Main Specifications

Video

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

Audio

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



*Actual Size



HD VIDEO SWITCHER
V-1HD
Portable Compact HD Switcher

1080p PROGRESSIVE HDCP AUDIO PROCESSING

Roland

proav.roland.com

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4 HDMI inputs

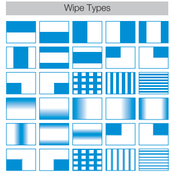
- The V-1HD has 4 HDMI input connectors compatible with a variety of equipment.
  The V-1HD supports 1080p/1080i/720p video resolutions. Devices outputting the same resolution can be input regardless of what type of device they are.
  *Refer to "Main Specifications" on the back cover for more detail of supported formats.
- Both progressive and interlace signals can be input allowing for both 1080i and 1080p signals to be used at the same time.



- Video signals input from a PC are accurately displayed thanks to progressive signal processing.
- HDCP is supported for input of copy protected content from devices such as Blu-ray disc players.

Easy-to-use Interface

- Large back-lit buttons for intuitive video switching even in low light conditions.
  Red lit buttons indicate the current source being output.
  Green lit button is for the video that will be output on the next transition.
  If a button is not lit, then there is no video being input to that channel.
- Broadcast style Preview/Program switching for professional results.
- The TRANSFORMER buttons can be used for switching the video instantly or applying effects.
  There are 11 options for the operation of the buttons.
- There are three buttons for applying transition effects, CUT, MIX (4 types) and WIPE (30 types).
- Auto scan function switches the video automatically across the four video inputs.
- By using the T-Fader and BPM SYNC button, you can deliver visuals synced to a music performance.
- You can save or recall up to 8 presets using the MEMORY button.
- Use the FREEZE button to temporarily pause the incoming video.
- Output fade function makes the output video fade to black or white.

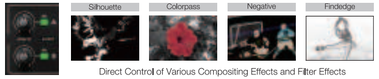




Buttons and Knob Used for Displaying Menus or Adjusting Video Output

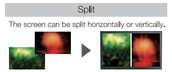
Various Effects

- Picture-in-picture and split functions.
  - Compositing two videos in one screen is ideal for seminars and presentations.
  - Supports chroma key and luminance key.
- Two EFFECTS knobs deliver genuine visual performance.
  - Many of the visual performance functions made popular by the V-4EX and V-8 are included.
  - Use knob A and knob B to apply effects to A bus and B bus respectively.
    9 types of filter effects including silhouette, colorpass, negative and findedge are possible)



Direct Control of Various Compositing Effects and Filter Effects







HD VIDEO SWITCHER
V-1HD

1080P PROGRESSIVE HDCP AUDIO



So compact and portable, you can bring the V-1HD and use it anywhere!
Feature packed and easy to use for high-quality HD video results.

The V-1HD makes it easy to connect and switch video cameras, smart phones, computers, tablets, Blu-ray players and other HDMI video sources with a simple push of a button or slide of the T-Fader. It supports professional compositing effects such as picture-in-picture and keying allowing for graphic insets, titling or even "green screen" ideal for news broadcast or corporate training productions.

For creative live event video switching, the V-1HD includes a advanced video effects for transforming video into creative visuals to support all kinds of performances. Output of your video mix is as simple as connecting the HDMI output to a projector or screen at an event and you can even connect a recorder for capturing your event or production.

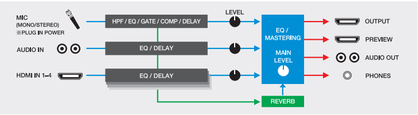
Full Audio Mixer Included

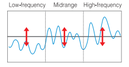
AUDIO



The Mic input jack on the left side panel supports plug-in power.

- Included is a 12ch digital audio mixer.
- In addition to 4 stereo audio inputs from the HDMI ports, the V-1HD also supports a stereo line level input and a mic level input.
- Every channel is equipped with a delay function to synchronize the video and the audio.
  *The maximum delay time is 500ms.
- Audio follow function enables the audio to transit along with the video.
- Reverb function and mastering function used for adjusting sound quality and volume are also supported.
- With audio output jacks you can send the audio mix to a PA system or record it on an external device.





Mastering function adjusts the balance of the sound of each frequency band.

Easy to Operate with Hardware Controls

- Basic operations can be done by operating the buttons and the T-Fader on the unit.
- To make detailed settings you just need to connect a monitor to the preview connector.

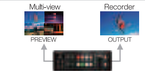


On-screen Display of the Preview Out

Two HDMI Outputs

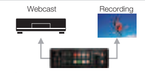
- Four-way multi-view preview screen shows every input source (non-drop frame).
  A red border shows the video currently being output and a green one indicates the video to be output next.
- There are three types of view modes available for the preview output which are Multi-view, Output (as a program output) and Preview. On-screen display can be turned on or off.

Example 1: Multi-view Preview Output and Program Output



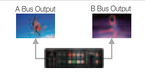
Multi-view mode of the preview output helps you to check each input source and make detailed settings with on-screen display while recording.

Example 2: One Program Output for Webcast and one Program Output for Recording



Output mode of the preview out offers two program outputs for different uses such as webcast and recording.

Example 3: Individual Outputs of A Bus and B Bus



If you set the preview output to Preview mode, you can switch the program output(A Bus) video and the preview output(B Bus) video respectively.
*Transition effects can not be applied in this mode.

Remote Control via USB or MIDI Connection

- Remote control is possible with the dedicated application on a PC or an iPad connected via a USB cable.
- The user interface is very easy-to-see and you can make detailed settings through it. You can use the unit to switch video and mix audio on the application.
- You can control the unit from a music instrument or a sequencer via the MIDI input connector.
  *For more information on the dedicated application, see the Roland website.
  *Please use iPad camera connection kit to connect an iPad to the V-1HD.

