3G/HD/SD Video Switcher
HVS-490 "HANABI"

NDI

FOR.A®

花火
HANABI

3G/HD/SD Video Switcher
HVS-490

HANABI

Our production switcher leverages the creative power of the HANABI series.

The HVS-490 switcher offers flexible expansion, opening the door to even more affordable 4K, NDI® production. Exclusive MELite™ technology extends the switcher's 2 M/Es to offer 6 M/E performance.* Expand your switching capabilities even more by assigning FLEXaKEY ™ or feature rich 2.5D DVE, for compositing with up to 12 keyers. Take advantage of this truly broad range of switching in live production.

* Using an optional HVS-49IO card. In 4K mode, 1 M/E + 1 MELite is available.

HANABI

Highlights

1 MELite™

MELite expands the capabilities of AUX transitions. With an AUX bus, users can preview transitions before executing them, and enjoy the same control over AUX output as for PGM or PST. Two MELites are provided, and an optional HVS-49IO card brings the total to four. Assigning FLEXaKEY to a MELite expands the system, adding the equivalent of two M/E buses to the standard two Full M/E's and bringing the total available to four. 4-6 M/E performance is possible in this 2 M/E switcher.

- Preview output from an AUX bus when applying transitions (cut, mix, or wipe) or keying. This ground-breaking technology makes sure your production is ready for virtually any request.
- For greater impact and more sophisticated switching, MELite can be assigned before M/E buses.
- Any M/E can be assigned to multiple on stage monitors for independent background transitions and graphics transitions all from the same control panel.
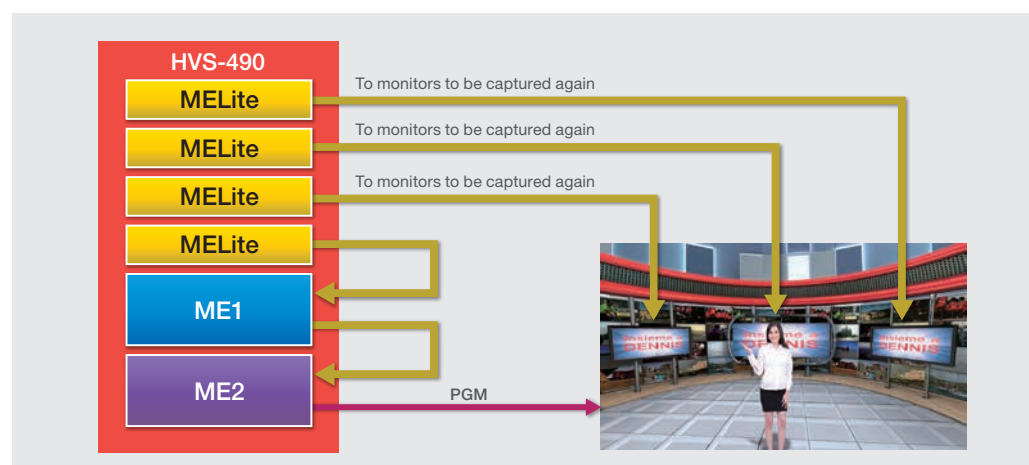
2 FLEXaKEY™

Special FLEXaKEY keyers are designed for flexible reassignment. The four FLEXaKEYs provided operate separately from standard keyers of the full M/E buses. Easy keying of four different FLEXaKEYs in any AUX bus is another feature that enables impressive performances beyond the reach of conventional switchers.

- Quad FLEXaKEY system can be freely assigned to M/E or AUX buses. Combine up to eight keyers for an M/E bus (4 keyers + 4 FLEXaKEYs).
- P-in-P display is possible using an AUX bus, and assigning FLEXaKEY to an MELite enables use as an upstream key.
- FLEXaKEY can also be applied to create a multi-monitor video wall with a single HVS-490.

Sophisticated performances using MELite and FLEXaKEY

- By adding HVS-49IO
- In 4K mode, 1 M/E + 1 MELite

3 DVEs

Choose from cut, mix, or wipe transitions. In addition to 100 wipe patterns, the switcher offers 16 useful 2.5D DVE wipes such as rotate, perspective and reposition. Other rich effects include mosaic, posterization, pseudo color and defocus are also provided.

