 1080p) * The input interlaced video signal is converted to progressive video signal by internal processing * The video signal frame rate can be selected at the SETUP menu (59.94 or 50) HDMI INPUT 4 480/59.94i, 576/50i, 480/59.94p, 576/50p, 720/59.94p, 720/50p, 1080/59.94i, 1080/50i, 1080/59.94p, 1080/50p VGA (640 x 480/60 Hz), SVGA (800 x 600/60 Hz), XGA (1024 x 768/60 Hz) WXGA (1280 x 768/60 Hz), SXGA (1280 x 1024/60 Hz) FWXGA (1366 x 768/60 Hz), SXGA+ (1400 x 1050/60 Hz) UXGA (1600 x 1200/60 Hz), WUXGA (1920 x 1200/60 Hz) * The refresh rate is the maximum value of each resolution * Conforms to 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 * The video signal frame rate can be selected at the SETUP menu (59.94 or 50)
OUTPUT formats	SDI OUT(PGM/PVW) Conforms to SMPTE 296M, 274M HDMI OUT MULTI-VIEW 720/59.94p, 720/50p SMPTE 296M(FORMAT switch = 720p) 1080/59.94i, 1080/50i SMPTE 274M(FORMAT switch = 1080i) 1080/59.94p, 1080/50p SMPTE 274M(FORMAT switch = 1080p) * The video signal frame rate can be selected at the SETUP menu (59.94 or 50)
Video Effects	Transition: CUT, MIX (DISSOLVE/FAM/NAM/MOSAIC), WIPE (30 types) Composition: PinP, SPLIT, QUAD, DSK (Luminance Key, Chroma Key)

AUDIO	
Audio Processing	Sampling rate: 24 bits/48 kHz
Audio formats	SDI: Linear PCM, 24 bits/48 kHz, 2ch Conforms to SMPTE 299M HDMI: Linear PCM, 24 bits/48 kHz, 2ch
Input Connectors	Digital: SDI INPUT 1--3 (BNC) x 3 SMPTE 299M HDMI INPUT 3--4 (HDMI Type A 19 pins) x 2 Analog: AUDIO IN (RCA phono type) MIC (Stereo mini type, plug-in power supported)
Output Connectors	Digital: SDI OUT PGM: BNC x 1 SMPTE 299M SDI OUT PVW: BNC x 1 SMPTE 299M HDMI OUT MULTI-VIEW: Type A (19 pins) x 1 Analog: AUDIO OUT (RCA phono type) PHONES (Stereo mini type)
Input Level	AUDIO IN: -10 dBu (Maximum: +8 dBu) MIC: -41-- -13 dBu (Maximum: -1 dBu)
Input Impedance	AUDIO IN: 15 k ohms, MIC: 10 k ohms
Output Level	AUDIO OUT: -10 dBu (Maximum: +8 dBu) PHONES: 92 mW + 92 mW (32 ohms)
Output Impedance	AUDIO OUT: 1k ohm, PHONES: 10 ohms
Audio Effects	EQ, Delay, Compressor, HPF, Gate, Reverb, Mastering effect
OTHERS	
Other Connectors	USB: B Type (for remote control from PC), RS-232: DB-9 type
Other Functions	MEMORY (8 types), FREEZE (input video captured), OUTPUT FADE (Audio, Video: WHITE or BLACK)
Power Supply	AC Adaptor
Current Draw	2.1A
Power Consumption	25 W
Operating Temp.	+0 to +40 degrees Celsius, +32 to +104 degrees Fahrenheit
Dimensions	313 (W) x 108 (D) x 59 (H) mm, 12-1/3 (W) x 4-1/4 (D) x 2-1/3 (H) inches
Weight (excl. AC adapt)	1.2 kg, 2 lbs 10-2/5 oz
Accessories	Owner's manual, AC adaptor, Power cord, Cord hook

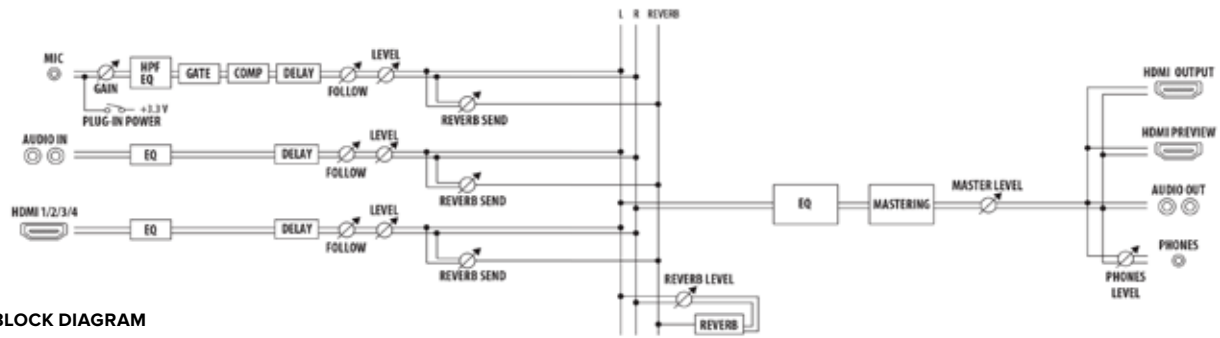


Compact and portable entry model of full HD supported video switcher

- 4 HDMI inputs
- Easy-to-use interface
- Easy to operate with hardware controls
- Picture-in-picture and split functions
- Remote control via USB or MIDI connection
- Supports up to Full HD 1080p
- Full 12-channel audio mixer included
- Two HDMI outputs
- Two EFFECTS knobs deliver genuine visual performance
- Software control using V-1HD RCS application for Mac, PC, and iPad



VIDEO BLOCK DIAGRAM



AUDIO BLOCK DIAGRAM



SPECIFICATIONS V-1HD

VIDEO	
Processing	4:2:2 (Y/Pb/Pr), 8-bit
Input Connectors	HDMI INPUT 1-4: Type A (19 pins) x 4 * HDCP Supported
Output Connectors	HDMI OUTPUT: Type A (19 pins) * HDCP Supported HDMI PREVIEW: Type A (19 pins) * HDCP Supported
Input formats	HDMI: 720/59.94p, 720/50p (FORMAT switch=720p) 1080/59.94i, 1080/50i, 1080/59.94p, 1080/50p (FORMAT switch=1080i or 1080p) * The input interlaced video signal is converted to progressive video signal by internal processing. * The video signal frame rate is selected by SETUP parameters (59.94 or 50)
OUTPUT formats	HDMI: 720/59.94p, 720/50p (FORMAT switch=720p) 1080/59.94i, 1080/50i (FORMAT switch=1080i) 1080/59.94p, 1080/50p (FORMAT switch=1080p) * The video signal frame rate is selected in SETUP parameters (59.94 or 50)
Effects	Transition: CUT, MIX (DISSOLVE/FAM/NAM/MOSAIC), WIPE (30 types), TRANSFORMER (11 types) Filter and Compositing: NEGATIVE, EMBOSS, COLORIZE, COLORPASS, POSTERIZE, SILHOUETTE, MONOCOLOR, FINDEGE, FLIP, WH-LUMIKEY@, BK-LUMIKEY@, GR-CHROMAKEY@, BL-CHROMAKEY@, PinP (1/4)@, PinP (1/2)@, SPLIT (H-STRETCH)@, SPLIT (H-CENTER)@, SPLIT (V-STRETCH)@, SPLIT(V-CENTER)@ * @ marked Effects are effected common to A-BUS and B-BUS

(0dBu=0,775Vrms)

AUDIO	
Audio Processing	Sampling rate: 24 bits/48 kHz
Input Connectors	Digital: SDI INPUT 1-3 (BNC) x 3 SMPTE 299M, HDMI INPUT 3-4 (HDMI Type A 19 pins) x 2, Analog: AUDIO IN (RCA phono type), MIC (Stereo mini type, plug-in power supported)
Output Connectors	Digital: HDMI OUTPUT (HDMI Type A 19 pins), HDMI PREVIEW (HDMI Type A 19 pins), Analog: AUDIO OUT (RCA pin type), PHONES (Stereo mini type)
Input Level	AUDIO IN: -10 dBu (Maximum: +8 dBu), MIC: -41~-13 dBu (Maximum: -1 dBu)
Input Impedance	AUDIO IN: 15 k ohms, MIC: 10 k ohms
Output Level	AUDIO OUT: -10 dBu (Maximum: +8 dBu), PHONES: 72 mW + 72 mW (32 ohms)
Output Impedance	AUDIO OUT: 1 k ohms, PHONES: 10 ohms
Effects	EQ, Delay, Compressor, HPF, Gate, Reverb, Mastering effect
OTHER JACKS	
USB	B Type (for remote control from PC)
MIDI	IN, OUT/THRU
OTHERS	
Other Functions	MEMORY (8 types), FREEZE (input video captured), BPM SYNC (auto transition synchronized to tempo), OUTPUT FADE (WHITE/BLACK)
Power Supply	AC Adaptor
Current Draw	1.5 A
Power Consumption	18 W
Operating Temp.	+0 to +40 degrees Celsius, +32 to +104 degrees Fahrenheit
Dimensions	313 (W) x 102 (D) x 59 (H) mm, 12-1/3 (W) x 4 (D) x 2-1/3 (H) inches
Weight	1.2 kg (excluding AC adaptor), 2 lbs 10-2/5 oz
Accessories	Owner's Manual, AC Adaptor, Power Cord, Cord Hook

V-02HD MK II

STREAMING VIDEO MIXER



Switcher, scaler, expander with audio processing and video effects

- 2 in / 2 out multi-format video mixer
- Professional transition and composition FX including KEY and PinP
- Input / output scalers and EDID emulator
- 10-bit 4:4:4 quality processing
- 14 onboard Visual FX including Mosaic FX
- Still image store
- Advanced audio processing DSP
- Audio embed/de-embed
- Switch between cameras via a connected footswitch (sold separately)
- Preset memory (8 types)
- Dedicated V-02HD remote control app for iPad



Simply simple

The V-02HD MK II is the world's easiest two-camera livestreaming solution. With its intuitive layout, large controls, and T-bar fader, it's incredibly simple to operate, even if you have no broadcasting experience. Go live in three quick steps: 1. Plug in up to two sources via HDMI, including cameras, computers, mobile devices, and gaming consoles. 2. Connect the USB-C output to your computer. 3. Launch your streaming software and select the V-02HD MK II as the camera source.



Stream with every platform

The V-02HD MK II connects to the streaming computer you already own and the audience you already have. It's instantly recognized as a camera source when you plug in via USB, so it's ready to go for Facebook, YouTube, Twitch, and Zoom. It also integrates seamlessly with OBS Studio, StreamYard, and Restream for more advanced workflows. High-quality streaming up to 1080p/60 FPS is supported, and it's possible to send two additional feeds to external HDMI devices via the Program Out and Preview Out if needed.



Upgrade your sound too

The V-02HD MK II also includes a 10-channel digital audio mixer with Roland's legendary sound quality. There are two audio inputs with 3.5 mm jacks, and each supports a microphone—including lavalier mics that require plug-in power—or stereo audio from a smartphone, mixer, or other device. Embedded stereo audio from your HDMI sources can be mixed in as well, including microphones connected to your cameras.



HDMI cameras for the win

From talk shows and live demonstrations to artistic performances and beyond, cameras that support HDMI output will elevate the image quality in your streams and drive more audience engagement. You can connect a variety of different camera types to the V-02HD MK II. **GOOD**—A smartphone or tablet with an HDMI adaptor offers a good option that's compact and easy to set up anywhere. **BETTER**—A point-and-shoot camera, action camera, or video camcorder with features like zoom, deeper exposure and focus control will take things even further. **BEST**—A DSLR or mirrorless camera is the ultimate solution, offering the best image quality for a cinematic look, interchangeable lenses, and improved performance in low-light conditions.



Step up your livestreams. Ditch the webcam and step up your livestreams with the Roland V-02HD MK II Streaming Video Mixer. Compact, affordable, and simple to use, this desktop device allows you to connect and switch two high-quality HDMI cameras and send them directly to your favorite streaming platform over USB-C. You can also mix in audio sources via dedicated inputs and HDMI, apply video effects and transitions, and more.



Go deeper with advanced Pro A/V features

Out of the box, the V-02HD MK II gives you the dedicated controls you need to switch cameras and adjust video and audio sources when you go live. But if you want to dive deeper, there's a world of advanced features and custom assignments to explore. Connecting an HDMI monitor to the Preview Out provides a display for adjusting a vast range of functions from the V-02HD MK II panel. And with our remote control apps for iPad, macOS, and Windows,* you can operate the V-02HD MK II via an intuitive graphical interface.

Wireless camera expansion with the AeroCaster switcher

The purchase of a V-02HD MK II provides free access to Roland's AeroCaster Switcher for iPad, a powerful solution to cleanly expand your camera setup without the hassle of extra cables. With this unique app, you can wirelessly connect and switch up to five smartphone or tablet cameras, then output a combined program feed to the V-02HD MK II or another supported Roland switcher with HDMI input.

More audio control

Access full mixing functions for all audio sources, add studio polish with compressor, EQ, and reverb, and have fun with formant shifting and robot sounds with the unique voice changer effect. It's also possible to independently delay the audio inputs and outputs—including the headphones output—if you have any synchronization issues with your cameras.

Visual effects and scenes

Adding video effects and creating scenes has become easier with software, but they put a big burden on your computer. The V-02HD MK II provides a dedicated hardware solution that lightens that load. Via the preview monitor and apps, you can set up picture-in-picture windows, create titles and lower thirds, composite scenes, and much more.

Footswitch assignment

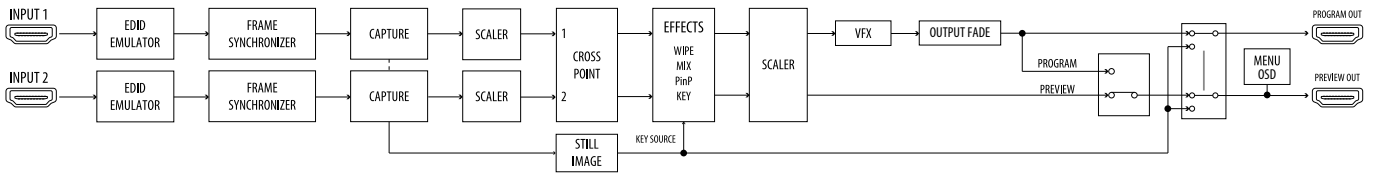
If you've added footswitches to your system, you can set custom functions for them in the preview monitor and remote apps.



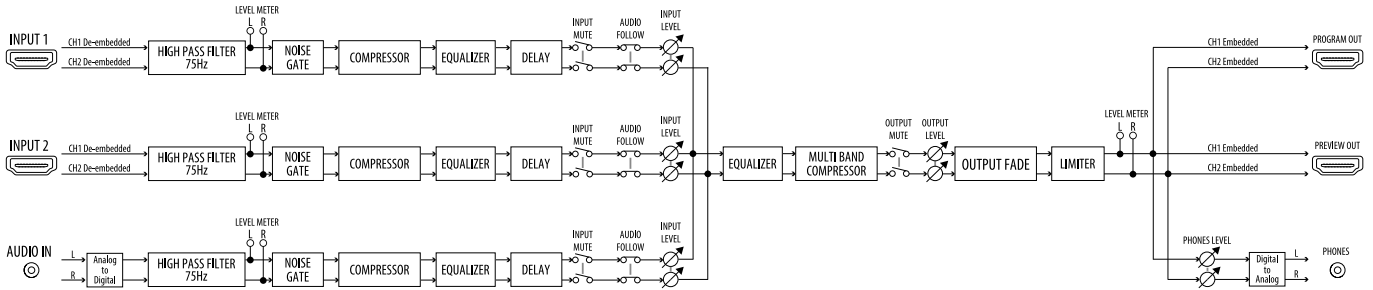
V-02HD MK II iPad remote app

The dedicated V-02HD MK II Remote app turns an iPad into an efficient touch interface for the V-02HD MK II. Run essential switching functions, mix audio with virtual faders, change settings and effect parameters quickly, and create up to eight custom scenes for seamless setup changes.

VIDEO BLOCK DIAGRAM



AUDIO BLOCK DIAGRAM



SPECIFICATIONS V-02HD MK II

VIDEO	
Video Processing	4:4:4 (Y/Pb/Pr), 10-bit
Input Connectors	INPUT 1-2: HDMI type A x 2 * HDCP Supported * Multi-format Supported
Output Connectors	PROGRAM OUT: HDMI type A PREVIEW OUT: HDMI type A * HDCP Supported * Multi-format Supported USB STREAM: USB Type-C (TM)
Input formats	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 x 480/60Hz), SVGA (800 x 600/60Hz), XGA (1024 x 768/60Hz) WXGA (1280 x 800/60Hz), SXGA (1280 x 1024/60Hz) FWXGA (1366 x 768/60Hz), SXGA+ (1400 x 1050/60Hz) UXGA (1600 x 1200/60Hz), WUXGA (1920 x 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
Output formats	PROGRAM OUT, PREVIEW OUT: 480/59.94p, 720/59.94p, 1080/59.94i, 1080/59.94p, 1080/29.97p *1 576/50p, 720/50p, 1080/50i, 1080/50p, 1080/25p *2 SVGA (800 x 600/60 Hz), XGA (1024 x 768/60 Hz) WXGA (1280 x 800/60 Hz), FWXGA (1366 x 768/60 Hz) SXGA (1280 x 1024/60 Hz), SXGA+ (1400 x 1050/60 Hz) UXGA (1600 x 1200/60 Hz), WUXGA (1920 x 1200/60 Hz) HD (1280 x 720/60 Hz), FHD (1920 x 1080/60 Hz) * Conforms to VESA DMT Version 1.0 Revision 11. * The output refresh rates of 800 x 600--1400 x 1050 are 75 Hz when the unit's frame rate setting is 50 Hz. * 1920 x 1200/60 Hz: Reduced blanking *1 FRAME RATE = 59.94 Hz *2 FRAME RATE = 50 Hz USB STREAM: 1080/59.94p, 720/59.94p, 640 x 480/59.94p *1 1080/29.97p, 720/29.97p, 640 x 480/29.97p *2 1080/50p, 720/50p, 640 x 480/50p *3 1080/25p, 720/25p, 640 x 480/25p *4 *Uncompressed format (YUV2) and Compressed format (Motion JPEG) supported. *1 FRAME RATE(USB OUT) = 59.94 Hz *2 FRAME RATE(USB OUT) = 29.97 Hz *3 FRAME RATE(USB OUT) = 50 Hz *4 FRAME RATE(USB OUT) = 25 Hz
Video Effects	Transition: CUT, MIX (DISSOLVE), WIPE (9 types) Composition: PinP (RECTANGLE, CIRCLE, DIAMOND), KEY (Luminance Key, Chroma Key) Visual Effects (14 types): MOSAIC, WAVE, RGB REPLACE, COLORPASS, NEGATIVE, COLORIZE, POSTERIZE, SILHOUETTE, EMOSS, FIND EDGES, MONOCOLOR, HUE OFFSET, SATURATION OFFSET, VALUE OFFSET 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	Analog: AUDIO IN 1-2: Stereo miniature type x 2 Digital: USB STREAM: USB Type-C (TM) INPUT 1-2: HDMI Type A x 2
Output Connectors	Analog: PHONES: Stereo miniature type Digital: USB STREAM: USB Type-C (TM) PROGRAM OUT: HDMI type A PREVIEW OUT: HDMI type A
Input Level	AUDIO IN: -10 dBu (Maximum: +10 dBu)
Input Impedance	AUDIO IN: 10 k ohms
Output Level	PHONES: 92 mW + 92 mW (32 ohms)
Output Impedance	PHONES: 10 ohms
Audio Effects	Delay, Reverb, High pass filter, Noise gate, De-esser, Compressor, Equalizer, Voice changer, Multi-band compressor, Limiter, Test tone output
OTHERS	
Other Connectors	USB STREAM: USB Type-C (TM) (for backup from PC, for remote control from PC and iPad), CTL/EXP: 1/4-inch TRS phone type (for remote control from foot switch and expression pedal)
Other Functions	Preset Memory (8 types) Panel lock function EDID Emulator Auto Switching Auto Input Detect
Power Supply	AC Adaptor
Current Draw	1.4 A
Power Consumption	12.6 W
Operating Temp.	+0 to +40 degrees Celsius, +32 to +104 degrees Fahrenheit
Dimensions	160 (W) x 108 (D) x 51 (H) mm 6-5/16 (W) x 4-1/4 (D) x 2-1/16 (H) inches
Weight (excluding AC adaptor)	0.6 kg, 1 lbs 6 oz
Accessories	Startup Guide, AC adaptor, Power cord, Cord hook
Options (sold separately)	Footswitch: BOSS FS-5U, FS-6, FS-7 Expression Pedal: EV-5, BOSS FV-500L, FV-500H

* 0 dBu=0.775 Vrms

VIDEO SWITCHER COMPARISON CHART

Model Name	V-02HD MKII	V-1HD	V-1HD+	V-1SDI
Video Processing	1080/60p	1080/60p	1080/60p	1080/60p
HDMI Video Input	2 (2 x scalers)	4	4 (1 x scaler)	2 (1 x scaler)
HDMI Video Output	2	2	2	1
SDI Video Input	–	–	–	3
SDI Video Output	–	–	–	2
RGB/Component Video Input	–	–	–	–
Stream/Record USB to Computer	USB-C Up to 1080/60p ✓	–	–	–
Scene Memory Presets	8	8	8	8
Analog Audio Input	Stereo Mini x 2	RCA stereo x 1 Stereo Mini x 1	RCA stereo x 1 Stereo Mini x 1 XLR x 2	RCA stereo x 1 Stereo Mini x 1
Analog Audio Output	Phones x 1	RCA stereo x 1 Phones x 1	RCA stereo x 1 TRS stereo x 1 Phones x 1	RCA stereo x 1 Phones x 1
Audio Mixer	10 channels	12 channels	14 channels	14 channels
PIP	1 (variable zoom)	1 (1/2, 1/3 or 1/4)	1 (variable zoom)	1 (1/2, 1/3 or 1/4)
Key Layers	1 PIP (Luma, Chroma) 1 DSK (Luma, Chroma)	1 DSK (Luma, Chroma)	1 PIP (Luma, Chroma) 1 DSK (Luma, Chroma)	1 DSK (Luma, Chroma)
Video Effects	✓	✓	✓	✓
Audio Effects	11 types	7 types	9 types	7 types
Video/Audio AUX Bus	✓ (1 Audio)	–	–	–
Still Image	✓ (1 Still)	–	✓ (4 Stills)	✓ (1 Stills)
Capture Image	✓	–	✓	✓
Camera Battery Support	✓	–	✓	✓
PTZ Camera Control	–	–	–	–
Remote Control	iPad RCS, PC RCS (Win/Mac), MIDI (USB)	iPad RCS, PC RCS (Win/Mac), MIDI 5-Pin/ (USB)	iPad RCS, RS-232	PC RCS (Win/Mac), RS-232, MIDI (USB)
Footswitch Control	Single or double x 1	–	–	–
Tally	–	–	9 Pin	–
Graphics Presenter Support	–	–	–	–
VenuSet Support	–	–	–	–

VIDEO SWITCHER COMPARISON CHART

				
V-1-4K	V-8HD	V-80HD	V-160HD	V-600UHD
2160/60p	1080/60p	1080/60p	1080/60p	2160/60p
5 (5x scalers)	8 (2 x scalers)	4 (4 x scalers)	8 (4 x scalers)	4 (4 x scaler)
5	3	3	3	4
–	–	4	8	(2 x scalers)
–	–	2	3	1
–	–	–	–	1
✓ USB-C up to 2160/60p	–	✓ USB-C up to 1080/60p	✓ USB-C up to 1080/60p	–
8	24 Memories 100 Macros	32 Memories 100 Macros	30 Memories 100 Macros	64
XLR x 2	RCA stereo x 1	RCA stereo x 1 XLR x 2	RCA stereo x 1 XLR x 2	XLR x 2
RCA stereo x 1 Phones x 1	RCA stereo x 1 Phones x 1	XLR x 2 Phones x 1	RCA stereo x 1 XLR stereo x 1 Phones x 1	XLR x 2 Phones x 1
14 channels	18 channels	28 channels	40 Input Channels 18 Output Channels	16 channels
1 (variable zoom)	2 (variable zoom)	2 (variable zoom)	4 (variable zoom)	2 (variable zoom)
1 PIP (Luma, Chroma) 1 DSK (Luma)	2 PIP (Luma, Chroma) 1 DSK (Luma, Chroma, Alpha)	2 PIP (Luma, Chroma) 1 DSK (Luma, Chroma, Alpha)	4 PIP (Luma, Chroma) 2 DSK (Luma, Chroma, Alpha)	2 PIP (Luma, Chroma)
✓	✓	✓	✓	✓
7 types	8 types	14 types	14 types	–
✓ (2 Audio)	✓	✓ x 2	✓ x 3	✓
✓ (2 Stills)	✓ (8 Stills)	✓ (32 Stills)	✓ (16 Stills)	✓ (8 Stills)
✓	✓	✓	✓	✓
–	✓	–	–	–
✓ (5 Cameras)	–	✓ (8 Cameras)	✓ (16 Cameras)	✓ (6 Cameras)
VenuSet (iPad/Win/Mac), iPad RCS, PC RCS (Win/Mac), MIDI (USB)	VenuSet (iPad/Win/Mac), iPad RCS, PC RCS (Win/Mac), MIDI (USB)	VenuSet (iPad/Win/Mac), iPad RCS, PC RCS (Win/Mac), LAN, RS-232	VenuSet (iPad/Win/Mac), iPad RCS, PC RCS (Win/Mac), LAN, RS-232	Web RCS, LAN, RS-232
–	Single or double x2	Single or double x2	Single or double x2	–
LAN (PTZ, Smart Tally)	–	25 Pin, LAN (PTZ Only)	25 Pin, LAN (PTZ Only)	25 Pin, LAN (PTZ Only)
✓ (4K)	✓ (HD)	✓ (HD)	✓ (HD)	–
✓ (4K)	✓ (HD)	✓ (HD)	✓ (HD)	–

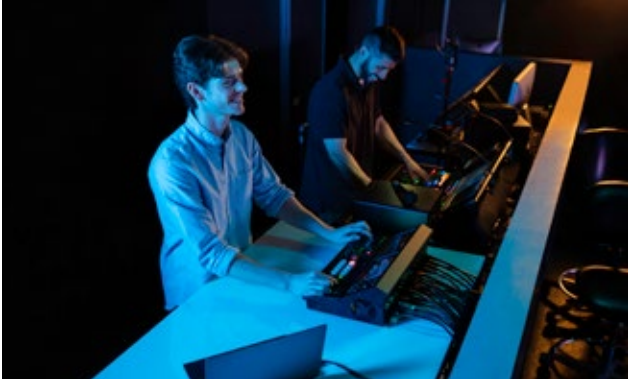
VR-400UHD

4K STREAMING AV MIXER



Intuitive 4K workflow with dual touchscreens

- Professional 4K AV command center with dual touchscreens
- Integrated production solution: video switching, audio mixing, and USB streaming
- Scene function for complex video compositions
- Monitor up to eight scenes at once
- Save up to 64 scenes (eight scenes and eight banks)
- Composite two picture-in-picture/key layers on top of background images using scenes
- Composite a DSK image on the picture-in-picture/key layers and background independently from scenes
- Seven HDMI inputs supporting rates up to 4K/60p
- Multiple resolutions supported: 4K/60p, HDR (Rec.2020) up to 1080/60p, and SDR (Rec.709)
- Freely combine 4K/FHD, HDR/SDR, and Rec.2020/Rec.709 formats with built-in scalers on the HDMI inputs and outputs
- Import BMP, JPEG, and PNG images from USB media into eight internal memories (PNG alpha channel supported)
- Region of Interest (ROI) function
- Seamlessly switch between two scenes in PGM/PST mode
- Use Dual mode to send different scenes to each of the two touch displays
- 14-channel digital audio mixer with advanced effects
- Four XLR/TRS combo inputs with phantom power, two TRS mic inputs, and two stereo RCA line inputs
- USB-C webcam output with support for streaming up to 4K/30fps
- Selectable languages for the user interface



Touch and go

Two seven-inch touchscreens make it simple to monitor video content and execute operations with quick touches. In the default PGM/PST mode, you can monitor and select up to eight video scenes on the right screen and access various video switching and audio functions on the left. Switching to Dual mode allows you to send video to both displays, which is ideal for events where you need to operate multiple presentation screens at once.



