

# Roland V-40HD 4-Channel Multi-Format Video Switcher

VIDEO PROCESSING	
Sampling rate	4:4:4 (Y/Pb/Pr), 10 bits *Output signal processing is 4:2:2/8-bit.
Audio processing	24 bits/48 kHz, 2ch
INPUT FORMATS	
HDMI video	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 640 x 480/60 Hz, 800 x 600/60 Hz, 1024 x 768/60 Hz, 1280 x 768/60 Hz, 1280 x 1024/60 Hz, 1366 x 768/60 Hz, 1400 x 1050/60 Hz, 1600 x 1200/60 Hz, 1920 x 1080/60 Hz, 1920 x 1200/60 Hz
HDMI audio	Linear PCM, 24 bits/48 kHz, 2ch
RGB/ Component	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 640 x 480/60 Hz, 800 x 600/60 Hz, 1024 x 768/60 Hz, 1280 x 768/60 Hz, 1280 x 1024/60 Hz, 1366 x 768/60 Hz, 1400 x 1050/60 Hz, 1600 x 1200/60 Hz, 1920 x 1080/60 Hz, 1920 x 1200/60 Hz
Composite	NTSC, PAL
OUTPUT FORMATS	
HDMI video	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 640 x 480/60 Hz, 800 x 600/60 Hz, 1024 x 768/60 Hz, 1280 x 768/60 Hz, 1280 x 1024/60 Hz, 1366 x 768/60 Hz, 1400 x 1050/60 Hz, 1600 x 1200/60 Hz, 1920 x 1200/60 Hz
HDMI audio	Linear PCM, 24 bits/48 kHz, 2ch
RGB/ Component	480/59.94p, 576/50p, 720/59.94p, 720/50p, 1080/59.94p, 1080/50p 640 x 480/60 Hz, 800 x 600/60 Hz, 1024 x 768/60 Hz, 1280 x 768/60 Hz, 1280 x 1024/60 Hz, 1366 x 768/60 Hz, 1400 x 1050/60 Hz, 1600 x 1200/60 Hz, 1920 x 1200/60 Hz
Composite	NTSC, PAL
Preview (HDMI)	Video: 1920 x 1080/60 Hz (fixed) *When INPUT is selected, the sources are displayed using a reduced frame rate. Audio: Linear PCM, 24 bits/48 kHz, 2ch
INPUT JACKS	
Video/Audio	HDMI: Type A (19 pins) x 4 ( INPUT 1--4) RGB/Component: HD DB-15 type x 4 ( INPUT 1--4) Composite: BNC type x 4 (INPUT 1--4)
Audio	1/4-inch TRS phone type ( balanced/unbalanced) x 1 pair ( AUDIO INPUT)
OUTPUT JACKS	
Video/Audio	HDMI: Type A (19 pins) x 2 (OUTPUT 1/2) RGB/Component: HD DB-15 type x 2 (OUTPUT 1/2) Composite: BNC type x 1 (OUTPUT 1)
Preview	HDMI: Type A (19 pins) x 1
OTHER JACKS	
Tally	HD DB-15 type x 1 (max input: 12 V/200 mA, Open collector type)
MIDI	5 pins DIN type x 2 ( IN, OUT/THRU)
RS-232C	9 pins D-sub type x 1
USB	A type x 1 ( host, for USB memories )
SIGNAL LEVEL /IMPEDANCE	
RGB/ Component	Signal level: 0.7Vp-p( H,V:5VTTL) Impedance: 75 ohms
Composite	Signal level: 1.0 Vp-p ( luminance), 0.286 Vp-p (chroma(NTSC) ), 0.3 Vp-p (chroma(PAL)) Impedance: 75 ohms
Analog audio	Nominal input level: +4 dBu Maximum Input Level: +22 dBu Impedance: 15 k ohms
VIDEO EFFECTS	
Transition	Mix, Cut, Wipe ( 9 patterns )

Composition	Picture in Picture DSK (Luminance Key, Chroma Key)
Others	Output Fade
AUDIO EFFECTS	
Delay	0.0-12.0 frames
OTHERS	
Display	7 segments, 3 characters LED
Power Supply	DC 12 V (AC Adaptor)
Current Draw	2.6A
Accessories	AC Adaptor (4 pins XLR type connector ) Power Cord RCA-BNC conversion plug x 4 Owner's manual
SIZE AND WEIGHT	
Width	317 mm 12-1/2 inches
Depth	266 mm 10-1/2 inches
Height	108 mm 4-5/16 inches
Weight	3.4 kg 7 lbs. 8 oz.