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. In 2018, we celebrated our twentieth anniversary in video, and today have a varied and ever-growing product portfolio.

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-HD matrix switchers that connect and switch multiple sources, 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 the Roland Corporation celebrates it’s 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.
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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?

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.

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.
The right I/O for your show

The V-600UHD has four HDMI 2.0 and two 12G/3G inputs, perfect for events needing several computer and video playback sources. Complete with built-in 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. Any destination switching makes it easy to include downstage 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 or outputting to streaming encoders or other HD-equipped destination displays.

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, Avian, and VCSA compatible professional pan-tilt-zoom (PTZ) robotic cameras to streamline workflow without needing a dedicated controller.

SPECIFICATIONS V-600UHD

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 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.

With the free Ver 2.0 update, V-600UHD transforms into a powerful single-operator production switcher. “Automatic ROI” is all in one control for a variety of LAN based PTZ cameras from multiple manufacturers.

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 built-in 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. Any destination switching makes it easy to include downstage 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 or outputting to streaming encoders or other HD-equipped destination displays.
A comprehensive and flexible multi-format video switcher giving you complete control of video sources, key layers and mixing engine configurations. The V-1200HD introduces a unique hybrid engine with 4:2:2 broadcast switcher and 4:4:4 live event switcher. In addition to powerful video capabilities, the V-1200HD also has a built-in 16-channel audio mixer.

Hybrid engine 2 M/E switcher and processor for broadcast and live events

- 10 SDI and 4 HDMI inputs, and 6 SDI and 2 HDMI outputs
- 4:2:2/4:4:4 hybrid engine
- The 4:2:2 process functions as a 2 M/E switcher that is able to switch 2 M/E, 15 M/E, and 1 M/E
- The 4:4:4 process functions as a multi-format processor that supports live presentation, split-screen, and matrix output
- Up to 92 inputs/outputs 16-channel audio mixer
- Control of up to 7 remote cameras
- Optional control surface V-1200HDR with a T-fader and dual displays
- All switcher functions can be operated from a computer using remote control software, V-1200HD RCS (for Windows and Mac OSX, free download)
- Input/output expandable via expansion slots
4:4:4 multi-format processor

There are two scalers between the 4:2:2 engine and the 4:4:4 engine, and two scalers between HDMI IN 3 and 4 and the 4:4:4 engine. With the scalers you can also process 4:4:4 process, which means if you choose the latter, two M/E's can also be output independently allowing for applications such as simultaneous transmission of captions in two different languages.

**SPECIFICATIONS V-1200HD**

**INPUT/OUTPUT CONNECTORS**

- **Input Connectors**:
  - Video: 4 × CVBS IN, 4 × DVI-I (HDCP), 2 × HDMI IN (HDCP)
  - Audio: 4 × Audio IN, 4 × Audio OUT, 1 × Audio IN, 1 × Audio OUT
- **Output Connectors**:
  - Video: 2 × HDMI OUT, 1 × SDI OUT (SMPTE 292M-1080/59.94p), 2 × 3G/HD/SD-SDI OUT (SMPTE 292M/274M)
  - Audio: 4 × Audio OUT (XLR) L (1/2), R (3/4)

**PROCESSING**

- **Input Connectors**:
  - Video: 4 × Video IN, 4 × DVI-I (HDCP), 2 × HDMI IN (HDCP)
  - Audio: 4 × Audio IN, 4 × Audio OUT, 1 × Audio IN, 1 × Audio OUT
- **Output Connectors**:
  - Video: 2 × HDMI OUT, 1 × SDI OUT (SMPTE 292M-1080/59.94p), 2 × 3G/HD/SD-SDI OUT (SMPTE 292M/274M)
  - Audio: 4 × Audio OUT (XLR) L (1/2), R (3/4)

**USER FUNCTION**

- **M/E**: 2 (M/E), Matrix, Scaler
- **Video**: 2 (Video), Matrix, Scaler
- **Audio**: 2 (Audio) D-Sub 9-pin type (Male) for Remote Control
- **Remote Camera Control**: RS-232: D-Sub 9-pin type (Female) x 1 * For Remote Control
- **LAN**: RJ45 100Base-TX (Connect to V-1200HDR or Computer)
- **BNC**: 2 (Custom BNC Connector x 1)

**REMOTE CONTROLLER**

- **Power Supply**: DC 24 V (XLR-4-32 type) * Redundant Power Supply
- **Dimensions**: 520 (W) x 237 (D) x 111 (H) mm, 20-1/2 (W) x 9-3/8 (D) x 4-3/8 (H) inches

**V-1200HDR**

A dedicated V-DIOCR-D controller provides fast and accurate operation. Dual touch monitors provide quick and easy operation. All the functionality required for operation of a high-end switcher in an efficient compact size.

**SPECIFICATIONS V-1200HDR**

- **Display**: 7 inch 800 x 480 Graphic color LCD (touch screen) x 2
- **Video Input**: HDMI Type A x 2 * 1920 x 1080/60p, HDCP Supported
- **Video Output**: HDMI Type A x 2 (HDMI OUTPUT 1–2) * HDCP Supported
- **Others**: 36 W
- **Power Supply**: 110 VAC 50/60Hz or 220 VAC 50/60Hz

**EXPANSION CARDS**

- **V-1200HDR DEDICATED CONTROL SURFACE FOR THE V-1200HD**

- **DIGITAL Audio Interface**
  - DANTE expansion interface
    - DANTE audio interface
      - Connect 16 input channels and 16 output channels to the internal audio processor

**Digitally operating multi-viewer**

**Input/Output Connectors**

- **Input Connectors**:
  - Video: 4 × Video IN, 4 × DVI-I (HDCP), 2 × HDMI IN (HDCP)
  - Audio: 4 × Audio IN, 4 × Audio OUT, 1 × Audio IN, 1 × Audio OUT
- **Output Connectors**:
  - Video: 2 × HDMI OUT, 1 × SDI OUT (SMPTE 292M-1080/59.94p), 2 × 3G/HD/SD-SDI OUT (SMPTE 292M/274M)
  - Audio: 4 × Audio OUT (XLR) L (1/2), R (3/4)

**User Function**

- **M/E**: 2 (M/E), Matrix, Scaler
- **Video**: 2 (Video), Matrix, Scaler
- **Audio**: 2 (Audio) D-Sub 9-pin type (Male) for Remote Control
- **LAN**: RJ45 100Base-TX (Connect to V-1200HDR or Computer)

**Remote Control**

- **Power Supply**: DC 24 V (XLR-4-32 type) * Redundant Power Supply

**Dimensions**: 320 (H) x 270 (W) x 150 (D) mm, 12.6 (H) x 10.6 (W) x 5.9 (D) inches

**Power Supply**: 110 VAC 50/60Hz or 220 VAC 50/60Hz

**Power Consumption**: 36 W

**Power Supply**: 110 VAC 50/60Hz or 220 VAC 50/60Hz

**Power Consumption**: 36 W

**Accessories**

- **User Manual**
- **Power Cord, Rubber Feet**
- **Power Cord, Rubber Feet**
- **Power Cord, Rubber Feet**
**V-800HD MK II**

**MULTI-FORMAT VIDEO SWITCHER**

- **4:4:4/10-bit internal processing**
  - The V-800HD MK II uses 4:4:4/10-bit internal signal processing. This lets you achieve compositing and output with no reduction in high-detail RGB signals driven from a computer. The result is a sharp, unblurred display of video and text, even on large screens and LED displays. The V-800HD MK II delivers high image quality for all uses, from live broadcasts to event displays.

- **Newly developed key-compositing engine**
  - Along with the upgraded internal signal processing, a newly developed keyer is included. Chroma Key lets you adjust phase range, amount of chroma, and other parameters based on HSV color space that is closely related to human chromatic sensation. This allows you to achieve high quality and tight chroma key compositing even when using 1080p video sources. What’s more, the V-800HD MK II can accept an External Key.

**Updated version of the industry-standard multi-format video switcher**

- Up to 16 inputs, 8 cross points (4 SDI/composite + 4 DVI-HDMI)
- 6 simultaneous outputs (2 SDI + 2 DVI + RGB + composite)
- Dedicated multi-view monitor output
- 10-bit 4:4:4 high quality processing
- Frame sync & scaler on all inputs and outputs
- 3G, HD, SD 3-mode SDI (3G-SDI Level A/B compatible)
- Frame sync & scaler on all inputs and outputs
- Supports 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
- SDI and Composite input can input the same frame rate as a setup menu setting.