Present and livestream in 4K

The VR-400UHD supports 4K/60fps—the standard for high-quality video—allowing you to connect 4K cameras and feed 4K displays and recorders. HDR and SDR formats are also supported, with automatic conversion into your 4K workflow. And with the USB-C webcam output* and integrated USB 3.2 Gen 2 support, you can simultaneously livestream to popular platforms on your computer.

*Supports SDR video up to 4K/30p only.

The VR-400UHD is a powerful and intuitive solution for managing complex production tasks during in-person and livestreaming events. Side-by-side touchscreens provide fast, direct control of your workflow in the heat of the moment, letting you monitor live video thumbnails, switch composite video scenes, access audio mixing and video routing functions, and much more. Versatile onboard AV connectivity provides the I/O you need to manage everyday production needs with one compact unit. And with full 4K HDMI and USB streaming support, you're always ready to deliver the highest video quality for your clients and audience.



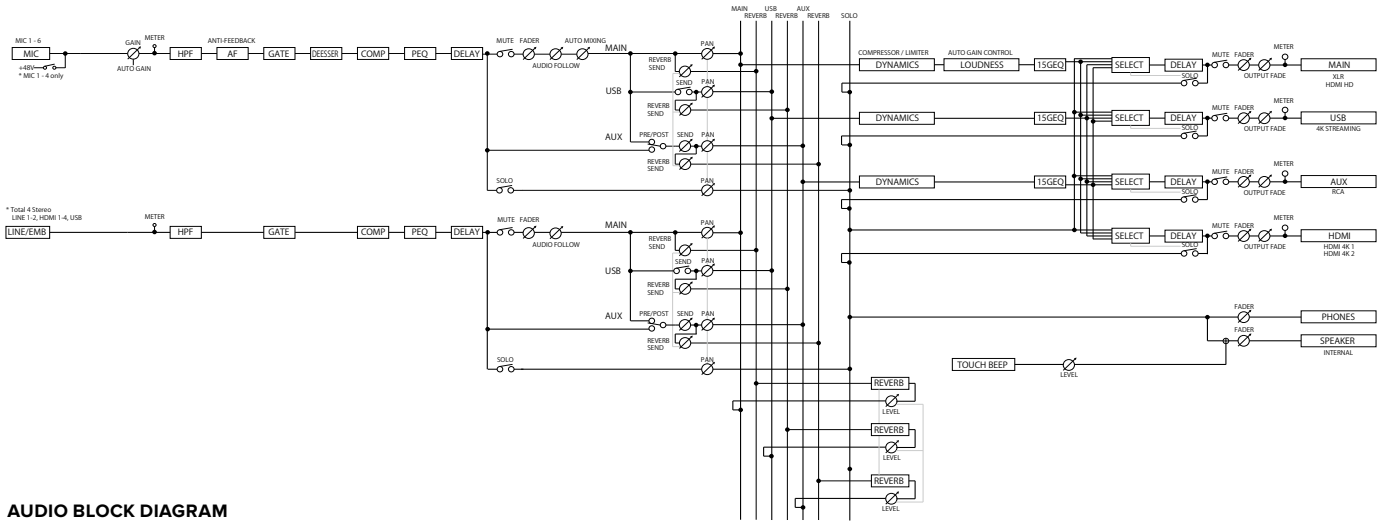
Automatically follow the action

When there are many presenters, you need to follow the action and switch audio and video together. The automated video switching and audio mixing features in the VR-400UHD make this complicated task simple, greatly easing your workload and creating a smooth production experience.



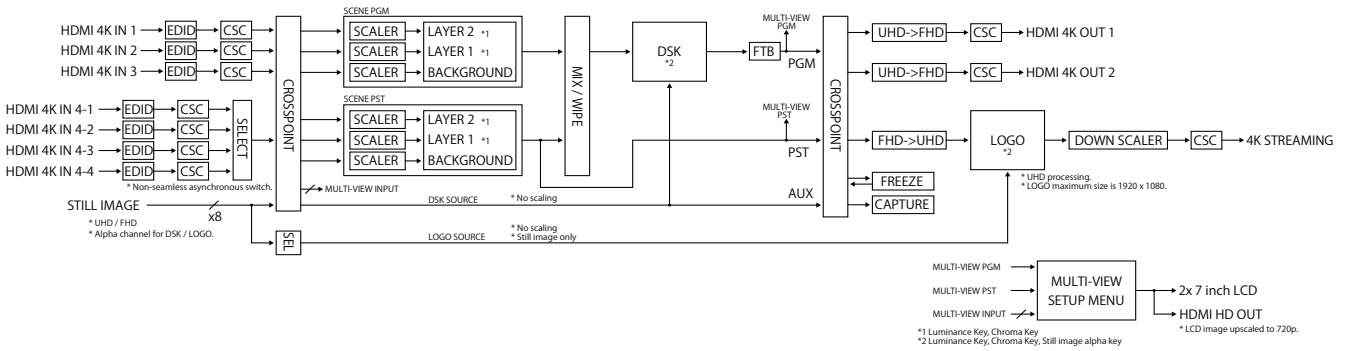
Multi-channel audio inputs

Comprehensive analog audio connectivity includes four balanced XLR/TRS combination jacks with high-quality mic preamps and phantom power. Two additional mic inputs are available on TRS jacks, plus two stereo RCA input pairs for connecting line-level devices. It's also possible to mix the embedded digital audio from sources connected via HDMI and USB.

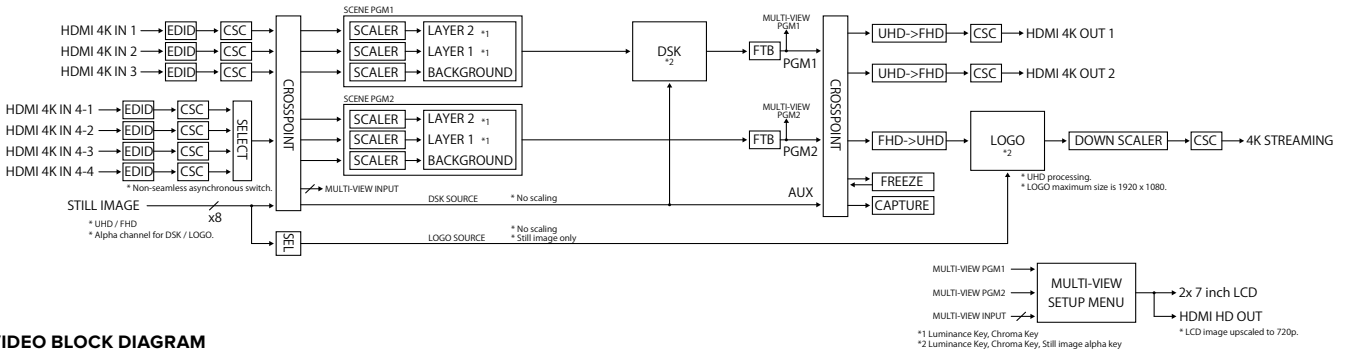


AUDIO BLOCK DIAGRAM

PGM/PST mode



DUAL mode



VIDEO BLOCK DIAGRAM



PROFESSIONAL AUDIO MIXING

The VR-400UHD is equipped with a professional audio mixer with 14 simultaneous channels and a full complement of acclaimed Roland sound-shaping tools. Comprehensive analog audio connectivity includes four balanced XLR/TRS combination jacks with high-quality mic preamps and phantom power. Two additional mic inputs are available on TRS jacks, plus two stereo RCA input pairs for connecting line-level devices.



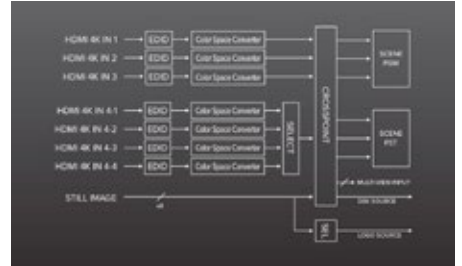
Two touchscreen modes

In PGM/PST mode, you can switch between scenes using transition effects such as cuts, dissolves, and wipes for a polished look. Eight banks provide a total of 64 scenes, with eight scenes at a time displayed on the right touch display. Using Dual mode, you can display PGM1 on the right screen and PGM2 on the left and assign them to HDMI and USB outputs.* This is ideal for working with separate LED panels on the left and right sides of a stage, allowing you to monitor and control both at once.

*Only freeze cut transition effects are available in Dual mode.

Seven 4K HDMI inputs

The VR-400UHD is equipped with seven HDMI inputs with up to 4K/60p resolution, and you can use up to four inputs at once to create video compositions. Inputs 1–3 are always available, while cameras and other devices connected to the additional four inputs can be selected one at a time as needed. All inputs feature built-in scalars, letting you freely mix 4K/HD, HDR/SDR, and Rec.2020/Rec.709 devices with no need to worry about format conversion.



SPECIFICATIONS VR-400HD

VIDEO	
Video Processing	4:2:2 (Y/Pb/Pr), 10-bit
Video Channels	4 channels
Video Input Formats	HDMI 4K IN: 2160p/60 Hz, 59.94 Hz, 50 Hz, 30 Hz, 29.97 Hz, 25 Hz, 24 Hz, 23.98 Hz, 1080p/60 Hz, 59.94 Hz, 50 Hz, 30 Hz, 29.97 Hz, 25 Hz, 24 Hz, 23.98 Hz, 1080i/59.94 Hz, 50 Hz, 720p/60 Hz, 59.94 Hz, 50 Hz * HDCP 1.4, 2.2 supported * Conforms to CEA-861-F * Color Gamut: Rec.709, Rec.2020 * Dynamic Range: SDR, HDR PQ (HDR10), HDR HLG
Video Output Formats	HDMI 4K OUT: 2160p/60 Hz, 59.94 Hz, 50 Hz, 30 Hz, 29.97 Hz, 25 Hz, 24 Hz, 23.98 Hz, 1080p/60 Hz, 59.94 Hz, 50 Hz, 30 Hz, 29.97 Hz * HDCP 1.4, 2.2 supported * Conforms to CEA-861-F * Color Gamut: Rec.709, Rec.2020 * Dynamic Range: SDR, HDR PQ (HDR10), HDR HLG HDMI HD OUT: 1280 x 720/60 Hz * HDCP 1.4 supported * Conforms to CEA-861-F * Color Gamut: Rec.709 * Dynamic Range: SDR 4K STREAMING: 960 x 540, 1280 x 720, 1920 x 1080, 2560 x 1440, 3840 x 2160 * Frame Rate (~2560 x 1440): 25 Hz, 29.97 Hz, 30 Hz, 50 Hz, 59.94 Hz, 60 Hz. * Frame Rate (3840 x 2160): 25 Hz, 29.97 Hz, 30 Hz * Color Gamut: Rec.709 * Dynamic Range: SDR * Conforms to USB Video Class
Still Image	Bitmap File (.bmp) Maximum 3840 x 2160 pixels, 24-bit color, uncompressed. JPEG File (.jpg, .jpeg) Maximum 3840 x 2160 pixels, 24-bit color PNG File (.png) Maximum 3840 x 2160 pixels, 24-bit color * It can be stored up to 8 files in the internal memory. * PNG alpha channel supported
Video Effects	Transition: Cut, Mix, Wipe (11 patterns) Composition: Background, Layer 1 (PinP + Key)(*1), Layer 2 (PinP + Key)(*1), DSK (*2), Logo (*3) Other: Multi-View, Output Fade, Output Freeze, Output Capture, Still Image playback, Test pattern output *1 Chrominance Key, Luminance Key *2 Chrominance Key, Luminance Key, Still image alpha channel *3 Chrominance Key, Luminance Key, Still image alpha channel, For 4K STREAMING only. Maximum size is 1920 x 1080.

CONNECTORS	
Video Input Connectors	HDMI 4K IN 1–3, 4-1–4-4: HDMI type A (HDMI 2.0) x 7 * HDCP 1.4, 2.2 Supported * Multi-format Supported
Video Output Connectors	HDMI 4K OUT 1–2: HDMI type A (HDMI 2.0) x 2 * HDCP 1.4, 2.2 Supported * Multi-format Supported HDMI HD OUT: HDMI type A (HDMI 1.4) x 1 * HDCP 1.4 Supported 4K STREAMING: USB Type-C (R) (USB 3.2 GEN 2 10 Gbps) 4K STREAMING: USB Type-C (R) (USB 3.1 GEN 2 10 Gbps)
Audio Input Connectors	Analog: AUDIO MIC IN 1–4: Combo type (XLR, 1/4-inch TRS phone) balanced, phantom power (DC 48 V, 10 mA Max) AUDIO MIC IN 5–6: 1/4-inch TRS phone, balanced AUDIO LINE IN 1–2: RCA phono type Digital: 4K STREAMING: USB Type-C (R) HDMI 4K IN 1–3, 4-1–4-4: HDMI type A (HDMI 2.0) x 7
Audio Output Connectors	Analog: AUDIO OUT MAIN (L, R): XLR type AUDIO OUT AUX (L, R): RCA phono type PHONES: Stereo 1/4-inch phone type Digital: 4K STREAMING: USB Type-C (R) HDMI 4K OUT 1–2: HDMI type A (HDMI 2.0) x 2 HDMI HD OUT: HDMI type A (HDMI 1.4) x 1
Other Connectors	USB HOST1–2: USB A type RS-232: 9 pin D-sub type (Male) LAN: RJ45 type, 100BASE-TX TALLY: 9 pin D-sub type (Female)

AUDIO	
Audio Processing	Sample rate: 24 bits, 48 kHz
Number of Audio Channels	14 Channels * MIC x6, LINE x2, HDMI, USB
Audio Formats	HDMI 4K IN : Linear PCM, 24 bits, 48 kHz, 2 ch HDMI 4K OUT : Linear PCM, 24 bits, 48 kHz, 2 ch 4K STREAMING (Input and Output) : Linear PCM, 16 bits, 48 kHz, 2 ch
Audio Effects	Channel Effects: Auto Gain, High pass filter, Anti-feedback, Noise Gate, De-esser, Compressor, 4-Band PEQ, Delay, Auto Mixing Master Effects: Reverb, Compressor/Limiter, Loudness Auto Gain Control, 15-band GEQ, Delay Others: Output fade, Test tone output
Nominal Input Level	AUDIO MIC IN 1–6: -64--+4 dBu (Maximum input level: +24 dBu) AUDIO LINE IN 1–2: -10 dBu (Maximum input level: +10 dBu)
Input Impedance	AUDIO MIC IN 1–6: 16 k ohms (phantom power OFF), 8 k ohms (phantom power ON) AUDIO LINE IN 1–2: 2.7 k ohms
Nominal Output Level	AUDIO OUT MAIN (L, R): +4 dBu (Maximum output level: +24 dBu) AUDIO OUT AUX (L, R): -10 dBu (Maximum output level: +10 dBu) PHONES: 90 mW + 90 mW (32 ohms load)
Output Impedance	AUDIO OUT MAIN (L, R): 600 ohms AUDIO OUT AUX (L, R): 1 k ohms PHONES: 10 ohms
Residual Noise Level (IHF-A, typ.)	-87 dBu (All faders: Min) -85 dBu ([MAIN] Fader: Unity, Channel faders: Unity only one MIC 1 channel, gain: Min) -57 dBu ([MAIN] Fader: Unity, Channel faders: Unity only one MIC 1 channel, gain: Max) * Input 150 ohms terminate * Output Connector: AUDIO OUT MAIN (L, R) jacks -100 dBu (All faders: Min) -99 dBu ([MAIN] Fader: Unity, Channel faders: Unity only one MIC 1 channel, gain: Min) -80 dBu ([MAIN] Fader: Unity, Channel faders: Unity only one MIC 1 channel, gain: Max) * Input 150 ohms terminate * Output Connector: AUDIO OUT AUX (L, R) jacks

COMMON SECTION	
External Media	USB flash drive (commercially available)
Other Functions	Scene Memory (64 types), Panel Lock Function, EDID Emulator Menu language (English, Japanese)

OTHERS	
Display	7 inch Graphic color LCD 800 x 480 dots (touch screen) x2
Internal Speaker	Monaural 1 W
Power Supply	AC 115 V, AC 117 V, AC 220 V, AC 230 V, AC 240 V (50/60 Hz)
Power Consumption	115 W
Operation Temperature	+5 to +40 degrees Celsius +41 to +104 degrees Fahrenheit
Dimensions	436 (W) x 279 (D) x 137 (H) mm, 17-3/16 (W) x 11 (D) x 5-7/16 (H) inches
Weight (excl. Accessories)	6.8 kg, 15 lbs
Accessories	Startup Guide, Power cord

* 0 dBu = 0.775 Vrms
* This product is a Class A digital device under FCC part 15.
All specifications and appearances are subject to change.



▼ P60



▼ P58

One operator, multiple audiences

- Portable hybrid event audio/video mixer with direct streaming encoders
- Powerful live production automation with sequencing, macros, and scene memories
- Built-in streaming encoders for transmitting two livestreams at rates up to 1080p/60 FPS
- Record streams directly to an SDXC card for archiving, editing, and distribution
- Six 3G SDI inputs with frame rate converters
- Six 1080p HDMI inputs with frame rate converters and real-time scalars
- Support for cinema and broadcast frame rates
- Eight-layer video effects engine
- Eight total outputs: three SDI, three HDMI, USB-C streaming, and a dedicated direct streaming output
- Nine selectable output modes: PGM, Sub PGM, 3xAUX, PVW and three multi-view options
- 42-channel digital audio mixer with advanced effects and processing
- 16-slot still store function supports screen capture or uploaded BMP, JPEG, and PNG images via alpha channel in the internal non-volatile memory
- Enhance your livestreams with sound effects, still images, and video sources stored on an SDXC card
- Audio Player function with eight trigger pads and onboard storage for 16 audio files
- PTZ control for 12 cameras
- Graphics Presenter support – this free, easy-to-use software for Windows computers
- New Chroma Key Engine – upgraded keyer algorithms allow for more precise composition in real time **Ver.2.0**
- SRT Input and Output – enables secure video and audio transmission over LAN/internet connections **Ver.2.0**
- Three AUX buses for both Video and Audio **Ver.2.0**
- iPad video monitoring and switching **Ver.2.0**
- External PTZ control enhancements – you can now adjust pan, tilt, and zoom for each camera **Ver.2.0**

With the VR-120HD Direct Streaming AV Mixer, a single operator can confidently manage hybrid live and online productions without the need for external gear and the staff to run it. Offering extensive audio and video I/O, a large touchscreen, and hands-on controls, this portable powerhouse gives you the tools you need to take on any mid-level production. Advanced Roland AV features make difficult tasks simple with customizable workflows, deep automation functions, remote PTZ camera control, one-touch macro sequencing, streaming over LAN and USB, and much more.



Powerful mixing tools

Set up direct control for your most important sound feeds with eight assignable faders. And when you have multiple presenters to deal with, engage Auto Mixing to lighten your load and ensure that the mix between microphones remains balanced. You can set specific inputs to take priority when someone starts to speak, and other audio levels are automatically reduced as needed.

Create custom experiences for live and online audiences

The VR-120HD's flexible video capabilities let you handle the diverse presentation needs of events as they happen. Assign sources to eight cross-points on the fly, including live video inputs, still images, and video clips. Prioritize cameras and/or computer sources with scene recall. And create custom feeds for live and online viewers by assigning composition layers to multiple busses as needed.



Layers and keys

Video effects and graphics are must-haves to bring polish and excitement to productions. The VR-120HD's effects engine features eight composition layers that can be assigned to the Program, Sub-Program and Aux outs, so you'll always keep audiences engaged with visually appealing content. With up to four picture-in-picture windows and two downstream key layers with transparent PNG and external key support, you can manage the creative needs of any client.



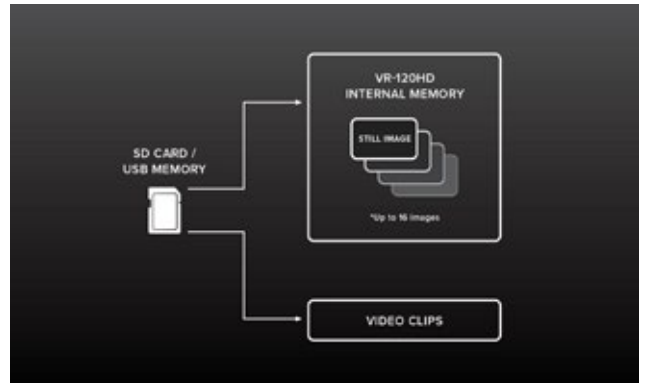
HDMI AND SDI INPUTS

The VR-120HD supports both HDMI for common A/V devices and SDI for long cable runs and high-end cameras. Seamlessly combine six HDMI sources and six SDI sources in Full HD with a range of broadcast and cinematic frame rates and color spaces. All HDMI inputs feature built-in scalars with EDID and HDCP support, eliminating connection hassles with client-provided sources like computers, tablets, smartphones, gaming consoles, and legacy 4:3 devices.



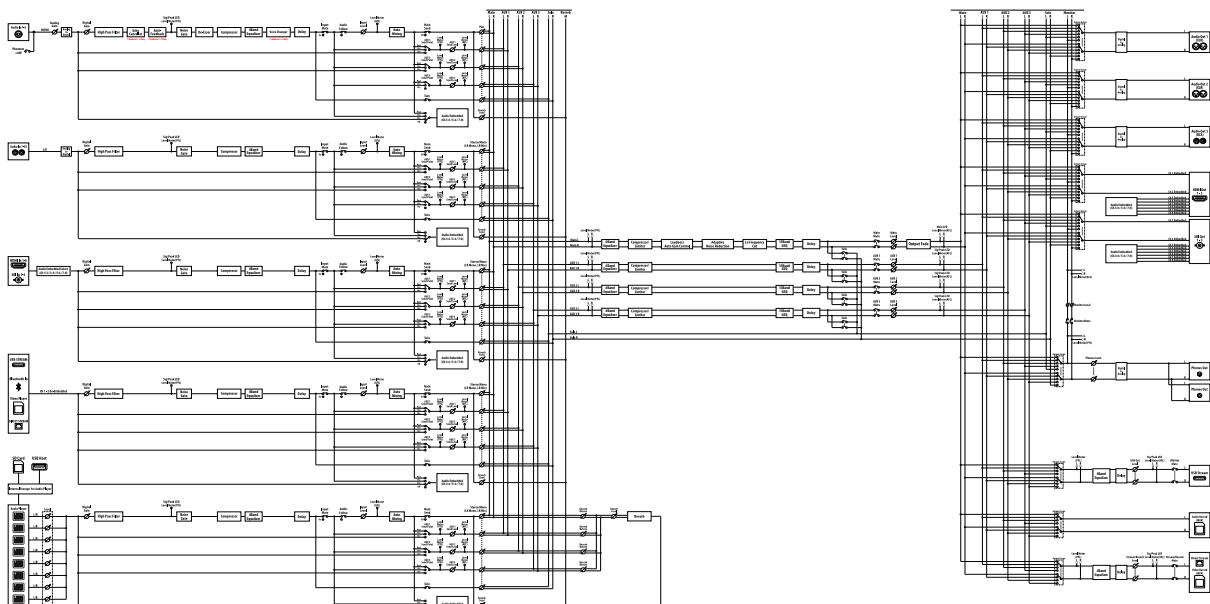
Shape your sound

The VR-120HD combines the full power of the latest digital audio consoles with expansive Roland effects. EQ and dynamics processing is provided for every input and output, and high-quality reverb is available for music applications and special effects. You also get specialized tools to quickly handle audio issues, like automatic anti-feedback for stage mics and adaptive noise reduction to suppress background noise and hum.

