HVS-5000 Series

2M/E - 4M/E Digital Video Switcher

Future Proof
3Gbps
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The HVS-5000 HANARI series, FOR-A’s flagship 3Gbps Digital Video production switcher Available in 2M/E to 4M/E configurations.

Today’s customers expect increases value and high performance from their production switcher purchases.

Not just in the systems flexibility or its ability to handle the changing production requirements in today’s competitive market, but in the initial investment costs as well.

The HVS-5000 series achieves this and more.

The HVS-5000 series is not “just” an SD or HD switcher. It’s a powerful 3G digital video production switcher system that combines the best of both. And yet, provides you with the flexibility required to meet the increased demands of your production workflow, while being the heart of your facilities system.

With HVS-5000 series you own more than “SD today, HD Tomorrow” production system.

You own a FOR-A HVS-5000 series that redefines the meaning of “Future-Proof”!
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Broadcast News:
Studio Production:
Post Production:
Stereoscopic 3D Production:
Sports Application:
OB Vehicles:
Live Event:

And more...
The HANABI HVS-5000 series lineup includes three model choices: the HVS-5300A with 2M/E, the HVS-5300 with 3M/E, and the HVS-5400 with 4M/E. The HVS-5000 series operating control panel is similar to that of the current HANABI series products and have additional features that provide for sequencing and other functions to maximize your workflow, making it the best choice for both live and editing applications. The system can be designed to accommodate a variety of switcher combinations which can also scale to meet various applications.

### HVS-5300A 2M/E Model
- **Main Unit:** 10 RU
- **Operation unit:**
  - 16-buttons (2 models), 24-buttons (2 models), 32-buttons (1 model)
- **Video Inputs:** 32 inputs standard, Max. 96 inputs
- **Video Outputs:** 24 outputs standard (16 AUXs), Max. 48 outputs (32 AUXs)
- **Reference I/O:** 2 inputs / 2 outputs standard, Max. 4 inputs / 4 outputs
- **Still Stores:** 8 channels standard, Max. 16 channels
- **Keyers:** 8 keyers standard (4 keyers per M/E)
- **2D DVE (for keyers):** 8 channels standard (4 channels per M/E)
- **Touch panel display:** also standard

### HVS-5300 3M/E Model
- **Main Unit:** 10 RU
- **Operation unit:**
  - 24-buttons (2 models), 32-buttons (2 models), 40-buttons (2 models)
- **Video Inputs:** 32 inputs standard, Max. 96 inputs
- **Video Outputs:** 28 outputs standard (16 AUXs), Max. 56 outputs (32 AUXs)
- **Reference I/O:** 2 inputs / 2 outputs standard, Max. 4 inputs / 4 outputs
- **Still Stores:** 8 channels standard, Max. 16 channels
- **Keyers:** 12 keyers standard (4 keyers per M/E)
- **2D DVE (for keyers):** 12 channels standard (4 channels per M/E)
- **Touch panel display:** also standard

### HVS-5400 4M/E Model
- **Main Unit:** 10 RU
- **Operation unit:**
  - 32-buttons (2 models), 40-buttons (2 models)
- **Video Inputs:** 32 inputs standard, Max. 96 inputs
- **Video Outputs:** 32 outputs standard (16 AUXs), Max. 64 outputs (32 AUXs)
- **Reference I/O:** 2 inputs / 2 outputs standard, Max. 4 inputs / 4 outputs
- **Still Stores:** 8 channels standard, Max. 16 channels
- **Keyers:** 16 keyers standard (4 keyers per M/E)
- **2D DVE (for keyers):** 16 channels standard (4 channels per M/E)
- **Touch panel display:** also standard
The HANABI HVS-5000 series lineup includes three model choices: the HVS-5300A with 2M/E, the HVS-5300 with 3M/E, and the HVS-5400 with 4M/E. The HVS-5000 series operating control panel is similar to that of the current HANABI series products and have additional features that provide for sequencing and other functions to maximize your workflow, making it the best choice for both live and editing applications. The system can be designed to accommodate a variety of switcher combinations which can also scale to meet various applications.