**INPUT/OUTPUT LEVEL AND IMPEDANCE**

- Video: 0.7Vp-p 75Ω (H, V:5 VTTL)
- Analog HD/RGB: 1.0Vp-p 75Ω
- Composite: 1.0Vp-p 75Ω
- DVI-D: 0.7Vp-p 75Ω
- DVI-A: 0.7Vp-p 75Ω

**SPECIFICATIONS V-800HD MK II**

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<th>INPUT/OUTPUT LEVEL AND IMPEDANCE</th>
<th>SUPPORTED FORMAT</th>
<th>DATA</th>
<th>REFERENCE IN</th>
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<tr>
<td>Video</td>
<td>1080p at 50/59.94</td>
<td>RGBY</td>
<td>External only</td>
</tr>
<tr>
<td>Analog HD/RGB</td>
<td>0.7Vp-p 50/60 Hz</td>
<td>Y, V</td>
<td>Reference</td>
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**OTHER CONNECTORS**

- **Power Supply:** AC 115 V, AC 117 V, AC 220 V, AC 230 V, AC 240 V
- **Power Consumption:** 75W
- **Dimensions:** 561 x 261 x 305 mm (W, D, H: 22 x 10-7/8 x 12-1/8 inches)
- **Weight:** 5.5kg
- **Operating Temp.:** 5 to 40°C degrees Celsius, 10% to 80% (non-condensing)

**Accessories:** Owner's Manual, Power cord, Rack-mount angle x 2

**Diagram:**

- **OUTPUT CONNECTORS**
  - Video: Component (RGB/COMPONENT)
  - Audio: 2 RCA (L/R)
  - SDI: 2 BNC (IN, OUT/THRU)
  - USB port (host)
  - OPTICAL OUT
  - PROFITS
  - RS-232C/RS-422

- **EFFECTS**
  - Mix, Cut, Wipe (9 patterns)

- **OTHERS**
  - Output Freeze, Output Fade

**Supporting formats:**

- 480/59.94i, 576/50i, 480/59.94p, 576/50p, 720/59.94p, 720/50p, 720/59.94p, 720/50p
- 1080/59.94i, 1080/50i, 1080/59.94p, 1080/50p

**Specification table:**

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<td>RGB/COMPONENT</td>
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**Video processing:**

- **INPUT 10**
- **INPUT 9**
- **INPUT 8**
- **INPUT 7**
- **INPUT 6**
- **INPUT 5**
- **INPUT 4**
- **INPUT 3**
- **INPUT 1**

**Input/Output Connectors:**

- **INPUT CONNECTORS**
  - Video: 4 BNC (IN, OUT, THRU)
  - Analog HD/RGB: 2 BNC (IN, OUT/THRU)
  - Component (Mini D-sub 15-pin type) x 4
  - DVI-I/HDMI: 2 BNC (IN, OUT/THRU)
  - SDI: 2 BNC (IN, OUT/THRU)

- **OUTPUT CONNECTORS**
  - Video: Component (RGB/COMPONENT)
  - Audio: 2 RCA (L/R)
  - SDI: 2 BNC (IN, OUT/THRU)
  - USB port (host)
  - OPTICAL OUT
  - PROFITS
  - RS-232C/RS-422

- **EFFECTS**
  - Mix, Cut, Wipe (9 patterns)

- **OTHERS**
  - Output Freeze, Output fade

**Updated version of the industry-standard multi-format video switcher**

- Frame sync & scaler on all inputs and outputs
- 3G, HD, SD 3-mode SDI (3G-SDI Level A/B compatible)
- HDCP compatible
- Two active still images from sixteen still image stores
- AUX bus switch

**Diagram:**

- **Input/Output level and impedance**
  - Composite: 1.0Vp-p 75Ω
  - Analog HD/RGB: 1.0Vp-p 75Ω
  - Composite: 1.0Vp-p 75Ω

**Updated version of the industry-standard multi-format video switcher**

- 10-bit 4:4:4 high quality processing
- 6 simultaneous outputs (2 SDI + 2 DVI + RGB + composite)
- Dedicated multi-view monitor output
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- 3G, HD, SD 3-mode SDI (3G-SDI Level A/B compatible)
- HDCP compatible
- Two active still images from sixteen still image stores
- AUX bus switch
Plug-and-play production switcher with audio for live events and streaming

- 4 SDI inputs (with de-interlacer)
- 2 HDMI inputs (scaled)
- 1 RGB shared with HDMI input 6 (scaled)
- 2 SDI outputs – assignable to PGM, PVW, AUX
- 2 HDMI outputs – assignable to PGM, PVW, AUX
- 1 multiview output – program, preview, plus 8 video sources with audio meters
- LAN – remote control and Smart Tally
- RS-232 – remote control
- USB Port – still Image upload, saving program files

Live production

Corporate event production is the fastest growing live event space with companies hosting meetings, trainings, new product announcements, both in person and streaming. The V-60HD is portable and small enough to be used in multiple locations in an office or outside. The four SDI inputs and two HDMI inputs are perfect for switching cameras and computers at the same time for dynamic presentations. Not all cameras support full 1080p so the de-interlacer on the SDI inputs allows you to mix and match 1080i and 1080p SDI video sources without external converters. Audio is easier to mix than ever before using the V-60HD’s auto mixing function.

Education

Video communication helps improve the effectiveness of education when used for streaming lectures, assemblies, distance learning, sports, live performances or theater productions. Multiple destination outputs include Program, Preview and AUX buses and make it easy to send the main output to the primary screen or live stream and presenter notes to a presenter’s monitor. Audio auto-mixing automatically adjusts audio level based on weighting ensuring even levels for the room mix, presenter to send to recording, live stream or in-room speakers. Educators can use the multi-channel audio embed function to record 8 discreet audio channels to an SDI video recorder to fix audio issues in later editing or separate multi-language audio sources post event.

Church/theater

The V-60HD is ideal for multiscreen environments usually found in churches, conference centers, hotels, and trade show facilities where different content needs to be switched to independent screens. The dedicated Aux buttons make switching to a second destination as easy as switching to the main screen. The wireless tally system for iOS and Android devices makes for smoother events by providing tally that helps talent and camera operators identify which camera is currently selected for program and which camera will be switched to next. Auto-Scan (Ver.2.0), integrated audio inputs and advanced effects including Auto-Mixing and powerful dynamics make the V-60HD an ideal streaming mixer solution to remix stems from an audio console and adjust for broadcast.

SYSTEM PROGRAM VER 3.0

The V-60HD can capture stills directly from PGM. Additional frame-rate support on SDI inputs includes 60p, 30p, 25p, 24p and 23.98p. Take control of even more PTZ cameras over IP using universal VISCA protocols. Analog Audio input 1-6 can be assignable to AUX output.

Roland’s unique and proprietary wireless tally system called Smart Tally uses a wireless LAN router connected to the V-60HD to send tally information to iOS or Android devices on the network.
Multi-view output

V-60HD can preview all six video inputs and two still images, PGM and PVW to a single preview monitor via the Multi-view output. In addition, you can display the menu on the Multi-view display, so you may make setting changes without changing your focus from the preview display. From Ver 2.0, exchanging PGM and PVW window and editing label name of NT to 6 are possible.

AUX bus

Live streams, HD recording, and confidence monitors often have different visual needs from the main program output. Switch any of the connected inputs to any of the SDI or HDMI outputs without affecting the main PGM destination. AUX Linked PGM enables AUX output to synchronize with the Program (PGM) output.

Discrete multi-channel audio embedding

Assign up to eight analog audio inputs a separate audio embed channel on SDI1 and 2 outputs to ensure a separate mix pre-effect (dry) or post-effect (wet) for correcting audio problems post live event. This feature is additionally useful for multi-language events to record the voice-over or language translation on its own audio channel to a separate master.

**SPECIFICATIONS V-60HD**

**VIDEO**

**Audio Processing**

Sampling-rate: 24kHz/48kHz

**Audio Formats**

Digital: 32-bit, PCM 32/64/128 kHz, 2/4 ch (Conforms to SMPTE 274M)

**Input Connectors**

SDI IN 1–2: BNC type x 2

**Input Level**

-60--+4 dBu (Maximum: +22 dBu)

**Output Connectors**

SDI OUT 1–2: BNC type x 2

**Output Level**

-60--+4 dBu (Maximum: +22 dBu)

**Input Formats**

HDMI IN: 1920 x 1080/50p, 1080/59.94p, 1080/50i, 1080/59.94i, 720/50p, 720/59.94p, 720/60p, 1280 x 720/50p, 1280 x 720/50i, 1280 x 720/60p

**Output Formats**

HDMI OUT: 1920 x 1080/50p, 1080/59.94p, 1080/50i, 1080/59.94i, 720/50p, 720/59.94p, 720/60p, 1280 x 720/50p, 1280 x 720/50i, 1280 x 720/60p

**Others**

-80 dBm (10% THD+N @ 1kHz)

**Power Supply**

120 V (AC) 60 Hz

**Weight (Net Weight)**

3.0 kg, 6 lbs 10 oz

**Dimensions**

480 x 351 x 72 mm

**Accessories**

Owner’s Manual, AC adapter, Power cord
## V-1HD

**HD VIDEO SWITCHER VER 2.0**

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

### SYSTEM PROGRAM VER 2.0

System Program Version 2.0 is a free update for the popular V-1HD HDMI video switcher including the companion Remote Control Software version 2.0 for Windows & macOS. Version 2.0 expands picture-in-picture effects with a new 1/3 sizing option. Turn on Auto Scan for hands-free switching. Numerous user interface improvements include the ability to view audio level meters on the multi-viewer, panel lock, and quickly reset system values by holding the WIPE button.