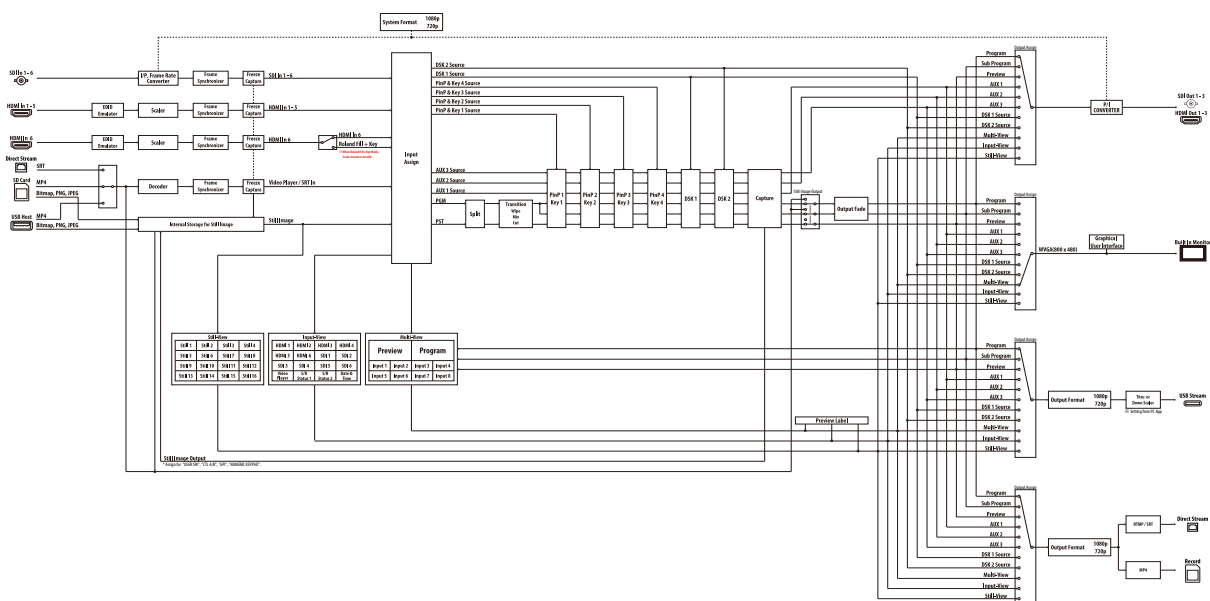


Integrated playback of stills and video clips

Enhance events with onboard support for graphics and video playback. Call up still images during transitions between presenters, display graphics for breaks, and use PNGs to create dynamic lower thirds. The integrated video player lets you trigger video clips directly from the SDXC card, with no need to connect an external playback device.



AUDIO BLOCK DIAGRAM



VIDEO BLOCK DIAGRAM

SPECIFICATIONS VR-120HD

VIDEO	
Video Processing	4:2:2 (Y/Pb/Pr), 8-bit
Video Channels	12 channels
Video Input Formats	HDMI IN 1--6: 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 x 480/60 Hz), SVGA (800 x 600/60 Hz), XGA (1024 x 768/60 Hz) WXGA (1280 x 800/60 Hz), SXGA (1280 x 1024/60 Hz) FWXGA (1366 x 768/60 Hz), SXGA+ (1400 x 1050/60 Hz) UXGA (1600 x 1200/60 Hz), WUXGA (1920 x 1200/60 Hz) * 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, 60 Hz *2 Frame Rate = 50 Hz SDI IN 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 *8 * The input interlaced video signal is converted to progressive video signal by internal processing. *1 Output Format = 720p *2 Output Format = 1080i or 1080p *3 Frame Rate = 59.94 Hz, 60 Hz *4 Frame Rate = 50 Hz
Video Output Formats	HDMI OUT 1--3, SDI OUT 1--3: 720/59.94p *1, *4, 720/60p *1, *5, 720/50p *1, *8, 1080/59.94i *2, *4, 1080/60i *2, *5, 1080/50i *2, *8, 1080/59.94p *3, *4, 1080/60p *3, *5, 1080/29.97p *3, *6, 1080/30p *3, *7, 1080/50p *3, *8, 1080/25p *3, *9, 1080/23.98p *3, *10, 1080/24p *3, *11 *1 Output Format = 720p *2 Output Format = 1080i *3 Output Format = 1080p *4 Frame Rate = 59.94 Hz *5 Frame Rate = 60 Hz *6 Frame Rate = 29.97 Hz *7 Frame Rate = 30 Hz *8 Frame Rate = 50 Hz *9 Frame Rate = 25 Hz *10 Frame Rate = 23.98 Hz *11 Frame Rate = 24 Hz USB STREAM: 1080/59.94p, 720/59.94p, 640 x 480/59.94p *1, 1080/60p, 720/60p, 640 x 480/60p *2, 1080/29.97p, 720/29.97p, 640 x 480/29.97p *3, 1080/30p, 720/30p, 640 x 480/30p *4, 1080/50p, 720/50p, 640 x 480/50p *5, 1080/25p, 720/25p, 640 x 480/25p *6, 1080/23.98p, 720/23.98p, 640 x 480/23.98p *7, 1080/24p, 720/24p, 640 x 480/24p *8 *Uncompressed format (YUY2) and Compressed format (Motion JPEG) supported. * 1 Frame Rate(USB Out) = 59.94 Hz *2 Frame Rate(USB Out) = 60 Hz *3 Frame Rate(USB Out) = 29.97 Hz *4 Frame Rate(USB Out) = 30 Hz *5 Frame Rate(USB Out) = 50 Hz *6 Frame Rate(USB Out) = 25 Hz *7 Frame Rate(USB Out) = 23.98 Hz *8 Frame Rate(USB Out) = 24 Hz
Stream and Record formats	720/59.94p *1, *3, 720/60p *1, *4, 720/29.97p *1, *5, 720/30p *1, *6, 720/50p *1, *7, 720/25p *1, *8, 1080/59.94p *2, *3, 1080/60p *2, *4, 1080/29.97p *2, *5, 1080/30p *2, *6, 1080/50p *2, *7, 1080/25p *2, *8, 1080/23.98p *2, *9, 1080/24p *2, *10 *1 Output Format = 720p *2 Output Format = 1080p *3 Frame Rate (Stream/Record) = 59.94 Hz *4 Frame Rate (Stream/Record) = 60 Hz *5 Frame Rate (Stream/Record) = 29.97 Hz *6 Frame Rate (Stream/Record) = 30 Hz *7 Frame Rate (Stream/Record) = 50 Hz *8 Frame Rate (Stream/Record) = 25 Hz *9 Frame Rate (Stream/Record) = 23.98 Hz *10 Frame Rate (Stream/Record) = 24 Hz File Format: MP4 Codec: H.264, target bitrate up to 20,000 kbps, AAC-LC, 16 bits, 48 kHz, stereo, target bitrate up to 384 kbps, File Format: WAV Codec: Linear PCM, 16 bits, 48 kHz, stereo * If either the streaming and recording format or the file played by the video player exceeds 1080/30p, the streaming and recording and video player functions cannot be used simultaneously. * If the bitrate setting for Streaming and Recording and the bitrate of the file played on Video Player exceeds 20,000 kbps, Streaming and Recording and Video player cannot be used simultaneously.
Video Player	File Format: MP4 Codec: H.264, Average bit rate of 20,000 kbps or less, Maximum 1080/60p AAC-LC, 16 bits, 48 kHz, stereo * If either the streaming and recording format or the file played by the video player exceeds 1080/30p, the streaming and recording and video player functions cannot be used simultaneously. * If the bitrate setting for Streaming and Recording and the bitrate of the file played on Video Player exceeds 20,000 kbps, Streaming and Recording and Video player cannot be used simultaneously.
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 JPEG File (.jpg, .jpeg) Maximum 1920 x 1080 pixels, 24-bit color * It can be stored up to 16 files in the internal memory. * It can be exported in the SD Card and USB flash drive. * PNG alpha channel supported.
Video Effects	Transition: Cut, Mix (Dissolve/Fam/Nam), WIPE (8 types), SPLIT (2 types) Composition: PinP x 4 (Square, Circle, Diamond), Keyer x 4 (Luminance Key, Chroma Key), DSK x 2 (Luminance Key, Chroma Key, Alpha Key, External Key) Others: Multi-View (3 types), Flip horizontal, Flip vertical, Still Image capture, Still Image playback, Output fade (Audio, Video: White or Black), Test pattern output, Stream Delay

AUDIO INPUT/OUTPUT CHARACTERISTICS	
Input Level	AUDIO IN 1--6: -64--+4 dBu (Maximum: +24 dBu), AUDIO IN 7/L, 8/R: -10 dBu (Maximum: +10 dBu), AUDIO IN 9/L, 10/R: -10 dBu (Maximum: +10 dBu)
Input Impedance	AUDIO IN 1--6: 30 k ohms, AUDIO IN 7/L, 8/R: 7 k ohms AUDIO IN 9/L, 10/R: 7 k ohms
Output Level	AUDIO OUT 1 (XLR): +4 dBu (Maximum: +24 dBu), AUDIO OUT 2 (XLR): +4 dBu (Maximum: +24 dBu), AUDIO OUT 3 (RCA): -10 dBu (Maximum: +10 dBu) PHONES: 92 mW + 92 mW (32 ohms)
Output Impedance	AUDIO OUT 1 (XLR): 600 ohms, AUDIO OUT 2 (XLR): 600 ohms AUDIO OUT 3 (RCA): 1 k ohm, PHONES: 56 ohms
Residual Noise Level (IHF-A, typ.)	-92 dBu (All faders: Min), -89 dBu ((MAIN) Fader: Unity, Input faders: Unity only one AUDIO IN 1 Connector, Analog gain: Min), -62 dBu ((MAIN) Fader: Unity, Input faders: Unity only one AUDIO IN 1 Connector, Analog gain: Max) * Input 150 ohms terminate * Output Connector: AUDIO OUT 1--2 (XLR) -101 dBu (All faders: Min), -100 dBu ((MAIN) Fader: Unity, Input faders: Unity only one AUDIO IN 1 jack, Analog gain: Min) -75 dBu ((MAIN) Fader: Unity, Input faders: Unity only one AUDIO IN 1 jack, Analog gain: Max) * Input 150 ohms terminate * Output Connector: AUDIO OUT 3 (RCA)
COMMON SECTION	
Recording Media	SDHC/SDXC card (commercially available), USB Memory (commercially available) * SDXC card is required for video recording.
Other Functions	Scene Memory (32 types), Macro Control (100 types), Sequencer Control (1,000 steps), Sequencer Control, Panel Lock function, EDID Emulator Auto Switching, Auto Input Detect, Smart Tally, Remote Camera Control (Up to 12 units), External Rec Control, Menu language (English, Japanese, Simplified chinese)
CONNECTORS	
Video Input Connectors	HDMI IN 1--6: HDMI type A x 6 * HDCP Supported * Multi-format Supported, SDI IN 1--6: BNC type x 6 * Conforms to SMPTE 424M (SMPTE 425M-AB), 292M
Video Output Connectors	HDMI OUT 1--3: HDMI type A x 3 * HDCP Supported SDI OUT 1--3: BNC type x 3 * Conforms to SMPTE 424M (SMPTE 425M-AB), 292M USB STREAM: USB Type-C (R)
Audio Input Connectors	Analog: AUDIO IN 1--6: Combo type (XLR, 1/4-inch TRS phone), phantom power DC 48 V (unloaded maximum), 14 mA (maximum load) AUDIO IN 7/L, 8/R: RCA phono type, AUDIO IN 9/L, 10/R: RCA phono type Digital: USB STREAM: USB Type-C (R), Bluetooth, HDMI IN 1--6: HDMI type A x 6, SDI IN 1--6: BNC type x 6
Audio Output Connectors	Analog: AUDIO OUT 1: XLR type, AUDIO OUT 2: XLR type AUDIO OUT 3: RCA phono type, PHONES: Stereo 1/4-inch phono type, Stereo miniature phono type Digital: USB STREAM: USB Type-C (R), HDMI OUT 1--3: HDMI type A x 3 SDI OUT 1--3: BNC type x 3
Other Connectors	USB HOST: USB A type (for USB flash drive, for remote control from USB numeric keypad) USB STREAM: USB Type-C (R) (for remote control from PC and iPad) Bluetooth: for remote control from iPad CTL/EXP 1, 2: 1/4-inch TRS phone type (for remote control from foot switch and expression pedal) TALLY/GPIO: DB-25 type (Female)(Tally/GPIO: 16, GPI: 8) RS-232: DB-9 type (Male) (for Remote Control) DIRECT STREAM: RJ45, 1000BASE-T (for Live Streaming and Remote Control) Reference IN/THRU: BNC type * Black Burst (Sync to frames), Bi-Level, Tri-Level
OTHERS	
Bluetooth	Ver 5.0 Profile Support: A2DP (Audio), GATT (MIDI over Bluetooth Low Energy) Codec: SBC (Support to the content protection of the SCMS-T method)
Display	Graphic Type, 7", Wide VGA (800 x 480 dots), backlite LCD (Color/Touch screen)
Current Draw	3.0 A
Power Supply	AC Adaptor
Power Consumption	69 W
Operation Temperature	+0 to +40 degrees Celsius +32 to +104 degrees Fahrenheit
Dimensions	437 (W) x 304 (D) x 109 (H) mm, 17-1/4 (W) x 12 (D) x 4-5/16 (H) inches 482 (W) x 304 (D) x 109 (H) mm, 19 (W) x 10 (D) x 4-1/16 (H) inches * When rack mount angles are fitted:
Weight (excl. AC adaptor)	5.3 kg, 11 lbs 11 oz
Accessories	Startup Guide, Leaflet "USING THE UNIT SAFELY", AC adaptor Power cord, Rack-mount angle x 2, Rack-mount angle mounting screw x 6
Options (sold separately)	Footswitch: BOSS FS-5U, FS-6, FS-7 Expression Pedal: EV-5, EV-30, BOSS FV-500L, FV-500H

* 0 dBu = 0.775 Vrms
* This product is a Class A digital device under FCC part 15.
All specifications and appearances are subject to change.



▼ P60



▼ P58

Portable all-in-one hub for business livestreaming

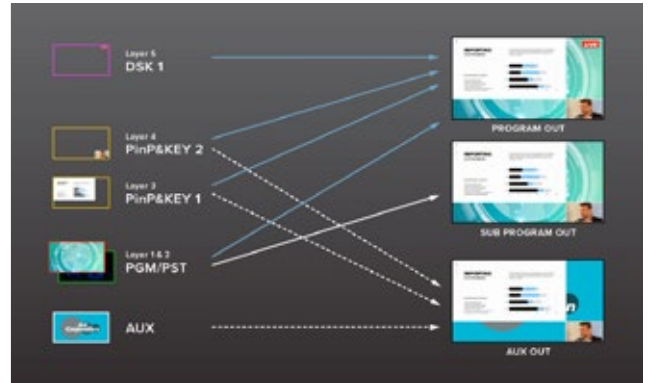
- Ultra-compact audio/video mixer with direct streaming encoders
- Powerful live production automation with sequencing, macros, and scene memories
- Built-in streaming encoders for transmitting two livestreams at rates up to 1080p/60 FPS
- Record streams directly to an SDXC card for archiving, editing, and distribution
- Six 1080p HDMI inputs with frame rate converters and real-time scalars
- Support for cinema and broadcast frame rates
- Five-layer video effects engine
- Five total outputs: three HDMI, USB-C streaming, and a dedicated direct streaming output
- Six selectable output modes: Program, Sub-Program, Aux, Preview, Multi-View, and Still-View
- 28-channel digital audio mixer with advanced effects and processing
- 16-slot still store function supports screen capture or uploaded BMP, JPEG, and PNG images via alpha channel in the internal non-volatile memory
- Enhance your livestreams with sound effects, still images, and video sources stored on an SDXC card
- Audio Player function with six trigger pads and onboard storage for 12 audio files
- Control six PTZ cameras
- 4.3-inch touch screen with graphical menu
- Extensive device control with Bluetooth®, USB, RS-232, Numeric Keypad and LAN
- Graphics Presenter support – this free, easy-to-use software for Windows computers **Ver.2.0**
- New Chroma Key Engine – upgraded keyer algorithms allow for more precise composition in real time **Ver.2.0**
- SRT Input and Output – enables secure video and audio transmission over LAN/internet connections **Ver.2.0**
- iPad video monitoring and switching **Ver.2.0**

Ultra-compact and filled with innovative Roland AV technologies, the VR-6HD is the ultimate all-in-one solution for everyday business livestreaming events. Offering advanced features and versatile connectivity in a portable, go-everywhere format, the VR-6HD is ideal for corporate meetings, online sales presentations, worship services, and other professional streaming and video capture applications.



Powerful mixing tools

Set up direct control for your most important sound feeds with seven assignable faders. And when you have multiple presenters to deal with, engage Auto Mixing to lighten your load and ensure that the mix between microphones remains balanced. You can set specific inputs to take priority when someone starts to speak, and other audio levels are automatically reduced as needed.



Layers and keys

Video effects and graphics are must-haves to bring polish and excitement to productions. The VR-6HD's effects engine features five composition layers that can be assigned to the Program, Sub-Program, and Aux outs, so you'll always keep audiences engaged. With up to two picture-in-picture windows and one downstream key layer with transparent PNG and external key support, you can manage any creative need.

Integrated playback of stills and video clips

Enhance events with onboard support for graphics and video playback. Call up still images during transitions between presenters, display graphics, and use PNGs to create dynamic lower thirds. The integrated video player lets you trigger video clips directly from the SDXC card, with no need to connect an external playback device.

SDXC card recording

With the onboard recorder, you can easily record an event to an SDXC card and provide your client with an H.264 MP4 video file* for their editing and distribution needs. Stereo WAV audio can also be recorded independently for podcasts and other audio-driven media. It's even possible to capture still images to internal memory from any video output bus and save them to the card for later use.

*The recording bitrate is the same as the livestream encoding bitrate.



MULTI-CHANNEL AUDIO INPUTS AND BLUETOOTH

The VR-6HD offers professional analog audio connectivity with six balanced XLR/TRS combination jacks, high-quality mic preamps, and phantom power. Stereo RCA inputs are available for audio players, electronic instruments, and other line-level devices, and you can mix the embedded digital audio from sources connected to the HDMI and USB inputs. And with onboard Bluetooth, it's easy to stream wireless audio from any mobile device.



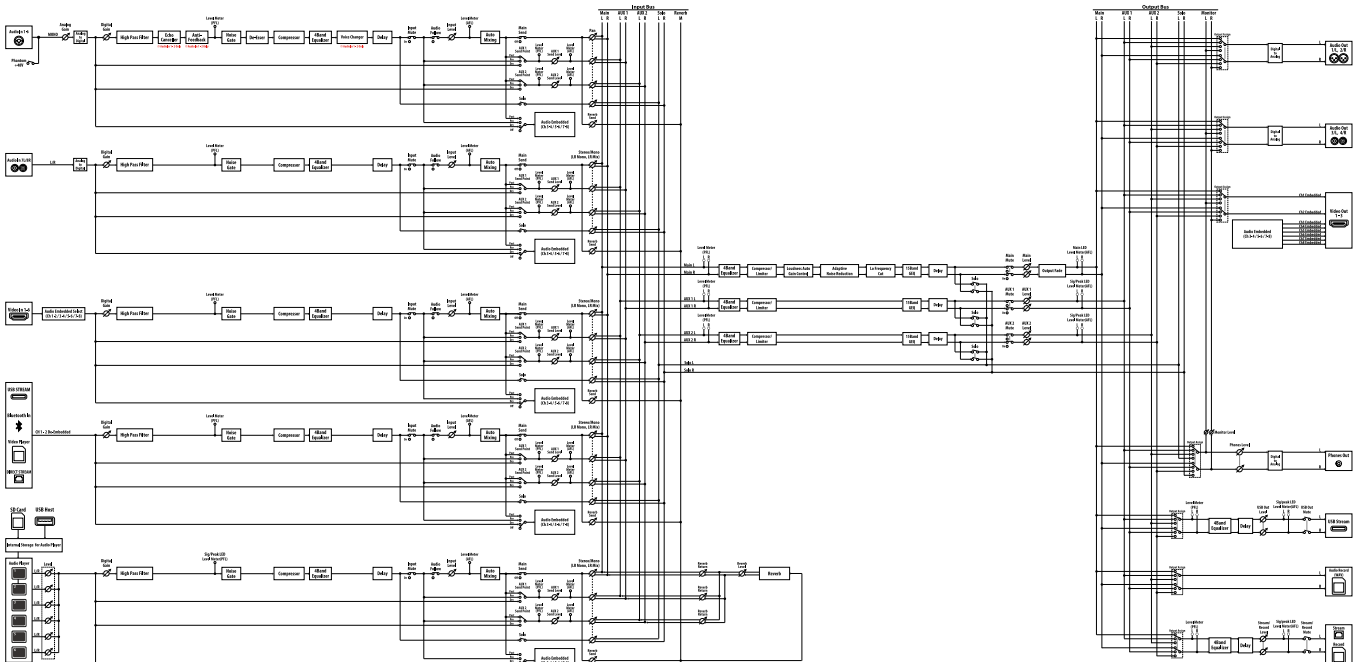
Sequencing magic / automated switching and mixing

The VR-6HD's sequencer makes scene memories and macros even more powerful, letting you perform perfectly timed cues with ease. Up to 1000 steps can be recorded in the sequencer, and each step can include both presets and macros. Set up your cues ahead of time in the sequence list and trigger them in order for a stress-free production.

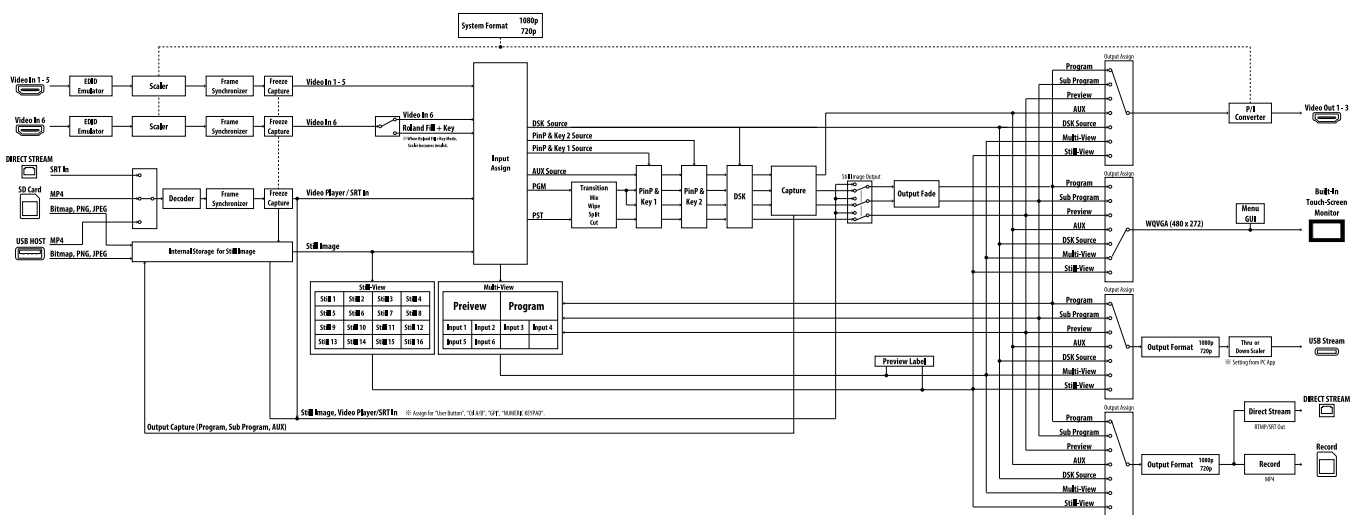
When there are many presenters, you need to follow the action and switch audio and video together. The automated video switching and audio mixing features in the VR-6HD make this complicated task simple, greatly easing your workload and creating a smooth experience for the audience.

Shape your sound

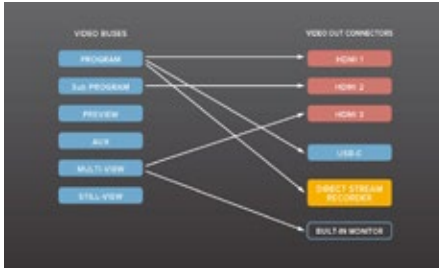
The VR-6HD combines the full power of the latest digital audio consoles with expansive Roland effects. Four-band EQs and dynamics processing are provided for every input and output, and high-quality reverb is available for music applications and special effects. You also get specialized tools to quickly handle audio issues, like automatic anti-feedback for stage mics and adaptive noise reduction to suppress background noise and hum.



AUDIO BLOCK DIAGRAM



VIDEO BLOCK DIAGRAM



Assignable video outputs

The VR-6HD puts a high-end video matrix at your fingers with three HDMI outputs, a USB-C streaming output, and an ethernet streaming output. Feed program displays, auxiliary monitors, multi-view producer displays, and the online audiences at once, complete with a clean output left over for recording the presentation to an SDXC card.