4 Extensive input/output, NDI input/output

16 video inputs are provided, expandable to 40, along with 9 video outputs (including 1 HDMI port) that are expandable to 22 (including 2 HDMI ports). For 4K*, 8 to 10 inputs and 6 to 7 (including 2 HDMI ports) outputs (expandable to 7) are provided. With HVS-NIF installed, supports NDI High Bandwidth and NDI HX input and output, with 8 inputs/4 outputs per card. See "Options" for details on expansion cards.

* HVS-49IO and HVS-49EXP4K are required for supporting 4K.

5 Standard multi viewer output

The HVS-490 provides three displays (two displays in SD mode) of multi viewer output, each supporting up to 16-split display in 4K 2SI mode and up to 4-split display in 4K SQD mode. 39 screen layouts each are available. This provides an optimal monitoring environment for both the main operator and other users. 4K output is supported via HDMI 2.0 Level B. Monitor four images on one screen via HDMI outputs.

| MV1 | MV2 |
| MV3 | PGM |

Via HDMI 2.0 Level B output

6 Digital audio I/O (optional*¹)

Supports 4 AES (8 channels) of balanced or unbalanced audio input/output with HVS-49AES, and supports up to 64 channels of Dante audio input/output per HVS-DNT.*².

*1 See page 12 for details of HVS-49AES and HVS-DNT.   *2 HVS-DNT is to be supported.

7 2SI/SQD 4K mode (optional*)

The switcher processes 4K video from the quad 3G-SDI output of 4K cameras in 2SI (2-sample interleave) or SQD (square division) format.

*   With HVS-49EXP4K software and HVS-49IO card. Please see Page14 and Page15 for 4K mode specification.

Example of 4K system configuration

The HVS-490 was designed with future 4K upgrading in mind. By adding optional expansion cards, it provides up to 10 4K inputs and 6 outputs or 8 4K inputs and 7 outputs.

What's more, unique use of AUX buses enables a 4K switcher to have the equivalent of 1-1.5 M/E features.

HVS-NIF for NDI Connectivity

HVS-NIF interface cards provide NDI High Bandwidth connectivity for high-quality, low-latency video transmission and NDI HX for low bit rate transmission. The cards make it easy to build a mixed baseband/IP system you can use to exchange video and audio over a network with other NDI equipment. This is extremely effective for live video production -whether you are shooting remotely or enjoying easy streaming from computers connected via NDI.
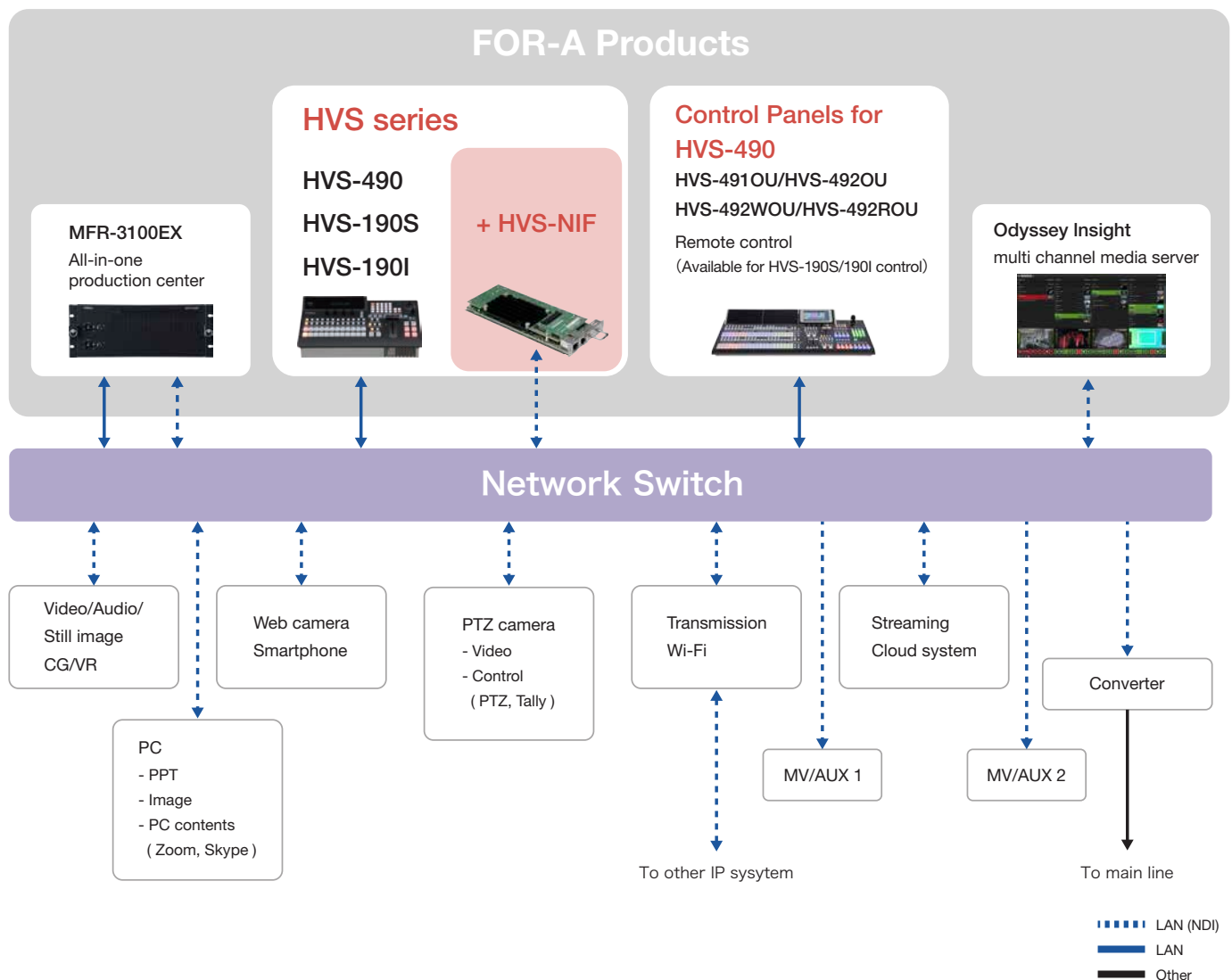
HVS-NIF Features

