VR-1HD | AV STREAMING MIXER

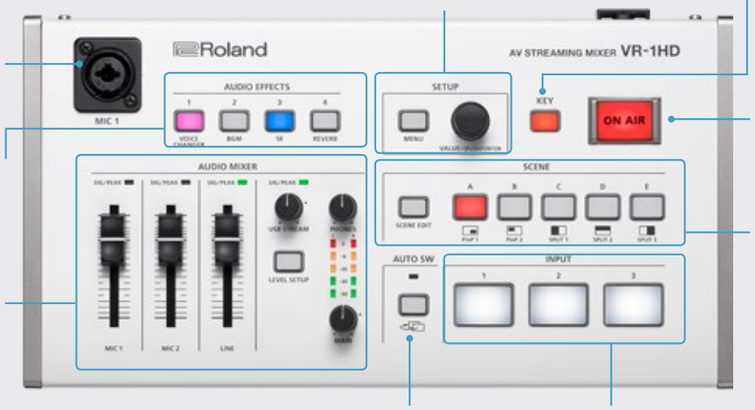
MICROPHONE INPUT 1
There are two Microphone inputs with Phantom Power available.
One on the top and one on left side.

AUDIO EFFECTS
Choose from Voice Changer, Reverb or Audio file playback and Solo/Mute functions for these 4 programable buttons.

AUDIO MIXER
Adjust the volume of the Inputs (MIC 1, MIC 2, and LINE) and Outputs (USB, PHONES, MAIN)

SETUP MENU
The on-screen menu appears on the Monitor HDMI output.
The Value knob has a push function for Enter.

KEY BUTTON
Turns key compositing on/off.



ON AIR BUTTON
The ON AIR button activates the USB streaming output on/off.

SCENE SELECTION
Choose from 5 different picture compositions. All setups are fully adjustable and you can choose between PinP and Split screen modes. There is a convenient shortcut button to the Scene Edit menu.

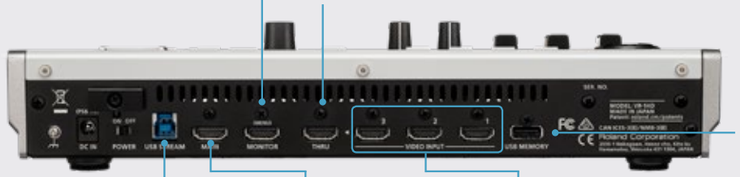
AUTO SWITCH
The Auto switch function can be set to Video follow Audio, where audio from the Mic/Line inputs can control the video channel selection.

VIDEO INPUT SELECTION

MONITOR & MENU OUTPUT

THRU CONNECTOR
The "THRU" output throughputs the video from input 3. This can used as a presenters output monitor or for recording purposes.

USB MEMORY PORT
Connect a USB flash drive here. You can load Wave files (sound efx or music) or still images as well as backup/recall your settings.



USB STREAM PORT
The USB 3.0 Streaming output transmits the main output as an uncompressed Video and Audio signal in various resolutions from 854 x 480p/25 up to 1080p/30. The USB port also accepts Audio return signal from the connected computer.

MAIN OUTPUT
The Main is scalable and supports HDCP.

VIDEO INPUTS
The 3 HDMI inputs has individual scalers that accepts a wide range of different resolutions and frame-rates. The inputs supports HDCP.

MICROPHONE INPUT 2
There are two Microphone inputs with Phantom Power available. One on the top and one on left side.



LINE IN/OUT
Connect audio inputs and outputs here.

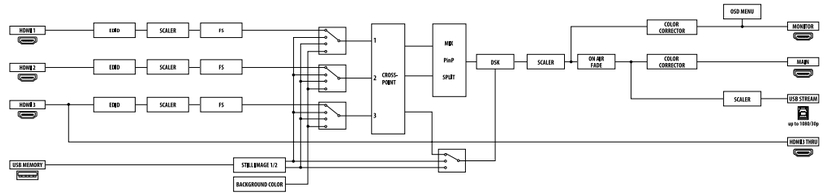
PHONES OUTPUT
Connect headphones here.

VR-1HD Makes It Easier than Ever to Broadcast Live

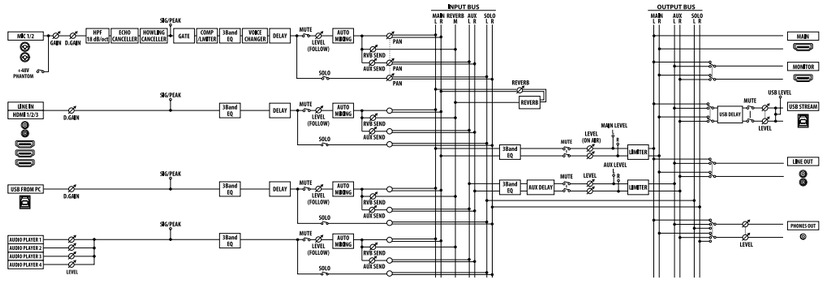
- Three HDMI inputs that accept HD and computer video resolutions
- Two-studio quality XLR microphone inputs and line input
- Mic input for a goose neck microphone making it easy for hands-free and headset-free performances
- Scene switching functionality, with five pre-set scenes that can be included 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

BLOCK DIAGRAM

VIDEO



AUDIO



Real Engagement in Realtime

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

SPECIFICATIONS VR-1HD

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

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

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

0 dBu=0.775 Vrms