

4K/HD Video Switcher

HVS-6000 "HANABI"

Preliminary



FOR.A[®]

HANABI

4K/HD VIDEO SWITCHER

HVS-6000

Offering 4K(UHD) and 12G-SDI support, maximum 80 input/32 output or 64 input/48 output, the HVS-6000 is ideal for upgrading from HD to 4K(UHD)



Designed for use in 4K(UHD) systems, the HVS-6000 brings 12G-SDI compatibility to all inputs and outputs. Users can operate the unit in the same manner as current HD systems. In an era of video over IP, the HVS-6000 anticipates these needs and enables IP interfaces to be mounted on all I/O slots*.

*Planned for future support

Features

- Up to 80 in/32 out or 64 in/48 out, all inputs and outputs support 12G-SDI single link
- IP input/output support planned for future use
- 3 M/Es with split M/E, 4 keyers per M/E
- Frame synchronization and still store available for inputs
- Gearbox function available for I/O
- Color corrector for input and output video, mutual HDR and SDR conversion, and up/down function
- 2 channels of multi viewer or 4 channels of DSK
- Control panels: HVS-2120ROU, HVS-2240OU, HVS-3320OU and HVS-3355OU (custom-ordered)

2 models available

- **HVS-6000**
 - 2 M/E standard, expandable 3 M/E
 - Up to 80 in/32 out or 64 in/48 out in 12G-SDI
 - 12 RU
- **HVS-6000M**
 - 2 M/E standard
 - Up to 32 in/24 out in 12G-SDI
 - 7 RU

*HVS-6000M is planned for future release.