SPECIFICATIONS VR-6HD

VIDEO	
Video Processing	4:2:2 (Y/Pb/Pr), 8-bit
Video Channels	6 channels
Video Input Formats	VIDEO IN 1--6 480/59.94i, 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 x 480/60 Hz), SVGA (800 x 600/60 Hz), XGA (1024 x 768/60 Hz) WXGA (1280 x 800/60 Hz), SXGA (1280 x 1024/60 Hz) FWXGA (1366 x 768/60 Hz), SXGA+ (1400 x 1050/60 Hz) UXGA (1600 x 1200/60 Hz), WUXGA (1920 x 1200/60 Hz) * 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, 60 Hz *2 Frame Rate = 50 Hz
Video Output Formats	VIDEO OUT 1--3: 720/59.94p *1, *4, 720/60p *1, *5, 720/50p *1, *8, 1080/59.94i *2, *4, 1080/60i *2, *5, 1080/50i *2, *8, 1080/59.94p *3, *4, 1080/60p *3, *5, 1080/29.97p *3, *6, 1080/30p *3, *7, 1080/50p *3, *8, 1080/25p *3, *9, 1080/23.98p *3, *10, 1080/24p *3, *11 *1 Output Format = 720p *2 Output Format = 1080i *3 Output Format = 1080p *4 Frame Rate = 59.94 Hz *5 Frame Rate = 60 Hz *6 Frame Rate = 29.97 Hz *7 Frame Rate = 30 Hz *8 Frame Rate = 50 Hz *9 Frame Rate = 25 Hz *10 Frame Rate = 23.98 Hz *11 Frame Rate = 24 Hz USB STREAM: 1080/59.94p, 720/59.94p, 640 x 480/59.94p *1 1080/60p, 720/60p, 640 x 480/60p *2 1080/29.97p, 720/29.97p, 640 x 480/29.97p *3 1080/30p, 720/30p, 640 x 480/30p *4 1080/50p, 720/50p, 640 x 480/50p *5 1080/25p, 720/25p 640 x 480/25p *6 1080/23.98p, 720/23.98p 640 x 480/23.98p *7 1080/24p, 720/24p 640 x 480/24p *8 * Uncompressed format (UYUY2) and Compressed format (Motion JPEG) supported. *1 Frame Rate(USB Out) = 59.94 Hz *2 Frame Rate(USB Out) = 60 Hz *3 Frame Rate(USB Out) = 29.97 Hz *4 Frame Rate(USB Out) = 30 Hz *5 Frame Rate(USB Out) = 50 Hz *6 Frame Rate(USB Out) = 25 Hz *7 Frame Rate(USB Out) = 23.98 Hz *8 Frame Rate(USB Out) = 24 Hz
Stream and Record formats	720/59.94p *1, *3, 720/60p *1, *4, 720/29.97p *1, *5, 720/30p *1, *6, 720/50p *1, *7, 720/25p *1, *8, 1080/59.94p *2, *3, 1080/60p *2, *4, 1080/29.97p *2, *5, 1080/30p *2, *6, 1080/50p *2, *7, 1080/25p *2, *8, 1080/23.98p *2, *9, 1080/24p *2, *10 *1 Output Format = 720p *2 Output Format = 1080p *3 Frame Rate (Stream/Record) = 59.94 Hz *4 Frame Rate (Stream/Record) = 60 Hz *5 Frame Rate (Stream/Record) = 29.97 Hz *6 Frame Rate (Stream/Record) = 30 Hz *7 Frame Rate (Stream/Record) = 50 Hz *8 Frame Rate (Stream/Record) = 25 Hz *9 Frame Rate (Stream/Record) = 23.98 Hz *10 Frame Rate (Stream/Record) = 24 Hz File Format: MP4 Codec: H.264, target bitrate up to 20,000 kbps AAC LC, 16 bits, 48 kHz, stereo, target bitrate up to 384 kbps File Format: WAV Codec: Linear PCM, 16 bits, 48 kHz, stereo * If either the streaming and recording format or the file played by the video player exceeds 1080/30p, the streaming and recording and video player functions cannot be used simultaneously. * If the bitrate setting for Streaming and Recording and the bitrate of the file played on Video Player exceeds 20,000 kbps, Streaming and Recording and Video player cannot be used simultaneously.
Video Player	File Format: MP4 (H.264, AAC), Average bit rate of 20,000 kbps or less, Maximum 1080/60p * If either the streaming and recording format or the file played by the video player exceeds 1080/30p, the streaming and recording and video player functions cannot be used simultaneously. * If the bitrate setting for Streaming and Recording and the bitrate of the file played on Video Player exceeds 20,000 kbps, Streaming and Recording and Video player cannot be used simultaneously.
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 JPEG File (.jpg, .jpeg) Maximum 1920 x 1080 pixels, 24-bit color * It can be stored up to 16 files in the internal memory. * It can be exported in the SD Card and USB flash drive. * PNG alpha channel supported.
Video Effects	Transition: Cut, Mix (Dissolve/Fam/Nam), WIPE (8 types), SPLIT (2 types) Composition: PinP x 2 (Square, Circle, Diamond), Keyer x 2 (Luminance Key, Chroma Key), DSK (Luminance Key, Chroma Key, Alpha Key, External Key) Others: Multi-View (3 types), Flip horizontal, Flip vertical, Still Image capture, Still Image playback, Output fade (Audio, Video: White or Black), Test pattern output, Stream Delay
COMMON SECTION	
Recording Media	SDHC/SDXC card (sold separately), USB Memory (sold separately) * SDXC card is required for video recording
Other Functions	Scene Memory (32 types), Macro Control (100 types), Sequencer Control (1000 types), Panel lock function, EDID Emulator, Auto Switching, Auto Input Detect, Smart Tally, Remote Camera Control (Up to 6 units), External Rec Control

AUDIO	
Audio Processing	Sample rate: 24 bits, 48 kHz
Number of Audio Channels	28 channels
Audio Formats	USB STREAM (input/output): Linear PCM, 24 bits, 48 kHz, 2 ch Bluetooth (input): Linear PCM, 24 bits, 48 kHz, 2 ch VIDEO IN: Linear PCM, 24 bits, 48 kHz, 2 ch VIDEO OUT: Linear PCM, 24 bits, 48 kHz, 8 ch
Audio Player	File format: WAV (Linear PCM, 16 bits, 48 kHz/44.1 kHz, stereo) * It can be stored up to 16 tracks in the internal memory.
Audio Effects	Channel Effects: High pass filter, Echo canceller, Anti-feedback, Noise gate, De-esser, Compressor, 4-Band equalizer, Voice changer, Delay, Auto mixing Master Effects: Reverb, 4-Band equalizer, Compressor/Limiter, Loudness Auto Gain Control, Adaptive Noise Reduction, Low Frequency Cut, 15-Band GEQ, Delay Others: Output fade, Test tone output

AUDIO INPUT/OUTPUT CHARACTERISTICS	
Input Level	AUDIO IN 1--6: -6~-+4 dBu (Maximum: +24 dBu) AUDIO IN 7/L, 8/R: -10 dBu (Maximum: +10 dBu)
Input Impedance	AUDIO IN 1--6: 8.4 k ohms AUDIO IN 7/L, 8/R: 10 k ohms
Output Level	AUDIO OUT 1/L, 2/R (XLR): +4 dBu (Maximum: +24 dBu) AUDIO OUT 3/L, 4/R (RCA): -10 dBu (Maximum: +10 dBu) PHONES: 92 mW + 92 mW (32 ohms)
Output Impedance	AUDIO OUT 1/L, 2/R (XLR): 600 ohms, AUDIO OUT 3/L, 4/R (RCA): 1 k ohm PHONES: 33 ohms

CONNECTORS	
Video Input Connectors	VIDEO IN 1--6: HDMI type A x 6 * HDCP Supported * Multi-format Supported
Video Output Connectors	VIDEO OUT 1--3: HDMI type A x 3 * HDCP Supported USB STREAM: USB Type-C (TM)
Audio Input Connectors	Analog: AUDIO IN 1--6: Combo type (XLR, 1/4-inch TRS phone), phantom power DC 48 V (unloaded maximum), 14 mA (maximum load) AUDIO IN 7/L, 8/R: RCA phono type Digital: USB STREAM: USB Type-C (TM), Bluetooth VIDEO IN 1--6: HDMI type A x 6
Audio Output Connectors	Analog: AUDIO OUT 1/L, 2/R: XLR type, AUDIO OUT 3/L, 4/R: RCA phono type, PHONES: Stereo miniature phone type Digital: USB STREAM: USB Type-C (TM), VIDEO OUT 1--3: HDMI type A x 3
Other Connectors	USB HOST: USB A type (for USB flash drive) USB STREAM: USB Type-C (TM) (for remote control from PC and iPad) Bluetooth: for remote control from iPad CTL/EXP 1, 2: 1/4-inch TRS phone type (for remote control from foot switch and expression pedal) TALLY/GPIO: DB-25 type (Female)/Tally/GPO: 16, GPI: 8 RS-232: DB-9 type (Male) (for Remote Control) DIRECT STREAM: RJ45, 1000BASE-TX (for Live Streaming and Remote Control)

OTHERS	
Bluetooth	Ver 5.0 Profile Support: A2DP (Audio), GATT (MIDI over Bluetooth Low Energy) Codec: SBC (Support to the content protection of the SCMS-T method)
Display	Graphic Type, 4.3", Wide QVGA (480 x 272 dots), backlite LCD (Color/Touch screen)
Current Draw	2.3 A
Power Supply	AC Adaptor
Power Consumption	55 W
Operation Temperature	+0 to +40 degrees Celsius +32 to +104 degrees Fahrenheit
Dimensions	370 (W) x 242 (D) x 100 (H) mm 14-5/8 (W) x 9-9/16 (D) x 3-15/16 (H) inches
Weight (excl. AC adaptor)	3.4 kg, 7 lbs 8 oz
Accessories	Startup Guide, Leaflet "USING THE UNIT SAFELY", AC adaptor Power cord
Options (sold separately)	Footswitch: BOSS FS-5U, FS-6, FS-7 Expression Pedal: EV-5, EV-30, BOSS FV-500L, FV-500H

* 0 dBu = 0.775 Vrms
 * This product is a Class A digital device under FCC part 15.
 All specifications and appearances are subject to change.



VR-1HD makes it easier than ever to broadcast live

- Three HDMI inputs that accept HD and computer video resolutions
- Two-studio quality XLR microphone inputs and line input
- Mic input for a goose neck microphone making it easy for hands-free and headset-free performances
- Scene switching functionality, with five pre-set scenes that can be included in any live stream
- Audio Effects functionality allows sound effects, jingles and theme songs in videos/performances
- Auto Switching modes make it easy to put on a one-person show
- Functions as its own audio engineer with automatic mixing functions and built in “equalizers”, “gates” and “compressors” to balance out changes in volume when speaking or singing to ensure professional sound performance
- Voice Changer effect from Roland’s VT series of Voice Transformers can instantly transform any performer’s sound
- Stream performances and presentations easily through a computer’s USB 3.0 ports



Real engagement in real time

If you're a content creator seeking maximum engagement, livestreaming outperforms uploaded video by a significant margin; audiences are larger, watch for longer and post more comments. Roland's VR-1HD lets you broadcast dynamic multi-camera livestreams, complete with amazing picture and sound that easily outshines 'standard' livestreams from a mobile phone or static webcam. Whether you're a creator, gamer, commentator or presenter, it's the easy way to livestream with high production standards. And since you're going to get more comments, ensure they're good ones with the VR-1HD.



Your 'plug and play' broadcast studio

The VR-1HD has three "worry-free" HDMI inputs, and each one accepts a variety of HD and computer-based video resolutions. This lets you connect, switch and stream different sources including cameras, presentations, gameplay and even smartphones and tablets without having to think about it. The audio from these sources can be blended with the two studio-quality XLR microphone inputs and dedicated line input. Best of all, as the VR-1HD is designed for live broadcasting, its dedicated controls and top-mounted mic input (with gooseneck mic) let you go hands-free and headset-free while livestreaming.



Switch to superior livestreams

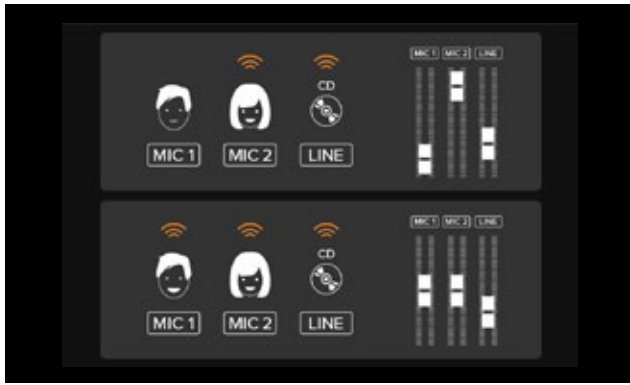
When preparing a video for uploading, your editing software can add some impressive layering options, including professional transitions that make 'live-switched' videos look boring by comparison. The VR-1HD has built-in Scene Switching to instantly jump between scenes that contain preset arrangements of layered sources, displayed within customizable inset windows. Set-up the scenes in advance and recall them via the five scene preset buttons, to make your livestreaming way more interesting.



Stand out from the crowd

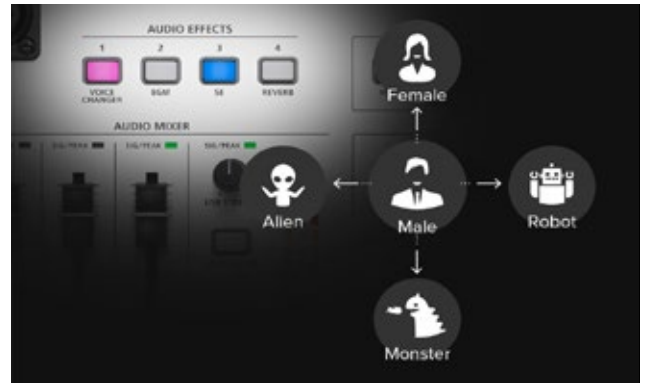
Chroma keying and green screens place a subject in front of a background that isn't really there and is a high-end visual effect found in movies and used by weather people. Stand out from the crowd of live streamers to broadcast live from the beach or another planet or use chroma key technology to teach and promote your products all from the comfort of your home.





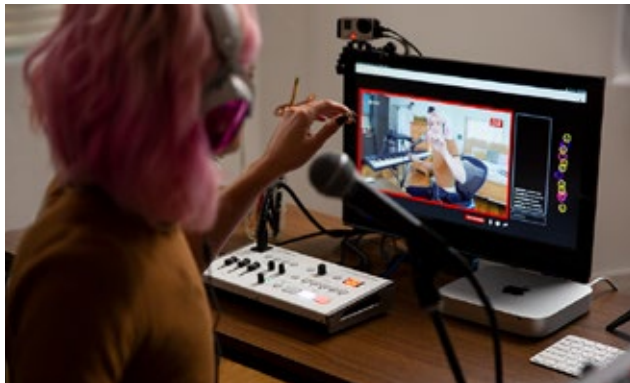
Audio engineer inside too

Put audio on auto-pilot and relax, thanks to the VR-1HD's Auto Mixing function. Just like having a sound engineer, you can ensure that different audio inputs aren't competing, while also checking that the sound remains balanced. You can even set certain inputs to take priority so when the host starts to speak, the other audio levels are automatically reduced. Audio from your input sources can automatically change when you switch video sources, by engaging the Audio Follows Video function.



Radically transform your voice

Derived from Roland's VT series, the VR-1HD's Voice Changer effect can be applied to the mic inputs, and each input even has its own Voice Changer settings, so people can sound like someone else — or something else — entirely... male can sound like a female, a female can sound like a male, and anyone can sound like a robot, a monster or an alien.



Connect to your computer, connect to your audience

The VR-1HD uses the same connection technology as webcams, so just hook up to your computer via USB 3.0 and fire up the live casting or recording software. Then jump straight into a professionally produced, Full HD broadcast on your favorite platform, including Twitch, YouTube or FB Live.



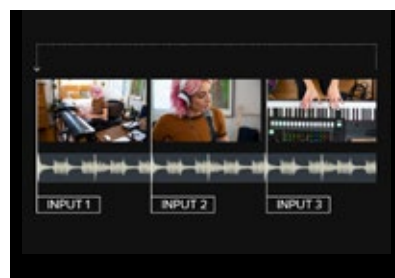
RCS

The VR-1HD RCS software is designed to control the VR-1HD using a computer. By connecting the VR-1HD to your computer via USB, you will be able to copy settings (backup) or update the system software of the VR-1HD in addition to remote controlling the unit from your computer.



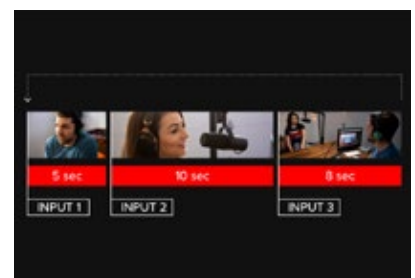
Video follows audio

The VR-1HD switches cameras based on who's speaking into their microphone. If both people talk at once, or if no one is speaking, the VR-1HD can switch to a wide shot showing both presenters.



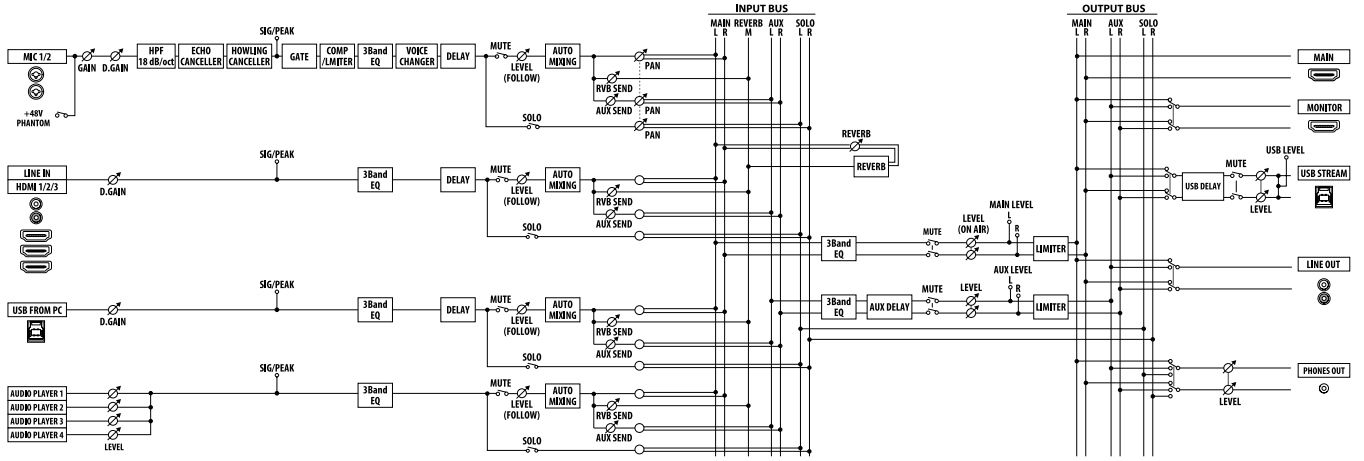
Beat sync switching

Start playing music and the VR-1HD will switch to different camera inputs based on your playing tempo or the music in your DJ performance—letting you act as your own VJ.

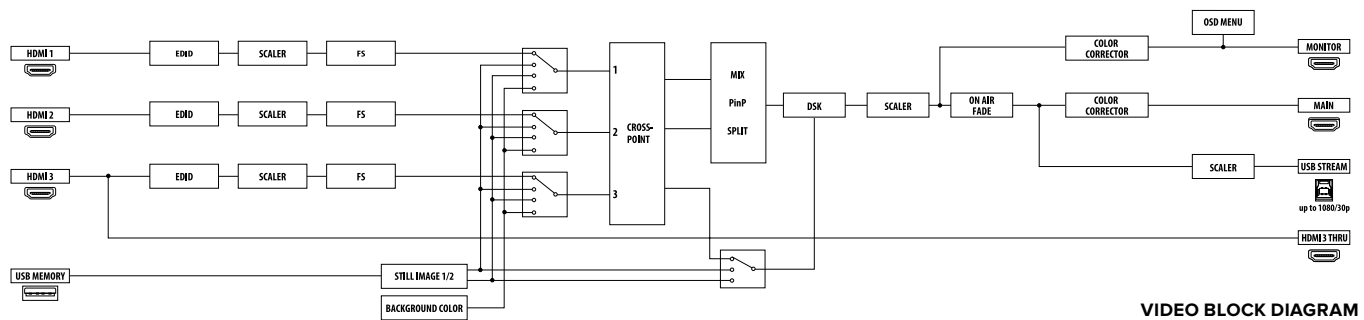


Auto scan

For extended live streams with no operator, set the VR-1HD to switch between sources in a pre-defined order, or randomly, at your chosen rate of time.



AUDIO BLOCK DIAGRAM



VIDEO BLOCK DIAGRAM

SPECIFICATIONS VR-1HD

VIDEO	
Processing	4:4:4 (Y/Pb/Pr), 10-bit
Input Connectors	VIDEO INPUT 1--3 connectors: HDMI type A x 3 * HDCP Supported. * Multi-format Supported
Output Connectors	MAIN connector: HDMI type A * HDCP Supported MONITOR connector: HDMI type A * HDCP Supported THRU connector: HDMI type A * HDCP Supported USB STREAM port: USB B type
Input formats	480/59.94i, 576/50i, 480/59.94p, 576/50p, 720/59.94p, 720/50p, 1080/59.94i, 1080/50i, 1080/59.94p, 1080/50p, VGA (640 x 480/60 Hz), SVGA (800 x 600/60 Hz), XGA (1024 x 768/60 Hz), HD (1280 x 720/60 Hz), WXGA (1280 x 800/60 Hz), SXGA (1280 x 1024/60 Hz), FWXGA (1366 x 768/60 Hz), SXGA+ (1400 x 1050/60 Hz), UXGA (1600 x 1200/60 Hz), FHD (1920 x 1080/60 Hz), WUXGA (1920 x 1200/60 Hz) * The refresh rate is the maximum value of each resolution * Conforms to VESA DMT Version 1.0 Revision 11 * 1920 x 1200, 60 Hz: Reduced blanking * The video signal frame rate can be selected at the SYSTEM menu (59.94 Hz or 50 Hz)
Output formats	MAIN, MONITOR connectors: 720/59.94p, 720/50p, 1080/59.94i, 1080/50i, 1080/59.94p, 1080/50p, XGA (1024 x 768/60 Hz) (*1), WXGA (1280 x 800/60 Hz) (*1), SXGA (1280 x 1024/60 Hz) (*1), FWXGA (1366 x 768/60 Hz) (*1), SXGA+ (1400 x 1050/60 Hz) (*1), UXGA (1600 x 1200/60 Hz) (*1), FHD (1920 x 1080/60 Hz), WUXGA (1920 x 1200/60 Hz) * The video signal frame rate can be selected at the SYSTEM menu (59.94 or 50). (*1) Output refresh rate is 75 Hz when frame rate is set to 50 Hz.
Still Image	USB STREAM port: 854 x 480/29.97p, 854 x 480/25p, 854 x 480/59.94p, 854 x 480/50p, 720/29.97p, 720/25p, 720/59.94p, 720/50p, 1080/29.97p, 1080/25p * The video signal frame rate can be selected at the SYSTEM menu (59.94 Hz or 50 Hz) Maximum Size: 1920 x 1200 pixels Format: Windows Bitmap File (.bmp) 24 bit per pixel, uncompressed * It can be loaded up to 2 files from USB memory at startup.
Video Effects	Scene: PinP, Split Transition: Black fade, Mix fade Key Composition: Luminance key Other: Still Image playback, Output fade (Audio, Video: WHITE or BLACK), Test pattern output

0 dBu=0.775 Vrms

AUDIO	
Audio Processing	Sample rate: 48 kHz, 24 bits
Audio formats	VIDEO INPUT 1--3 connectors: Linear PCM, 48 kHz, 24 bits, stereo USB STREAM port: Linear PCM, 48 kHz, 16 bits, stereo
Input Connectors	VIDEO INPUT 1--3 connectors: HDMI type A MIC IN 1--2 jacks: Combo type (XLR, 1/4-inch TRS phone), phantom power (DC 48 V, 10 mA Max) LINE IN jacks: RCA phono type USB STREAM port: USB B type
Output Connectors	MAIN connector: HDMI type A MONITOR connector: HDMI type A LINE OUT jacks: RCA phono type USB STREAM port: USB B type PHONES jack: Stereo miniature phone type
Nominal Input Level	MIC IN 1--2 jacks: -60--+4 dBu (Maximum input level: +28 dBu) LINE IN jacks: -10 dBu (Maximum input level: +8 dBu)
Input Impedance	MIC IN 1--2 jacks: Minimum 10 k ohms (balanced, HEAD AMP GAIN: 0--+17 dBu), Minimum 5 k ohms (balanced, HEAD AMP GAIN: +17--+64 dBu) LINE IN jacks: 15 k ohms
Nominal Output Level	LINE OUT jacks: -10 dBu (Maximum input level: +8 dBu) PHONES jack: 92 mW + 92 mW (32 ohms)
Output Impedance	LINE OUT jacks: 1 k ohms PHONES jack: 10 ohms
Audio Effects	Auto mixing, Echo canceller, Howling canceller, EQ, Delay, Compressor, HPF, Gate, Reverb, Limiter, Voice changer
Audio Player	Number of Players: 4 Data Format: WAV (Linear PCM, 48 kHz, 16 bits stereo)/44.1 kHz, 16 bits, stereo)

COMMON SECTION	
Connectors	USB MEMORY port (HOST): USB A type (For USB flash drive, Still image, Audio player) USB STREAM port (DEVICE): USB B type (For USB-VIDEO (USB 3.0), USB-AUDIO stereo (USB 2.0): 1IN/1 OUT, Remote control) DC IN jack
Functions	Scene memory : 5, Panel lock function, EDID emulator, Auto switching (Auto scan, Beat sync switching, Video follow audio)
Power Supply	AC Adaptor
Current Draw	2 A
Power Consumption	24 W
Operating Temp.	+0 to +40 degrees Celsius, +32 to +104 degrees Fahrenheit
Dimensions	314 (W) x 169 (D) x 66 (H) mm, 12-3/8 (W) x 6-11/16 (D) x 2-5/8 (H) inches
Weight	1.6 kg, 3 lbs 9 oz
Accessories	Startup Guide, Leaflet "USING THE UNIT SAFELY", AC adaptor, Power cord





















STREAMING SWITCHER COMPARISON CHART

Roland
Professional A/V



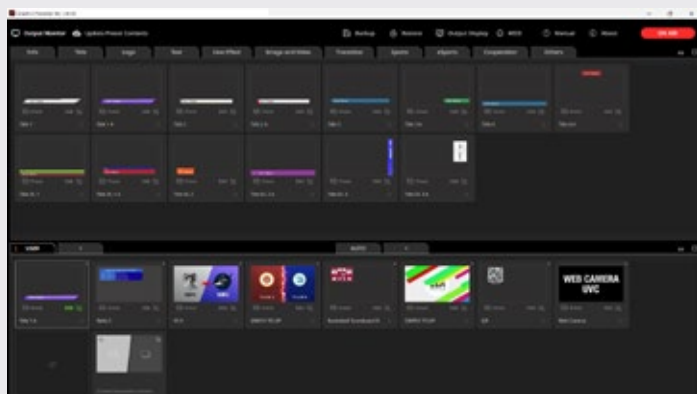
Model Name	VR-1HD	VR-6HD
Video Processing	1080/60p	1080/60p
HDMI Video Input	3 (3 x scalers)	6 (6 x scalers)
HDMI Video Output	3 (Main, Monitor) and Input 3 Loop	3
SDI Video Input	–	–
SDI Video Output	–	–
Stream/Record USB to Computer	USB-C Up to 1080/30p ✓	USB-C Up to 1080/60p ✓
Stream/Record Directly from LAN	–	✓
Record Internally to SD card	–	✓
Video Playback	–	✓
Scene Memory Presets	–	32 Memories, 100 Macros
Analog Audio Input	RCA stereo x 1, XLR / TRS x 2	RCA stereo x 1, XLR / TRS x 6
Analog Audio Output	RCA stereo x 1, Phones x 1	XLR stereo x 1, RCA stereo x 1 Phones x 1
Audio Mixer	20 channels	28 channels (Faders are assignable)
PIP	1 (variable zoom)	2 (variable zoom)
Key Layers	1 DSK (Luma, Chroma)	2 PIP (Luma, Chroma) 1 DSK (Luma, Chroma, Alpha)
Video Effects	✓	✓
Audio Effects	11 types	18 types
Audio Playback	✓	✓ (6 Pads)
Video/Audio AUX Bus	–	✓
Still image	✓ (2 Stills)	✓ (16 Stills)
Capture Image	–	✓
PTZ Camera Control	–	✓ (6 Cameras)
Remote Control	PC RCS (Win/Mac)	VenuSet (iPad/Win/Mac), iPad RCS, PC RCS (Win/Mac), LAN, RS-232
Footswitch Control	–	Single or Double x 2
Tally	–	25 Pin
Automation Tools	Audio Follows Video, Auto Mixing, Video Follows Audio	Audio Follows Video, Auto Mixing, Macros, Sequencer, Video Follows Audio
Graphic Presenter Support	–	✓
Venuset Support	–	✓

STREAMING SWITCHER COMPARISON CHART

		
Model Name	VR-120HD	VR-400UHD
Video Processing	1080/60p	2160/60p
HDMI Video Input	6 (6 x scalers)	4 (3 inputs + 1 inputs from 4 connectors, 6 x scalers)
HDMI Video Output	3	3
SDI Video Input	6	–
SDI Video Output	3	–
Stream/Record USB to Computer	USB-C  Up to 1080/60p	USB-C  (USB 3.2 GEN 2 10 Gbps) Up to 4K/30p
Stream/Record Directly from LAN		–
Record Internally to SD card		–
Video Playback		–
Scene Memory Presets	32 Memories, 100 Macros	64
Analog Audio Input	RCA stereo x 2, XLR / TRS x 6	RCA stereo x 2, XLR / TRS x 4, TRS x 2
Analog Audio Output	XLR stereo x 2, RCA stereo x 1, Phones x 2	XLR stereo x 1, RCA stereo x 1, Phones x 1
Audio Mixer	42 channels (Faders are assignable)	16 channels (5/6 are assignable)
PIP	4 (variable zoom)	2 (variable zoom)
Key Layers	4 PIP (Luma, Chroma) 2 DSK (Luma, Chroma, Alpha)	1 DSK (Luma, Chroma, Alpha*) 1 LOGO (Luma, Chroma, Alpha*) *Still image only
Video Effects		
Audio Effects	18 types	14 types
Audio Playback	 (8 Pads)	–
Video/Audio AUX Bus	 x 3	
Still image	 (16 Stills)	 (8 Stills)
Capture Image		
PTZ Camera Control	 (12 Cameras)	–
Remote Control	VenuSet (iPad/Win/Mac), iPad RCS, PC RCS (Win/Mac), LAN, RS-232	Web RCS, LAN, RS-232
Footswitch Control	Single or Double x 2	–
Tally	25 Pin	15 Pin
Automation Tools	Audio Follows Video, Auto Mixing, Macros, Sequencer, Video Follows Audio	Audio Follows Video, Auto Mixing, Video Follows Audio
Graphic Presenter Support		–
VenuSet Support		–

Graphics Presenter

TITLER AND MOTION GRAPHICS
SOFTWARE FOR LIVE PRODUCTION
VERSION 3



Stunning titles and motion graphics—instantly

Graphics Presenter is a professional title and motion graphics solution that's designed for use with select Roland video products. This free, easy-to-use software for Windows computers elevates your live productions with stunning graphics, eliminating the need for expensive third-party options. Simply call up one of the many included preset templates and customize it as needed. With Roland's unique technology, you can instantly send the fill and key signals directly to the hardware via a single HDMI cable. The version 3.0 or later supports 4K resolution.