### SPECIFICATIONS V-1HD

#### VIDEO

<table>
<thead>
<tr>
<th>Processing</th>
<th>4 x 2 (2 x 2) Switching &amp; Cut</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Connectors</td>
<td>HDMI INPUT 1–4 (Type A 19-pin)</td>
</tr>
<tr>
<td>Output Connectors</td>
<td>HDMI OUTPUT 1–2 (Type A 19-pin)</td>
</tr>
<tr>
<td>Input Formats</td>
<td>4:2:2 (Y/Pb/Pr), 8-bit</td>
</tr>
<tr>
<td>Output Formats</td>
<td>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)</td>
</tr>
<tr>
<td>Effects</td>
<td>Transition: CUT, MIX (DISSOLVE/FAM/NAM/MOSAIC), WIPE (30 types), TRANSFORMER (11 types)</td>
</tr>
<tr>
<td>Other Functions</td>
<td>MEMORY (8 types), FREEZE (input video captured), BPM SYNC (auto transition synchronized to tempo), OUTPUT FADE (WHITE/BLACK)</td>
</tr>
</tbody>
</table>

#### AUDIO

<table>
<thead>
<tr>
<th>Processing</th>
<th>Sampling rate: 24 bits/48 kHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Connectors</td>
<td>SDI INPUT 1–3 (BNC) x 3, 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)</td>
</tr>
<tr>
<td>Output Connectors</td>
<td>AUDIO OUT (RCA pin type), PHONES (Stereo mini type)</td>
</tr>
<tr>
<td>Input Impedance</td>
<td>AUDIO IN: 15 k ohms, MIC: 10 k ohms</td>
</tr>
<tr>
<td>Output Level</td>
<td>AUDIO OUT: -10 dBu (Maximum: +8 dBu), PHONES: 72 mW + 72 mW (32 ohms)</td>
</tr>
<tr>
<td>Output Impedance</td>
<td>AUDIO OUT: 1 k ohms, PHONES: 10 ohms</td>
</tr>
<tr>
<td>Effects</td>
<td>EQ, Delay, Compressor, HPF, Gate, Reverb, Mastering effect</td>
</tr>
</tbody>
</table>

#### OTHERS

| Dimensions | 313 (W) x 102 (D) x 59 (H) mm, 12-1/3 (W) x 4 (D) x 2-1/3 (H) inches |
| Power Supply | AC Adapter |
| Current Draw | 1.5 A |
| Power Consumption | 18 W |
| Operating Temp. | +0 to +40 degrees Celsius, +32 to +104 degrees Fahrenheit |
| Weight | 1.2 kg (excluding AC adaptor), 2 lbs 10-2/5 oz |

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**Accessories**

- Owner's Manual, AC Adaptor, Power Cord, Carrying Case
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### AUDIO BLOCK DIAGRAM

#### VIDEO BLOCK DIAGRAM
V-1HD+ HD VIDEO SWITCHER

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.

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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 lav 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.

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Say goodbye to workflow workarounds

While many video switchers promise easy workflows, they often require workarounds for optimum results. Too often, these 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, quick-action buttons for the most commonly used operations. With Pro operation made easy tools you need to get the job done right.

Four-layer effects engine

Savvy visual storytellers understand the power of layered graphics and visual effects. With four composition layers at your command, savvy visual storytellers understand the power of layered graphics and visual effects.

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:
V-1SDI 3G-SDI VIDEO SWITCHER VER 1.5

Professional SDI video switching that you can take anywhere

- Support for SDI and HDMI cameras, smartphones, tablets, and PCs.
- 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.
- HDCP compliant.
- Quad input multi-viewer with source labeling and audio metering.
- Composition effects including DSK (Downstream Keyer), picture-in-picture etc.
- Capturing a still image from Input Video on channel 4*3 [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]

The Ver.1.5 update supports capturing a still image, sending a still image from the V-1SDI RCS on PC/Mac, and PinP 1/3 size in addition to 1/2 and 1/4 sizes.

SPECIFICATIONS V-1SDI

**VIDEO**

- Processing: 64-2 (Y/Pb/Pr), 8-bit
- Input Connectors: SDI INPUT 1-3: BNC x 3
  - Conforms to SMPTE 299M, SMPTE 274M
  - HDMI INPUT 3--4: Type A (19 pins) x 2
  - HDCP Supported
- Output Connectors: SDI OUT PGM: BNC x 1, SDI OUT PVW: BNC x 1
  - Conforms to SMPTE 296M, SMPTE 274M
  - HDMI OUT MULTI-VIEW: Type A (19 pins) x 1
  - HDMI OUT PGM: BNC x 1
  - HDMI OUT PVW: BNC x 1
- Input formats:
  - 4:2:2 (Y/Pb/Pr), 8-bit 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
  - HDMI OUT PGM: BNC x 1
  - HDMI OUT PVW: BNC x 1
- HDCP Supported
- SDI INPUT 1--3: BNC x 3
  - Conforms to SMPTE 299M, SMPTE 274M
- HDMI INPUT 3--4: Type A (19 pins) x 2
  - HDCP Supported
  - INPUT 3: SDI or HDMI selected
- 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
  - VHS (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), 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).

**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
  - HDMI INPUT 3--4: Type A (19 pins) x 2
  - Analog: AUDIO IN, RCA phono type, MIC: Stereo mini type, plug-in power supported
- Output Connectors:
  - Digital: SDI OUTPUT PGM: BNC x 1, SDI OUTPUT PVW: BNC x 1
  - Analog: AUDIO OUT, RCA phono type, PHONES (Stereo mini type)
- Input Level:
  - SDI: Linear PCM, 24 bits/48 kHz, 2ch Conforms to SMPTE 299M
  - HDMI: Linear PCM, 24 bits/48 kHz, 2ch
- Output Level:
  - SDI OUT PGM: BNC x 1
  - SDI OUT PVW: BNC x 1
  - HDMI OUT MULTI-VIEW: Type A (19 pins) x 1
  - HDMI OUT PGM: BNC x 1
  - HDMI OUT PVW: BNC x 1

**OTHERS**

- Other Connectors:
  - USB: B Type (for remote control from PC), RS-232: DB-9 type
- Other Features:
  - MEMORY (8 types), FREEZE (input video captured), OUTPUT FADE (Audio, Video: WHITE or BLACK)
- Power Supply: AC Adapter
- Current Draw: 2.1 A
- 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
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.

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, Stream Yard, and Restream for more advanced workflows. High-quality streaming up to 1080p60 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.

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.

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.

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

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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.

More audio control

Access full mixing functions for all audio sources, add studio polish with compressor, EQ, and reverbs, and have fun with multi-format stereo and 5.1-channel recording with the unique voice changer effect. It’s also possible to independently delay the audio inputs and outputs—including the headphone output—so you can synchronize your audio with your camera.

Visual effects and scenes

Adding video effects and creating scenes has become easier with software, but they put a burden on your computer’s horsepower. 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. The purchase of a V-02HD MK II provides free access to Roland’s AeroCaster switcher.

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.

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.

Go deeper with advanced Pro A/V features

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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 (version 2.0)
- 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

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.

Maximum connectivity

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

tap into deeper control with ver 2.0

The V-8HD continues to evolve with the Version 2.0 update, adding next-generation cue management and live show automation tools that make tough production tasks simple. The update brings many new features first introduced with the flagship V-60HD, including macros, advanced sequencing, transparent PNG image support, and more. Version 2.0 is a free, user-installable update for all V-8HD owners.

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 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.

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.

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 confirm the recording status while staying focused on other critical tasks. Channel of the V-8HD’s multi-viewer screen, letting you keep an eye on your camcorders even display a recording confirmation icon on the input getting paid for the job or not. Via HDMI, the V-8HD operator can forgetting to hit the record button means the difference between

SPECIFICATIONS V-8HD

<table>
<thead>
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</table>

V-8HD Input/Output Characteristics

<table>
<thead>
<tr>
<th>Input/Output Characteristics</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display</td>
<td>6.4 inches TFT Color LCD: 480 x 272 dots</td>
</tr>
<tr>
<td>Power Supply</td>
<td>AC Adapter</td>
</tr>
<tr>
<td>Current Draw</td>
<td>1.4 A</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>23 W</td>
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<td>Operating Temp</td>
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</tr>
</tbody>
</table>
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.
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, sub-program outputs, so you’ll always keep audiences engaged with exciting content to any production. The V-160HD’s effects engine features powerful video effects and still image support, and more, you can manage the creative needs of any client.

For example:
Layer 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 keys with support for 18 key inputs.

Instant recall

Storing and recalling custom looks can be accomplished with just a few button presses on the V-160HD. The 30 macro buttons memory 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 macro buttons even, allowing you to build and fine-tune 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.

SPECIFICATIONS V-160HD

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.

