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Roland V-1HD

Roland V-1HD HD Video Switcher Instruction Manual

Model: V-1HD

1. Introduction and Overview

The Roland V-1HD is a compact and portable HD video switcher designed for live event production, presentations, and streaming. It facilitates the connection and switching of various HDMI video sources, including video cameras, smartphones, computers, tablets, and Blu-Ray players. The V-1HD offers intuitive operation with physical buttons and a T-fader for seamless transitions between sources.
Key features include:

- **4 HDMI Inputs:** Supports 1080p/1080i/720p video resolutions, allowing simultaneous use of progressive and interlace signals.
- **Professional Switching:** Large, backlit buttons and a T-fader enable intuitive Preview/Program switching.
- **Video Effects:** Includes Picture-in-Picture, split functions, chroma key, and luminance key for creative compositing and title overlays.
- **12-Channel Digital Audio Mixer:** Mixes 4 stereo audio inputs from HDMI, a stereo line-level input, and a mic-level input. Features a delay function for audio/video synchronization and audio follow.
- **On-Screen Menu:** Accessible via the preview screen, allowing easy adjustment of parameters and audio mixer settings using hardware controls.



Figure 1: Front view of the Roland V-1HD HD Video Switcher, showing control buttons, knobs, and the T-fader.

2. Setup

2.1 Connecting Video Sources

The V-1HD features four HDMI input connectors.

1. Connect your HDMI video sources (cameras, computers, etc.) to the HDMI INPUT 1-4 ports on the rear panel of the V-1HD.
2. Ensure all devices output compatible resolutions (1080p/1080i/720p). The V-1HD can handle a mix of progressive and interlace signals.

2.2 Connecting Video Outputs

The V-1HD provides two HDMI output connectors.

1. Connect the HDMI OUTPUT port to your main display or recording device. This output carries the program video.
2. Connect the HDMI PREVIEW port to a monitor for viewing upcoming shots or the multi-view display.

2.3 Connecting Audio

In addition to audio embedded in HDMI signals, the V-1HD offers dedicated audio inputs.

- Connect external audio devices (e.g., audio mixer, media player) to the AUDIO IN (RCA) ports.
- Connect a microphone to the MIC input on the side panel.
- Monitor audio using headphones connected to the PHONES output on the side panel.
- Output mixed audio via the AUDIO OUT (RCA) ports.

2.4 Power Connection

Connect the included AC adapter to the DC IN port and then to a power outlet. Ensure the power switch is in the OFF position before connecting.



Figure 2: Rear panel of the Roland V-1HD, showing HDMI inputs/outputs, audio inputs/outputs, USB, and power connection.



Figure 3: Side panel of the Roland V-1HD, featuring the MIC input and PHONES output.



Figure 4: Side panel of the Roland V-1HD, showing MIDI IN and OUT/THRU ports.

3. Operating Instructions

3.1 Basic Switching

The V-1HD uses a Preview/Program switching method.

- The **PREVIEW** row of buttons (green) selects the next video source to be displayed.
- The **PROGRAM** row of buttons (red) indicates the currently live video source.
- To switch sources, select the desired input on the PREVIEW row, then use the**T-Fader** or **CUT** button to transition it to the PROGRAM output.
- The T-fader allows for manual, smooth transitions (fades, wipes, mixes). The CUT button performs an instant, hard cut.

3.2 Video Effects

The V-1HD offers various effects to enhance your video production.

- **Picture-in-Picture (PiP) / Split:** Use the dedicated buttons to activate and configure PiP or split-screen layouts. These are ideal for displaying multiple video sources simultaneously, such as during presentations or interviews.
- **Chroma Key / Luminance Key:** These effects allow for background removal (green screen) or overlaying titles. Access and adjust these settings through the on-screen menu.
- **Transitions:** Select different transition types (MIX, WIPE, TRANSFORMER) using the dedicated buttons. The T-fader controls the speed and direction of these transitions.

3.3 Audio Mixing

The integrated 12-channel digital audio mixer provides comprehensive control over your audio.

- Adjust individual audio levels for each input (HDMI 1-4, LINE IN, MIC IN) using the dedicated audio knobs.
- Utilize the **AUDIO FOLLOW** function to automatically switch audio sources when the corresponding video source

is selected.

- Apply audio delay to individual channels to ensure perfect synchronization with video. Settings are available in the on-screen menu.

3.4 Menu and Settings

The V-1HD's on-screen menu provides access to advanced settings and configurations.

- The menu is displayed on the PREVIEW screen.
- Navigate the menu using the dedicated buttons and knobs on the unit.
- Adjust parameters such as output resolution, effect details, audio processing (e.g., gate, compressor), and system settings.

4. Maintenance

To ensure the longevity and optimal performance of your Roland V-1HD, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to wipe the exterior of the unit. Avoid abrasive cleaners, solvents, or waxes.
- **Ventilation:** Ensure proper airflow around the unit. Do not block ventilation openings.
- **Storage:** Store the unit in a cool, dry place away from direct sunlight, extreme temperatures, and high humidity.
- **Firmware Updates:** Periodically check the official Roland website for firmware updates to ensure your unit has the latest features and bug fixes.

5. Troubleshooting

If you encounter issues with your V-1HD, consider the following common troubleshooting steps:

- **No Video Output:**
  - Verify all HDMI cables are securely connected.
  - Check that input sources are powered on and outputting a signal.
  - Ensure the V-1HD's output resolution is compatible with your display/recorder.
  - Confirm the correct input is selected on the PROGRAM row.
- **No Audio:**
  - Check audio cable connections for external audio inputs.
  - Verify audio levels for all channels in the audio mixer.
  - Ensure the audio output of the V-1HD is connected to an active audio system.
  - If using HDMI audio, confirm the source device is sending audio.
- **Unit Not Responding:**
  - Power cycle the unit (turn off, wait a few seconds, then turn on).
  - Disconnect and reconnect the power adapter.

For persistent issues, consult the full user manual available on the Roland website or contact Roland customer support.

6. Specifications

Feature	Detail

Product Dimensions	16 x 6 x 6 inches
Item Weight	4.45 pounds
Item Model Number	V-1HD
Manufacturer	Roland
Color	Black
Connector Type	HDMI
Compatible Devices	Camera
Cable Type	HDMI
Date First Available	November 16, 2015

7. Warranty and Support

For detailed warranty information and technical support, please refer to the official Roland website or contact your authorized Roland dealer. Keep your proof of purchase for warranty claims.
Visit Roland Support

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