Graphics Presenter presets are organized for fast navigation, letting you achieve professional results quickly and easily.

- Title
- Subtitle
- Stinger transition
- Sports scoring
- Esports titles
- Member lists
- Video, Audio, Still, MIDI playback
- QR generator
- Countdown timer

Compatible products



V-1-4K
Video Switcher



V-160HD
Streaming Video Switcher
Version 3.1 or later



V-80HD
Direct Streaming Video Switcher



V-8HD
HD Video Switcher
Version 3.0 or later



VR-120HD
Direct Streaming AV Mixer
Version 2.0 or later



VR-6HD
Direct Streaming AV Mixer
Version 2.0 or later



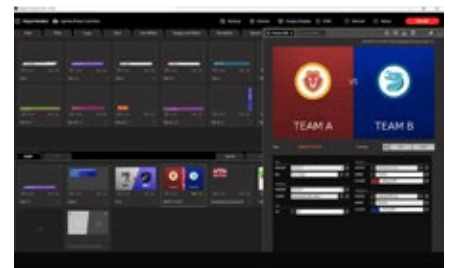
Free presets on Roland Cloud

Roland Cloud is our ever-expanding online hub with premium content for video creators, producers, and musicians. After installing the Graphics Presenter software on your computer, log on to Roland Cloud with your free Roland Account (required) and download a large selection of ready-to-edit templates. Over 100 templates are currently available, and more will be added regularly.

Deliver attractive productions with preset templates and all types of media

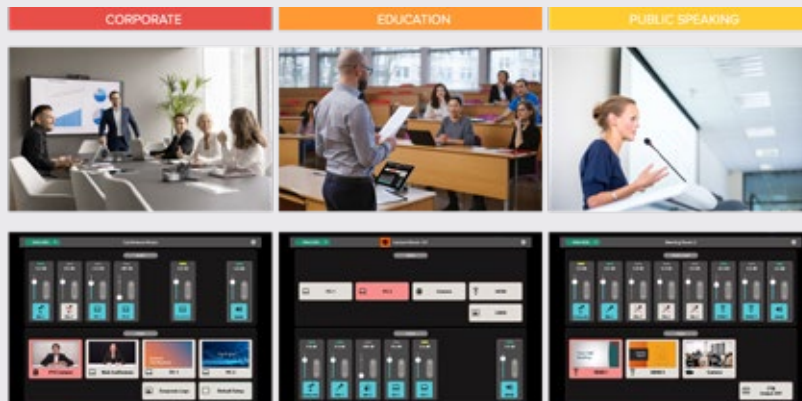
Graphics Presenter provides direct editing of the preset templates with zero rendering time, enabling you to change text, graphics, and more in real time during a live production. A variety of media types are supported, including video, still images, and audio files.

Images – JPEG, PNG (including alpha channel), GIF (including animation), BMP, TIFF
 Audio – MP3, WAV
 Video – MP4(H.264), WebM(alpha channel)



Fast and simple set up

Graphics Presenter works on any laptop or desktop computer running Windows 10 or 11. Fill and key data are sent to the Roland video product over a single HDMI cable. Adding a USB connection unlocks additional possibilities with MIDI control, allowing you to automate title and graphics changes in the software using the scene and macro functions on the hardware.



Easy AV Control for Any Operator

In today's interconnected world, professional audio and visual communication has become essential in venues where people gather. To meet this moment, AV systems must be simple for anyone to operate, including the most inexperienced users.

The VenuSet app addresses this need, offering a friendly, customizable solution that makes it easier to operate Roland video products. This configurable app allows system integrators to create unique panels with essential functions for different applications, enabling fluid remote control of video switching, audio levels, scene memories, Graphics Presenter software, GPO, and more. VenuSet is available for iPadOS, macOS, and Windows.





Custom Panels for Any Application

Different productions have different needs, and VenuSet lets you create focused control sets for every situation. By paring down controls to a small number of essential functions, even beginning users will have the confidence to manage everyday productions without stress.

- Corporate Events—Easily switch between speakers and adjust audio levels in conference rooms.
- Education Settings—Switch video sources in classrooms and stream regular school events.
- Public Speaking Venues—Enhance your venue’s appeal by providing an easy A/V control solution for users who rent the facility.

Cross-Platform Convenience

VenuSet is available for iPadOS, macOS, and Windows, and configuration data is compatible across all platforms for seamless approval, system integration, and training. Panels can be edited offline and easily backed up, allowing you to build a library of setups for different applications and share them with your team and clients via email, cloud storage, or text messages.



An Array of Controllable Functions

VenuSet offers a deep selection of assignable functions,* allowing you to develop custom layouts with essential controls for any application.

- Video Switching, Audio Volume, Audio Mute and Solo, Audio Processing: HPF, Noise Gate, Voice Changer, Reverb, Scene Memory Recall, Macros, Sequencer, Auto Switching, External Control: REC control, GPO, Camera Control, Stream and Record, Video Player, SRT In, Audio Player, Graphics Presenter

*Available functions vary depending on the connected Roland product.

Compatible products



V-1-4K
Video Switcher



V-160HD
Streaming Video Switcher
Version 3.1 or later



V-80HD
Direct Streaming Video Switcher



V-8HD
HD Video Switcher
Version 3.0 or later



VR-120HD
Direct Streaming AV Mixer
Version 2.0 or later



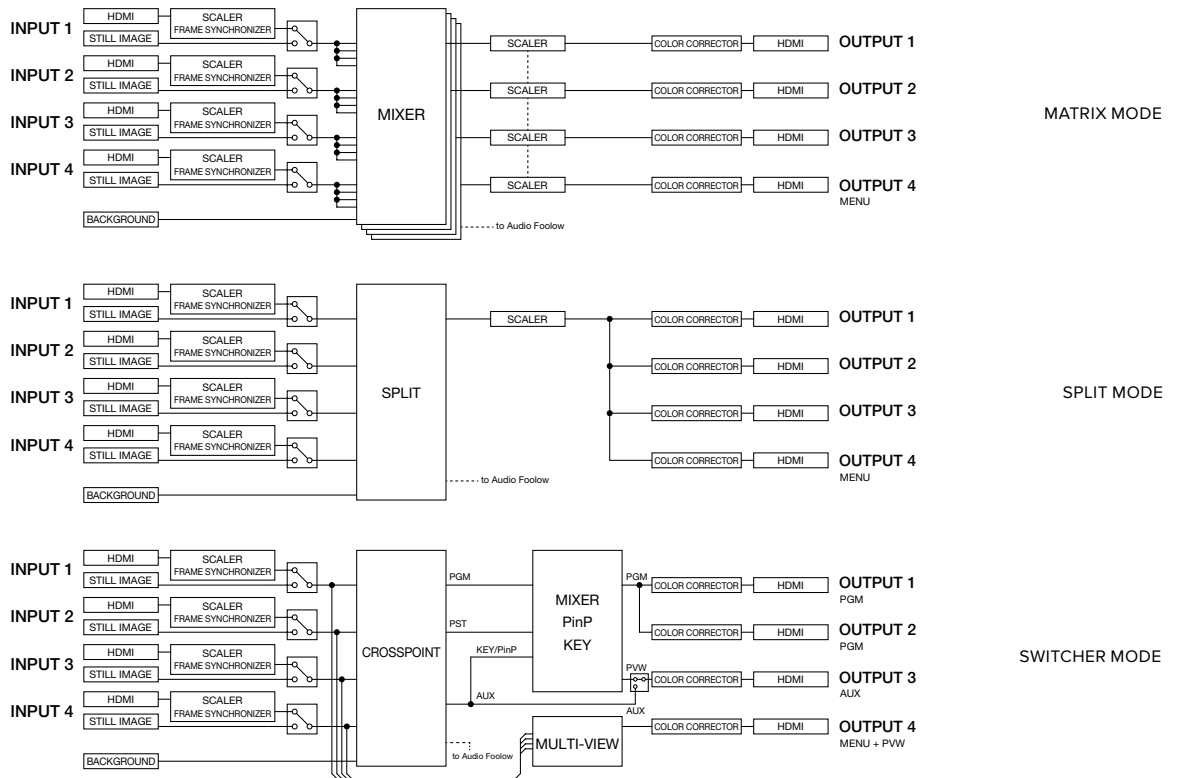
VR-6HD
Direct Streaming AV Mixer
Version 2.0 or later



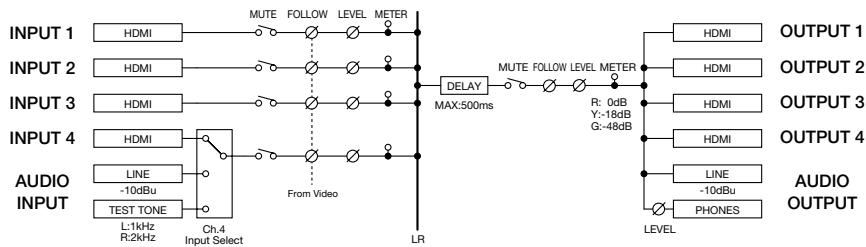
A versatile and compact switcher with multi-screen output and video compositing

- A table-top matrix switcher, with a similar width to a 13" laptop, equipped with four HDMI inputs and outputs
- High-quality 10-bit 4:4:4 processing
- Frame synchronizer and scaler on all inputs
- Still images can be loaded from a USB flash drive
- Three operation modes
- Matrix Mode allows switching of 4 sources to any of 4 outputs
- Switcher Mode allows PinP, key-compositing, and dissolve transitions
- Split Mode allows PinP of up to three inset windows
- Built-in eight-channel digital audio mixer handles audio from four HDMI signals and stereo analog input
- Built-in EDID emulator, and HDCP-compliant





VIDEO BLOCK DIAGRAM



AUDIO BLOCK DIAGRAM

SPECIFICATIONS XS-1HD

VIDEO	
Processing	4:4:4 (Y/Pb/Pr, RGB), 10 bits / 4:2:2 (Y/Pb/Pr), 10 bits
Input Connectors	HDMI: HDMI type A x 4 (HDMI INPUT 1~4) *HDCP Supported
Output Connectors	HDMI: HDMI type A x 4 (HDMI OUTPUT 1~4) *HDCP Supported
Formats	480/59.94i (*1), 576/50i (*1), 480/59.94p (*1), 576/50p (*1), 720/59.94p, 720/50p, 1080/59.94i, 1080/50i, 1080/59.94p, 1080/50p, 800×600/60 (*1), (*2), 1024×768/60 (*2), 1280×720/60 (*2), 1280×800/60 (*2), 1366×768/60 (*2), 1280×1024/60 (*2), 1400×1050/60 (*2), 1600×1200/60, 1920×1080/60, 1920×1200/60 RB *Conforms to CEA-861-E, VESA DMT Version 1.0 Revision 11 *Frame rate is 59.94 Hz (NTSC) or 50 Hz (PAL).
Output Mode	Switcher, Split, Matrix
Transition	Mix, Cut (*3)
Composition (Keyer)	1 (*3)
Others	HDCP Supported, Test Pattern Generator
Internal Memory	1
Still Image Maximum Size	1920×1200
Format	Windows Bitmap File (.bmp) 24 bit per pixel, uncompressed

AUDIO		
Processing	Sampling Rate	24 bits/48kHz
Input Connectors	HDMI	HDMI type A x 4
	AUDIO IN	RCA pin type
Output Connectors	HDMI	HDMI type A x 4
	AUDIO OUT	RCA pin type
	PHONES	Stereo mini type
Input Level	AUDIO IN	-10dBu (Maximum: +8dBu)
Input Impedance	AUDIO IN	15kΩ
Output Level	AUDIO OUT	-10dBu (Maximum: +8dBu)
	PHONES	72mW + 72mW (32Ω)
Output Impedance	AUDIO OUT	1kΩ
Output Impedance	PHONES	10Ω
Formats	HDMI: Linear PCM, 24 bits, 48 kHz, 2 ch	
Others	Mixer	4 ch (Delay : Maximum 500 ms, Audio Follow)
	Test Tone Generator	

(*1) Input only.
(*2) Output refresh rate is 75 Hz when frame rate is set to 50 Hz.
(*3) These effects depends on Output Mode.

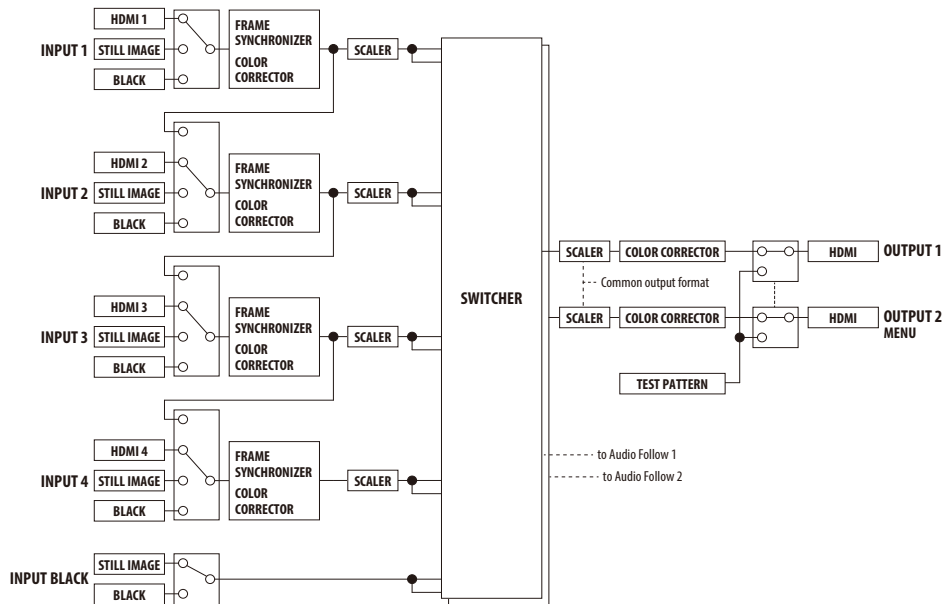
OTHERS		
External Connectors	REMOTE	RS-232 DB-9 type (Male) x 1 *for Remote Control
	USB MEMORY	USB A type x 1 (USB Memory)
Preset Memory		16 *Auto Memory Function
Power Supply		AC Adaptor
Current Draw		2.1A
Power Consumption		25W
Dimensions		328 (W) x 117 (D) x 57 (H) mm
Weight		1.2kg
Accessories		Owner's Manual, AC adaptor, Power cord



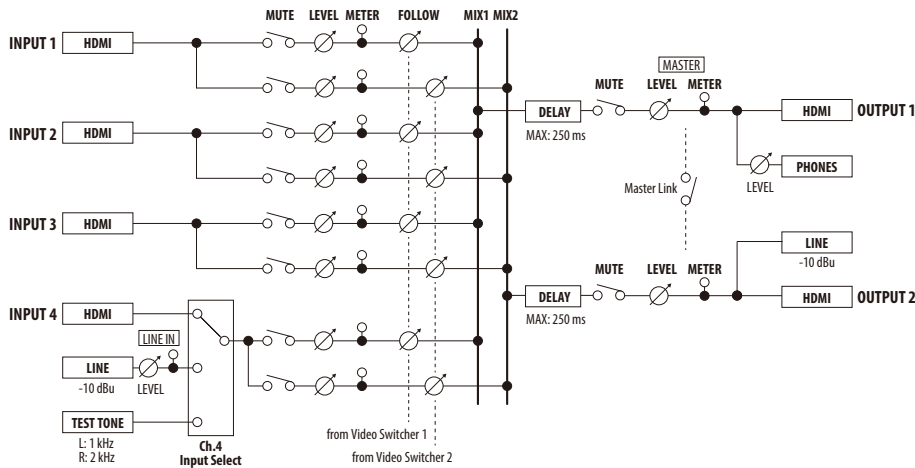
Meet. Share. Repeat.

- Switch up to 4 HDMI inputs to 1 or 2 displays
- Content displays automatically with Auto Input Detection
- Run and switch the meeting from a web browser on a tablet, phone or PC (connected to same network)
- Automatic switching of audio along with video
- Arrange meeting presets for recalling common meeting set-ups with the push of a button





VIDEO BLOCK DIAGRAM



AUDIO BLOCK DIAGRAM

SPECIFICATIONS XS-42H

VIDEO	
Processing	4:4:4 (Y/Pb/Pr, RGB)/10 bits, 4:2:2 (Y/Pb/Pr)/10 bits
Input Connectors	HDMI: HDMI type A x 4 (HDMI INPUT 1-4), * HDCP Supported
Output Connectors	HDMI: HDMI type A x 2 (HDMI OUTPUT 1-2), * HDCP Supported
Formats	480/59.94i (*1), 576/50i (*1), 480/59.94p (*1), 576/50p (*1), 720/59.94p, 720/50p, 1080/59.94i, 1080/50i, 1080/59.94p, 1080/50p, 800 x 600/60 (*1), 1024 x 768/60 (*2), 1280 x 720/60 (*2), 1280 x 800/60 (*2), 1366 x 768/60 (*2), 1280 x 1024/60 (*2), 1400 x 1050/60 (*2), 1600 x 1200/60, 1920 x 1080/60, 1920 x 1200/60 RB *Conforms to CEA-861-E.VESA DMT Version 1.0 Revision 11 *Frame rate is 59.94 Hz (NTSC) or 50 Hz (PAL). (*1) Input only. (*2) Output refresh rate is 75 Hz when frame rate is set to 50 Hz.
Composition	Layer: 1
Transition	Black-insert, Mix, Cut
Still Image	Internal Memory: 1 Maximum Size: 1920 x 1200 pixels Format: Windows Bitmap File (.bmp) 24 bit per pixel, uncompressed

* 0 dBu=0.775 Vrms

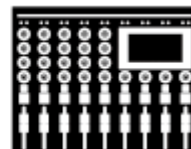
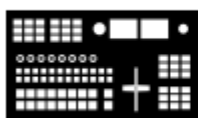
AUDIO	
Sample Rate	48 kHz, 24 bits
Input Connectors	HDMI: HDMI type A x 4, AUDIO INPUT: RCA pin type
Output Connectors	HDMI: HDMI type A x 2, AUDIO OUTPUT: RCA pin type PHONES: Stereo mini type
Input Level	AUDIO INPUT: -10 dBu (Maximum: +8 dBu)
Input Impedance	AUDIO INPUT: 15 k ohms
Output Level	AUDIO OUTPUT: -10 dBu (Maximum : +8 dBu) PHONES: 72 mW + 72 mW (32 ohms)
Output Impedance	AUDIO OUTPUT: 1 k ohm PHONES : 10 ohms
Formats	HDMI: Linear PCM, 24 bits, 48 kHz, 2 ch
Processing	Mixer: 4 ch x 2 (Delay: Maximum 250 ms, Audio Follow)

OTHERS	
External Connectors	REMOTE RS-232: DB-9 type (Male) x 1 LAN: RJ45 x 1 USB: USB A type x 1 (Use for future expansion) USB MEMORY: USB A type x 1 (Use for USB Memory)
Functions	Scene Memory: 10 Test Pattern Generator Test Tone Generator EDID Emulator
Power Supply	AC Adaptor
Current Draw	2.1 A
Power Consumption	25 W
Operation Temperature	+0 to +40 degrees Celsius, +32 to +104 degrees Fahrenheit
Dimensions	242 (W) x 125 (D) x 44 (H) mm 9-9/16 (W) x 4-15/16 (D) x 1-3/4 (H) inches
Weight	1.2 kg, 2 lbs 11 oz
Accessories	Owner's Manual, Leaflet "USING THE UNIT SAFELY", AC adaptor, Power cord, Rubber feet (4 pcs.), Rack mount angle set



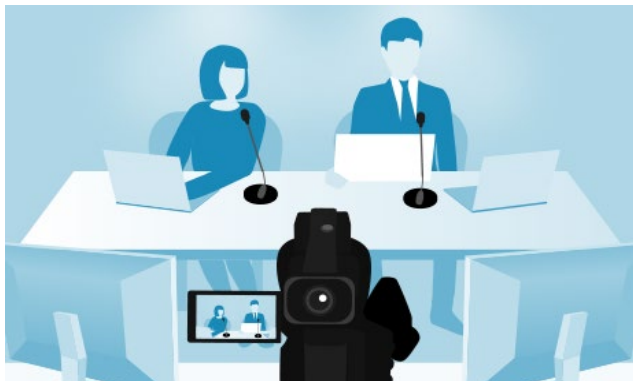
Rackmount switcher for live production and fixed installations with PTZ camera control

- 4 SDI inputs (with de-interlacer)
- 2 HDMI inputs (scaled)
- RGB/COMPONENT/COMPOSITE input (scaled)
– shared with HDMI input 6
- 2 SDI outputs – assignable to PGM, PVW, AUX
- 2 HDMI outputs – assignable to PGM, PVW, AUX
- 1 HDMI output (scaled / multi-view) – multi-view or scaled output
- TALLY/GPIO
- RS-232 – remote control
- RS-422 – PTZ control (VISCA)
- LAN – remote control and Smart Tally (PTZ Control (VISCA))



Video switcher, converter, audio mixer – all in one product

The XS-62S is a compact 1U rack mount, compact 6-channel video switcher with audio mixer and PTZ camera control capabilities for both permanent installs and on-site events. This powerful, integrated solution supports a wide range of applications including presentation and performance and special event venues, corporate AV conferences, classrooms for e-learning and more.



Live production studio

The XS-62S makes it easy to create content with an all-in-one switching and audio mixing system that streamlines the production process. The XS-62S is easy to use from either the front panel controls or remote control software from a PC or Mac. Programmable presets allow one-touch recall of preset camera positions and angles, and the audio auto mixer takes care of audio mixing in the background, so the operator can focus on switching video.



Performance venue / church

XS-62S is the ideal solution for hotel meeting rooms and banquet halls, houses of worship and live performance venues. The XS-62S Matrix Mode makes it easy to send different content to 2 to 3 screen destinations, from a single switcher all while mixing program audio and controlling PTZ remote cameras.



Live streaming and video conference

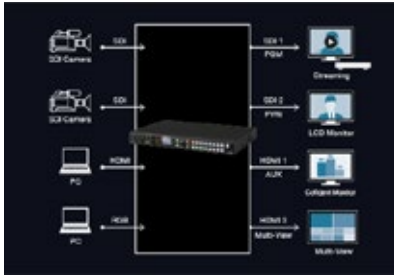
The XS-62S is also suitable for live streaming and web conferencing systems. In this type of application, you could be using multiple PTZ cameras and PCs. With the XS-62S this can easily be operated by a small team or even a single person. PTZ camera control eliminates the need for individual camera operators, since everything can be controlled from the XS-62S while video is being switched by the same operator.



Multi PTZ & remote camera control

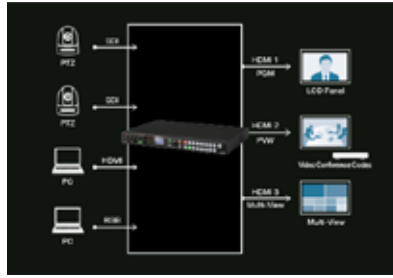
When LAN based PTZ cameras are called into action, take control using the XS-62S or powerful RCS. Seamlessly integrate JVC, Panasonic, Sony, PTZOptics, Avonic and VISCA compatible professional pan-tilt-zoom (PTZ) robotic cameras to streamline workflow without the need for a dedicated controller. For a gaming-like experience, pick up a USB gamepad and conquer a team of PTZ cameras. The RCS can connect to certain Canon handheld camcorders via LAN connection. Start & stop recording and tally light is supported.





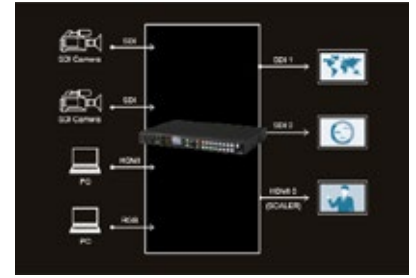
PGM / PST mode

PGM/PST Mode operates as a traditional video switcher complete with video compositions that enable grouping multiple images on one screen. You can create compositions by combining DSK for layering titles and graphics as well PinP inset of video. Compositions can be previewed before sending to Program on the Preview output and can be sent to Program by pressing the TAKE button.