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, Avenio, and VSCA-compatible PTZ LAN cameras. Mix and match different brands as you like, and operate up to 16 PTZ cameras simultaneously.

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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, Avenio, and VSCA-compatible PTZ LAN cameras. Mix and match different brands as you like, and operate up to 16 PTZ cameras simultaneously.
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, games, commentator or presenter, it’s the easy way to livestream with high production standards. And since you’re going to get more comments, ensure you’re good ones with the VR-1HD.

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.

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. But 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.

SYSTEM PROGRAM VER 1.2

Improve live streaming creative capabilities, the VR-1HD ver. 1.20 update includes Chroma Key visual effects for background replacement, motion scene switching for fluid transitions between complex scenes, and a unique Picture by Picture layout to show two video sources side by side.
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.

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.

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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.

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.

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.

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VR-4HD

All-in-one HD AV mixer with built-in USB 3.0 for web streaming and recording

- All-in-one portable production solution
- Easy to use with dedicated hardware controls and audio faders and integrated touch screen preview monitor
- 6 input, 4-Channel Video Switcher
- Supports HDMI, RGB/Component, and Composite Video Inputs Up to 1080p
- Input 4’s scaler now supports a wider range of video and VESA resolutions
- Built-in Scaler via CH4
- Automatic switching modes [Ver.2.0]
- 18-channel digital audio mixer with XLR, TRS, and RCA jacks along with audio from HDMI inputs
- Embedding and de-embedding of audio with delay settings
- Auto Mixing and Echo Canceling function
- Composition effects including DSK (Downstream Keyer), picture-in-picture etc.
- Capturing a still image from input video on channel 4 [Ver.1.5]
- Built-in touch quad-input multi-viewer with audio metering
- External multi-view output through HDMI
- HDCP Support
- USB 3.0 video/audio output up to 1080/30p (uncompressed) and Audio Loopback feature
- Software control using VR-4HD RCS application for Mac and PC and remote control via USB connection [Ver.1.5]
- Sending a still image to the VR-4HD by VR-4HD RCS
- Tally, GPIO connections

The VR-4HD is a complete HD studio in a compact and portable package that replaces several different pieces of complex A/V equipment. Designed with single-person operation in mind, the VR-4HD enables easy switching and mixing of sound and video using advanced video and audio Digital Signal Processing (DSP) along with dedicated hardware controls, faders, buttons and touch screen interface. It beautifully integrates a digital audio mixer, video switcher, multi-viewer touch screen and USB video/audio streaming interface into a stand-alone device. This portable live HD production solution is ideal for schools, churches, council meetings, corporate events, sports, training sessions, or any other live event.

Easy operation for professional results

The VR-4HD features professional quality broadcast controls and switches ensuring more accurate and faster operation than interfaces based on a computer style mouse and keyboard. The ability to simultaneously switch video with the push of a button and adjust audio with the push of a fader is invaluable and puts all essential features at the operator’s fingertips. The built-in multi-view screen is also a touch screen interface for accessing set-up parameters, making it extremely easy to adjust picture-in-picture settings by dragging the inset window onto the screen.

Compositing effects

The VR-4HD includes DSK (Downstream Keying), Picture-in-Picture (PinP), Split and Quad compositing effects ideal for creating news style broadcasts and corporate presentation content. The DSK function is great for overlaying titles, song lyrics or logos onto incoming video sources that can be switched in the background while text or images remain displayed. The DSK supports both Luminance Keying (Black / White) and Chroma Keying (Blue / Green) for compositing two videos in one screen using Picture-in-Picture, or for using the split function.

Support for today and yesterday’s video sources

The VR-4HD has three dedicated HDMI input connectors compatible with a variety of equipment and support 1080p/1080i/720p video resolution. The fourth input includes a scaler to support both video and computer resolutions and also supports analog RGB and component input so older devices can be used as sources without the need for external conversion equipment. Both progressive and interlace signals can be input allowing for both 1080i and 1080p signals to be used at the same time.

Great video needs great audio

Achieving great sounding audio for video productions is easy with the VR-4HD which features Roland’s award winning digital signal processing and advanced features including auto-mixing, echo cancel and delay for perfect lip-sync between audio and video. The VR-4HD’s audio mixer can mix the four XLR microphone inputs, stereo RCA and 1/8 mini connector along with the audio embedded in the four HDMI inputs. The final mix can be output via XLR, RCA and also embedded into the HDMI output.

SYSTEM PROGRAM VER 2.1

System Update Ver. 2.100 includes Mix-minus (Audio Loop Back) on the USB bus. Mix-minus is often used to prevent echoes back out to the livestream audience.
Unique loop-back audio capability
A unique loop-back audio capability is included with the USB 3.0 port that can bring in audio from a connected PC using a conferencing software, such as Skype, and return audio to the PC without any howling or echo thanks to the included Echo Cancellation feature. This makes the VR-4HD an ideal web conferencing tool that allows for multiple video and audio sources to be used with free online webconference softwares.

Auto Mixing function
The included Auto-Mixing function makes mixing multiple speakers at conferences and panels simple and easy by automatically managing the levels of the microphones across the multiple people speaking, and can even give priority for volume. Volume priority can be assigned to an event moderator who can always be heard above the other participants.

USB 3.0 for recording and streaming
Recording or webcasting from the VR-4HD is easily achieved by connecting to a PC or Mac using the built-in USB 3.0 connection. Up to Full 1080p uncompressed resolution can be output from the VR-4HD. The VR-4HD embeds the audio mix with the video program and delivers at the selected resolution. The free VR Video Capture application for Mac and PC provides an easy and effective way to capture uncompressed video with high resolution output from the VR-4HD. The VR-4HD embeds the audio mix with the video program and delivers at the selected resolution. The VR Video Capture application can also capture compressed video for easy and immediate delivery of content to online video sites or internal corporate servers.

Remote control
The VR-4HD RCS software is designed to control the VR-4HD using a computer. By connecting the VR-4HD to your computer via USB, you will be able to copy settings (backup) or update the system software of the VR-4HD in addition to remote controlling the unit from your computer. The VR-4HD can be operated remotely from a computer, touch panel, or other external control device through RS-232C. The VR-4HD is equipped with a D-Sub 9-pin TALLY/GPIO connector. In addition to tally input/output functions, this provides functionality for control signal input and output, and you can use it to transmit and receive video and audio signals.

**SPECIFICATIONS**

- **VR-4HD**
  - **Dimensions**: 339 (W) x 217 (D) x 87 (H) mm, 13-3/8 (W) x 8-9/16 (D) x 3-7/16 (H) inches
  - **Weight**: 2.4 kg, 5 lbs 5 oz
  - **Operating Temp**: +0 to +40 degrees Celsius, +32 to +104 degrees Fahrenheit
  - **Power Consumption**: 36 W
  - **Current Draw**: 0.6 A
  - **Power Supply**: 100-240 V (50/60 Hz), 36 W

**Videography and webcast**
- Video conferencing
- Event and meeting

**Audio**
- **Input Connectors**: USB 3.0/2.0 (device): USB B type, USB-VIDEO (Super-Speed), Tally/GPIO: Mini D-sub 15-pin type
- **Output Connectors**: USB: USB B type (stereo)

**Video**
- **Input Formats**: HDMI INPUT 1-4: 1080/59.94p, 1080/50p (SYSTEM FORMAT: 1080i), 1080/59.94i, 1080/50i (SYSTEM FORMAT: 1080p), 1080/59.94p, 1080/50p (SYSTEM FORMAT: 1080p)
- **Output Connectors**: HDMI INPUT 1-4: 1080/59.94p, 1080/50p (SYSTEM FORMAT: 1080i), 1080/59.94i, 1080/50i (SYSTEM FORMAT: 1080p), 1080/59.94p, 1080/50p (SYSTEM FORMAT: 1080p)

**Video Processing**
- 4:2:2 (RGB/YPbPr), 4:4:4 (Y/CbCr)

**Input Connectors**
- HDMI INPUT: HDMI Type A (19 pins) x 1 * HDCP Supported
- DVI INPUT: 200 MHz (720x480, 1080x720), 350 MHz (1080x1080), 425 MHz (1080x1200), 650 MHz (UXGA, WUXGA, 1920x1200)

**Output Connectors**
- HDMI OUTPUT: HDMI Type A (19 pins) x 1 * HDCP Supported
- PREVIEW OUT: HDMI Type A (19 pins) x 1 * HDCP Supported

**Input Formats**
- HDMI: 1920x1080/60i, 1920x1080/24p, 1920x1200/60i, 1920x1200/56p, 1920x1200/24p
- DVI: 1920x1080/60i, 1920x1200/60i

**Display**
- Graphic Color LCD, 320 x 240 dots, touch panel

**Power Supply**
- 100-240 V (50/60 Hz), 36 W

**Other Connectors**
- USB 3.0/2.0 (device): USB B type, USB-VIDEO (Super-Speed), Tally/GPIO: Mini D-sub 15-pin type

**Audio Processing**
- Auto Mixing, Echo Cancel, EQ, Delay, Compressor, HPF, Gate, Reverb, Auto Leveling, Cross Cueing, Cross Source, Output Via, Output Direct, Output Direct