### HVS-5300A
- **2M/E Model**
- **Main Unit:** 10 RU
- **Operation unit:** 24-buttons (2 models), 32-buttons (2 models)
- **Video Inputs:** 32 inputs standard, Max. 96 inputs
- **Video Outputs:** 24 outputs standard (16 AUXs), Max. 40 outputs (32 AUXs)
- **Reference I/O:** 2 inputs /2 outputs standard, Max. 4 inputs /4 outputs
- **Still Stores:** 8 channels standard, Max. 16 channels
- **Keyers:** 8 keyers standard (4 keyers per M/E)
- **2D DVE (for keyers):** 8 channels standard (4 channels per M/E)
- **3D DVE (optional):** Max. 4 channels
- **Touch panel display also standard**

### HVS-5300
- **3M/E Model**
- **Main Unit:** 10 RU
- **Operation unit:** 32-buttons (2 models), 40-buttons (2 models)
- **Video Inputs:** 32 inputs standard, Max. 96 inputs
- **Video Outputs:** 28 outputs standard (16 AUXs), Max. 44 outputs (32 AUXs)
- **Reference I/O:** 2 inputs /2 outputs standard, Max. 4 inputs /4 outputs
- **Still Stores:** 8 channels standard, Max. 16 channels
- **Keyers:** 12 keyers standard (4 keyers per M/E)
- **2D DVE (for keyers):** 12 channels standard (4 channels per M/E)
- **3D DVE (optional):** Max. 4 channels
- **Touch panel display also standard**

### HVS-5400
- **4M/E Model**
- **Main Unit:** 10 RU
- **Operation unit:** 40-buttons (2 models), 50-buttons (2 models)
- **Video Inputs:** 32 inputs standard, Max. 96 inputs
- **Video Outputs:** 32 outputs standard (16 AUXs), Max. 48 outputs (32 AUXs)
- **Reference I/O:** 2 inputs /2 outputs standard, Max. 4 inputs /4 outputs
- **Still Stores:** 8 channels standard, Max. 16 channels
- **Keyers:** 16 keyers standard (4 keyers per M/E)
- **2D DVE (for keyers):** 16 channels standard (4 channels per M/E)
- **3D DVE (optional):** Max. 4 channels
- **Touch panel display also standard**
Panel Design

Optimized to unleash the full power of 3G, the HVS-5000 series incorporates the usability and button assignment commonly found in FOR-A’s HANABI series products. With an intuitive panel design that is organized by function, 7-color LED source display, LED buttons for clear identification of DVE patterns, and integrated duration display with each fader, the HVS-5000 series panels neatly summarize and organize the diverse information on the touch-panel display. This enables control of switcher operation with the touch of your finger when instantaneous decisions are required.

A large touch-panel controller comes standard for each model, enabling intuitive operation of the switcher functions such as configuring parameter settings, editing the still store and sequence timeline, and making color correction settings. Enables sequence control as well as keyer and DSK transitions and creation of user patterns.

Incorporates a 3-axis joystick. Used to modify wipe and 2D/3D DVEs, or for auto chroma key cursor control and other operations.

Controls the many keyers provided by the HVS-5000 series. Configure keyer priority, chroma key settings, key edges, and other settings as needed.

Controls the full range of macro functions. In addition, the panel is used in event memory, sequence storage, and recall operations.

Fader control panels vary for type 1 and type 2 operation units. Type 1: Features a panel design engineered with direct control in mind, such as control of transition patterns, DVEs, and keyers. Type 2: Features optimal panel design for traditional operation. Buttons are arranged for independent selection of MIX/CUT/WIPE/DVE, each having a dedicated pattern display window. The ideal operating style for your environment of use is now within reach.

The BUS panel clearly identifies source names with 7-color LEDs, supporting intuitive control.

Sequence Control Panel
Transition Control Panel
AUX Control Panel
Keyer Control Panel
Joystick Panel
Multi-Pad Panel
Bus Panel
The BUS panel clearly identifies source names with 7-color LEDs, for maximizing control.

Still Store Setting Menu
Sequence Setting Menu
Touch-Panel Display
Free Panel Layout
Panel Design

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A large touch-panel controller comes standard for each model, enabling intuitive operation of the switcher functions such as configuring parameter settings, selecting and applying keyers, and making color correction settings. Enables sequence control as well as keyer and DSK transitions and creation of user patterns.

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The layout of panels for sequence control, the joystick, keyer control, and multi-pad control can be rearranged to suit your working style.

