

ROLAND V-4EX 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, 2 ch

INPUT FORMATS

HDMI Video (INPUT 1 -- 3)

requires 720x480/59.94p (when set to NTSC), 576/50p (when set to PAL)

HDMI and Component Video (INPUT 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 (INPUT 1 -- 4)

Linear PCM, 24 bits/48 kHz, 2 ch

RGB (INPUT 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 (INPUT 1 -- 4)

NTSC, PAL

S-Video (INPUT 4)

NTSC, PAL

OUTPUT FORMATS

HDMI and RGB/Component Video (OUTPUT)

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 (OUTPUT)

Linear PCM, 24 bits/48 kHz, 2 ch

Composite Video

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

HDMI : Type A (19 pins) x 4 (INPUT 1 -- 4)
RGB/Component : HD DB-15 type x 1 (INPUT 4)
Composite : BNC type x 4 (INPUT 1 -- 4)
S-Video : 4-pin mini DIN type x 1 (INPUT 4)

Audio

RCA-pin type x 1 pair (AUDIO IN)

OUTPUT CONNECTORS

Final Output

HDMI : Type A (19 pins) x 1 (OUTPUT)
RGB/Component : HD DB-15 type x 1 (OUTPUT)
Composite : BNC type x 1 (OUTPUT)

Preview Output

HDMI : Type A (19 pins) x 1 (PVW OUT)

Other Connectors

MIDI : 5 pins DIN type x 2 (IN, OUT/THRU)
USB : B type x 1 (for streaming and remote control)

SIGNAL LEVEL IMPEDANCE

RGB/Component

Signal Level : 1.0 Vp-p (luminance), 0.7 Vp-p (chroma)
Impedance : 75 ohms

Composite

Signal Level : 1.0 Vp-p
Impedance : 75 ohms

S-Video

Signal Level : 1.0 Vp-p
Impedance : 75 ohms

Analog Audio

Nominal Input Level : - 10 dBu
Maximum Input Level : + 8 dBu
Impedance : 15 k ohms

OTHERS

Display

Graphic Color LCD, 320 x 240 dots, touch panel

Video Effects

Transition : Mix, Cut, Wipe (259 patterns)

Composition/Filter : Picture in Picture, Luminance Key, Chroma Key, Strobe, Negative, Colorize, Feedback, Emboss, Multi, Mirror etc. (148 types)

Others : Output Fade, Freeze

Power Supply

AC adaptor

Current Draw

2.0 A

Accessories

AC adaptor, Power Cord, RCA - BNC conversion plug x 2, Owner's Manual

SIZE AND WEIGHT

Width (W)

225 mm (8-7/8 inches)

Depth (D)

296 mm (11-11/16 inches)

Height (H)

105 mm (4-3/16 inches)

Weight

2.6 kg (5 lbs. 12 oz.)

All specifications and appearances are subject to change.