**Input Connectors**
- AUDIO IN 1-4: XLR/TRS combo type, phantom power
- AUDIO IN 5-6: RCA phono type
- AUDIO IN 7/8: Stereo miniature type

**Output Connectors**
- AUDIO OUT: L, R (XLR type)
- AUDIO OUT: L, R (RCA phono type)
- USB: USB B type (stereo)

**Power Supply**
- 100-240 V (50/60 Hz), 36 W

**Dimensions**
- 339 (W) x 217 (D) x 87 (H) mm, 13-3/8 (W) x 8-9/6 (D) x 3-7/6 (H) inches

**Weight**
- 2.4 kg, 5 lbs 5 oz

**Accessories**
- Owner’s manual, AC adaptor, Power cord

**Video Effects**
- Transition, CUT, MIX, DDO (Digital DOF), RMB, KMB, WMB (3 types)
- GIF, JPEG, PNG, BMP, MOV, WMV, MP4, M4V, MOVIEW, DIVX, MOVIE, AVI, COM, ZIPS

**Audio Effects**
- Auto-Wipe, Cross Fader, Auto Cross Fader, Echo Cancel, EQ, Delay, Compressor, HPF, Gate, Reverb, Auto Leveling, Cross Cueing, Cross Source, Output Via, Output Direct, Output Direct

**Audio**
- **Audio Input**
  - **Audio Inputs**: HDMI, DVI, RGB/COMPONENT, COMPOSITE
  - **Audio Outputs**: HDMI, RGB/COMPONENT, COMPOSITE

**Input Connectors**
- HDMI INPUT: HDMI Type A (19 pins) x 1 * HDCP Supported
- DVI INPUT: 200 MHz (720x480, 1080x720), 350 MHz (1080x1080), 425 MHz (1080x1200), 650 MHz (UXGA, WUXGA, 1920x1200)

**Output Connectors**
- HDMI OUTPUT: HDMI Type A (19 pins) x 1 * HDCP Supported
- PREVIEW OUT: HDMI Type A (19 pins) x 1 * HDCP Supported

**Input Formats**
- HDMI: 1920x1080/60i, 1920x1080/24p, 1920x1200/60i, 1920x1200/56p, 1920x1200/24p
- DVI: 1920x1080/60i, 1920x1200/60i

**Display**
- Graphic Color LCD, 320 x 240 dots, touch panel

**Power Supply**
- 100-240 V (50/60 Hz), 36 W

**Dimensions**
- 339 (W) x 217 (D) x 87 (H) mm, 13-3/8 (W) x 8-9/6 (D) x 3-7/6 (H) inches

**Weight**
- 2.4 kg, 5 lbs 5 oz

**Accessories**
- Owner’s manual, AC adaptor, Power cord

0 dBu=0.775 Vrms
Mark II, inspired by you

- Aux output for dedicated record, streaming, or confidence monitor feeds
- New high-quality audio preamps and converters for crystal-clear sound
- Updated user interface for fast, trouble-free operation
- Automatic audio mixing, adaptive noise reduction and automatic video switching functions to support single operators
- Direct control of select PTZ cameras from JVC, Panasonic, Sony, PTZOptics, Avonic and VISCA compatible over LAN

All-in-one convenience and ultra-flexible connectivity

The powerful VR-50HD MK II is a completely self-contained AV solution, consolidating video switching, digital audio mixing, multi-viewer touchscreen control, and USB AV streaming into a single unit that’s simple to run. And with the comprehensive rear patch panel, it’s quick and easy to make on-the-fly input assignments to cross-points on the switcher.

Redesigned interface for free-flowing operation

The VR-50HD MK II not only does more, it’s also easier to operate via a redesigned user interface. Drilling down into menus while switching is a thing of the past, thanks to dedicated broadcast-style buttons for AUX, PinP, and Still sources. Select, Solo, and Mute buttons are included for all audio channels, speeding up the monitoring process. And with the large touchscreen multi-view monitor, you can view and assign inputs, display up to four still images, execute preview/program functions, and much more.

Pro sound made easy

The VR-50HD MK II offering a number of automation functions that allow a single operator to switch video and mix pro-level audio at the same time. Use Auto Mixing to balance audio levels, Video Follows Audio to switch cameras based on sound input, and Anti-Feedback to automatically tame howling mic feedback. Adaptive noise reduction helps with noise cancelling and hum suppression. The VR-50HD MK II is also equipped with a variety of standard audio production inputs, including four XLR/TRS combo jacks with 48 V phantom power, four stereo pairs (two ¼-inch and two RCA), and embedded audio from 3G/HD/SD-SDI and HDMI.

Separate feeds for separate needs

Live streams, HD recording and the presenter comfort monitor often have separate visual needs from the main program output. The VR-50HD MK II has you covered, allowing you to send any of the connected input devices to a dedicated AUX output without affecting the main PGM destination. Use the AUX assignment panel buttons to switch the source, or synchronize the AUX output with the PGM (mixer) output to act as a built-in distribution amp.

Free VR-50HD MK II Ver.2.0 update adds Adaptive Noise Reduction and Loudness AGC, and LAN based PTZ camera control.

SYSTEM PROGRAM VER 2.0

VR-50HD MK II MULTI-FORMAT AV MIXER VER 2.0
Integrated Multi-PTZ camera control

Robotic pan-tilt-zoom (PTZ) 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 VR-50HD Mk II includes built-in support to directly control select JVC, Panasonic, Sony, PTZOptics, Avicon and VISCA compatible PTZ LAN cameras, so you don’t need to employ a dedicated PTZ camera controller or operator. Up to six PTZ cameras can be operated at once via the LAN port.

Four-layer composition and still store

Place keyed video on picture-in-picture, or superimpose a still image on top of all layers and switch these effects on/off at any time.

Still position and size controlling cannot be adjusted.

Still images are stored in variable memory.

Intelligence built in

The VR-50HD Mk II is equipped with a number of intelligent audio mixing and video switching functions to enhance your workflow. See the VR-50HD Mk II’s intelligent functions in action.

Easy, uncompressed streaming output with USB 3.0

The VR-50HD Mk II uses the same connection technology as webcams, allowing you to capture and share events to reach a worldwide audience. Simply plug into a computer via USB 3.0 and use any streaming service that’s able to use a webcam as its source. Everything is plug-and-play, with no software to download or drivers to install. For recording to a web-ready full HD AV file, use Roland’s free VR Capture software for Mac/Windows.

SPECSIFICATIONS VR-50HD MK II

### VIDEO

- **Input Connectors**
  - 4x HDMI (1920 x 1080p), 3.5 mm stereo mini-jack (*1)
  - 4x HDMI IN 1--4 connectors: HDMI type A x 4 (INPUT 1--4)
  - 4x HDMI IN 1--4 connectors: HDMI type A x 4 (INPUT 1--4)
  - 4x S-Video (S-VHS, 525/24p, 525/25p, 525/29.97p, 525/30p, 525/59.94p, 525/60p, 576/50p, 576/50i, 576/59.94p, 576/60i, 1080/29.97p, 1080/30p, 1080/50i, 1080/59.94p, 1080/60i, 1024 x 768/60 Hz, 1280 x 720/60 Hz)
  - Analog HD (RGB/COMPONENT IN, RGB/COMPONENT OUT): 1.0 Vp-p
  - Analog RGB (RGB/COMPONENT IN, RGB/COMPONENT OUT): 0.7 Vp-p
  - RGB/HD-Component: Mini D-sub 15-pin type x 2 (PGM OUT, AUX OUT)
  - Composite (COMPOSITE IN): NTSC, PAL

- **Output Connectors**
  - HDMI OUT PGM: 1080/59.94p
  - HDMI OUT MULTI-VIEW: 1080/59.94p, 1080/50p, 1024 x 768/60 Hz (*2), 1280 x 720/60 Hz, 1920 x 1080/60 Hz
  - Composite (COMPOSITE OUT): BNC type x 2 (OUTPUT 1--2)
  - RGB/COMPONENT OUT: BNC type x 2 (OUTPUT 1--2)

- **Input/Output Levels and Impedance**
  - Analog: +48V PANTOM, +4 dBu (+48 V)
  - SDI: digital, 3.0 Vp-p
  - Composite: 75 ohm, BNC type
  - HDMI: 18 Gbps, HDMI type
  - SDI IN 1--4 connectors: BNC type x 4 (INPUT 1--4)
  - HDMI IN 1--4 connectors: HDMI type A x 4 (INPUT 1--4)

### AUDIO

- **Input Connectors**
  - 4x LINE IN connectors: XLR type, 200 k ohms
  - USB-AUDIO (USB STREAMING): Linear PCM, 16 bits, 48 kHz, 2 ch
  - SDI (SDI IN, SDI OUT): Linear PCM, 24 bits, 48 kHz, 2 ch

