

Roland V-1200HD

Video

Processing

4: 4: 4 (Y/Pb/Pr / RGB), 10-bit /

4: 2: 2 (Y/Pb/Pr), 10-bit

Input Connectors

3G/HD/SD-SDI: BNC type x 10 * Conforms to SMPTE 424M (SMPTE 425M-AB), 292M, 259M-C

HDMI: type A x 2 (HDMI INPUT 1--2) * HDCP Not supported

HDMI: type A x 2 (HDMI INPUT 3--4) * HDCP Supported., Multi-format Supported.

Output Connectors

3G/HD/SD-SDI: BNC type x 6 * Conforms to SMPTE 424M (SMPTE 425M-AB), 292M, 259M-C

HDMI: type A x 2 (HDMI OUTPUT 1--2) * HDCP Supported

HDMI: type A x 2 (HDMI OUTPUT MULTI-VIEW 1 * HDCP Not required, 1080/59.94p)

(HDMI OUTPUT MULTI-VIEW 2 * HDCP Required, 1080/59.94p)

Formats

SDI: 480/59.94i, 576/50i, 720/59.94p, 720/50p, 1080/59.94i, 1080/50i, 1080/59.94p, 1080/50p

* Conforms to SMPTE 274M, SMPTE 296M, ITU-R BT.601-5

HDMI: 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, 1024x768/60*1, 1280x720/60*1, 1280x800/60*1, 1366x768/60*1, 1280x1024/60*1, 1400x1050/60, 1600x1200/60, 1920x1080/60, 1920x1200/60 * Conforms to CEA-861-E, VESA DMT Version 1.0 Revision 11

* The output format of HDMI1,2 and SDI is always the same.

* 1 Output refresh rate is 75 Hz when frame rate is set to 50 Hz.

Frame rate: 59.94 (NTSC) or 50 (PAL)

MULTI-VIEW 1--2: 1080/59.94p

Effects

(4:2:2 Processing)

M/E: 1 M/E, 1.5 M/E, 2 M/E (9 patterns)

Transition: Mix, NAM*, FAM*, Cut, Wipe, Slide*, Squeeze* * PGM/PST only

Composition (Keyer): 4 channels * The number of composition depends on M/E, PinP, Chroma Key, Luminance Key, External

Key supported

AUX: 2 * The number of AUX depends on M/E

Others: Output Fade, Freeze, Capture, Composition Edit, SDI Output Patchbay

Effects

(4:4:4 Processing)

M/E: 1 M/E, Matrix, Scaler

Input: 4 (4:2:2 Processing outputs x 2, HDMI INPUT 3, HDMI INPUT 4)*

Transition: Mix, Cut*

Keyer: Luminance Key (1 M/E)*

Others: HDCP Supported, Output Fade, Output Cropping, Signal Generator*

* The function depends on M/E

Still Image

Still Image Inputs: 2, Internal Memory: 16, Maximum 1920x1080 pixels

Format: Windows Bitmap File (.bmp) 24 bit per pixel, uncompressed, Portable Network Graphic File (.png) * Alpha channel

Supported.

Multiviewer

MULTI-VIEW 1 (4:2:2 Processing): 16/10 screens, Audio Level, Label, Tally * HDCP Not required

MULTI-VIEW 2 (4:4:4 Processing): 4 screens, Audio Level, Label, Tally, OSD Setup Menu

* HDCP Required

Proc. Amp.

Equipped with all inputs

Audio

Processing

Sampling Rate : 24 bits/48 kHz

Input Connectors

3G/HD/SD-SDI: BNC type x 4 (Ch7-10), HDMI x 4, AUDIO IN (XLR/TRS) L (1/2),R (3/4)

* Analog Audio or AES/EBU

Output Connectors

3G/HD/SD-SDI: BNC type x 4 (Ch1-4), HDMI x 2, AUDIO OUT (XLR/TRS) L (1/2),R (3/4)

* Analog Audio or AES/EBU

Input Level and Impedance

AUDIO IN: -68--+4dBu (Maximum: +22dBu, 4k ohms)

Output Level and Impedance

AUDIO OUT: +4dBu (Maximum: +22dBu, 600 ohms)

Formats

SDI: Linear PCM, 24bits, 48kHz, 16ch * Conforms to SMPTE 299M, SMPTE272M-C

HDMI: Linear PCM, 24bits, 48kHz, 2ch

AES/EBU: Linear PCM, 24bits, 48kHz, 4ch

Effects

Patchbay: 92 inputs x 92 outputs Delay: 16ch

Mixer: 16ch, channel Effects: 3-Band EQ, Delay Master Effects: Mastering, 3-Band EQ, Reverb

Others

Expansion Slot

Slot: 2, Internal video bus: Input 2, Output 2 / Internal audio bus: Input 16ch, Output 16ch * 2 slots total

Phase adjustment

±1080 Lines

Reference

Input: BNC type x 1

Output/Through: BNC type x 1

* Black Burst (Sync to frames), Bi-Level, Tri-Level

* Through when using an Input.

External Connectors

RS-232: D-Sub 9 pin type x 1 * for Remote Control * 9600/38400bps, Data 8bit, Stop 1bit, Parity None, Flow XON/XOFF, ASCII Code Set

RS-422: D-Sub 9 pin type x 1 * for VISCA Control

TALLY/GPIO: D-sub 25 pin type x 1 (Input: 8, Output: 16)

LAN: RJ45 100Base-TX (Connect to V-1200HDR or Computer (V-1200HDRCS)), Maximum: V-1200HDR or V-1200HDRCS x 2

USB: A type x 2 USB Memory / Use for future expansion

Memory

8 * Last Memory Function

User Function Button

32 * 16 buttons x 2 banks

Remote Camera Control

RS-422: D-Sub 9 pin type x 1 Protocol: VISCA

* 9600/38400bps, Data 8bit, Stop 1bit, Parity None, Flow None, Maximum: 7 Units

Remote Controller

V-1200HDR Control Surface * Option

V-1200HD RCS * Windows7 or later / Mac OSX

Power Supply

AC 100V, DC 24V/10A (XLR-4-32 type) * Redundant Power Supply * 240W

Operation Temperature

+0 to +40 degrees Celsius +32 to +104 degrees Fahrenheit

Dimensions

Width: 430 mm / Depth: 357 mm / Height: 132.5 mm * EIA-3U rack mount size

Weight

9.0 kg

Accessories

Power Cord, Rack Mount Angle (2), Input Template, Owner's Manual