- Supports NDI High Bandwidth and NDI HX input and output.
- Supports 3G/HD-SDI format, with 4 MoIP inputs[*1]/2 MoIP outputs per card.
- Supports alpha channel receiving[*2].
- Add up to 2 cards to HVS-490[*3], 3 to HVS-190S or 2 to HVS-190I.
- Frame sync for all inputs.
- Proc amp functionality: adjust source video luminance, saturation or hue.
- Remote camera operation.
- Dual Gigabit Ethernet ports.
- Hardware-based codec processing for peace of mind when building MoIP systems.

*1 NDI High Bandwidth: up to 3 inputs for 1080/59.94p or 50p signals. *2 NDI High Bandwidth only.
*3 HVS-NIF is not support SD and 4K formats.

Live Solutions with NDI

FOR-A Products

MFR-3100EX
All-in-one production center

HVS series

HVS-490
HVS-190S   **+ HVS-NIF**
HVS-190I

Control Panels for HVS-490
HVS-491OU/HVS-492OU
HVS-492WOU/HVS-492ROU

Remote control
（Available for HVS-190S/190I control）

Odyssey Insight
multi channel media server

Network Switch

Video/Audio/
Still image
CG/VR

Web camera
Smartphone

PTZ camera
- Video
- Control
 (PTZ, Tally)

Transmission
Wi-Fi

Streaming
Cloud system

Converter

PC
- PPT
- Image
- PC contents
 (Zoom, Skype)