- **Output Connectors**
  - USB AUDIO (USB STREAMING): Linear PCM, 16 bits, 48 kHz, 2 ch
  - Analog: 15 dBu (100 mW per channel), 200 k ohms
  - SDI: digital, 3.0 Vp-p

- **Input Connectors**
  - 48 channels
  - 4-Band EQ, Delay, Compressor, HPF, NoiseSuppressor, 4-Band Dynamic, Anti-feedback, Voice changer

### SYSTEM RECOMMENDATIONS

- **Windows**
  - 8 or higher

- **Mac**
  - OS X 10.7 or higher

- **Input Connectors**
  - 4x HDMI (1920 x 1080p), 3.5 mm stereo mini-jack (*1)
  - 4x HDMI IN 1--4 connectors: HDMI type A x 4 (INPUT 1--4)

- **Common**
  - USB 3.0 (supported USB3.0 Intel Chipset e.g. 7Series)
  - USB Interface: 8.0 or higher

### COMMON SECTION

- **Remote Control**
  - USB connection: 10-Kanal-type, wired or wireless

- **USB Interface**
  - USB IN: 19-pin mini-DIN type, 25 MHz
  - USB OUT: 19-pin mini-DIN type, 25 MHz

- **Other Functions**
  - Present Memory (8 pages), Presentation function, EDI editor

- **Display**
  - Touch Display: 6.1” LCD (800 x 600 pixels)

- **Power Supply**
  - AC Adapter, 100-240 VAC 50/60 Hz (65 W)

- **Dimensions**
  - 467(W) x 325(D) x 125(H) mm, 17-1/4”x 12-13/16”x 4-15/16” inches

- **Weight**
  - 5 kg, 11 lb

- **Accessories**
  - Remote Control, RS-232C (MIDI) cable, AC adapter, Docking Station
AeroCaster Switcher is a free iPad app that expands the production power of supported Roland A/V hardware with cable-free video connectivity over a wireless network. Connect your iPad to an HDMI input and switch wireless camera feeds from iOS and Android smartphones and tablets, as well as screen shares from computers and mobile devices. Use images from up to four wireless devices simultaneously, plus the camera on the host iPad. Roland’s advanced video technology is also included in the app, allowing you to add graphics, titles, video clips, photos, effects, and more to your feed.

**Use your iPad to expand your Roland hardware with up to five simultaneous video sources**

- Supports wireless camera connections from up to four supported iOS and Android smartphones and tablets
- Supports video resolution up to 1080p at 30 FPS over Wi-Fi
- Save and recall 30 scenes with titles, graphics, or picture-in-picture windows
- Media pool for integrating videos, photos, and graphics from your iPad library

**Wireless video and media expansion for your Roland switcher**

**Quick and easy set up**

Simply download the AeroCaster Camera app* on each smartphone or tablet you want to use, connect them to the AeroCaster Switcher app over the local Wi-Fi network, and place the camera for the perfect shot. You have complete control of the available camera functions on each device from the iPad, including focus, zoom, exposure, stabilization, white balance, and more.

**Wireless video and media expansion for your Roland switcher**

- Use your iPad to expand your Roland hardware with up to five simultaneous video sources
- Wirelessly share screens from computers and mobile devices via the Google Chrome web browser
- Switch between cameras and scenes with a variety of transition effects
- Use the camera on the host iPad as a fifth video source
- Supports wireless camera connections from up to four supported iOS and Android smartphones and tablets
- Supports video resolution up to 1080p at 30 FPS over Wi-Fi
- Save and recall 30 scenes with titles, graphics, or picture-in-picture windows
- Media pool for integrating videos, photos, and graphics from your iPad library

**What you need to get started**

To get started with the Aerocaster you need to have a supported Roland video switcher or A/V streaming mixer, a supported Apple iPad with the Aerocaster Switcher app installed and a supported smartphone or tablet with the Aerocaster Camera app installed. You will also need to have the official Apple HDMI adaptor for your iPad model. A fast and stable Wi-Fi network connection is also required for best results.

**Screen sharing made simple**

AeroCaster Switcher also provides a simple BYOD solution for wireless HD screen sharing. Presenters and panelists can connect via the Google Chrome browser on their computers and mobile devices. Screen sharing is fast and easy with an internet connection and Wi-Fi, with no cables, video adaptors, or dongles required.

**Enhance your productions with the cameras everyone carries**

AeroCaster Switcher lets you take advantage of the high-quality cameras in today’s smartphones and tablets and make anyone in the production crew a camera operator. Cut to unique handheld angles or use widely available mobile device mounts to grab up-close captures of hands-on presentations. The possibilities are endless!
AeroCaster Switcher also gives you the ability to bring video clips, photos, and graphics into your productions. It’s simple to add media from your iPad library—tap the plus icon in the AeroCaster media pool, select the desired media, and tap again to show it live.

**Scenes and visual effects**

AeroCaster Switcher includes powerful production tools to manage your wireless sources independently from your Roland switcher. Via an intuitive interface, you can create up to 30 scene presets with text overlays, graphics (including transparent PNG files), picture-in-picture windows, or split-screen views. During an event, it’s easy to select scenes, camera sources, or media content. A selection of cuts, cross-dissolves, and wipes are also on hand for smooth transitions.

**Add local content**

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.

---

**UVC-01**

- High-quality HDMI to USB 3.0 video encoder
- Plug-and-play USB webcam operation for Mac and Windows computers
- Seamless works with all Roland V-series switchers and 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

**Operating Conditions**

- Temperature: +0 to +40 degrees Celsius, +32 to +104 degrees Fahrenheit
- Humidity: 5 to 90% relative humidity (non-condensing)
- Power Supply: 100 to 240 VAC, 50 to 60 Hz, 1.5 A

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**UVC-01 USB Video Capture**

- High-quality HDMI to USB 3.0 video encoder
- Plug-and-play USB webcam operation for Mac and Windows computers
- Seamless works with all Roland V-series switchers and 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
UVC-02 WEB PRESENTATION DOCK

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

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 AV 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.

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.
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 unmute 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.

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**SPECIFICATIONS UVC-02**

**AUDIO**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Spec</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audio Processing</td>
<td>sample rate 48 kHz, 24 bits</td>
</tr>
<tr>
<td>Analog Connections</td>
<td>Mic: 16 bit (balanced), Phantom power 50 V, XLR 16 dBu (balanced)</td>
</tr>
<tr>
<td>Digital Connectors</td>
<td>HDMI IN: HDMI Type A, USB STREAM: USB 3.0 Type-B</td>
</tr>
<tr>
<td>Nominal Input Level</td>
<td>XLR (50 ohms), Maximum input level: 10 dBu</td>
</tr>
<tr>
<td>Nominal Output Level</td>
<td>XLR (50 ohms), Maximum output level: 10 dBu</td>
</tr>
<tr>
<td>Input Impedance</td>
<td>10 k ohms, 10 k ohms, 47 k ohms</td>
</tr>
<tr>
<td>Output Impedance</td>
<td>10 k ohms</td>
</tr>
<tr>
<td>Digital Audio Format</td>
<td>Linear PCM, 48 kHz, 16 bits, Stereo</td>
</tr>
<tr>
<td>Audio Effects</td>
<td>Anti-Feedback, Echo Canceller, Ducker, Voice Changer, Reverb, Dynamic Limiter, Compact, ECHO, DELAY, NOISE SUPP.</td>
</tr>
<tr>
<td>Audio File Player</td>
<td>Audio file player: MP3, WAV, AIFF, FLAC, ALAC, WAV, AAC/MP3</td>
</tr>
<tr>
<td>COMMON</td>
<td></td>
</tr>
<tr>
<td>Other Functions</td>
<td>Mic Meter (48 kHz), Audio Meter (48 kHz), Background Audio Meter (48 kHz), Volume Control</td>
</tr>
<tr>
<td>Power Supply</td>
<td>supplied from the computer via USB</td>
</tr>
<tr>
<td>Control Current</td>
<td>100 mA to 1.5 A</td>
</tr>
<tr>
<td>Operation Temperature</td>
<td>-10 to +10 degrees Celsius, -50 to +50 degrees Fahrenheit</td>
</tr>
<tr>
<td>Dimensions</td>
<td>124 (W) x 117 (D) x 52 (H) mm</td>
</tr>
</tbody>
</table>

---

* All specifications are based on RS-232C interface.
A versatile and compact switcher with multi-screen output and video composing

- 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
- High-quality 10-bit 4:4:4 processing

XS-1HD multi-format matrix switcher

SPECIFICATIONS

**VIDEO**
- Processing: 4 to 4 (YPbPr: HDMI), 10 bits / 4:2:2 (YPbPr), 10 bits
- Input Connectors: HDMI, HDMI type A x 4 (HDMI INPUT 1--4) *
- Output Connectors: HDMI, HDMI type A x 4 (HDMI OUTPUT 1--4) *

- **Formats**
  - Y/Pb/Pr, RGB, 10 bits
  - 1080i/59.94i, 1080i/50i, 1080p/59.94p, 1080p/50p
  - 720p/59.94p, 720p/50p