DISSOLVE mode

Video switching and composition with cross dissolve to the PGM bus are possible in Dissolve Mode. Dissolve Mode is easily operated from the front panel and is suitable for a system where the user directly operates the main unit in a meeting space or event. The AUX bus is also available in Dissolve Mode, making it possible to output different video from the PGM bus and PST bus.



MATRIX mode

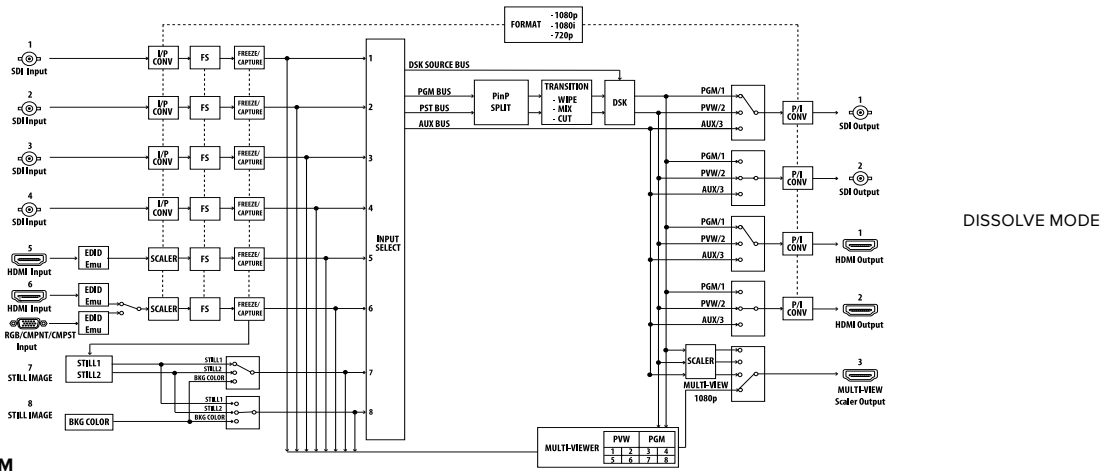
Individual video input signals can be output to three different destinations on three buses. This mode is effective for routing signals and is ideal for events and using multiple screens. Switching the video is with black frame.

SPECIFICATIONS XS-62S

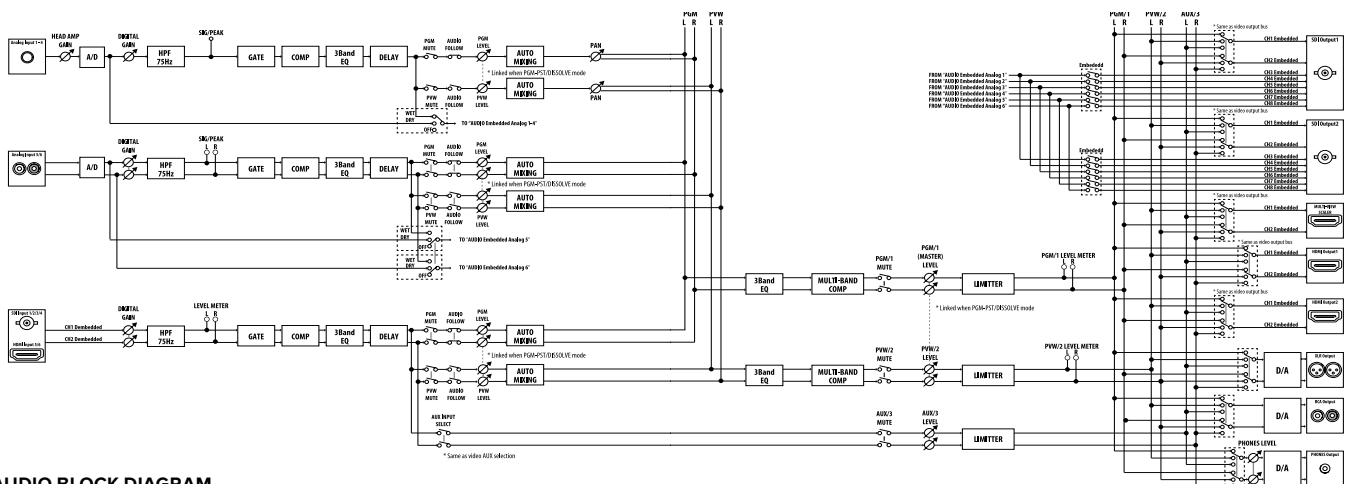
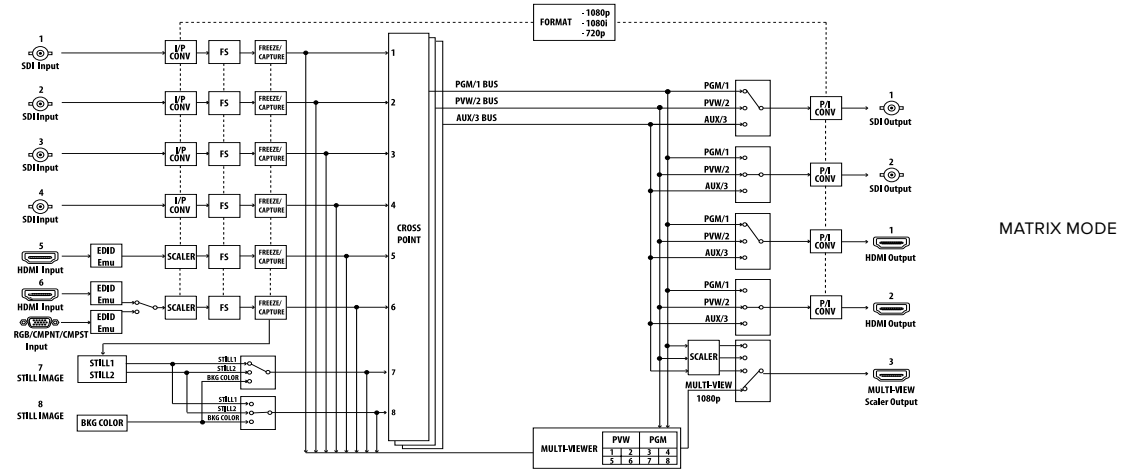
VIDEO	
Processing	4:2:2 (Y/Pb/Pr), 8-bit
Input Connectors	SDI IN 1-4: BNC type x 4 * Conforms to SMPTE 424M (SMPTE 425M-AB), 292M HDMI IN 5-6: HDMI type A x 2 * HDCP Supported * Multi-format Supported RGB/COMPONENT/COMPOSITE IN 6: HD DB-15 type x 1 * Select either HDMI or RGB/COMPONENT or COMPOSITE for the INPUT 6 connector. * Multi-format Supported
Output Connectors	SDI OUT 1-2: BNC type x 2 * Conforms to SMPTE 424M (SMPTE 425M-AB), 292M HDMI OUT 1-3: HDMI type A x 3 * HDCP Supported
Analog Input Level, Impedance	RGB: 0.7Vp-p, 75ohms (H, V:5VTTL) COMPONENT: 1.0Vp-p, 75ohms(BI-level sync/Tri-level sync) COMPOSITE: 1.0Vp-p (Y), 0.286Vp-p (C: NTSC), 0.3Vp-p (C: PAL), 75ohms
Input formats	SDI IN 1-4 connectors (Conforms to SMPTE 296M, SMPTE 274M) (SYSTEM FORMAT = 720p): 720/59.94p, 720/50p (SYSTEM FORMAT= 1080i or 1080p): 1080/59.94i, 1080/50i, 1080/59.94p, 1080/50p * The input interlaced video signal is converted to progressive video signal by internal processing * The video signal frame rate can be selected at the SYSTEM menu (59.94 Hz or 50 Hz) HDMI IN 5-6, RGB/COMPONENT/COMPOSITE IN 6: 480/59.94i, 576/50i, 480/59.94p, 576/50p, 720/59.94p, 720/50p, 1080/59.94i, 1080/50i, 1080/59.94p, 1080/50p, VGA (640 x 480, 60 Hz), SVGA (800 x 600, 60 Hz), XGA (1024 x 768, 60 Hz), WXGA (1280 x 800, 60 Hz), SXGA (1280 x 1024, 60 Hz), FWXGA (1366 x 768, 60 Hz), SXGA+ (1400 x 1050, 60 Hz), UXGA (1600 x 1200, 60 Hz), WUXGA (1920 x 1200, 60 Hz) * The refresh rate is the maximum value of each resolution. * Conforms to 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 * The video signal frame rate can be selected at the SYSTEM menu (59.94 Hz or 50 Hz) RGB/COMPNT/COMPST IN 6 (When inputting COMPOSITE signals): 480/59.94i, 576/50i
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 2 files in the internal memory. * PNG alpha channel not supported.
Output formats	SDI OUT 1-2: Conforms to SMPTE 296M, 274M HDMI OUT 1-2: 720/59.94p, 720/50p (System Format = 720p) 1080/59.94i, 1080/50i (System Format = 1080i), 1080/59.94p, 1080/50p (System Format = 1080p) * The video signal frame rate can be selected at the SYSTEM menu (59.94 Hz or 50 Hz) HDMI OUT 3 (MULTI-VIEW): 1080/59.94p, 1080/50p HDMI OUT 3 (SCALERS): 480/59.94p, 576/50p, 720/59.94p, 720/50p, 1080/59.94p, 1080/50p, SVGA (800 x 600, 60 Hz)(*1), XGA (1024 x 768, 60 Hz)(*1), WXGA (1280 x 800, 60 Hz)(*1), SXGA (1280 x 1024, 60 Hz)(*1), FWXGA (1366 x 768, 60 Hz)(*1), SXGA+ (1400 x 1050, 60 Hz)(*1), UXGA (1600 x 1200, 60 Hz), WUXGA (1920 x 1200, 60 Hz) * Select either MULTI-VIEW or SCALERS for the HDMI OUT 3 connector * The video signal frame rate can be selected at the SYSTEM menu (59.94 Hz or 50 Hz) * 1920 x 1200, 60 Hz: Reduced blanking (*1) Output refresh rate is 75 Hz when frame rate is set to 50Hz
Video Effects	Output Mode: PGM-PST, DISSOLVE, MATRIX Transition: CUT, MIX (DISSOLVE/FAM/NAM) *2, WIPE (30 types) *2 Composition: PinP (SQUARE, CIRCLE, HEART, DIAMOND) *2, SPLIT (4 types) *2, DSK (Luminance Key, Chroma Key) *2 Other: Flip horizontal, Still Image Capture, Still Image Playback, Test pattern output, Input Freeze (*2) These effects depend on Output Mode

AUDIO	
Audio Processing	Sampling rate: 24 bits/48 kHz
Audio formats	SDI IN: Linear PCM, 24 bits/48 kHz, 2 ch (Conforms to SMPTE 299M) SDI OUT: Linear PCM, 24 bits/48 kHz, 8 ch (Conforms to SMPTE 299M) HDMI IN, HDMI OUT: Linear PCM, 24 bits/48 kHz, 2 ch
Input Connectors	SDI IN 1-4: BNC type x 4 HDMI IN 5-6: HDMI Type A x 2 AUDIO IN 1-4: 1/4-inch TRS phone type AUDIO IN 5-6: RCA phono type
Output Connectors	SDI OUT 1-2: BNC type x 2 HDMI OUT 1-3: HDMI type A x 3 AUDIO OUT: XLR type, RCA phono type PHONES: Stereo 1/4-inch phone type
Input Level	AUDIO IN 1-4: -60--+4 dBu (Maximum input level: +22 dBu) AUDIO IN 5-6: -10 dBu (Maximum input level: +8 dBu)
Input Impedance	AUDIO IN 1-4: 10 k ohms (HEAD AMP GAIN: 0--+23 dBu), 5 k ohms (HEAD AMP GAIN: +24--+64 dBu) AUDIO IN 5-6: 15 k ohms
Output Level	AUDIO OUT: +4 dBu (XLR type, Maximum input level: +22 dBu), -10 dBu (RCA phono type, Maximum input level: +8 dBu) PHONES: 92 mW + 92 mW (32 ohms)
Output Impedance	AUDIO OUT: 600 ohms (XLR type), 1 k ohm (RCA phono type) PHONES: 10 ohms
Audio Effects	Auto Mixing, EQ, Delay, Compressor, HPF, Gate, Reverb, Multi-Band Compressor, Limiter
OTHERS	
Other Connectors	USB MEMORY port (for USB flash drive): USB A type TALLY/GPIO: DB-25 type (Female) RS-232: DB-9 type (Male, for remote control) RS-422: DB-9 type (Female, for VISCA control) CONTROL: RJ45, 100BASE-TX (For remote control)
Other Functions	Preset Memory (8 types), Panel Lock Function, EDID Emulator, Smart Tally Remote Camera Control
Display	Graphic LCD 128 x 64 dots
Power Supply	AC Adaptor
Current Draw	2.6 A
Power Consumption	31.0 W
Operating Temp.	+0 to +40 degrees Celsius, +32 to +104 degrees Fahrenheit
Dimensions	481 (W) x 333 (D) x 44 (H) mm, 118-15/16 (W) x 13-1/8 (D) x 1-3/4 (H) inches
Weight (excl. AC adapt)	3.6 kg, 7 lbs 15 oz
Accessories	Owner's Manual, AC adaptor, Power cord, Rubber Foot x 4

(0dBu=0,775Vrms)



VIDEO BLOCK DIAGM



AUDIO BLOCK DIAGM



Everything you need, on a single screen

- Combine up to four HDMI video sources on to a single output
- Connect and switch multiple resolutions simultaneously
- Motion Scene Switching for fluid transitions between complex screen sets
- Simple set-up and remote switching with browser-based network control
- Audio management and connection to external audio devices
- Keyer function for overlays and advanced compositions

The Roland VP-42H Video Processor layers and arranges multiple video sources to a single screen with dynamic transitions for effective and engaging presentations, digital signage and meeting applications.



Large event presentations

LED walls and projections make a big impact at corporate events, and the VP-42H can customize the display of the various data sources needed for presentations. With 10bit 4:4:4 video processing for pixel accurate color, the VP-42H ensures that detailed data sources such as spreadsheets are sharp and clear for the audience to read. And as you've got their attention, impress the audience with smooth and dynamic Motion Scene Switching. It makes everything look more exciting—even spreadsheets.



Digital signage processor

Create engaging digital signage with multiple content layers, overlays and motion-based transitions. The VP-42H can automatically switch between scenes, based on a preset interval, for exciting, eye-catching displays. And you can make it all happen from just about anywhere in the world, by connecting remotely and updating the VP-42H via a web browser.



Meeting rooms

Combine information from multiple sources including video conferences and presentations. Have all the key info on the same screen and easily switch between views to improve the delivery of information in meetings. And Motion Scene Switching makes transitioning between sources very impressive—especially when showing clients.



Video production multi-viewer

The VP-42H is a highly flexible multi-viewer for video production. Most multi-viewers simply provide a quad display but the VP-42H enables custom sizing for each source window, and scenes can be set up for instant access to a variety of multi-view configurations. The VP-42H can also de-embed audio being transported over HDMI, routing the audio to local speakers for improved monitoring.





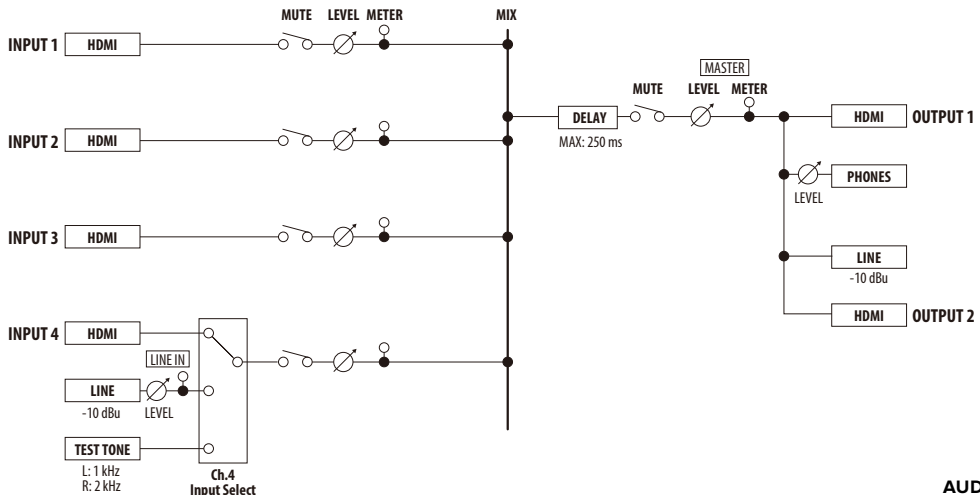
Maximum effect, minimum effort

The VP-42H goes way beyond typical switchers. You can instantly switch between 'scenes' containing preset arrangements of layered sources in customizable inset windows. The VP-42H smoothly transitions between current and next scenes by automatically moving and resizing the windows to their new positions. And highly impressive scene changes that used to take hours to program now happen at the touch of a button.

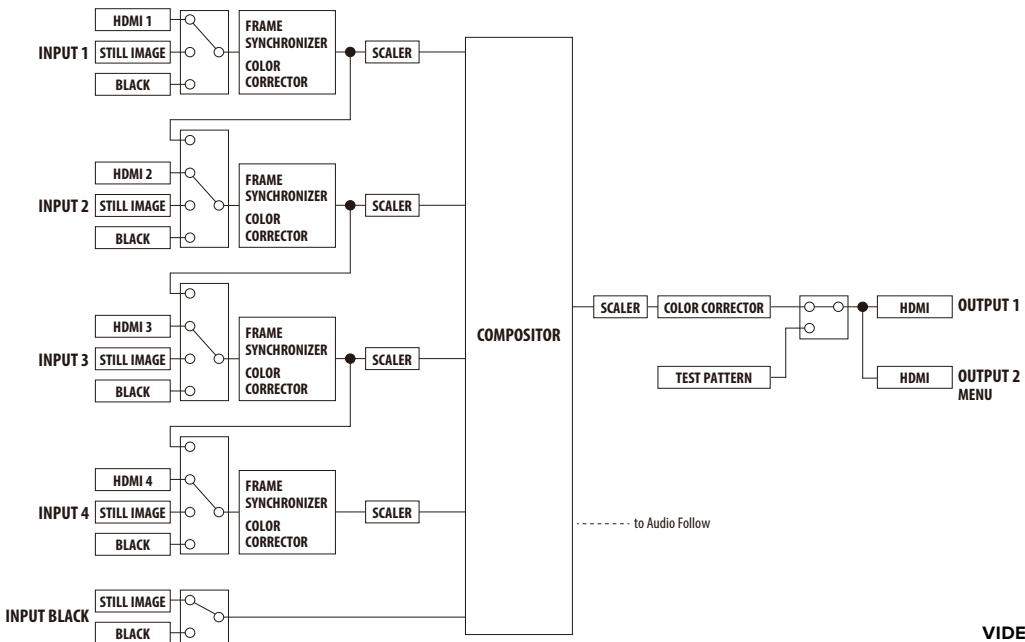


Flexible audio capability

The Roland VP-42H includes stereo RCA outputs for de-embedding audio from connected HDMI sources and outputting it to other devices such as speakers and mixers. Levels for each source can be set by the internal audio mixer, and if the VP-42H is being used as a compositor for recording or streaming, the audio from an external mixer or other sources can be connected to the RCA inputs and embedded into the HDMI output signal.



AUDIO BLOCK DIAGRAM



VIDEO BLOCK DIAGRAM



Simple, solid switching

Not all events require creative display and advanced scene transition capabilities. For simpler scenarios, the VP-42H functions as a true cross-dissolve seamless switcher, with a keyer to create overlays and the ability to display still images via USB drive—perfect for logos and safety slides.

Fast and convenient browser-based setup

Quickly configure scenes by using the web browser interface for your network-connected VP-42H. Each input's layer can be scaled, cropped, zoomed and positioned by simply clicking and dragging. So even at a large event, a VP-42H connected to a big display will be up and running in seconds, letting you use a wirelessly connected tablet to set up compositions in no time.



Customizable compositions

Traditionally, layering and switching multiple sources within a single display is complicated and expensive, requiring highly skilled operators to keep it all working. This has pushed the technology out of reach for most event producers—until now. The Roland VP-42H video processor offers customizable compositions for up to four inputs, with motion-based scene switching for a stunning visual impact.

SPECIFICATIONS VP-42H

VIDEO	
Processing	4:4:4 (Y/Pb/Pr, RGB)/10 bits, 4:2:2 (Y/Pb/Pr)/10 bits
Input Connectors	HDMI: HDMI type A x 4 (HDMI INPUT 1--4), * HDCP Supported
Output Connectors	HDMI: HDMI type A x 2 (HDMI OUTPUT 1--2), * HDCP Supported
Formats	480/59.94i (*1), 576/50i (*1), 480/59.94p (*1), 576/50p (*1), 720/59.94p, 720/50p, 1080/59.94i, 1080/50i, 1080/59.94p, 1080/50p, 800 x 600/60 (*1), 1024 x 768/60 (*2), 1280 x 720/60 (*2), 1280 x 800/60 (*2), 1366 x 768/60 (*2), 1280 x 1024/60 (*2), 1400 x 1050/60 (*2), 1600 x 1200/60, 1920 x 1080/60, 1920 x 1200/60 RB *Conforms to CEA-861-E, VESA DMT Version 1.0 Revision 11 *Frame rate is 59.94 Hz (NTSC) or 50 Hz (PAL). (*1) Input only. (*2) Output refresh rate is 75 Hz when frame rate is set to 50 Hz.
Composition	Layer: 4 (Picture in Picture x 4) *Layer 1 is Picture in Picture with Keyer.
Transition	Black-insert, Mix, Cut, Motion
Still Image	Internal Memory: 1 Maximum Size: 1920 x 1200 pixels Format: Windows Bitmap File (.bmp) 24 bit per pixel, uncompressed

* 0 dBu=0.775 Vrms

AUDIO	
Sample Rate	48 kHz, 24 bits
Input Connectors	HDMI: HDMI type A x 4, AUDIO INPUT: RCA pin type
Output Connectors	HDMI: HDMI type A x 2 *2 Output is the same audio. AUDIO OUTPUT: RCA pin type PHONES: Stereo mini type
Input Level	AUDIO INPUT: -10 dBu (Maximum: +8 dBu)
Input Impedance	AUDIO INPUT: 15 k ohms
Output Level	AUDIO OUTPUT: -10 dBu (Maximum: +8 dBu) PHONES: 72 mW + 72 mW (32 ohms)
Output Impedance	AUDIO OUTPUT: 1 k ohm PHONES: 10 ohms
Formats	HDMI: Linear PCM, 24 bits, 48 kHz, 2 ch
Processing	Mixer: 4 ch (Delay: Maximum 250 ms)

OTHERS	
External Connectors	REMOTE RS-232: DB-9 type (Male) x 1 LAN: RJ45 x 1 USB: USB A type x 1 (Use for future expansion) * USB MEMORY: USB A type x 1 (Use for USB Memory)
Functions	Scene Memory: 10 Test Pattern Generator Test Tone Generator EDID Emulator
Power Supply	AC Adaptor
Current Draw	2.1 A
Power Consumption	25 W
Operation Temperature	+0 to +40 degrees Celsius, +32 to +104 degrees Fahrenheit
Dimensions	242 (W) x 125 (D) x 44 (H) mm 9-9/16 (W) x 4-15/16 (D) x 1-3/4 (H) inches
Weight	1.2 kg, 2 lbs 11 oz
Accessories	Owner's Manual, Leaflet "USING THE UNIT SAFELY", AC adaptor, Power cord, Rubber feet (4 pcs.), Rack mount angle set



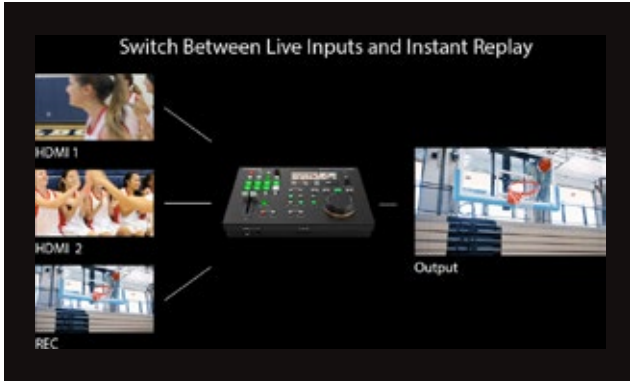
Transform sports production

- Slow-motion instant replay and variable speed playback
- Intuitive controls for single-operator sports production
- Simultaneous recording and playback
- Clip playlist builder for creating highlight reels
- Integrated color LCD for preview monitoring
- Capture long events to low cost and widely available SD cards
- Compact, portable, and reliable hardware design
- Ideal for school sports, esports, and sports training



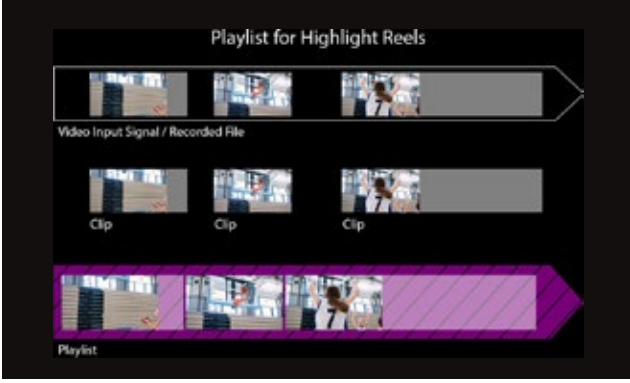
Record and replay at the same time

The P-20HD records directly to high-capacity SD cards, which are widely available and easy to swap out. And as you cue up and replay clips, the game keeps recording in the background, with no gaps in the action. The SD card also holds school logos, sponsor graphics, and other still images. Images can be recalled on cue and layered on top of the recorded clips or displayed at full HD resolution.



Plays well with others

The P-20HD can be seamlessly inserted into a variety of workflows. Use it on its own, or upstream or downstream of any Roland video switcher. Connect two cameras and switch/composite between sources to capture them for replay. Both HDMI inputs feature built-in scalars, providing worry-free connectivity with nearly any video source.



Create highlight and training reels

After the action's over, use the media playlist builder to aggregate clips into curated pro videos, ready for distribution and sharing on your favorite platform. Celebrate the best moments of a game on social media, or distribute practice and training sessions to coaches and players for further evaluation.



Superb audio quality

The P-20HD features the high-quality sound processing that Roland is famous for. Stereo audio I/O is supported via embedded HDMI and analog RCA jacks, and there's a convenient headphones jack for signal monitoring. Onboard EQ, limiter, and delay effects are also available to enhance the sound and eliminate audio and video sync issues.





