

Main Specifications

Roland V-1SDI: 3G-SDI Video Switcher

Video		
Video Processing	4:2:2 (Y/Pb/Pr), 8-bit	
Input Connectors	SDI INPUT 1-3	BNC x 3 * Conforms to SMPTE 424M (SMPTE 425M-AB), 292M
	HDMI INPUT 3-4	Type A (19 pins) x 2 * HDCP Supported * INPUT 3: SDI or HDMI selected.
Output Connectors	SDI OUT PGM	BNC x 1 * Conforms to SMPTE 424M (SMPTE 425M-AB), 292M
	SDI OUT PVW	BNC x 1 * Conforms to SMPTE 424M (SMPTE 425M-AB), 292M
	HDMI OUT MULTI-VIEW	Type A (19 pins) x 1 * HDCP Supported
Input formats (*1)(*2)	SDI INPUT 1-3 (*3) HDMI INPUT 3	720/59.94p, 720/50p (FORMAT switch = 720p) 1080/59.94i, 1080/50i 1080/59.94p, 1080/50p (FORMAT switch = 1080i or 1080p)
	HDMI INPUT 4	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, VGA (640 x 480/60 Hz), SVGA (800 x 600/60 Hz), XGA (1024 x 768/60 Hz), WXGA (1280 x 768/60 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 VESA DMT Version 1.0 Revision 11. * 1920 x 1200/60 Hz: Reduced blanking
Output formats (*2)	SDI OUT PGM (*3)	720/59.94p, 720/50p (FORMAT switch = 720p)
	SDI OUT PVW (*3)	1080/59.94i, 1080/50i (FORMAT switch = 1080i)
	HDMI OUT MULTI-VIEW	1080/59.94p, 1080/50p (FORMAT switch = 1080p)
Video Effects	Transition	CUT, MIX (DISSOLVE/FAM/NAM/MOSAIC), WIPE (30 types)
	Composition	PinP, SPLIT, QUAD, DSK (Luminance Key, Chroma Key)

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

*2: The video signal frame rate can be selected at the SETUP menu (59.94 or 50).

*3: Conforms to SMPTE 296M, SMPTE 274M

Audio		
Audio Processing	Sampling rate	24 bits/48 kHz
Audio formats	SDI	Linear PCM, 24 bits/48 kHz, 2ch * Conforms to SMPTE 299M
	HDMI	Linear PCM, 24 bits/48 kHz, 2ch
Input Connectors	Digital	SDI INPUT 1-3 (BNC) x 3 HDMI INPUT 3-4 (HDMI Type A 19 pins) x 2
	Analog	AUDIO IN (RCA phono type) MIC (Stereo mini type, plug-in power supported)
	Output Connectors	SDI OUT PGM: BNC x 1 SDI OUT PVW: BNC x 1 HDMI OUT MULTI-VIEW: Type A (19 pins) x 1
Input Level	AUDIO IN	-10 dBu (Maximum: +8 dBu)
	MIC	-41 -13 dBu (Maximum: -1 dBu)
Input Impedance	AUDIO IN	15 k ohms
	MIC	10 k ohms
Output Level	AUDIO OUT	-10 dBu (Maximum: +8 dBu)
	PHONES	92 mW + 92 mW (32 ohms)
Output Impedance	AUDIO OUT	1k ohms
	PHONES	10 ohms
Audio Effects	EQ, Delay, Compressor, HPF, Gate, Reverb, Mastering effect	

Other Connectors	
USB	B Type (for remote control from PC)
RS-232	DB-9 type
Other Functions	
MEMORY (8 types), FREEZE (input video captured), OUTPUT FADE (Audio, Video: WHITE or BLACK)	
Others	
Power Supply	AC Adaptor
Current Draw	2.1 A
Power Consumption	25 W
Operation Temperature	+0 to +40 degrees Celsius +32 to +104 degrees Fahrenheit
Dimensions	313 (W) x 108 (D) x 59 (H) mm 12-1/3 (W) x 4-1/4 (D) x 2-1/3 (H) inches
Weight	1.2 kg 2 lbs 10-2/5 oz
Accessories	Owner's Manual, AC adaptor, Power cord, Cord hook

* 0 dBu=0.775 Vrms

* This document explains the specifications of the product at the time that the document was issued. For the latest information, refer to the Roland website.

Dimensions

