

# Main Specifications

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

| ■ Video                        |                                    |   |
|--------------------------------|------------------------------------|---|
| <b>Video Processing</b>        | 4:2:2 (Y/Pb/Pr), 8-bit             |   |
| <b>Input Connectors</b>        | 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.  |
| <b>Output Connectors</b>       | 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   |
| <b>Input formats (*1) (*2)</b> | SDI INPUT 1-3 (*3)<br>HDMI INPUT 3 | 720/59.94p, 720/50p (FORMAT switch = 720p)<br>1080/59.94i, 1080/50i<br>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,<br>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)<br>* The refresh rate is the maximum value of each resolution.<br>* Conforms to VESA DMT Version 1.0 Revision 11.<br>* 1920 x 1200/60 Hz: Reduced blanking |
| <b>Output formats (*2)</b>     | 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)   |
| <b>Video Effects</b>           | 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

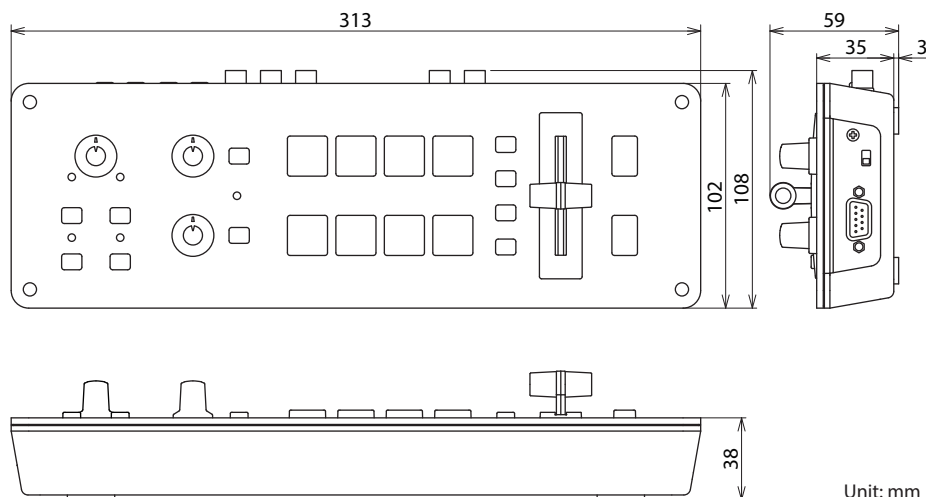
| ■ Audio                  |  |   |
|--------------------------|--|---|
| <b>Audio Processing</b>  | Sampling rate  | 24 bits/48 kHz  |
| <b>Audio formats</b>     | SDI  | Linear PCM, 24 bits/48 kHz, 2ch * Conforms to SMPTE 299M                                  |
|                          | HDMI   |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

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



Unit: mm