

# Roland Pro A/V - V-1HD<sup>+</sup> | HD Video Switcher

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## Video

### Video Processing

4:2:2 (Y/Pb/Pr), 8-bit

### Input Connectors

INPUT 1--3: HDMI type A x 3

\*HDCP Supported

INPUT 4: HDMI type A

\* HDCP Supported

\* Multi-format Supported

### Output Connectors

OUTPUT 1--2: HDMI type A x 2

\* HDCP Supported

### Input Formats

INPUT 1--3

720/59.94p, 720/60p \*1, \*3

720/50p \*1, \*4

1080/59.94i, 1080/60i, 1080/59.94p, 1080/60p, 1080/29.97p, 1080/30p \*2, \*3

1080/50i, 1080/50p, 1080/25p \*2, \*4

1080/23.98p, 1080/24p \*2

\* The input interlaced video signal is converted to progressive video signal by internal processing.

\*1 SYSTEM FORMAT = 720p

\*2 SYSTEM FORMAT = 1080i or 1080p

\*3 FRAME RATE = 59.94 Hz

\*4 FRAME RATE = 50 Hz

INPUT 4

480/59.94i, 480/59.94p, 720/59.94p, 720/60p, 1080/59.94i, 1080/60i, 1080/59.94p, 1080/60p, 1080/29.97p, 1080/30p \*1

576/50i, 576/50p, 720/50p, 1080/50i, 1080/50p, 1080/25p \*2

1080/23.98p, 1080/24p

VGA (640 x 480/60 Hz), SVGA (800 x 600/60 Hz), XGA (1024 x 768/60 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), WUXGA (1920 x 1200/60 Hz)

\* The refresh rate is the maximum value of each resolution.

\* Conforms to CEA-861-E, VESA DMT Version 1.0 Revision 11.

\* 1920 x 1200/60 Hz: Reduced blanking

\* The input interlaced video signal is converted to progressive video signal by internal processing.

\*1 FRAME RATE = 59.94 Hz

\*2 FRAME RATE = 50 Hz

### Still Image:

Bitmap File (.bmp) Maximum 1920 x 1080 pixels, 24-bit color, uncompressed.

PNG File (.png) Maximum 1920 x 1080 pixels, 24-bit color

\* It can store up to 4 files in the internal memory.

\* PNG alpha channel not supported.

### Output Formats

OUTPUT 1--2:

720/59.94p \*1, \*4

720/50p \*1, \*5

1080/59.94i \*2, \*4

1080/50i \*2, \*5

1080/59.94p \*3, \*4

1080/50p \*3, \*5

\*1 SYSTEM FORMAT = 720p

\*2 SYSTEM FORMAT = 1080i

\*3 SYSTEM FORMAT = 1080p

\*4 FRAME RATE = 59.94 Hz

\*5 FRAME RATE = 50 Hz

### Video Effects

Transition: CUT, MIX (DISSOLVE/FAM/NAM), WIPE (8 types)

Composition: PinP (SQUARE, CIRCLE, DIAMOND), SPLIT (2 types), Keyer (Luminance key, Chroma key), DSK (Luminance key, Chroma key)

Other: Flip horizontal, Flip vertical, Still image capture, Still image playback, Output fade (Audio, Video: WHITE or BLACK), Test pattern output

### Audio

#### Audio Processing

Sample rate: 24 bits/48 kHz

#### Audio formats

Linear PCM, 24 bits/48 kHz, 2 ch

#### Input Connectors

INPUT 1--4: HDMI Type A x 4

AUDIO IN 1--2: XLR-3-31 type (balanced, phantom power DC 48 V, 14 mA Max)

LINE IN: RCA phono type

MIC/AUX IN: Stereo miniature phone type (PLUG-IN power)

#### Output Connectors

OUTPUT 1--3: HDMI Type A x 2

AUDIO OUT L, R: 1/4-inch TRS phone type

PHONES: Stereo miniature phone type

#### Nominal Input Level

AUDIO IN 1--2: -60 to +4 dBu (Maximum input level: +24 dBu)

LINE IN: -10 dBu (Maximum input level: +10 dBu)

MIC/AUX IN: -51 to -10 dBu (Maximum input level: +10 dBu)

#### Input Impedance

AUDIO IN 1--2: 10 k ohms

LINE IN: 15 k ohms

MIC/AUX IN: 10 k ohms

#### Nominal Output Level

AUDIO OUT L, R: +4 dBu (Maximum output level: +24 dBu)

PHONES: 72 mW + 72 mW (32 ohms load)

#### Output Impedance

AUDIO OUT L, R: 600 ohms

PHONES: 10 ohms

#### Audio Effects

Delay, High pass filter, De-Esser, Compressor, Noise gate, Equalizer, Limiter, Reverb,  
Test tone output

#### Others

##### Other Connectors

USB MEMORY: USB A type (for USB flash drive)

REMOTE: USB B type (for remote control)

RS-232: DB-9 type (male, for remote control)

TALLY: DB-9 type (female, for TALLY output)

##### Other Functions

Preset memory (8 types)

Panel lock function

EDID emulator

Auto switching

Auto input detect

##### Power Supply

AC adaptor

##### Current Draw

2.1 A

##### Power Consumption

25.2 W

##### Operation Temperature

+0 to +40 degrees Celsius

+32 to +104 degrees Fahrenheit

##### Dimensions

316 (W) x 121 (D) x 65 (H) mm

12-1/2 (W) x 4-13/16 (D) x 2-9/16 (H) inches

##### Weight (excluding AC adaptor)

1.4 kg

3 lbs 2 oz

##### Accessories

Startup Guide

Leaflet "USING THE UNIT SAFELY"

AC adaptor

Power cord

\* 0 dBu = 0.775 Vrms