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Operation Unit: TYPE-2
Main Features

The HVS-5000 series offers a wide range of system features and functions. Explore the many convenient production features that come standard in the HVS-5000 series including support for the next-generation 3Gbps system specification, mixed HD/SD inputs, independent M/E control, external device control, macros, VTR tracking, and video support utilizing external memory.

Mixed HD and SD Input
The HVS-5000 series offers easy compatibility and allows seamless switching between HD and SD signals formats. With the optional Up-/Down-/Cross-Converter, you can support mixed inputs from HD and SD devices. The series supports the next-generation signal standard 3Gbps and mixed inputs from HD and SD devices. With the switcher alone, it is possible to perform mixed processing without concerns for the differences between HD and SD signals.

3Gbps Signal Standard Support
In addition to HD and SD signals, the series supports the next-generation signal standard 3Gbps. Internal and two output channels are provided. Add an optional HVS-5GL for analog BB or tri-level sync input/output signals. Used for mixed HD/SD and analog signals. Supports multiple reference I/O signals. Selectable on the basis of individual switching between HD and SD signals formats. With the optional HVS-5GL reference I/O expansion card, up to four channels each for input and output.

Max. 96 Inputs, 48 Outputs
The HVS-5400 unit allows configuration with up to 96 inputs and 48 outputs. Capacity can be added in units of 16 inputs and 16 outputs. The HVS-5300A unit permits configuration with 32 inputs and 24 outputs. This can be expanded to 525/60i signals. With the optional HVS-5GL reference I/O expansion card, it is possible to perform mixed processing without concerns for the differences between HD and SD signals.

Up-/Down-/Cross-Converter
The HVS-5000 series offers the option of installing an optional cross-converter. With the HVS-5GL reference I/O expansion card, it is possible to perform mixed processing without concerns for the differences between HD and SD signals.

Can be assigned to AUX outputs

Supported formats:
- 3G-SDI (1080/59.94p)
- HD-SDI (1080/50i)
- SD-SDI (525/60)
- 3G HD-SDI (1080/59.94p)
- HD-SDI (720/59.94p)
- SD-SDI (525/60)

Point

- PGM
- AUX 1 - 4
- PREV
- M/E
- A BUS
- M/E
- PREV
- M/E
- AUX 5 - 8
- M/E
- PREV
- M/E
- AUX 17 - 20
- M/E
- PREV
- Reference I/O
- 4 Keyers and 2D DVEs for Each M/E
- Includes a variety of keyers, useful for live coverage and downstream keyers and two downstream keyers in a configuration of four regular DSKs can be used to switch to different standards. Should your needs even go to 3D stereoscopic, the HVS-5000 series can perform up conversion for M/E 1 to work with HD signals.

Reference I/O
Supports multiple reference SDI signals. Selectable on the basis of individual analog BB or tri-level sync optical signals. Used for mixed HD/SD and independent control of output for each switcher. You might consider mixed HD/SD and two output channels are provided. And an optional HVS-5GL for expansion to four channels each for input and output.

KEY BUS

- SD-SDI (525/60)
- HD-SDI (1080/59.94i)
- 1080/60p SD-SDI 625/50
- 720/60p HD-SDI 1080/50i
- 1080/25PsF HD-SDI 1080/25PsF
- 1080/30PsF HD-SDI 1080/30PsF
- 1080/24PsF HD-SDI 1080/24PsF

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KEY BUS

- SD-SDI (525/60)
- HD-SDI (1080/59.94i)
- 1080/60p SD-SDI 625/50
- 720/60p HD-SDI 1080/50i
- 1080/25PsF HD-SDI 1080/25PsF
- 1080/30PsF HD-SDI 1080/30PsF
- 1080/24PsF HD-SDI 1080/24PsF

Reference I/O
Usable during Stereoscopic 3D video recording and editing

Max. 96 Inputs, 48 Outputs

HVS-5400 4 M/E Standard 32 Standard: 32 (16 AUXs)

Model M/E Inputs Outputs

Maximum 16-Channel Still Stores

Incorporates an on-screen still store. Add an optional HVS-5000 unit to the system up to 16 channels. Hundreds of still images can be stored on the inserted hard disk, and desired images can be downloaded to the still store. Utilizing image split-screen areas for logo animation, still image assignment facilitates animated logo output.

