

## VRP-100 Datasheet

### 1. Specifications

#### Basic specifications

Temperature	0°C to 40°C
Humidity	30% to 90% (no condensation)
Power	AC100V to 240V $\pm$ 10%, 50/60Hz
Consumption	Standard (no option): 105W at 100 to 120V 109W at 220 to 240V Full options: 188W at 100 to 120V 178W at 220 to 240V
Dimensions	430 (W) x 88 (H) mm x 235(D)mm, EIA 2RU
Weight	Standard (no option): 6kg Full options: 7.6kg
Consumables (at 24-hour operation)	Power supply unit: Replace every 5 years Cooling fan: Replace every 4 years

#### Technical specifications

Video format	3G-SDI	1080/59.94p, 1080/50p (Level-A)
	HD-SDI	1080/59.94i, 1080/50i, 720/59.94p, 720/50p, 1080/29.97psf
Signal Processing	4:2:2:4 Component	
Quantization	10-bit	
Video Inputs	1.5Gbps or 3Gbps 75 $\Omega$ BNC x 8 (Max. 14)	
Video Inputs (Optional)	Input modules: Max. 2 (Total of input/output modules: Max. 3)	
HVS-100DI-A	HD-SDI: 1.5 Gbps or 3G-SDI: 3Gbps 75 $\Omega$ BNC x 4 or x 2	
HVS-100PCI (RGB)	x 2 (HDCP unsupported), HDMI (Type A), VGA 1080i: XGA to WUXGA, HDTV 1080p: HDTV 720p: XGA to WXGA, HDTV 1080psf: XGA~WUXGA, HDTV	
Video Outputs	1.5Gbps or 3Gbps 75 $\Omega$ BNC x 4 (Max. 8) HDMI: Ch1 and Ch2 of embedded audio pass through for HD signals	
Video Outputs (Optional)	Output modules: Max. 2 (Total of input/output modules: Max. 3)	
HVS-100DO	HD-SDI: 1.5 Gbps or 3 Gbps BNC x 2	
HVS-100PCO (HDMI:RGB)	x 2 (HDCP unsupported) HDMI(Type A), VGA 1080i: SXGA, UXGA, WUXGA, WSXGA, HDTV 1080p: HDTV 720p: SXGA, WXGA, HDTV 1080psf: SXGA, UXGA, WUXGA, WSXGA, HDTV	
Genlock Input	BB: NTSC: 0.429 Vp-p (NTSC)/PAL: 0.45 Vp-p, Tri-level sync: 0.6Vp-p, 75 $\Omega$ BNC x 1 loopthrough (terminate at 75 $\Omega$ when not used)	

Genlock Output	BB: NTSC: 0.429 Vp-p (NTSC)/PAL: 0.45 Vp-p, Tri-level sync: 0.6Vp-p, 75Ω BNC x 1
Input Output Delay	3G-SDI: Approx. 3μs at minimum delay HD-SDI: Approx. 6μs at minimum delay 0 to 1 frame + min. delay (FS) 1 to 2 frames + min. delay (FS+CK) 1 to 2 frames + min. delay (FS+CK1+CK2) 2 to 12 frames + min. delay (FS+CK1+CK2+delay line)
FS	All inputs with frame synchronizer function. Ancillary data will be deleted when FS is activated.
Chroma Keyer	Internal 4:4:4:4 RGBA 13-bit processing (for color space conversion and up-sampling)
Proc Amp	Luminance level and Black level are settable
Color Adjustment	Chroma Clip, White Clip and Black Clip are settable
DSK	Mixing methods: Selectable from Normal/ Add/ Full.
	Priority change: 5 layers
	Key Clip, Key Gain, and Transparency are settable.
Event memory	100 events
Multiviewer Channel	x1 (2/ 4/ 5 /7 /9 /10 /11 /16 division patterns) Title and tally display
Camera Delay	Adjustable from 0H to 10 frames
Interface	
Ethernet	100BASE-TX RJ-45 x 1
RS-422	9-pin D-sub female x 2
GPI IN/TALLY OUT	25-pin D-sub female x 1 (24 inputs/ outputs)

### Options

VRP-100RU	Remote control unit
HVS-100DO HVS-100PCO	Optional output module (Max. 4 outputs)
HVS-100DI-A HVS-100PCI	Optional input module (Max. 6 inputs)

### Accessories

AC cord, Rack mount brackets, Rubber feet, CD-ROM, and Packing List

**2. External Dimensions**

(All dimensions in mm.)