MV/AUX 1

MV/AUX 2

To other IP sysytem

To main line

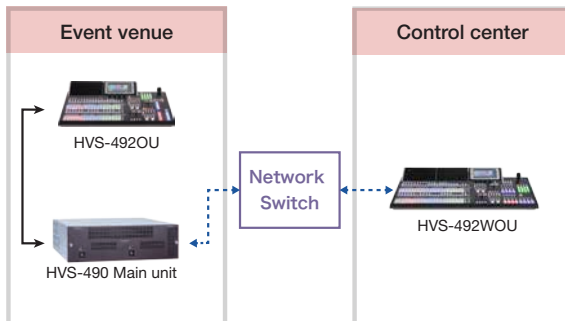┉┉ LAN (NDI)
── LAN
── Other

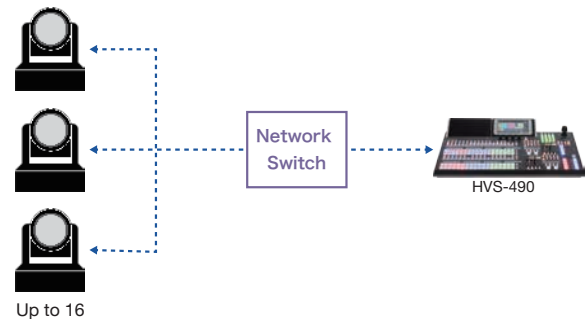# HVS-NIF for NDI Connectivity

■ Remote Control

Set up HVS-190S/190I* at venues to manage events remotely from a control panel at your base of operations.

* HVS-190S is shown in the following example.
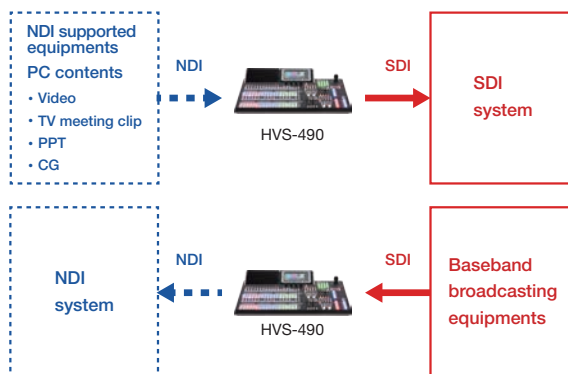

■ PTZ Camera Control

Control multiple PTZ cameras—pan, tilt, or zoom, activate tally lights, set or apply presets, or use stored macros for video switching coordinated by bus buttons. Connect to up to 16 cameras.
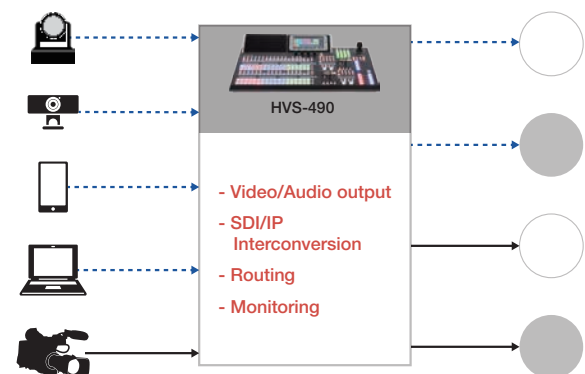

■ Support to Build SDI/NDI Mixed System

Easily add devices or computer content compatible with NDI output (such as videos, videoconferencing streams, presentations, or computer graphics) to SDI systems. Reliable baseband switchers can also be added to your NDI system.
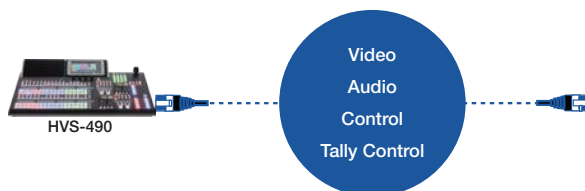

■ SDI/IP Conversion and Routing

Add PTZ camera output, computer content, or other sources to SDI equipment, and freely convert between SDI and IP while routing video/audio from a single switcher to multiple devices. SDI/IP sources and output can be arranged side by side with the built-in multi viewer for monitoring over IP.

■ 2-way Transfer of Many Signals Using only LAN Cable

Two-way transfer with multiple video, audio, control, or tally systems using only one LAN cable.

■ Excels in Many Applications

Beneficial for broadcasting, live production, corporate events, or other applications, regardless of the market.

Examples of Application

Mixed SDI/NDI Production

Video feeds with both on-site and remote performers can be sent to the switcher along with computer content. In addition to the PGM bus, provides an ample selection of Aux buses (12) that can be used to send any video back to remote talent.

SDI/IP Simulcasts

Simultaneously with SDI playout, connect to streaming sites via an IP stream, enabling mixed or coordinated broadcasts of both sources.