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External Clip Drive

An optional external drive can be connected for video playback. One can use play as in record or an appropriate area of full HD video (1920 × 1080). It is useful for CS wipe, special effects, still stores, and four-channel keyers. Moreover, each M/E can be controlled independently of the others. Also, each outputs the HVS-5040E HD 1 and M/E 2, and M/E 3 and M/E 4 and connect to bus control panels for external operation corresponding to the bus M/E switcher.

VTR Tracking Function

Perhaps one of the most unique functions of HVS-5000 series is the VTR tracking function. Tracking images with a high degree of accuracy enables ideal switching even in switching extremely slow SDHVs not recorded through DVE, requires configuration for setting the effect as well as detailed settings for video output. Moreover, each M/E can be operated as a separate switcher.

Options

- 4 Keys and 2D DVs for Each M/E
- External drive for video playback
- SDI and HD-SDI inputs
- IP Convert
- External clip drive
- VTR Tracking Function
- 3G-SDI to HD-SDI
- SD-SDI to 3G-SDI
- Down Convert
- HD-SDI to 3G-SDI
- 3G HD-SDI (1080/59.94p)
- SD-SDI (525/60)

Supported formats:

- SD-SDI: 525/60, 625/50
- 1080/24PsF, 1080/23.98PsF
- 1080/30PsF, 1080/29.97PsF, 1080/25PsF, 1080/25PsF
- 1080/60PsF, 1080/59.94PsF, 1080/50PsF, 1080/29.97PsF, 1080/25PsF
- 720/59.94p, 720/59.94i, 720/50p, 720/50i, 720/60p, 720/60i
- 1080/60p, 1080/59.94p, 1080/50p, 1080/29.97p, 1080/25p, 1080/29.97p, 1080/25p
- 525/60, 625/50
- 3G-SDI: 1080/59.94p, 1080/29.97p, 1080/25p
- IP Convert
- HD-SDI (1080/59.94i)
- 3G HD-SDI (1080/59.94p)
- SD-SDI (525/60)
- HD-SDI (1080/59.94i)
**Main Features**

**3D DVE**
- Real-time rendering for mapping images to 3D shapes such as Page Turn and Sphere and providing complete 3D processing for DVEs.
- Uncompressed high image quality: Rendering is achieved for four generations in accordance with progressive and reduction quality, and an edge key generation technique to ensure accurate image for sharper image quality.

**Color Corrector**
- For color correction in RGB signals
- Balance mode: For color correction in RGB signals
- Deferential mode: For converting the colors into a monochrome color
- Sepia mode: For color correction without upsetting color balance

**Applications:**
- Multi-camera shooting
- Fine key adjustment and reflected glare adjustment function
- Flicker noise control filter function
- Edge color replacement function
- Auto chroma key function with original FOR-A algorithms

**Advanced Chroma Keyer Setting Menu**
- Recommended to those requiring powerful chroma keyers.
- M/E keyers offer the advanced chroma key option, enabling two chroma keyers to be used on the same keyer.

**Macro Function**
- Macros can be registered. Up to 100 macros can be registered. One-button playback is possible. Up to 100 operations can be recorded and played.

**Matte Generator**
- Supports monochrome (one channel) output. Up to 5 channels can be used. Internal color bars (one channel) and 4 internal color bars (two channels), gradation mattes can be used. Support for the image using WIPE or MIX. This makes it easy to set DVEs for each M/E bus for enabling transitions between images.

**Event Memory Setting Menu**
- 1,000 events can be registered. Parameter settings can be stored for various external devices, including routing switchers, VTRs, disk recorders, multi-viewers, etc.

**VTR Control Menu**
- Allows integrated control of various external devices, including routing, switchers, VTRs, disk recorders, etc.
Main Features

3D DVE

rendered in real-time, to provide digital video effects through full 3D processing. Up to 4 channels can be added.

technology) compatible with 3Gbps signals. As before, images are mapped to 3D shapes such as page turns or spheres.

Development currently underway will make these realistic 3D DVE (using polygon algorithms, a hallmark of FOR-A technology).

In addition to the 2D DVE of each keyers which comes as standard, HD/SD-compatible 3D DVE is also available.

Color Corrector

Color Correction Mode

This unit also offers gamma adjustment, video level processing, and RGB and YP BPR video clip functions, an option that enables separate color correction for each bus.