One person operation

A pro sports network broadcast has a dedicated team that handles replay duties. With the P-20HD, a single operator can easily mark, cue, and replay clips while managing other elements of a production. Simply register events as clips with button taps while recording, and then instantly play them back with dedicated panel switches. A Version 1.2 Keyboard plus a BOSS footswitch and expression pedal enable you to execute different switcher commands more easily. USB Keyboard supports renaming projects and clips as well.



Direct-access controls

Filled with single-task hardware controls, the P-20HD provides a hands-on experience that lets you get the job done with zero frustration. Dedicated transport buttons include play, pause, forward, rewind, mark in, and mark out. A jog/shuttle wheel with optical encoding provides precise, fluid control to scrub clips for replay and editing, while the T-bar lets you adjust playback speed. Engaging the Speed Range function provides ultra-fine control, perfect for focusing in on tight action and contested plays.

P-20HD Recording Times

SD CARD CAPACITY	RECORDING TIME
16GB	2 hours 50min
32GB	5 hours 45min
64GB	11 hours 30min
128GB	23 hours 00min
256GB	46 hours 00min
512GB	92 hours 00min

Universal file compatibility

The P-20HD records natively in H.264*, one of the most universally supported file formats available. H.264 maintains high quality even at low bit rates, providing excellent video at reduced file sizes. All of the most popular online video platforms accept H.264 format, letting you upload files created on the P-20HD with no conversion steps in-between. Version 1.2 The P-20HD exports projects and clips in MP4 file format.



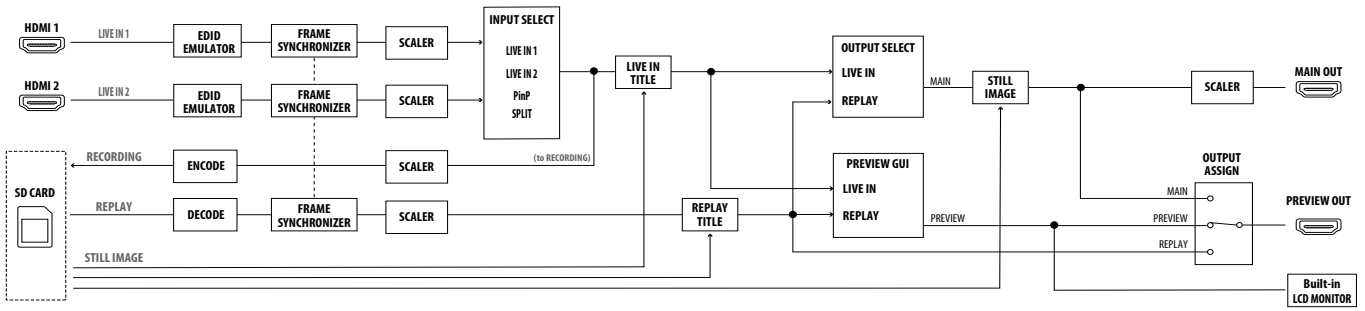
Visually engage with fans

Draw lines or diagram the trajectory of the action to help fans analyze the play and help make commentary easier to understand. Draw with various colors, and shapes, even control the playback speed of the video. Beginning with version 1.10, real-time annotation over video is economical, and simple with the P-20HD and a connected Wacom Tablet*.

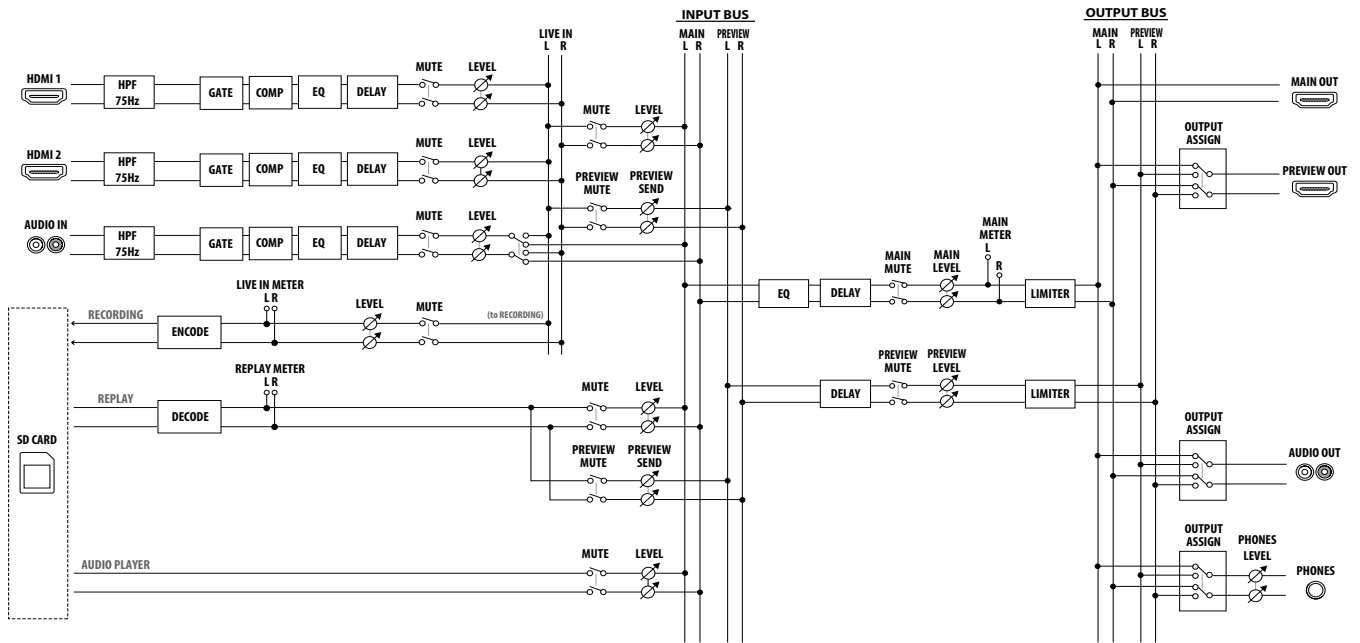


Take local sports production to the next level

When watching a sporting event live or on a broadcast stream, today's audiences expect the high production values they see when watching pro teams on network TV. With the P-20HD, adding the magic of instant replay to your workflow has never been more simple and affordable. Using intuitive controls and the integrated color LCD, you can easily cue up replays of important action to let fans relive the moment, either on your streaming feed or live event screens—or both at once.



AUDIO BLOCK DIAGRAM



VIDEO BLOCK DIAGRAM

SPECIFICATIONS P-20HD

VIDEO	
Video Processing	4:2:2 (Y/Pb/Pr), 8-bit
Input Connectors	INPUT 1-2: HDMI type A x 2 * Multi-format Supported
Output Connectors	MAIN: HDMI type A * Multi-format Supported, PREVIEW: HDMI type A
Input Formats	720/59.94p, 720/50p, 1080/59.94i, 1080/50i, 1080/59.94p, 1080/50p, SVGA (800 x 600/60Hz), XGA (1024 x 768/60Hz), WXGA (1280 x 800/60Hz), FWXGA (1366 x 768/60Hz), SXGA (1280 x 1024/60Hz), SXGA+ (1400 x 1050/60Hz), UXGA (1600 x 1200/60Hz), WUXGA (1920 x 1200/60Hz) * The refresh rate is the maximum value of each resolution. * Conforms to CEA-861-E, VESA DMT Version 1.0 Revision 11. * The video signal frame rate can be selected at the SYSTEM menu (59.94 Hz or 50 Hz). * 1920 x 1200/60 Hz: Reduced blanking
Output Formats	MAIN: 720/59.94p, 720/50p, 1080/59.94i, 1080/50i, 1080/59.94p, 1080/50p * The video signal frame rate can be selected at the SYSTEM menu (59.94 Hz or 50 Hz). PREVIEW: 1080/59.94p, 1080/50p * The video signal frame rate can be selected at the SYSTEM menu (59.94 Hz or 50 Hz). STILL IMAGE: Bitmap File (.bmp) 1920 x 1080 pixels, 24-bit color, uncompressed. PNG File (.png) 1920 x 1080 pixels (480 x 270 pixels for title image), 24-bit color, 8-bits alpha channel. * It can be stored up to 16 files in each Projects. * It can be stored one title image each for LIVE IN and REPLAY bus.
Recording mode	Instant Replay Mode file format: MPEG2-TS CODEC: H.264 High@L 4.1 10Mbps 8bit 4:2:0 AAC LC 128kbps, 48kHz, 16bit stereo recording mode: resolution priority, framerate priority * It can be selected at project settings.
Recording media	SD/SDHC/SDXC card
Video Effects	Composition: PiP, SPLIT Transition: CUT, MIX, WIPE Other: Flip horizontal, Still Image Playback, Test pattern output, Annotation

* 0 dBu=0.775 Vrms

AUDIO	
Audio Processing	Sample rate: 24 bits/48 kHz
Audio formats	Linear PCM, 24 bits/48 kHz, 2ch
Input Connectors	INPUT 1-2: HDMI Type A x 2, AUDIO IN: RCA phono type
Output Connectors	MAIN OUT: HDMI Type A, PREVIEW OUT: HDMI Type A AUDIO OUT: RCA phono type, PHONES: Stereo 1/4-inch phone type
Input Level	AUDIO IN: -10 dBu (Maximum: +8 dBu)
Input Impedance	AUDIO IN: 15 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, Limiter, Test tone output
Audio Player	File format: WAV (Linear PCM, 48kHz/48kHz, 16bit, stereo) * It can be stored up to 16 files in each Projects.

OTHERS	
Other Connectors	USB HOST port: USB A type (For USB flash drive, Wacom tablet, USB keyboard), LAN port: RJ-45, 1000BASE-T (For remote control, FTP), RS-232 connector: DB-9 type (Male, for remote control, switcher control), CTL/EXP 1, 2: 1/4-inch TRS phone type, DC IN
Other Functions	Panel lock function, EDID Emulator, Export recording files (mp4) Export and Import project archive files
Display	4.3 inches TFT Color LCD: 480 x 272 dots
Power Supply	AC Adaptor
Current Draw	3 A
Power Consumption	36 W
Operation Temperature	+0 to +40 degrees Celsius, +32 to +104 degrees Fahrenheit
Dimensions	265 (W) x 216 (D) x 87 (H) mm 10-7/16 (W) x 8-9/16 (D) x 3-7/16 (H) inches
Weight	1.2 kg, 2 lbs 11 oz
Accessories	Owner's Manual, AC adaptor, Power cord

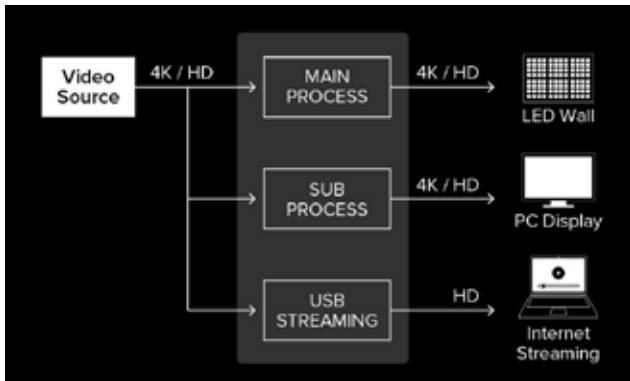


Scale, convert, and stream

- Professional A/V signal management in a compact and robust unit
- Internal YCbCr 4:4:4 10-bit lossless processing
- Advanced visual effects and image processing
- Region of Interest (ROI) switching via external USB numeric keypad
- Professional audio processing with flexible patching
- Front panel menu LCD
- Features 12G-SDI and HDMI 2.0 I/O with Roland's Ultra Scaler video processing technology
- HDMI YCbCr 4:4:4 10-bit input/output
- Display processing for multiple audiences: 4K, HD, and web streaming
- High frame rate support at 100, 120, 144, 200 and 240 Hz with drop frame
- USB 3.0 webcam output for livestreaming broadcasts!



Introducing the Roland VC-100UHD, a next-generation A/V signal management solution for live events, fixed installations, and livestreaming. Built on a reliable hardware platform for mission-critical applications, this powerhouse processor combines multiple single-task technologies in a compact and flexible half-rack design.

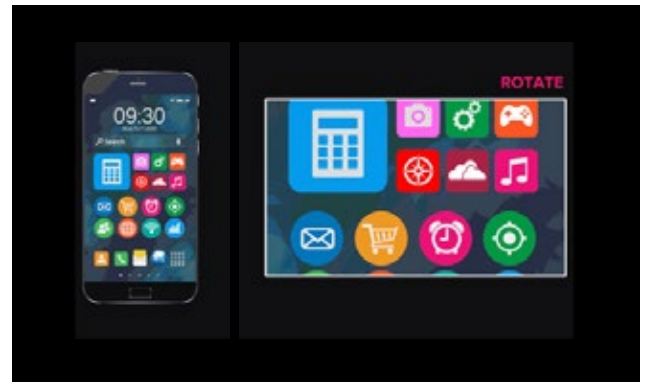
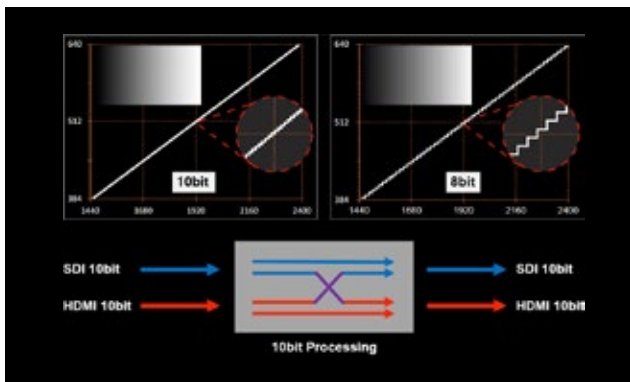


Process images for multiple audiences at once

Using the VC-100UHD, it's a simple task to send 4K and 1080p video to multiple destinations at one time, including pixel-hungry LED walls, tech operator displays and recorders, and USB webcam streams for online viewing. With an ultra-high-definition source signal connected to the 12G-SDI or HDMI 2.0 video inputs, the VC-100UHD will automatically process and convert it to different resolutions, ready for distribution at 12G-SDI, HDMI, and USB 3.0 rear-panel outputs.

Simulate a PTZ Camera with ROI and a USB Numeric Keypad

With the VC-100UHD's built-in Region of Interest (ROI) function, you can easily produce multi-shot productions with a single 4K camera or zoom in and highlight presentation details. Creating an inviting viewer experience has never been easier: select any 4K video input source to zoom, move, crop, and scale up to eight ROI windows. Then use a USB numeric keypad to switch windows during events just a like PTZ camera.



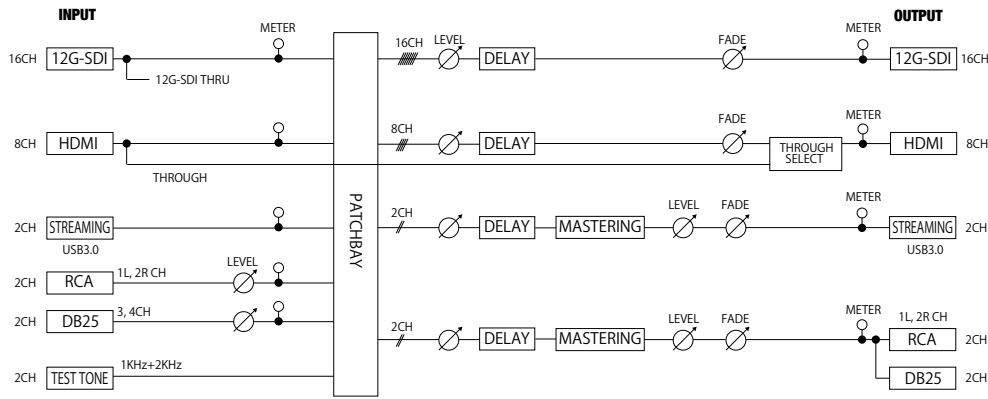
Lossless conversion with 10-Bit Processing

When using YCbCr 4:4:4 and YCbCr 4:4:4 subsampling, the VC-100UHD's 10-bit internal processing fully maintains the color and gradation details of the input source. Compared with 8-bit processing, this allows you to display images with more colors and a smooth, natural look.

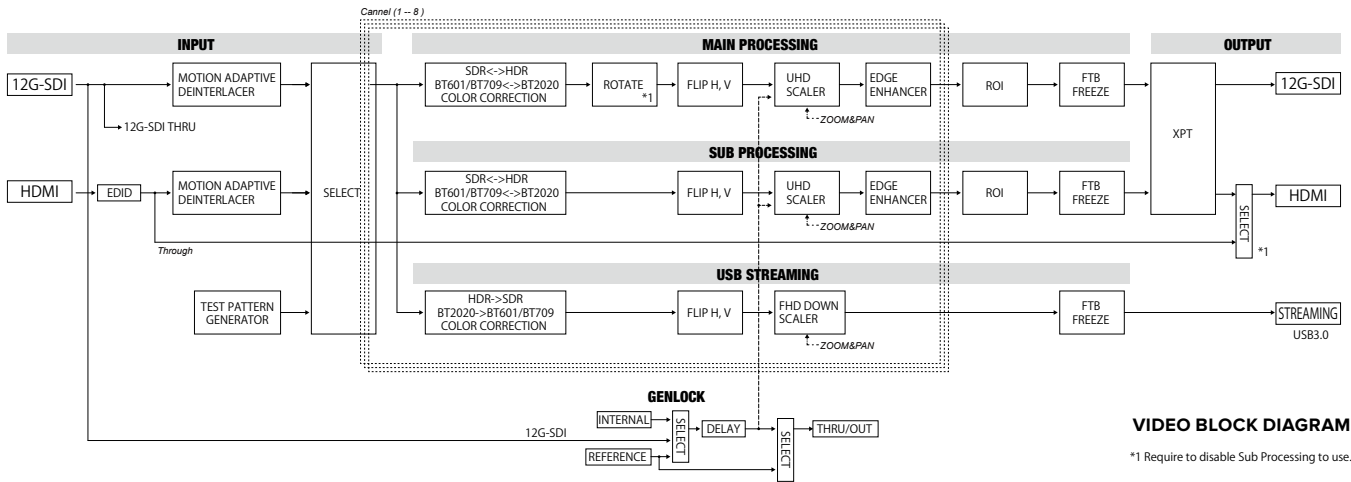
Onboard visual effects and image processing

Using the VC-100UHD's built-in visual effects, it's simple to rotate, flip, and mirror images. For example, a portrait image generated by a smartphone can be trimmed and rotated to fit seamlessly on a 16:9 landscape display for digital signage. And with the VC-100UHD's Frame Synchronizer and Genlock features, you can easily re-clock and stabilize video images as needed.





AUDIO BLOCK DIAGRAM



VIDEO BLOCK DIAGRAM

*1 Require to disable Sub Processing to use.



The ultra-reliable ultra scaler

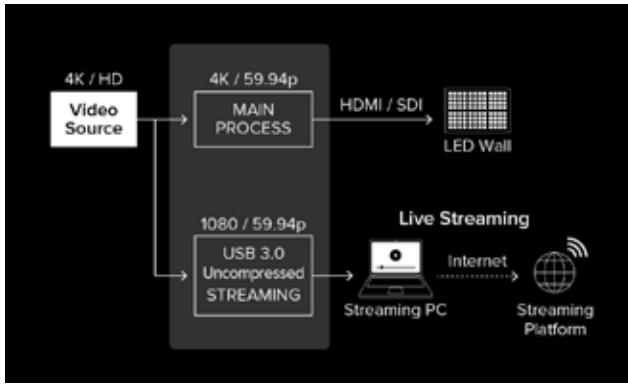
The VC-100UHD features Roland's revolutionary Ultra Scaler, the same no-compromise, ultra-reliable professional video processor found in the flagship V-600UHD 4K video switcher. Backed by a lightning-fast processing engine, Ultra Scaler delivers premium quality conversion for perfectly synchronized big-screen IMAG and precise dot-by-dot scaling for LED wall displays.

Roland's Ultra Scaler supports: 10-bit 4:4:4 pixel-accurate color, Rec. 601, 709 and 2020 wide color gamut, High dynamic range processing and conversion, Version 1.3 High frame rate (HFR) video at 100, 119.88, 120, 200, 239.76, and 240 Hz (HDMI input only), Native DCI Digital Cinema System 4K (4096) resolution

High frame rates? No problem.

Using the VC-100UHD's built-in visual effects, it's simple to rotate, flip, and mirror images. For example, a portrait image generated by a smartphone can be trimmed and rotated to fit seamlessly on a 16:9 landscape display for digital signage. And with the VC-100UHD's Frame Synchronizer and Genlock features, you can easily re-clock and stabilize video images as needed.





USB 3.0 Webcam Output For Streaming and Recording

Reach a worldwide audience and broadcast uncompressed 1080p video at 59.94/50 Hz on popular streaming platforms with the VC-100UHD. The USB 3.0 webcam output offers plug-and-play operation with the latest USB audio/video protocols, so there's no software to download or drivers to maintain. And with Roland's free VR Capture software, you can record your HD livestreams in ProRes 422 (Mac) or MP4 (Windows) formats for editing and distribution.

Front panel graphic LCD

With the VC-100UHD's high-resolution graphic LCD and intuitive menu structure, all functions can be accessed locally without the need for an external control device. On the comprehensive status screens, you can quickly check the resolution, frame rate, HDCP status, color space, bit depth, color gamut, dynamic range, audio levels, and more. In addition, the system message log screen makes troubleshooting easy.

SPECIFICATIONS VC-100UHD

VIDEO	
Processing	4:4:4 (Y/Pb/Pr), 10-bit
Formats	SDI: 2160p(DCI)/59.94 Hz, 50 Hz (SMPTE ST2048) 2160p(UHD)/59.94 Hz, 50 Hz (SMPTE ST2036) 1080p/59.94 Hz, 50 Hz (SMPTE ST274) 1080i/59.94 Hz, 50 Hz (SMPTE ST274)
	HDMI: *1 2160p(DCI)/59.94 Hz, 50 Hz (CEA-861-F) 2160p(UHD)/59.94 Hz, 50 Hz (CEA-861-F) 1080p/59.94 Hz, 50 Hz (CEA-861-F) 1080i/59.94 Hz, 50 Hz (CEA-861-F) 4096 x 2160/60 Hz (CEA-861-F) 3840 x 2160/60 Hz (CEA-861-F) 2560 x 1440/60 Hz (VESA CVT Reduced blanking) 1920 x 1200/60 Hz (VESA CVT Reduced blanking) 1920 x 1080/240 Hz (Pixel Clock 556.8 MHz) *2 1920 x 1080/144 Hz (Pixel Clock 346.54 MHz) *2 1920 x 1080/120 Hz (VESA CVT Reduced blanking) *2 1920 x 1080/60 Hz (CEA-861-F) *1 HDCP 1.4, 2.2 supported. *2 Input and through output.
Functions	USB Streaming: *3 *4 *5 1080p, 720p, 480p/576p *3 UVC (USB Video Class) Uncompressed Video 4:2:2 (Y/Pb/Pr), 8-bit *3 The video signal frame rate can be selected Full or Half. *4 Color Gamut: Rec.601, Rec.709, Dynamic Range: SDR * Color Gamut: Rec.601, Rec.709, Rec.2020 * Dynamic Range: SDR, HDR PQ (HDR10), HDR HLG 4K Scaler, FHD Down Scaler, Output Fade Output Freeze, Test Pattern Generator, Rotation *6, Flip H, V, Edge Enhancer Motion Adaptive Deinterlacer, Color Correction, Dynamic Range Conversion *6 Require to disable Sub Processing to use.

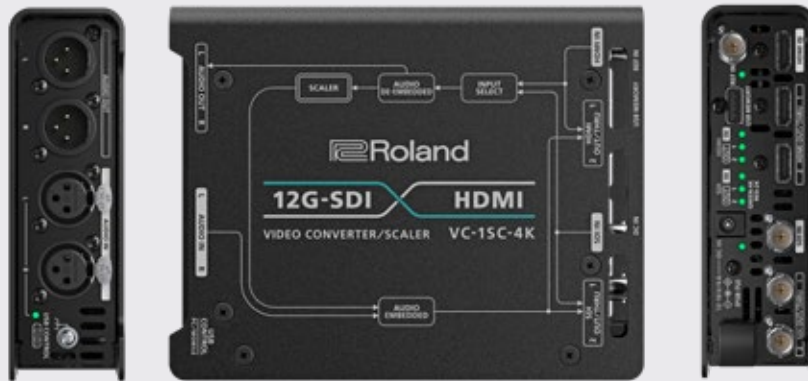
AUDIO	
Processing	24 bits/48 kHz
Formats	12G-SDI: Linear PCM, 24 bits/48 kHz, 16 ch (SMPTE 299M) HDMI 4K: Linear PCM, 24 bits/48 kHz, 8 ch STREAMING: Linear PCM, 16 bits/48 kHz, 2 ch (UAC (USB Audio Class))
Output Connectors	OUTPUT 1-3: HDMI Type A x 3 AUDIO OUT: RCA phono type PHONES: Stereo miniature type
Input Level	LINE IN: -10 dBu (Maximum: +8 dBu) AUDIO IN: +4 dBu (Maximum: +24 dBu)
Input Impedance	LINE IN: 38 k ohms AUDIO IN: 15 k ohms
Output Level	LINE OUT: -10 dBu (Maximum: +8 dBu) AUDIO OUT: +4 dBu (Maximum: +24 dBu)
Output Impedance	LINE OUT: 1k ohm AUDIO OUT: 600 ohms
Functions	Output Level, Patchbay, Delay, Mastering, Test Tone Generator

CONNECTORS	
Input Connectors	12G-SDI IN: BNC type (SMPTE 2082, 2081, 424M (SMPTE 425M-AB), 292M, 259M) HDMI 4K IN: HDMI type A STREAMING: USB type B (USB3.0) LINE IN: RCA phono type AUDIO IN: DB-25 female type (Balanced audio 2 ch) REFERENCE IN: BNC type (Black Burst (Sync to fr.), Bi-Level, Tri-Level)
Output Connectors	12G-SDI OUT: BNC type (SMPTE ST2082, ST2081, 424M(SMPTE 425M-AB), 292M, 259M) 12G-SDI THRU: BNC type HDMI 4K OUT: HDMI type A STREAMING: USB type B (USB3.0) LINE OUT: RCA phono type AUDIO OUT: DB-25 female type (Balanced audio 2 ch) REFERENCE THRU/OUT: BNC type (Black Burst)
Other Connectors	USB HOST: USB A type (USB2.0) (for USB flash drive) REMOTE: RJ45 type, 100BASE-TX

OTHERS	
Functions	EDID Emulator Genlock Preset Memory x 8
Display	Graphic LCD 256 x 64 dots
Power Supply	AC Adaptor
Current Draw	2.3 A (DC 24V)
Power Consumption	55 W
Operation Temperature	+0 to +40 degrees Celsius +32 to +104 degrees Fahrenheit
Dimensions	210 (W) x 284.5 (D) x 43 (H) mm, 8-5/16 (W) x 11-1/4 (D) x 1-3/4 (H) inches
Weight (excl. Accessories)	2.2 kg 4 lbs 14 oz
Accessories	Owner's Manual, Leaflet "USING THE UNIT SAFELY", AC adaptor, Power cord, Rubber feet (4 pcs.), Rack mount angle set, DC Plug Stopper

* 0 dBu = 0.775 Vrms

Roland 4K



Professional 4K converter/scaler with advanced screen management for LED wall applications and other displays

- 4K 60p HDR 4:4:4 10-bit processing optimized for LED wall applications
- Flexible cross conversion between 12G/6G/3G-SDI and HDMI 2.0
- Distribution amplifier with simultaneous output from two SDI and two HDMI signal ports
- Advanced ROI (Region of Interest) feature for cropping specific areas
- Dedicated control and monitoring app for iOS, iPadOS, Android, macOS, and Windows
- Professional XLR balanced audio input and output with embed/de-embed support
- Compact, rugged metal chassis manufactured in Japan



Simplifies screen setup of LED walls

The VC-1SC-4K streamlines 4K video conversion and simplifies screen setup of LED walls and other displays for event productions and fixed installations.