Specifications
<Preliminary>

	HVS-6000	HVS-6000M*
Video formats	2160/59.94p (2SI), 1080/59.94i	
Video inputs	12G/3G/1.5G-SDI, 75Ω, BNC	
Video inputs (optional) HVS-6000SDI	12G/3G/1.5G-SDI, 75Ω, BNC x 8	
Number of video inputs	Standard: SDI x 24 (with 3 HVS-6000SDI cards installed) Max.: SDI x 80 (with 7 HVS-6000SDI cards added (using 5 input slots and 2 I/O slots))	Standard: SDI x 24 (with 3 HVS-6000SDI cards installed) Max.: SDI x 32 (with 1 HVS-6000SDI cards added)
Video outputs	12G/3G/1.5G-SDI, 75Ω, BNC	
Video outputs (optional) HVS-6000SDO	12G/3G/1.5G-SDI, 75Ω, BNC x 8	
Number of video outputs	Standard: HD-SDI x 24 (with 2 HVS-6000ME cards and 2 HVS-6000SDO installed) Max.: SDI x 48 (with 1 HVS-6000ME card (4 outputs), 1 HVS-6000MVK card (4 outputs) and 2 HVS-6000SDO cards (using I/O slots) added)	Standard: HD-SDI x 24 (with 2 HVS-6000ME cards and 2 HVS-6000SDO installed)
Signal processing	4: 2: 2: 4, digital component	
Number of M/E	Standard: 2 M/E (with 2 HVS-6000ME cards installed) Max.: 3 M/E (with 1 HVS-6000ME cards added)	Standard: 2 M/E (with 2 HVS-6000ME cards installed)
Effect	WIPE: 100 patterns (modification capability included)/ DVE WIPE: 30 patterns or more (modification capability and user patterns included)	
Transition	Available controller: Fader controller, AUTO or CUT button/Type: MIX or WIPE (DVE and CG WIPE included)	
Still/clip store	4 channels (with KEY) store up to 1800 frames at 2160/59.94p resolution (approx. 30 seconds uncompressed RAM) Frame memories in FS provided for inputs are used for storage Automatic backup/resume function	2 channels (with KEY) store up to 1800 frames at 2160/59.94p resolution (approx. 30 seconds uncompressed RAM) Frame memories in FS provided for inputs are used for storage Automatic backup/resume function
Keyer	16 channels (4 keyers for each M/E and 4 DSKs)	8 channels (4 keyers for each M/E)
Multi-viewer	2 channels	—
Event memory	Global: 100 events, Local: 100 events, Keyer: 8 events, Control panel: 10 events	
Macro function	100 macros	
Sequence	20 patterns	
User pattern	20 patterns	
Genlock input	BB: NTSC: 0.429 Vp-p/PAL: 0.45 Vp-p or Tri-level sync: 0.6 Vp-p, 75Ω, BNC x 1, loop-through (to be terminated with 75Ω terminator, if unused)	
I/O delay	Minimum delay: 4K: 2H (depends on used functions: FS, re-size engine, DVE or MV)	
External memory port	USB memory ports	
Interface	LAN1 (MAIN)/LAN2 (SUB): 1000BASE-T, RJ-45 x 2, for OU and other external control unit connection GPI IN: 15-pin D-sub (female) for 12 inputs GPI IN OUT/TALLY OUT: 25-pin D-sub (female) for 23 outputs, +5v: 1 output, GND: 1 output RS-422: 9-pin D-sub (female) x 6 ALARM: 9-pin D-sub (female), Relay terminal: for FAN and power supply HVS-2120ROU: RJ-45 x 2 HVS-2240OU: RJ-45 x 2, GPI IN/TALLY OUT 25-pin D-sub (female) for 12 inputs/12 outputs HVS-3320OU: RJ-45 x 2, GPI IN/TALLY OUT 25-pin D-sub (female) for 12 inputs/12 outputs HVS-3355OU: RJ-45 x 2, GPI IN/TALLY OUT 25-pin D-sub (female) for 12 inputs/12 outputs	
Temperature/humidity	0°C to 40°C/30% to 90% (no condensation)	
Power/consumption	HVS-6000: 100 V AC to 240 V AC ±10%, 50/60 Hz/ 1800 W (at 100 V to 120 V), 1800 W (at 220 V to 240 V) (incl. optional cards) HVS-2120ROU: 100 V AC to 240 V AC ±10%, 50/60 Hz/46 W (at 100 V to 120 V), 46 W (at 220 V to 240 V) HVS-2240OU: 100 V AC to 240 V AC ±10%, 50/60 Hz/46 W (at 100 V to 120 V), 46 W (at 220 V to 240 V) HVS-3320OU: 100 V AC to 240 V AC ±10%, 50/60 Hz/67 W (at 100 V to 120 V), 63 W (at 220 V to 240 V) HVS-3355OU: 100 V AC to 240 V AC ±10%, 50/60 Hz/Depends on panel configuration	HVS-6000M: 100 V AC to 240 V AC ±10%, 50/60 Hz/ 900 W (at 100 V to 120 V), 900 W (at 220 V to 240 V) (incl. optional cards)
Dimensions/weight	HVS-6000: 430 (W) x 532 (H) x 500 (D) mm/80 kg (incl. optional cards) HVS-2120ROU: 430 (W) x 72 (H) x 420 (D) mm/8 kg HVS-2240OU: 1060 (W) x 155 (H) x 354 (D) mm/12 kg HVS-3320OU: 1196 (W) x 155 (H) x 494 (D) mm/22 kg HVS-3355OU: depends on panel configuration	HVS-6000M: 430 (W) x 310 (H) x 500 (D) mm/40 kg (incl. optional cards)
Accessories	Operation manual (CD-ROM), AC cords, Rack mount brackets, Control cables	
Consumables (approx. time for replacement after an uninterrupted service at room temperature)	HVS-6000: Power unit (5 years), Cooling fan (5 years) HVS-2120ROU: Power unit (4 years), SBC battery (3 years) HVS-2240OU: Power unit (4 years), SBC battery (3 years) HVS-3320OU: Power unit (4 years), SBC battery (3 years) HVS-3355OU: Power unit (4 years), SBC battery (3 years)	HVS-6000M: Power unit (5 years), Cooling fan (5 years)
Options	HVS-6000ME: Expansion Card HVS-6000SDO: 12G/3G/1.5G-SDI Output Expansion Card HVS-6000MVK*: DSK or MV Expansion Card HVS-6000SDI: 12G/3G/1.5G-SDI Input Expansion Card HVS-6000SDIC*: Converter Software for SDI Input Expansion Card HVS-6000SDOC*: Converter Software for SDI Output Expansion Card HVS-6000ED*: Editor Interface Software HVS-6000GUI*: Graphical User Interface Software HVS-6000PSM: Redundant Power Supply AC adaptor: Redundant Power Supply for HVS-2120ROU HVS-2000PSO: Redundant Power Supply for HVS-2240OU/3320OU HVS-3355PSO: Redundant Power Supply for HVS-3355OU HVS-TALR32/TALOC32: Tally Interface Unit HVS-AUX16A/16B/32A/64A: AUX Remote Control Panel	—

* Under development



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