

Main Specifications

Roland V-600UHD: 4K HDR MULTI-FORMAT VIDEO SWITCHER

9 Processing			
Video Processing	4:4:4 (Y/Pb/Pr), 10-bit		
Supported Video Input Formats (*1)	HDMI	Video, CEA-861-F	720/50p, 720/59.94p, 1080/59.94i, 1080/50i, 1080/59.94p, 1080/50p, 2160/59.94p (UHD 4K), 2160/50p (UHD 4K), 2160/59.94p (DCI 4K), 2160/50p (DCI 4K)
		PC, VESA DMT	1600 x 1200/60 Hz (UXGA)
		PC, VESA DMT	1024 x 768/60 Hz (VGA)
		PC, VESA CVT	1280 x 768/60 Hz (WXGA)
		PC, VESA DMT	1280 x 1024/60 Hz (SXGA)
		PC, VESA CVT	1400 x 1050/60 Hz (SXGA+)
		PC, CEA-861-F	1920 x 1080/60 Hz (FHD)
		PC, VESA CVT	1920 x 1200/60 Hz (WUXGA, Reduced blanking)
	RGB	PC, VESA DMT	1600 x 1200/60 Hz (UXGA)
		PC, CEA-861-F	1920 x 1080/60 Hz (FHD)
	SDI	Video, SMPTE ST274	1080/59.94i, 1080/50i, 1080/59.94p, 1080/50p
		Video, SMPTE ST2036	2160/59.94p (UHD 4K), 2160/50p (UHD 4K)
		Video, SMPTE ST2048	2160/59.94p (DCI 4K), 2160/50p (DCI 4K)
	Still Image	Windows Bitmap File (.bmp), Maximum 4096 x 2160 pixels, 24-bit per pixel, uncompressed	
		PNG File (.png), Maximum 4096 x 2160 pixels * Alpha channel of PNG file is not loaded.	
	Pattern Generator:		12 patterns, 4 motions
Supported Video Output Formats (*1)	HDMI	Video, CEA-861-F	1080/59.94p, 1080/50p, 2160/59.94p (UHD 4K), 2160/50p (UHD 4K), 2160/59.94p (DCI 4K), 2160/50p (DCI 4K)
		PC, CEA-861-F	1920 x 1080/30 Hz (FHD) (*2), 1920 x 1080/60 Hz (FHD), 3840 x 2160/30 Hz (UHD 4K), 3840 x 2160/60 Hz (UHD 4K), 4096 x 2160/30 Hz (DCI 4K), 4096 x 2160/60 Hz (DCI 4K)
		MULTI-VIEW, PC, CEA-861-F	1920 x 1080/60 Hz (FHD)
	SDI	Video, SMPTE ST274	1080/59.94p, 1080/50p
		Video, SMPTE ST2036	2160/59.94p (UHD 4K), 2160/50p (UHD 4K)
		Video, SMPTE ST2048	2160/59.94p (DCI 4K), 2160/50p (DCI 4K)
Video Effects	Transition		Mix, Cut, Wipe (9 patterns)
	Composition		PinP, Key (*3), PinP + Key (*3)
	DSK		PinP, Key (*3), PinP + Key (*3)
	Others		Output Fade, Output Freeze, Output Capture
Audio Processing	24 bits/48 kHz		
Audio formats	SDI IN/OUT	Linear PCM, 24 bits/48 kHz, 16 ch (Conforms to SMPTE 299M)	
	HDMI IN/OUT	Linear PCM, 24 bits/48 kHz, 2 ch	
Audio Effects	Matrix mixer Delay (1 ms units, max 500 ms) Test tone output		
	Memory (64 settings)		
Other Functions	EDID Emulator (HDMI IN)		
	Panel Lock function		
	Remote Camera Control		

(*1) Conforms to VESA DMT, VESA CVT, CEA-861-F
Color Gamut: Rec.709, Rec.2020
Dynamic Range: SDR, HDR PQ (HDR10), HDR HLG

(*2) "1920 x 1080/30 Hz (FHD)" is output when the following settings are used.

5 In System menu0Processing0Format: 3840x2160

5 In System menu0Frame Rate: 30Hz

5 In Output menu0HDMI OUT 1-30Down Convert: Enabled

(*3) Luminance Key, Chroma Key

Appendix

9 Connectors		
Input Connectors	HDMI IN 1–4 connectors	HDMI type A (HDMI 2.0)
	SDI IN 5–6 connectors	BNC type (12G/3G/HD-SDI, Conforms to SMPTE 2082, 424M (Level-A, Level-B), 292M)
	RGB IN 1 connector	HD DB-15 type (Analog RGB, Select HDMI IN 1 or RGB IN 1 using menu)
	AUDIO IN L/R connectors (*4)	XLR-3-31 type (balanced)
Output Connectors	SDI OUT connector	BNC type (12G/3G-SDI, Conforms to SMPTE 2082, 424M (Level-A, Level-B))
	HDMI OUT 1–3 connectors	HDMI type A (HDMI 2.0)
	MULTI-VIEW connector	HDMI type A (HDMI 1.4)
	AUDIO OUT L/R connectors (*4)	XLR-3-32 type (balanced)
Other Connectors	PHONES jack	Stereo miniature phone type
	USB MEMORY port	USB A type (for USB flash drive)
	RS-232 connector	DB-9 type (Male) (for Remote Control)
	LAN port	RJ45 type, 100BASE-TX (for Remote Control)
	TALLY/GPI port	DB-25 type (Female) (Tally: 16, GPI: 8)

(*4) XLR type: 1 GND, 2 HOT, 3 COLD

9 Audio Input/Output Characteristics		
Input Level	AUDIO IN L/R	+4 dBu (Maximum: +24 dBu)
Input Impedance	AUDIO IN L/R	15 kΩ
Output Level	AUDIO OUT L/R	+4 dBu (Maximum: +24 dBu)
	PHONES	92 mW + 92 mW (32 Ω)
Output Impedance	AUDIO OUT L/R	600 Ω
	PHONES	10 Ω

9 Others	
Power Consumption	80 W
Dimensions	482 (W) x 300 (D) x 116 (H) mm 19 (W) x 11-13/16 (D) x 4-5/8 (H) inches * When rack mount angles are fitted.
Weight	5.3 kg 11 lbs 11 oz * Including rack mount angles.
Operation Temperature	+5 to +40 degrees Celsius +41 to +104 degrees Fahrenheit
Accessories	Owner's Manual Power cord Rack-mount angle x 2

* 0 dBu = 0.775 Vrms

* This product is a Class A digital device under FCC part 15.

Dimensions

Unit: mm

