

ROLAND VR-3EX SPECIFICATIONS

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.

* 0 dBu = 0.775 V rms