

Roland V-1200HD Multi-Format Video Switcher/2 M/E with Audio

Processing

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

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

Input Connectors

3G/HD-SDI: BNC typx 10 * Conforms to SMPTE 424M (SMPTE 425M-AB), 292M

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-SDI: BNC type x 6 * Conforms to SMPTE 424M (SMPTE 425M-AB), 292M

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: 1080/59.94p, 1080/50p

* Conforms to SMPTE 274M

HDMI: 480/59.94i, 576/50i, 480/59.94p, 576/50p, 720/59.94p, 720/50p, 1024x768/60 (*1), 1280x720/60 (*1), 1280x800/60 (*1), 1366x768/60 (*1), 1280x1024/60 (*1), 1400x1050/60 (*1), 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.

* Frame rate is 59.94(NTSC) or 50(PAL)

* MULTI-VIEW 1,2 output is 1080/60p always.

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

Effects

(4:2:2 Processing)

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

Transition: Mix, NAM (*2), FAM (*2), Cut, Wipe

Composition (Keyer): 4 (PinP, Luminance Key, Chroma Key, External Key supported)

AUX: 2

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

*These effects depends on M/E type.

(*2) PGM/PST only

Effects

(4:4:4 Processing)

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

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

Transition: Mix, Cut

Composition (Keyer): 1 (PinP, Luminance Key)

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

*These effects depends on M/E type.

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, Label, Tally * HDCP Supported

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

* HDCP Required

AUDIO

Processing

Sampling Rate : 24 bits/48 kHz

Input Connectors

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

* Analog Audio or AES/EBU

Output Connectors

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

* Analog Audio or AES/EBU

Input Level and Impedance

AUDIO IN: +4dBu (Maximum: +22dBu, 15k ohms)

Output Level and Impedance

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

Formats

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

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

*The video a maximum of 2 inputs 2 outputs and the audio a maximum of 16 inputs 16 outputs can treat in 2 slots sum total.

Reference

Input: BNC type x 1

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

Output/Through: BNC type x 1

*Black Burst (Sync to frames)

External Connectors

RS-232: DB-9 type (Male) x 1 *for Remote Control

RS-422: DB-9 type (Female) x 1 *for VISCA Control

TALLY/GPIO: DB-25 type (Female) x 1 (Input: 8, Output/Tally: 16)

LAN: RJ45 100BASE-TX (Connect to V-1200HDR or Computer (V-1200HD RCS))

USB: A type *USB Memory

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

Remote Controller

V-1200HDR Control Surface * Option

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

Power Supply

AC 117 V, AC 220 V, AC 230 V, AC 240 V (50/60 Hz)

DC 24 V (XLR-4-32 type)

* Redundant Power Supply

Operation Temperature

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

Dimensions

482 (W) x 357 (D) x 133 (H) mm

19 (W) x 14-1/16 (D) x 5-1/4 (H) inches

* EIA-3U rack mount size

Weight

9.0 kg 19 lbs 14 oz

Accessories

Power Cord, Rubber Feet (4), Owner's Manual