Color correction functions can be added. By choosing from three modes, versatile color adjustment is possible.

- Input adjustment for multi camera shooting
- Applications;
  - For color correction in RGB signals
  - For color correction without upsetting the white balance
  - Deferential mode
    - For converting the colors into a monotone
  - Balance mode
    - Three color correction functions
      - Gamma adjustment functions
        - Fine key adjustment function
        - Reflected glare adjustment function
        - Flicker noise control filter function
        - Edge color replacement function
        - Auto chroma key function with original FOR-A algorithms

Advanced Chroma Key

ME keyers after the advanced chroma key option, enabling two channels to be configured per ME.

Advanced chroma key in anticipation of full-scale virtual studio operations, this innovative technology means it easy for anyone to perform keying neatly. Chroma key algorithms developed by FOR-A use 64-bit specifications on a complex form based on the results of extensive research. Technology energy recommended to those requiring powerful chroma keyers.

Advanced Chroma Key functions

- Fine adjustment of picture positioning
- Fine color adjustment of picture positioning
- Fine edge color replacement function
- Auto chroma key function
- Fine key adjustment function
- Reflected glare adjustment function
- Auto chroma key function with original FOR-A algorithms

Line-DVE

Allows composite effect for each ME to be used for setting the image on the side of the screen.

Macro Function

With the included Macro function, complex video operations can be registered and played. One button playback is possible. Up to 50 macros can be registered.

Event Memory

Event memory is provided for storing a variety of parameter settings, up to 250 settings can be registered.

External Device Control

Allows integration of control of various external devices, including routing switches, VTRs, disk recorders, multi-viewers, and so on.

Sequence Function

Parameter adjustments can be registered as a sequence of events. Corrections or changes are very easy with sequence display. Up to 100 sequences can be registered.

Sequence Setting Menu

Macro Setting Menu

Matte Setting Menu

Event Memory Setting Menu

Matte Generator

Supports monochrome, gradation (grey, black, white), and color bar (two colors) output, tip to 5 colors can be used in the gradation mode.

Safety Marker

The safety area can be displayed. Magnification of displayed area can be adjusted in a range of 12%~100%. Markers can be displayed as boxes or brackets.

Sequence Setting Menu

Macro Setting Menu

Matte Setting Menu

Event Memory Setting Menu

Line-DVE

Macros can be registered. Up to 100 macros can be recorded and played. One button playback is possible. Up to 100 macros can be registered.

Sequence Function

Sequence Function can be registered as a sequence of events. Corrections or changes are very easy with sequence display. Up to 100 sequences can be registered.

Sequence Setting Menu

Macro Setting Menu

Matte Setting Menu

Event Memory Setting Menu

Matte Generator

Supports monochrome, gradation (grey, black, white), and color bar (two colors) output, tip to 5 colors can be used in the gradation mode.

Safety Marker

The safety area can be displayed. Magnification of displayed area can be adjusted in a range of 12%~100%. Markers can be displayed as boxes or brackets.

Line-DVE

Macros can be registered. Up to 100 macros can be recorded and played. One button playback is possible. Up to 100 macros can be registered.

Sequence Function

Sequence Function can be registered as a sequence of events. Corrections or changes are very easy with sequence display. Up to 100 sequences can be registered.

Sequence Setting Menu

Macro Setting Menu

Matte Setting Menu

Event Memory Setting Menu

Matte Generator

Supports monochrome, gradation (grey, black, white), and color bar (two colors) output, tip to 5 colors can be used in the gradation mode.

Safety Marker

The safety area can be displayed. Magnification of displayed area can be adjusted in a range of 12%~100%. Markers can be displayed as boxes or brackets.
Specifications

**Optional advanced chroma key** that can be applied to keyers of 3G/HD-SDI input signals. Up to four cards can be installed.

* Using the advanced chroma key effectively replaces the configured keyer DVE functions.

**HVS-5ED**

- Interface card for installing the HVS-5DVE3D DVE card in the main unit.
- Can be assigned to individual inputs.
- Expansion card providing up-/down-/cross-converter functions.

**Options**

- 3Gbps signals are not supported.
- Effects applying FOR-A polygon algorithms.
- HD/SD-compatible 3D DVE card for realistic 3D effects, supporting video recording and playback. Useful for wiping and external clip drive unit, equipped with SSD (Solid State Drive). *Inquire for information of supported protocols.*
- Optional software adding support for a variety of editing protocols. Max. 16 can be supported. Up to 16 can be connected in a cascading configuration.