- **Output Mode**
  - Switcher, Input

- **Effects**
  - Frame Synchronizer, Frame Synchronizer
  - Frame Synchronizer, Frame Synchronizer

- **Input Memory**
  - 1 memory

- **Image**
  - Format: Y/Pb/Pr, RGB, 10 bits / 4:2:2 (YPbPr), 10 bits

- **Audio**
- Processing: 4 to 4 (YPbPr: HDMI), 10 bits / 4:2:2 (YPbPr), 10 bits
- Input Connectors: HDMI, HDMI type A x 4 (HDMI INPUT 1--4) *

- **Output Connectors**
  - HDMI, HDMI type A x 4 (HDMI OUTPUT 1--4) *

- **Formats**
  - Linear PCM, 24 bits, 48 kHz, 2 ch

- **Input Impedance**
  - Input: 15kΩ

- **Output Impedance**
  - Output: 10Ω

- **Input Level**
  - Audio IN –10dBu (Maximum: +8dBu)

- **Output Level**
  - Audio OUT –10dBu (Maximum: +8dBu)

- **Output Impedance**
  - Audio OUT 1kΩ

- **Others**
- AC Adaptor
- Power Supply
- Weight: 1.2kg
- Power Consumption: 25W

- **Dimensions**
  - 228.0W x 170.5D x 57.6H mm

- **Accessories**
  - Owner’s Manual, AC adapter, Power cord

(*) Input only
(1) Output audio level is 70V when audio code is set to 60 Hz.
(1) These effects depend on the Output Mode.
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

**SYSTEM PROGRAM VER 1.2**

The Ver.1.2 update simplifies the XS-42H experience with WebRCS User Mode, streamlines workflow using shortcuts, adds Audio Delay effect, and prevents tampering with Panel Lock.

**SPECIFICATIONS XS-42H**

<table>
<thead>
<tr>
<th>Function</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>VIDEO</strong></td>
<td></td>
</tr>
<tr>
<td>Proc.</td>
<td>4 x 6 (H/V: 208/192 m, H: 192/192 ph) (4 sets)</td>
</tr>
<tr>
<td>Input Connectors</td>
<td>HDMI: HDMI Type A x 4 (HDMI INPUT 1--4), HDCP Supported</td>
</tr>
<tr>
<td>Output Connectors</td>
<td>HDMI: HDMI Type A x 2 (HDMI OUTPUT 1--2), *HDCP Supported</td>
</tr>
<tr>
<td>Formats</td>
<td>4:4:4 (Y/Pb/Pr, RGB)/10 bits, 4:2:2 (Y/Pb/Pr)/10 bits 48 kHz, 24 bits</td>
</tr>
<tr>
<td>Transition</td>
<td>Black-insert, Mix, Cut</td>
</tr>
<tr>
<td>Bit Image</td>
<td>Internal Memory: 1, Maximum Size: 1920 x 1200 pixels</td>
</tr>
<tr>
<td><strong>AUDIO</strong></td>
<td></td>
</tr>
<tr>
<td>Proc.</td>
<td>4 x 6 (H/V: 208/192 m, H: 192/192 ph) (4 sets)</td>
</tr>
<tr>
<td>Input Connectors</td>
<td>AUDIO INPUT: 15 k ohms, AUDIO OUTPUT: -10 dBu (Maximum: +8 dBu)</td>
</tr>
<tr>
<td>Output Connectors</td>
<td>PHONES: Stereo mini type, AUDIO OUTPUT: 1 k ohm</td>
</tr>
<tr>
<td>Formats</td>
<td>PHONES: 72 mW + 72 mW (32 ohms)</td>
</tr>
<tr>
<td><strong>OTHERS</strong></td>
<td></td>
</tr>
<tr>
<td>Green Screen</td>
<td>Common output format</td>
</tr>
<tr>
<td>USB MEMORY: A type x 1 (Use for USB Memory)</td>
<td></td>
</tr>
<tr>
<td>USB: A type x 1 (Use for future expansion)</td>
<td></td>
</tr>
<tr>
<td>LAN: RJ45 x 1</td>
<td></td>
</tr>
<tr>
<td>RS-232: DB-9 type (Male) x 1</td>
<td></td>
</tr>
<tr>
<td>Remote</td>
<td></td>
</tr>
<tr>
<td>PHONES: 10 ohms</td>
<td></td>
</tr>
<tr>
<td>Microphone: 4 k ohm</td>
<td></td>
</tr>
<tr>
<td><strong>DIMENSIONS</strong></td>
<td></td>
</tr>
<tr>
<td>Width</td>
<td>9-9/16 (W) x 4-15/16 (D) x 1-3/4 (H) inches</td>
</tr>
<tr>
<td><strong>WEIGHT</strong></td>
<td></td>
</tr>
<tr>
<td>Rack mount angle set</td>
<td>L: 1.2 kg, 2 lbs 11 oz</td>
</tr>
<tr>
<td>Operation Temperature</td>
<td>+0 to +40 degrees Celsius, -10 to 100 degrees Fahrenheit</td>
</tr>
<tr>
<td>Power Supply AC Adaptor</td>
<td></td>
</tr>
<tr>
<td>Power Consumption</td>
<td>25 W</td>
</tr>
<tr>
<td>Power Supply</td>
<td>25 W</td>
</tr>
</tbody>
</table>

*0 dBu=0.775 Vrms
XS-62S

HD VIDEO SWITCHER VER 3.0

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))

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.

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.

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.

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.

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.

SYSTEM PROGRAM VER 3.0

The Ver 3.0 update enhances workflows and expands control. The XS-62S can capture stills directly from PGM. Additional frame-rate support on SDI inputs includes 60p, 30p, 25p, 24p and 23.98p. Take control of even more PTZ cameras over IP using universal VISCA protocols. Analog Audio input 1-6 can is assignable to AUX output.
**SPECIFICATIONS XS-62S**

### VIDEO

- **Processing**: 4 x 2 (4 x 2 or 4 x 4) 480/59.94i
- **Input Connectors**: HDMI IN 1--6, RGB/CMPNT/CMPST IN 6
- **Output Connectors**: HDMI OUT 1--3, RGB/CMPNT/CMPST OUT 6
- **Analog Input Level**: 0.7 Vp-p (video), 1.0 Vp-p (Y), 0.286 Vp-p (C)
- **Input Impedance**: 75 ohms (Bi-level sync/Tri-level sync)
- **Input Formats**: RGB, Y/Pb/Pr, 4:2:2 (Y/Pb/Pr), 8-bit
- **Audio Inputs**: 4:1:1 (Y/Ph/Pr), 8-bit

### AUDIO

- **Input Formats**:falina
- **Input Levels**: 15 k ohms
- **Output Connectors**: HDMI OUT 1--3: HDMI type A x 3
- **Audio Outputs**: PHONES: Stereo 1/4-inch phone type
- **Audio Processing**: Limiter, Auto Mixing, EQ, Delay, Compressor, HPF, Gate, Reverb, Multi-Band Compressor

### OTHERS

- **Connectors**: CONTROL: RJ45, 100BASE-TX (For remote control)
- **Dimensions**: 38.5 L x 26.0 W x 34.5 H inches
- **Weight**: 25 lbs
- **Remote Camera Control**: HDMI IN, HDMI OUT: Linear PCM, 24 bits/48 kHz, 2 ch
- **SDI IN**: Linear PCM, 24 bits/48 kHz, 8 ch (Conforms to SMPTE 299M)
- **SDI OUT**: 24 bits/48 kHz, 8 ch (Conforms to SMPTE 299M)
- **RS-232**: DB-9 type (Male, for remote control)
- **Remote Camera Control**: HDMI IN, HDMI OUT: Linear PCM, 24 bits/48 kHz, 2 ch

### ACCESSORIES

- **Owner's Manual, AC adaptor, Power cord, Rubber Foot x 4
- **Power Supply**: AC Adapter
- **Current Draw**: 2 A
- **Power Consumption**: 210 W
- **Operating Temp**: -10°C to 40°C (50°F to 104°F)
- **Dimensions**: 481 (W) x 323 (D) x 105 (H) mm
- **Weight**: 34 kg (75 lb)
- **Video Block Diagram**: DISSOLVE MODE
- **Audio Block Diagram**: MATRIX MODE
- **Audio Processing**: Sampling rate: 24 bits/48 kHz
- **Audio Formats**:falina
- **Output Connectors**: HDMI OUT 1--3: HDMI type A x 3
- **Audio Outputs**: PHONES: Stereo 1/4-inch phone type
- **Audio Processing**: Limiter, Auto Mixing, EQ, Delay, Compressor, HPF, Gate, Reverb, Multi-Band Compressor

### 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.
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.

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.

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.

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.

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.

VP-42H SYSTEM PROGRAM VER 1.2
The Ver.12 update simplifies the VP-42H experience with WebRCS User Mode, streamlines workflow using shortcuts, adds Chroma Key video effect, and prevents tampering with Panel Lock.
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 switches between ‘scenes’ containing preset arrangements of layered sources in customizable inset windows. The VP-42H smoothly switches between ‘scenes’ containing preset arrangements of layered sources in customizable inset windows.

