

Roland VR-3EX 4-Channel SD AV Mixer with USB Stream/Record

PROCESSING	
Video Processing	4:2:2 (Y/Pb/Pr), 8 bits (Internal Processing : 480/59.94p when set to NTSC, 576/50p when set to PAL)
Audio Processing	Sampling Rate : 24 bits/48 kHz
INPUT FORMATS	
HDMI Video (VIDEO IN 1–3)	480/59.94p (when set to NTSC) 576/50p (when set to PAL)
HDMI Video (VIDEO IN 4)	480/59.94i, 480/59.94p, 720/59.94p, 1080/59.94i, 1080/59.94p (when set to NTSC) 576/50i, 576/50p, 720/50p, 1080/50i, 1080/50p (when set to PAL)
HDMI Audio (VIDEO IN 1–4)	Linear PCM, 24 bits/48 kHz, 2 ch
RGB/Component (VIDEO IN 4)	640 x 480/60Hz, 800 x 600/60Hz, 1024 x 768/60Hz, 1280 x 768/60Hz, 1280 x 1024/60Hz, 1366 x 768/60Hz, 1400 x 1050/60Hz, 1600 x 1200/60Hz, 1920 x 1200/60Hz * The refresh rate is the maximum value of each resolution. * Conforms to VESA DMT Version 1.0 Revision 11. * 1920 x 1200/60Hz : Reduced blanking
Composite Video NTSC, PAL (VIDEO IN 1–4)	NTSC, PAL
OUTPUT FORMATS	
HDMI and RGB/ Component Video (VIDEO OUT)	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 640 x 480, 800 x 600, 1024 x 768, 1280 x 768, 1280 x 1024, 1366 x 768, 1400 x 1050, 1600 x 1200, 1920 x 1200 * The output format of HDMI and RGB/Component is always the same. When an interlaced format is selected, component signal is output from the RGB/COMPONENT connector. When a non-interlaced format is selected, RGB signal is output from the RGB/COMPONENT connector. * The refresh rates of RGB format is 60 Hz when set to NTSC, 75 Hz when set to PAL (excluding 1600 x 1200 and 1920 x 1200. The refresh rate of these 2 is 75 Hz when set to PAL.) * RGB formats : Conforms to VESA DMT Version 1.0 Revision 11. * 1920 x 1200/60Hz : Reduced blanking
HDMI Audio (VIDEO OUT)	Linear PCM, 24 bits/48 kHz, 2 ch
Composite Video (VIDEO OUT)	NTSC, PAL
Preview Video (PVW OUT)	480/59.94p when set to NTSC, 576/50p when set to PAL
Preview Audio (PVW OUT)	Linear PCM, 24 bits/48 kHz, 2 ch
USB Video	720 x 480 when set to NTSC, 720 x 576 when set to PAL, Motion JPEG
USB Audio	Linear PCM, 16 bits/48 kHz, 2 ch
INPUT CONNECTORS	
Video	VIDEO IN 1–4 (HDMI : Type A 19 pins) VIDEO IN 4 (RGB/Component : HD DB-15 type) VIDEO IN 1–4 (Composite : RCA phono Type)
Audio	AUDIO IN 1–4 (XLR/TRS combo type, phantom power) AUDIO IN 5--6 (Stereo RCA phono type) AUDIO IN 7/8 (Stereo miniature type) MIC (Internal stereo microphones)
Phantom Power	DC 48V (unloaded maximum), 10 mA (maximum load) * Current value per channel
OUTPUT CONNECTORS	
Video	VIDEO OUT (HDMI: Type A 19 pins) VIDEO OUT (RGB/omponent : HD DB-15 type) VIDEO OUT (Composite : RCA phono type) PVW OUT (HDMI: Type A 19 pins)
Audio	AUDIO OUT L,R (Stereo RCA phono type) AUX OUT L,R (Stereo 1/4-inch phone type) PHONES (1/4-inch phone type) (headphones) PHONES (Stereo miniature type) (headphones)

OTHER CONNECTORS	
MIDI : 5 pins DIN type x 2 (IN, OUT/THRU)	
USB : B type x 1 (for streaming and remote control)	
SIGNAL LEVEL AND IMPEDANCE	
RGB/Component	Input/Output Signal Level : 1.0 Vp-p (luminance), 0.7 Vp-p (chroma) Input/Output Impedance : 75 ohms
Composite	Input/Output Signal Level : 1.0 Vp-p Input/Output Impedance : 75 ohms
XLR/TRS combo type	Input Signal Level : -60--+4 dBu (Maximum: +22 dBu) Input Impedance : 10 k ohms (GAIN 0–23 dB), 5 k ohms (GAIN 24–64 dB)
1/4-inch/RCA phono type	Input Signal Level : -10 dBu (Maximum: +8 dBu) Input Impedance : 15 k ohms Output Signal Level : -10 dBu (Maximum: +8 dBu) Output Impedance : 1 k ohms
Miniature type	Input Signal Level : -15 dBu (Maximum: +3 dBu) Input Impedance : 15 k ohms
Headphones	Output Signal Level: 25 mW + 25 mW Output Impedance : 10 ohms
Display	Graphic Color LCD, 320 x 240 dots, touch panel
Video Effects	Transition : Cut, Mix (3 patterns), Wipe (250 patterns) VIDEO FX : Strobe, Negative, Colorize, Findedge, Silhouette, Monochrome, Sepia, Emboss, Posterize, Color pass, Multi (11 types) Composition : Picture in Picture, Split, Quad, Luminance Key, Chroma Key Others : Output Fade, Freeze
OTHERS	
Power Supply	AC Adaptor
Current Draw	2.3 A
Accessories	AC Adaptor, Power Cord, Owner's Manual
SIZE AND WEIGHT	
Width	345 mm 13-10/16 inches
Depth	203 mm 8 inches
Height	80 mm 3-3/16 inches
Weight	2.3 kg 5 lbs. 2 oz.