**HVS-5SDI**

- Input expansion card. Adds 16 inputs through expansion. Up to 4 cards can be installed.

**HVS-SSDO**

- Auxiliary expansion card. Adds 16 inputs on the auxiliary bus through expansion.

**HVS-5PJ**

- Receives 4 input/output expansion cards, 4 HD-SDI signals, and 4 RS-422 interfaces through expansion.

**HVS-3SS**

- Still store expansion card. Adds 8 channels of still data through expansion.

**HVS-5ADCK**

- Advanced chroma keyer 1 (Software)

**HVS-5CC**

- Color corrector 1 (Software)

**HVS-5DVEIF**

- DVE Interface card 1 card

**HVS-5SSO**

- Redundant power supply for operation unit 1 unit

**HVS-5DVE3D**

- HD/SDI-compatible 3G/HD-SDI card for realistic 3D effects, supporting 3G/HD-SDI input signals. Up to four cards can be installed.

**HVS-5CC**

- Optional software adding support for a variety of editing protocols (HD/SDI-SDI). For each panel.

**HVS-5SDO**

- Auxiliary remote control unit. Remotes with 8, 16, or 32 buttons are available. Up to 16 can be connected. Can be freely assigned to each panel.

**HVS-AUXR/K/AUX8R**

- Kit for removing and extending the panel section of auxiliary remote control units. Extension up to 6 units possible.

**HVS-TALR20/32**

- Contact closure operation relay unit. External control signals can be freely assigned. Includes independent output signals for 20 or 32 channels. Use with the HVS-5talr20/32 or HVS-5talr20/32 alone to be connected in a cascading configuration.

**HVS-TALOC20/32**

- Open collector type tally relay unit. Output signals can be freely assigned. Includes independent output signals for 20 or 32 channels. Use with the HVS-5talooc20/32 or HVS-5talooc20/32 alone to be connected in a cascading configuration.
Specifications

HVS-5ADCK
- Advanced chroma keyer 1 (Software)
- Each M/E. Two channels can be used for each M/E.
- Optional advanced chroma key that can be applied to keyers of HVS-5UD
- No functions for frame-rate conversion.
- 4 channels of data. Up to two cards or buses. One card can be used for up-/down-/cross-converter functions.
- Expansion card providing interfaces through expansion.

Options
- 3Gbps signals are not supported.
- Installation requires HVS-5DVEIF.

Model Products Max. installable
- HVS-5DVEIF DVE Interface card 1 card
- HVS-5SS Still Store expansion card 1 card
- HVS-4401OU 1444 (W) x 165.9 (H) x 769 (D) mm / Approx. 44kg
- HVS-4322OU 1323 (W) x 165.9 (H) x 769 (D) mm / Approx. 40kg
- HVS-4321OU 1300 (W) x 165.9 (H) x 769 (D) mm / Approx. 40kg
- HVS-3402OU 1486 (W) x 165.9 (H) x 624 (D) mm / Approx. 38kg
- HVS-3401OU 1427 (W) x 165.9 (H) x 624 (D) mm / Approx. 38kg
- HVS-3322OU 1321 (W) x 165.9 (H) x 624 (D) mm / Approx. 37kg
- HVS-3321OU 1281 (W) x 165.9 (H) x 624 (D) mm / Approx. 37kg
- HVS-2241OU 1136 (W) x 165.9 (H) x 520 (D) mm / Approx. 27kg
- HVS-2162OU 1178 (W) x 165.9 (H) x 520 (D) mm / Approx. 27kg
- HVS-2161OU 1136 (W) x 165.9 (H) x 520 (D) mm / Approx. 27kg