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 mixer for recording or streaming, the audio from an external source or other sources can be connected to the RCA inputs and embedded into the HDMI output signal.

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 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.

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

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P-20HD

VIDEO INSTANT REPLAYER VER 1.2

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 scalers, 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.

SYSTEM PROGRAM VER 1.2

The P-20HD continues to evolve with the Version 1.2 update, adding 1080i output, MP4 file export, control by V-60HD, USB Keyboard, external footswitches, LAN, and RS-232, and more improvement. Version 1.2 is a free, user-installable update for all P-20HD owners.
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 footprint and expression pedal enable you to execute different switcher commands more easily. USB Keyboard supports renaming projects and clips as well.

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.

Direct-access controls

Fitted 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.

Visually engage with fans

Draw lines or diagram the trajectory of the action to help fans analyze the play and make commentary easier to understand. Draw with various colors, and shapes, even control the playback speed of the video. Beginning with version 1.5, 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.
Introducing the Roland VC-100UHD, a next-generation AV 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.

**Scale, convert, and stream**

- Professional AV signal management in a compact and robust unit
- Internal YCbCr 4:4:4 10-bit Lossless Processing
- HDMI YCbCr 4:4:4 10-bit Input / Output
- High frame rate support at 100, 120, 144, 200 and 240 Hz with drop frame
- Features 12G-SDI and HDMI 2.0 I/O with Roland’s Ultra Scaler video processing technology

**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.

**Lossless conversion**

When setting YCbCr 4:4:2, 10-bit input / output and 10-bit internal processing maintain the fineness of the color and gradation of the input material. Compared to 8-bit processing, it can display more colors and express a more natural and smooth gradation.

**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.

**Using USB numeric keypad like PTZ cameras**

Produce multi-shot productions with a single 4K camera or zoom in and highlight the details of a presentation using the VC-100UHD’s built-in Region of Interest (ROI) function. Creating an innovative viewer experience has never been easier; connect any 4K video input source to zoom, move, crop, and scale up to eight regions of interest windows. Switch between the ROI windows using any USB numeric keypad to use it like PTZ camera in the live event operation.

**System Program Ver 1.3**

Version 1.3 brings improvements to internal YCbCr 4:4:4 10-bit lossless processing and now supports RGB/YCbCr 4:4:4 10-bit on HDMI. 720p and 1440p/144Hz frame rates have been added. For with 51 surround sound processing, C/LFE mapping has been added. Installs that require lower fan noise, automatic adjustment control based on the environment is now supported. Roland’s innovative “Region of Interest (ROI)” has been added to 4K inputs with simple switching between ROI windows using a USB numeric keypad.

**Display processing for multiple audiences: 4K, HD, and web streaming**

- USB 3.0 webcam output for livestreaming broadcasts
- Advanced visual effects and image processing
- New region of interest switching by USB numeric keypad
- Professional audio processing with flexible patching
- Front panel menu LCD
High frame rates? No problem.

High frame rate (HFR) video sources can pose signal workflow challenges for integrated systems, but the VC-100UHD handles them with ease. Thanks to Ultra Scaler technology, system designers can simultaneously deliver 1080p video at rates up to 240 Hz for a gaming monitor, 59.94/50 Hz for an HD video system and LED displays, and 59.94/50 Hz for an HD live stream broadcast.

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-6000HD 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, 1080p high frame rate (HFR) video at 100, 120, 144, 200, and 240 Hz, Native DCI Digital Cinema System 4K (4096) resolution.

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 a high-precision graphic LCD and a sophisticated menu structure, all functions can be operated and set using the VC-100UHD itself without an external control device. On the HDMI input signal status screen, you can check the resolution, frame rate, HDCP status, color space, bit depth, color gamut, dynamic range, and audio level of each 8 channels input. In addition, the system message log screen makes troubleshooting easier.

**TEXTUAL CONTENT**

**VC-100UHD**

**SPECS**

**INPUT**

**OUTPUT**

**CABINETS**

**DIAGRAMS**

**CONNECTORS**

**OTHERS**

**SPECIFICATIONS VC-100UHD**

**VIDEO**

**Formats**

**Functions**

**Audio**

**Input Connectors**

**Output Connectors**

**Other Connectors**

**Others**

**Connectors**

**Others**

**Input Connectors**

**Output Connectors**

**Other Connectors**

**Others**

**Input Connectors**

**Output Connectors**

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**Output Connectors**

**Other Connectors**

**Others**
VC-1 Series

VC-1-SH  SDI TO HDMI

Conversion of video and audio signals from SDI input to HDMI output

- SDI to HDMI conversion
- Lossless image conversion
- 3G (Level A and B)/HD/SD SDI
- HDCP support
- Selectable channel for Embedded/De-embedded audio

VC-1-HS  HDMI TO SDI

Conversion of video and audio signals from HDMI input to SDI output

- HDMI to SDI conversion
- Lossless image conversion
- 3G (Level A and B)/HD/SD SDI
- HDCP support
- Selectable channel for Embedded/De-embedded audio

VC-1-DL  FS DELAY

Bi-directional conversion of video and audio signals from HDMI to SDI or SDI to HDMI with frame sync and delay

- HDMI to SDI/SDI to HDMI conversion
- Lossless image conversion
- 3G (Level A and B)/HD/SD SDI
- HDCP support
- Selectable channel for Embedded/De-embedded Audio
- Audio/Video Delay - up to 9 fields (4.5 frames)

VC-1-SC  SCAN CONVERTER

Up/down/cross scan converter to SDI/HDMI with frame sync

- 3G (Level A and B)/HD/SD SDI In/Out
- HDMI In/Out
- RGB/Component In
- Composite In
- HDCP support
- Built-in Frame Synchronizer and Scaler
- Up/Down/Cross, Frame Rate*, I/P, and Aspect Ratio conversion
- Audio embedding or De-embedding
- VC-1 RCS, dedicated PC/Mac Software App

* Up/Down/Cross, Frame rate, I/P, and Aspect ratio conversion are not supported.
### Accessories

#### 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

#### HDMI CABLES

**BLACK SERIES HDMI CABLE**

- HDMI cable designed to transmit high-speed digital signals precisely
- HDMI 2.0 cable, 1 m length. Also available in 2 m (RCC-6-HDMI), 3 m (RCC-10-HDMI), 5 m (RCC-16-HDMI), and 7.5 m (RCC-25-HDMI) lengths

#### HT-TX01 (HDBaseT TRANSMITTER)

- HDBaseT-compatible transmitter for transmitting HDMI signals up to 100 meters over an ethernet cable
- Converts HDMI input to HDBaseT signals, maximum 1080/60p and WUXGA support for HDMI, HDCP-compliant, capable of RS-232C transmission

#### HT-RX01 (HDBaseT RECEIVER)

- HDBaseT-compatible receiver for transmitting HDMI signals up to 100 meters over an ethernet cable
- Converts HDBaseT signals to HDMI output, maximum 1080/60p and WUXGA support for HDMI, HDCP-compliant, capable of RS-232C transmission

### SPECIFICATIONS HT-TX01/HT-RX01

<table>
<thead>
<tr>
<th>Input Formats</th>
<th>800 × 600, 1024 × 768, 1280 × 1024, 1366 × 768, 1920 × 1200, 480i, 720p, 1080i, 1080p</th>
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<tr>
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<td>Linear PCM, Dolby Digital, True HD DTS-HD Master Audio</td>
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<tr>
<td>Other Connectors</td>
<td>RS-232 x 1</td>
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### HT-TX01 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

### RRC-SP SERIES

#### BLACK SERIES ROAD CASE

- Heavy-duty combo rack for RRC-8SP / RRC-6SP / RRC-4SP / RRC-2SP
- Eight/six/four/two-space rackmount road cases, heavy-duty grade recessed hardware, tongue and groove aluminum valances, premium 3/8-inch plywood with rugged black vinyl laminate

#### BLACK SERIES ROAD CASE

- Heavy-duty combo rack for the Roland V-1200HD and V-1200HDR
- Heavy-duty grade recessed hardware, tongue and groove aluminum valances, high-density foam lining, premium 3/8-inch plywood with rugged black vinyl laminate

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*In the interest of product improvement, the specifications and/or appearance of this unit are subject to change without prior notice."
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Ensuring high quality while protecting the environment: Roland is ISO9001 and ISO14001 certified

At Roland, several group companies have obtained ISO9001 certification. In addition, in January 1999, Roland also received ISO14001 international environmental management system certification. We’re actively seeking ways to maintain harmony with the environment. ISO=International Standardization Organization: an organization for the promotion of standardization of international units and terms. They provide different categories of certification: ISO9001 Series certification is a product quality certification for products that undergo a certain level of quality control from the design stage to the after service stage; ISO14001 Series certification is for environment-related standards. Each member of the Roland Group is striving to obtain certification.

https://proav.roland.com/