LED wall applications with various resolutions and non-16:9 displays are expanding in today's production, commercial, and rental environments. The VC-1SC-4K meets these growing needs with a practical hardware interface that offers high-quality processing and fast, intuitive operation.

Reliable and Flexible Conversion for SDI and HDMI Sources

The VC-1SC-4K is equipped with SDI and HDMI inputs that support 4K and HD signals at various frame rates, as well as a reference input for locking to a system clock. The powerful onboard engine provides stable cross conversion of professional video sources with premium 4:4:4 10-bit processing and full support for 12G/6G/3G-SDI and HDMI 2.0 formats.



Dedicated multi-platform control app

A dedicated multi-platform control app enables quick adjustment of screen resolution, aspect ratio, ROI cropping, and more. The signal monitoring feature shows the status of video and audio signals, while built-in test pattern generators aid in configuration and troubleshooting. With the library function, users can store/recall setups offline and on-site and easily share data with installation team members.

SPECIFICATIONS VC-1SC-4K

VIDEO	
Processing	4:4:4 (Y/Cb/Cr), 10-bit
Formats	HDMI: *1 2160 (DCI) /60p, 59.94p, 50p, 48p *2, 47.95p *2, 30p, 29.97p, 25p, 24p, 23.98p (CTA-861-G) 2160 (UHD) /60p, 59.94p, 50p, 30p, 29.97p, 25p, 24p, 23.98p (CTA-861-G) 1080 (DCI) /60p, 59.94p, 50p, 30p, 29.97p, 25p, 24p, 23.98p 1080 (FHD) /60p, 59.94p, 50p, 30p, 29.97p, 25p, 24p, 23.98p (CTA-861-G) 1080i/60i, 59.94i, 50i (CTA-861-G) 720/60p, 59.94p, 50p (CTA-861-G) 2560 x 1440/60 Hz (VESA CVT Reduced blanking) 1920 x 1200/60 Hz (VESA CVT Reduced blanking) SDI: 2160 (DCI) /60p, 59.94p, 50p, 48p *2, 47.95p *2, 30p, 29.97p, 25p, 24p, 23.98p (SMPTE ST2048) 2160 (UHD) /60p, 59.94p, 50p, 30p, 29.97p, 25p, 24p, 23.98p (SMPTE ST2036) 1080 (DCI) /60p, 59.94p, 50p, 48p *2, 47.95p *2, 30p, 29.97p, 25p, 24p, 23.98p (SMPTE ST2048) 1080 (FHD) /60p, 59.94p, 50p, 30p, 29.97p, 25p, 24p, 23.98p (SMPTE ST274) 1080i/60i, 59.94i, 50i (SMPTE ST274) 1080i/30PsF *2, 29.97PsF *2, 25PsF *2 (SMPTE ST274) 720/60p, 59.94p, 50p (SMPTE ST296) *1 HDCP 1.4, 2.2 supported. *2 Input and through output.
Video Functions	4 K Scaler, ROI (Region of Interest), Down Converter, Test Pattern Generator, Flip H, V, Motion Adaptive Deinterlacer, Edge Enhancer, Color Correction, Dynamic Range Conversion, Frame Rate Conversion
AUDIO	
Processing	24 bits/48 kHz
Formats	HDMI: Linear PCM, 24 bits, 48 kHz, 8 ch SDI: Linear PCM, 24 bits, 48 kHz, 16 ch (SMPTE 299 M)
Audio Functions	Input/Output Level Patchbay Delay (Up to 3 seconds) Test Tone Generator

CONNECTORS	
Video Input Connectors	HDMI IN: HDMI type A (HDMI 2.0) SDI IN: BNC type (SMPTE ST2082, 2081, 424M(SMPTE 425M-AB), 292M)
Video Output Connectors	HDMI OUT/THRU 1, 2: HDMI type A x 2 (HDMI 2.0) SDI OUT/THRU 1, 2: BNC type x 2 (SMPTE ST2082, 2081, 424M(SMPTE 425M-AB), 292M)
Audio Input Connectors	Analog: AUDIO IN L/R: XLR type Digital: HDMI IN: HDMI type A, SDI IN: BNC type
Audio Output Connectors	Analog: AUDIO OUT L/R: XLR type Digital: HDMI OUT 1-2: HDMI type A x 2, SDI OUT 1-2: BNC type x 2
Other Connectors	USB MEMORY: USB A (for USB flash drive) USB CONTROL: USB Type-C (R) (for remote control from PC and Smartphone) REF IN: BNC type * Black Burst (Sync to frames), Bi-Level, Tri-Level
AUDIO INPUT/OUTPUT CHARACTERISTICS	
Input Level	AUDIO IN: +4 dBu (Maximum: +24 dBu)
Input Impedance	AUDIO IN: 20 k ohms
Output Impedance	AUDIO OUT: +4 dBu (Maximum: +24 dBu)
Output Level	AUDIO OUT: 600 ohms
OTHERS	
Functions	EDID Emulator, Genlock
Display	Graphic LCD 256 x 64 dots
Power Supply	AC Adaptor, External power supply (12-16 V)
Current Draw	4 A
Power Consumption	48 W
Operation Temperature	+0 to +40 degrees Celsius +32 to +104 degrees Fahrenheit
Dimensions	136 (W) x 172 (D) x 42 (H) mm 5--11/32 (W) x 6--3/4 (D) x 16--5/8 (H) inches
Weight (excl. Acc.)	710 g, 1 lbs 9 oz
Accessories	Startup Guide, Leaflet "USING THE UNIT SAFELY", AC adaptor (PSB-7U), Power cord, Rubber foot x 4, Spacer

* This product is a Class A digital device under FCC part 15.
* The terms HDMI, HDMI High-Definition Multimedia Interface, HDMI Trade dress and the HDMI Logos are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.

* 0 dBu = 0.775 Vrms



Dynamic light shows — no operator needed

- Automatically generates dynamic lighting effects to enhance any event
- Real-time analysis and lightning-fast processing with advanced Roland technology
- Analog audio also supported with stereo I/O
- Customize DMX settings with dedicated software for macOS and Windows
- Outputs a DMX signal synchronized with incoming video and audio signals
- Connect your A/V source to the HDMI input for analysis and distribute the unprocessed signal to a monitor or switcher via HDMI thru
- Supports external MIDI control via dedicated MIDI input and USB MIDI
- Select channel maps for various DMX lighting fixtures with dip switches on the side panel



VERSION 2.0 EXPANDED AUDIO FREQUENCY CONTROL

The VC-1-DMX Version 2.0 update brings powerful enhancements for more lighting control. A new audio filter with 15 fully adjustable bands provides deeper, more detailed sound control for a DMX lighting rig. And the VC-1-DMX can now be used with just an analog audio source, making it even easier to create light shows that dance to the incoming music.

SPECIFICATIONS VC-1-DMX

VIDEO	
Input Connectors	HDMI IN connector : HDMI type A * Multi-format Supported * HDCP Supported
Output Connectors	HDMI THRU connector : HDMI type A
Video Formats	480/59.94i, 576/50i, 480/59.94p, 576/50p, 720/59.94p, 720/50p, 1080/59.94i, 1080/50i, 1080/59.94p, 1080/50p, VGA (640 x 480/60 Hz), SVGA (800 x 600/60 Hz), XGA (1024 x 768/60 Hz), HD (1280 x 720/60 Hz), WXGA (1280 x 800/60 Hz), SXGA (1280 x 1024/60 Hz), FWXGA (1366 x 768/60 Hz), SXGA+ (1400 x 1050/60 Hz), UXGA (1600 x 1200/60 Hz), FHD (1920 x 1080/60 Hz) * The refresh rate is the maximum value of each resolution. * Conforms to CEA-861-E, VESA DMT Version 1.0 Revision 11.
AUDIO	
Input Connectors	AUDIO IN jacks: RCA phono type, HDMI IN connector : HDMI type A
Output Connectors	AUDIO OUT jacks: RCA phono type, HDMI THRU connector: HDMI type A
Digital Audio Format	Linear PCM, 48 kHz, 24 bits, stereo
Audio Processing	Sample rate: 48 kHz, 24 bits
Nominal Input Level	AUDIO IN jacks: -10 dBu (Maximum input level: +8 dBu)
Nominal Output Level	AUDIO OUT jacks: -10 dBu (Maximum input level: +8 dBu)
Input Impedance	AUDIO IN jacks: 15 k ohms
Output Impedance	AUDIO OUT jacks: 1 k ohms

DMX	
Output Connectors	DMX OUT 3 pin jack : XLR type (3 pins) DMX OUT 5 pin jack : XLR type (5 pins)
DMX channel	512 channels (1 universe)
OTHERS	
Control Terminal	MIDI IN jack, USB port
Switches	SETTING switch: 8 terminals
Indicator	POWER indicator
Functions	Video Synchronized Lighting Control, Audio Synchronized Lighting Control, MIDI Synchronized Lighting Control, Lighting Speed Control, HDMI Audio De-embedder
Power Supply	AC Adaptor
Current Draw	1,000 mA
Current Consumption	5.7 W
Operation Temperature	+0 to +40 degrees Celsius, +32 to +104 degrees Fahrenheit
Dimensions	180 (W) x 115 (D) x 41 (H) mm, 7-1/8 (W) x 4-9/16 (D) x 1-5/8 (H) inches
Weight (excl. AC adaptor)	570 g, 1 lb 5 oz
Accessories	Leaflet, Owner's Manual, AC Adaptor, Plug Holder, Rubber Feet

* 0 dBu=0.775 Vrms



Plug-and-play for flawless recordings and livestreams

- High-quality HDMI to USB 3.0 video encoder
- Plug-and-play USB webcam operation for Mac and Windows computers
- Seamlessly works with all Roland V-series switchers with an HDMI output
- Also works with most HDMI-equipped cameras and camcorders
- Uncompressed 1080p HD at 60 FPS for engaging livestreams
- Dedicated analog audio line input for live music versatility
- Powered via USB



For online content creators, musicians, and gamers to businesses, schools, and houses of worship, livestreaming is an essential medium for communicating with people around the world. With the UVC-01, it's never been easier to add high-quality livestreaming capabilities to your Roland V-series video switcher or favorite HDMI-equipped camera or camcorder. Just connect to the UVC-01 via HDMI, plug into your computer's USB 3.0 port, and start streaming to Facebook Live, YouTube, and other popular platforms. Offering plug-and-play operation in a rugged, pocket-size design, the UVC-01 is ready for action everywhere you go.

SPECIFICATIONS UVC-01

VIDEO	
Input Connectors	HDMI IN connector: HDMI type A * Multi-format Supported * HDCP Not Supported
Output Connectors	USB STREAM port: USB 3.0 B type
Input Formats	480/59.94i, 576/50i, 480/59.94p, 576/50p, 720/59.94p, 720/50p, 1080/59.94i, 1080/50i, 1080/59.94p, 1080/50p, VGA (640 x 480/60 Hz), SVGA (800 x 600/60 Hz), XGA (1024 x 768/60 Hz), HD (1280 x 720/60 Hz), WXGA (1280 x 800/60 Hz), SXGA (1280 x 1024/60 Hz), FWXGA (1366 x 768/60 Hz), SXGA+ (1400 x 1050/60 Hz), UXGA (1600 x 1200/60 Hz), FHD (1920 x 1080/60 Hz) * The refresh rate is the maximum value of each resolution. * Conforms to VESA DMT Version 1.0 Revision 11.
USB Video Output Format	YUY2 (Uncompressed)
USB Video Output Resolution	1920 x 1200, 1920 x 1080, 1680 x 1050, 1600 x 1200, 1600 x 900, 1440 x 900, 1366 x 768, 1360 x 768, 1280 x 1024, 1280 x 960, 1280 x 800, 1280 x 720, 1152 x 864, 1024 x 768, 1024 x 576, 960 x 540, 856 x 480, 800 x 600, 768 x 576, 720 x 576, 720 x 480, 640 x 480, 640 x 360, 320 x 240 * The maximum frame rate is 60 fps.

* 0 dBu=0.775 Vrms

AUDIO	
Audio formats	HDMI IN connector: Linear PCM, 48 kHz / 44.1 kHz, 24 bits / 20 bits / 16 bits, stereo USB STREAM port: Linear PCM, 48 kHz, 16 bits, stereo
Input Connectors	HDMI IN connector: HDMI type A AUX IN jack: Stereo miniature phone type
Output Connectors	USB STREAM port: USB 3.0 B type
Nominal Input Level	AUX IN jack: -10 dBu (Maximum input level: +8 dBu)
Input Impedance	AUX IN jack: 10 k ohms
OTHERS	
Power Supply	Supplied from the computer via USB
Current Draw	500 mA
Operation Temperature	+0 to +40 degrees Celsius, +32 to +104 degrees Fahrenheit
Dimensions	90 (W) x 37 (D) x 23 (H) mm 3-9/16 (W) x 1-1/2 (D) x 15/16 (H) inches
Weight (excluding AC adaptor)	96 g, 4 oz
Accessories	Owner's Manual, USB 3.0 Cable



Look and sound your best in video meetings and presentations

- Convenient and affordable desktop docking station to upgrade your business streaming with pro-level audio and video
- Inputs for a DSLR or other high-quality camera, an XLR microphone, and stereo audio sources
- HDMI video input supports embedded sound and features automatic scaling for different video resolutions
- Studio-grade sound with Roland's acclaimed digital audio technology
- Plug and play operation—automatically appears as a webcam and audio source in your favorite streaming software
- Enhance your streams with professional audio processing, sound effects, and the unique Voice Change effect
- Hands-on control of volume levels plus audio and video muting
- Assignable buttons for customizable control, configurable with free UVC-02 software for macOS and Windows

Video streaming for business and pleasure has become a regular part of life. But you'll never look and sound your best with the webcam and microphone in your average computer. The Roland UVC-02 Web Presentation Dock helps you bridge the gap, providing a simple and affordable way to level up your video presentations with higher quality audio/visual gear and more control.



Present with confidence

The UVC-02 is a compact broadcast control center that fits comfortably on your desktop. It allows you to connect a high-quality HDMI camera, pro microphone, and other audio sources and send them directly to meeting and streaming platforms on your computer via a single USB cable. And with an array of hands-on knobs and switches at your fingertips, you can easily control the action without ever touching your mouse or computer keyboard.



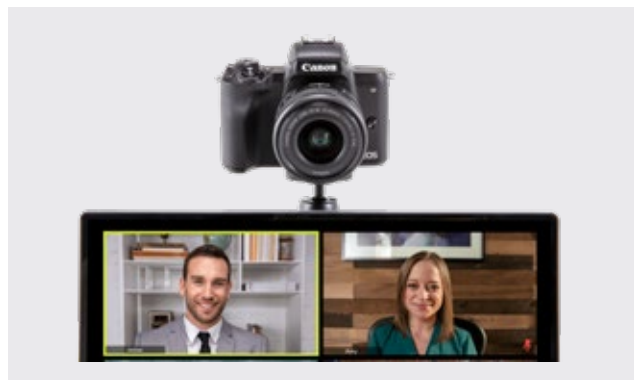
Plug in and play

Once connected to your computer via USB, the UVC-02 is instantly recognized as a webcam and audio source, with no drivers or set up required. That means it's ready to go with popular web meeting software such as Zoom, Microsoft Teams, Webex by Cisco, or any application that uses a webcam as an A/V source for streaming or recording.



Love the sound of your voice

Just like a broadcast studio, the UVC-02 includes a pro-quality equalizer and audio effects to make your voice sound great. Convenient templates are included to get you started, complete with easy controls to tweak the sound until it's just right.



The ultimate webcam upgrade

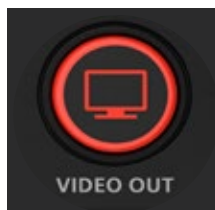
Connect just about any HDMI-compatible camera and instantly elevate the image quality over your built-in or USB webcam. Many standalone cameras offer HDMI output, from action and point-and-shoot cameras to higher-grade mirrorless and DSLR models. They have much better lenses than any webcam and often include zoom capability to frame your perfect shot.



Superior image quality



Fast, no-fuss setup



Now you see me, now you don't



Get ready to sound great

There's nothing worse than bad audio quality in an online meeting. The UVC-02 ensures your sound starts off strong and stays that way. With a tiny studio-grade mixer and four inputs backed by Roland's pro audio technology, you have a whole new range of sonic superpowers at your command.

Works with professional mics

Pro broadcast and recording studios choose a specific microphone to get the best out of a performer's voice. Now, you can choose the mic type that's right for you and connect it via the XLR input on the UVC-02. Phantom power is also available, allowing you to use a studio-grade condenser mic for the very best sound quality.

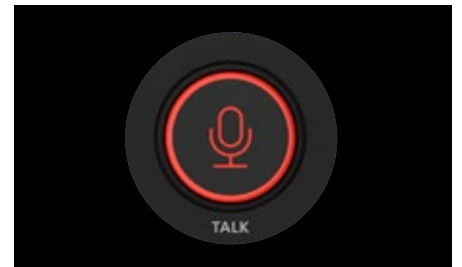


Sound monitoring made simple

The UVC-02 has a dedicated headphones jack, as well as a stereo monitor output for connecting to external speakers or a recorder. And both have dedicated panel knobs that allow you to reach out and control the listening level with a quick twist. The headphones jack also supports the inline mic on a standard set of earbuds, and there's a dedicated level knob for this as well.

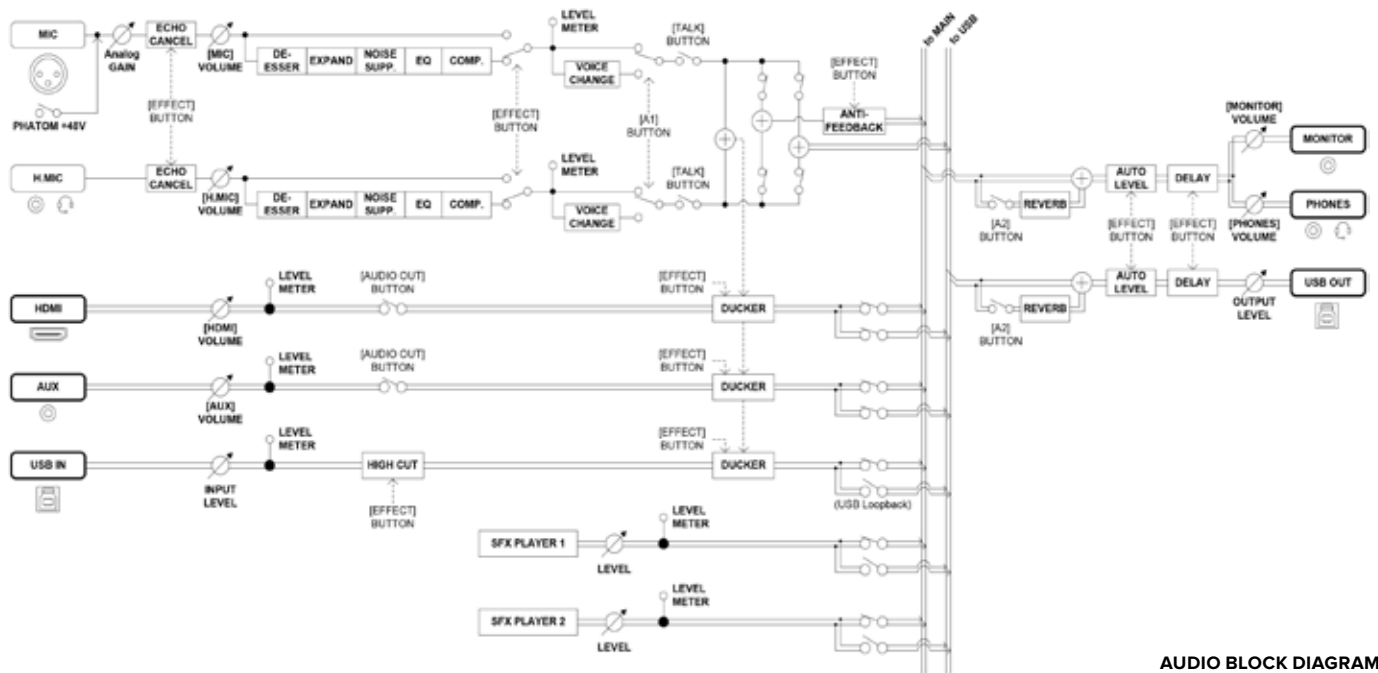
One-touch audio mute

Don't scramble for the un-mute switch in your software as everyone chants, "You're on mute." Just press the large Talk button to instantly turn your audio on or off. And with the button's bright backlight, you'll always know when your sound is live.

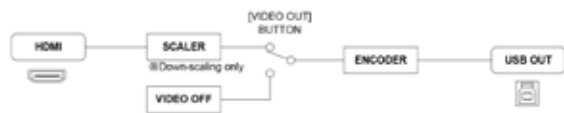


Customizable control

Streamline your sessions even further with dedicated UVC-02 software for macOS and Windows. Choose two functions that you use most often—such as PowerPoint slide advance* or a sound effect trigger—and assign them to the A1 and A2 buttons for one-touch operation.



AUDIO BLOCK DIAGRAM



VIDEO BLOCK DIAGRAM

SPECIFICATIONS **UVC-02**

VIDEO	
Input Connectors	HDMI IN: HDMI type A * HDCP not Supported * Multi-format Supported
Input Formats	480/59.94p, 576/50p, 720/59.94p, 720/50p, 1080/29.97p, 1080/25p, 1080/59.94p, 1080/50p, SVGA (800 x 600) 60 Hz / 75 Hz, XGA (1024 x 768) 60 Hz / 75 Hz, WXGA (1280 x 800) 60 Hz / 75 Hz, HD (1280 x 720) 60 Hz / 75 Hz, SXGA (1280 x 1024) 60 Hz / 75 Hz, FWXGA (1366 x 768) 60 Hz / 75 Hz, SXGA+ (1400 x 1050) 60 Hz / 75 Hz, UXGA (1600 x 1200) 60 Hz, FHD (1920 x 1080) 60 Hz * The refresh rate is the maximum value of each resolution. * Conforms to CEA-861-E, VESA DMT Version 1.0 Revision 11.
Output Connectors	USB STREAM : USB 3.0 Type-B
USB Video Output Format	YUY2 (Uncompressed), Motion JPEG (Compressed)
USB Video Output Resolution	1920 x 1080, 1280 x 720, 640 x 480 * Maximum frame rate is 60 fps.

AUDIO	
Audio Processing	Sample Rate 48 kHz, 24 bits
Analog Connectors	MIC: XLR type (Balanced, Phantom power DC 48V, 14 mA Max) HEADSET: Stereo miniature phone type (CTIA, PLUG-IN power) AUX IN: Stereo miniature phone type MONITOR OUT: Stereo miniature phone type
Digital Connectors	HDMI IN: HDMI Type A USB STREAM: USB 3.0 Type-B
Nominal Input Level	MIC IN: -54 to -14 dBu (Maximum input level : +4 dBu) HEADSET: -20 dBu (Maximum input level : -2 dBu) AUX IN: -10 dBu (Maximum input level : +8 dBu)
Nominal Output Level	MONITOR OUT: -10 dBu HEADSET: 9 mW + 9 mW (32 ohms load)
Input Impedance	MIC IN: 5.8 k ohms, AUX IN: 10 k ohms HEADSET: 1 k ohms
Output Impedance	MONITOR OUT: 1 k ohms HEADSET: 22 ohms
Digital Audio Format	HDMI IN: Linear PCM, 48 kHz / 44.1 kHz, 24 / 20 / 16 bits, Stereo USB STREAM: Linear PCM, 48 kHz, 16 bits, Stereo
Audio Effects	Anti-Feedback, Echo Canceller, Ducker, Voice Changer, Reverb, Noise Suppressor, Equalizer, Expander, Compressor, Delay
Audio File Player	Number of tracks: 2, Data Formats : WAV (Linear PCM, 48 kHz, 16 bits, stereo / mono) Maximum Time: 5 seconds / track

COMMON	
Other functions	MIC Mute (TALK button), Audio Mute (AUDIO OUT button), Slideshow Control
Power Supply	Supplied from the computer via USB
Current Draw	900 mA (4.5 W)
Operation Temperature	+0 to +40 degrees Celsius, +32 to +104 degrees Fahrenheit
Dimensions	124 (W) x 117 (D) x 52 (H) mm 4-15/16 (W) x 4-5/8 (D) x 2-1/16 (H) inches
Weight	460 g, 1 lb 0.3 oz (excluding AC adaptor)
Accessories	Leaflet "Read Me First", USB 3.0 Cable

* 0 dBu=0.775 Vrms

SDI CABLES

BLACK SERIES SDI CABLE



SDI cable designed to transmit high-speed digital signals precisely

SDI cable, 1 m length. Also available in 2 m (RCC-6-SDI), 3 m (RCC-10-SDI), 5 m (RCC-16-SDI), 7.5 m (RCC-25-SDI), 15 m (RCC-50-SDI), 30 m (RCC-100-SDI), and 60 m (RCC-200-SDI) lengths

CB-BV1

CARRYING BAG



The perfect accessory for your Roland V-1HD or V-1SDI Video Switcher

For Roland V-1HD or V-1SDI Video Switcher, durable exterior materials, fleece interior and foam padding, interior/exterior: black 600D polyester and ripstop nylon

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