Operation Units (Dimensions/Weight/Consumption)
- HVS-5ED Editor Interface 1 (Software)
- HVS-5ADCK Advanced chroma keyer 1 (Software)
- HVS-5SS Still Store expansion card 1 card
- HVS-TALOC20/32 Tally open corrector unit (20/32 terminal)
- HVS-TALR20/32 Tally relay unit (20/32 terminal)
- HVS-5PSO Redundant power supply for operation unit 1 unit
- HVS-5PSM Redundant power supply for main unit 1 pair
- HVS-AUXRK/AUX8RK AUX remote panel extension kit Same as above
- HVS-5400: 32 outputs standard (8 PGMs, 4 PREVs, 4 CLEANs, 16 AUXs), Max. 48 outputs optional (32 AUXs)
- HVS-5300: 28 outputs standard (6 PGMs, 3 PREVs, 3 CLEANs, 16 AUXs), Max. 44 outputs optional (32 AUXs)
- HVS-5300A: 24 outputs standard (4 PGMs, 2 PREVs, 2 CLEANs, 16 AUXs), Max. 40 outputs optional (32 AUXs)
- PC3250-1 (OU - Touch panel connection cable) x 1, LAN cable x 2, software cable x 2

Touch Panel Display

Number of Video Inputs 32 inputs standard, Max. 96 inputs optional
Video Output SD-SDI: 270Mbps, 75
Num. of Ref. Inputs 2 inputs standard, Max. 4 inputs optional
Num. of Video Outputs HVS-5300A: 24 outputs standard (4 PGMs, 2 PREVs, 2 CLEANs, 16 AUXs), Max. 40 outputs optional (32 AUXs)
Num. of Ref. Outputs 2 outputs standard, Max. 4 outputs optional
I/O Delay 4H (when DVE not applied to output)

Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>HVS-5ADCK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Each M/E.</td>
<td>Two channels can be used for each M/E.</td>
</tr>
<tr>
<td>Optional advanced chroma key</td>
<td>Can be applied to keyers of HVS-5UD</td>
</tr>
<tr>
<td>No functions for frame-rate conversion.</td>
<td>4 channels of data. Up to two cards or buses. One card can be used for up-/down-/cross-converter functions.</td>
</tr>
</tbody>
</table>

Options

- 3Gbps signals are not supported.
- Installation requires HVS-5DVEIF.

Model Products Max. installable

- HVS-5DVEIF DVE Interface card 1 card
- HVS-5SS Still Store expansion card 1 card
- HVS-4401OU 1444 (W) x 165.9 (H) x 769 (D) mm / Approx. 44kg
- HVS-4322OU 1323 (W) x 165.9 (H) x 769 (D) mm / Approx. 40kg
- HVS-4321OU 1300 (W) x 165.9 (H) x 769 (D) mm / Approx. 40kg
- HVS-3402OU 1486 (W) x 165.9 (H) x 624 (D) mm / Approx. 38kg
- HVS-3401OU 1427 (W) x 165.9 (H) x 624 (D) mm / Approx. 38kg
- HVS-3322OU 1321 (W) x 165.9 (H) x 624 (D) mm / Approx. 37kg
- HVS-3321OU 1281 (W) x 165.9 (H) x 624 (D) mm / Approx. 37kg
- HVS-2241OU 1136 (W) x 165.9 (H) x 520 (D) mm / Approx. 27kg
- HVS-2162OU 1178 (W) x 165.9 (H) x 520 (D) mm / Approx. 27kg
- HVS-2161OU 1136 (W) x 165.9 (H) x 520 (D) mm / Approx. 27kg

Operation Units (Dimensions/Weight/Consumption)

- HVS-5ED Editor Interface 1 (Software)
- HVS-5ADCK Advanced chroma keyer 1 (Software)
- HVS-5SS Still Store expansion card 1 card
- HVS-TALOC20/32 Tally open corrector unit (20/32 terminal)
- HVS-TALR20/32 Tally relay unit (20/32 terminal)
- HVS-5PSO Redundant power supply for operation unit 1 unit
- HVS-5PSM Redundant power supply for main unit 1 pair
- HVS-AUXRK/AUX8RK AUX remote panel extension kit Same as above
- HVS-5400: 32 outputs standard (8 PGMs, 4 PREVs, 4 CLEANs, 16 AUXs), Max. 48 outputs optional (32 AUXs)
- HVS-5300: 28 outputs standard (6 PGMs, 3 PREVs, 3 CLEANs, 16 AUXs), Max. 44 outputs optional (32 AUXs)
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Touch Panel Display

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Num. of Ref. Outputs 2 outputs standard, Max. 4 outputs optional
I/O Delay 4H (when DVE not applied to output)
2M/E - 4M/E Digital Video Switcher

HVS-5000 Series

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