Applications

Live staging

The HVS-490 has an incredibly powerful feature set that makes it ideal for live staging and event applications where systems must be set up quickly and temporarily. Event memory and macro functions make it easier to prepare for performances. MELite eliminates the need to have several switchers ready for multi-monitor staging, greatly reducing the equipment required. It's essential to keep production simple and easy to prevent mistakes and help operators focus on staging. At sites where PTZ cameras are used, it is possible to operate from a switcher by installing HVS-NIF and supporting NDI. Enables operation with fewer people.

Mobile OB and Up-Link production trucks

With its robust feature set, the HVS-490 is perfect for small mobile video production or Up-Link where space is limited. The HVS-490 switcher offers a rich feature set perfect for live or recorded production. With integrated frame synchronizers and multi viewers, the HVS-490 can reduce the amount of equipment required in the truck. Using multiple FOR-A control panels, the system can also provide an environment for several operators each in charge of separate tasks - for example one for the main event and a second for a web cut of the same event.

Full-featured control *The following specification is for HD/SD mode. Please see page 14-15 for 4K mode specifications.

■ Frame Synchronizer

Every input in the HVS-490 is outfitted with frame synchronizers that enable switching of synchronous and asynchronous video signals. Installation of optional expansion cards supports asynchronous input signals from PCs, etc. Each input is also equipped with a process amplifier capable of adjusting the video level, chroma level, and hue of the input signal.

■ Re-sizing Engine

Up re-sizing feature is provided on 4 of the standard inputs. This achieves a fully mixed SD/HD environment with the HVS-490. This is ideally suited for re-sizing not only SD signals but also PC video.*

*   With HVS-100PCI PC input card

■ Audio playback support

Available during Graphic-Wipe transitions is the ability to play back audio with video in the internal media players and integrate sound effects.

■ External Interfaces

Plentiful interfaces include GPI IN (19 inputs), GPI IN/TALLY OUT (22 outputs), Alarm output (cooling fan, power), RS-422 (for editing or other interfaces), and Ethernet (for control from a computer). GPI ports on the operation unit also support up to 6 inputs and 6 outputs.

■ Macro Function

A macro function enables you to store and register a series of operations and then perform complicated operations with one push of a button.

■ Keyer

For HD input, 2.5D DVEs can be assigned to all four keyers of each M/E and all four FLEXaKEYs.* The four chroma keys provided can also be assigned to each keyer or FLEXaKEY. Edge effects (configurable up to 8h) are also available for each keyer as a standard feature.

* With 1080/59.94p or 1080/50p input, assigning 2.5D DVEs to all keyers at the same time requires an optional HVS-49DVE. Share up to 8 DVEs among keyers, FLEXaKEYs, and transitions in a standard configuration.

■ GUI Control Function

Thanks to a built-in Web server, the HVS-490 can be controlled from a computer connected via Ethernet. Settings can also be adjusted from mobile devices connected via Wi-Fi to a local access point.

■ Color Corrector Function

4 color correctors are available per M/E.

■ Sequence Function

Up to 30 patterns can be registered.

■ Event Memory/User Button

Up to 100 registers of control panel configurations can be stored as events. Event memories can be recalled easily from the user buttons on the control panels and remote control panels. Operators can freely set the transition durations and effects. By storing events in advance, operators can use event memories to make performances more exciting and expressive, simply by pressing buttons during the event. And because a variety of HVS-490 functions can be freely assigned to user buttons, operators can customize control panels as they wish.

■ 4 Still/Clip Stores

Load video input signals or PGM output signals as stills,* or import data (either stills or clips with total 1760 frames) created on a computer for use as wipes. Stills and clips are loaded from a control panel and computer. Using the backup feature, you can also save stills or clips to an optional SSD in the switcher to load the data when the HVS-490 is restarted.

* PNG, JPEG, TGA, and BMP supported

Convenient Control Panels

Choose from HVS-491OU, HVS-492ROU, HVS-492OU or HVS-492WOU panels to suit your applications.

Advantages include enhanced usability and accurate control through customizable RGB button lights assigned to specific video material or button functions, an OLED display for material, a 7-inch touch panel, source and macro name display, and more. Direct input via a three-axis (XYZ) joystick, menu control knobs, and a keypad. A range of functions can also be assigned to user buttons in convenient locations on the control panel. Use an SD card to load or save configuration files and stills. Remote setup, control, and previews are possible via the switcher's internal Web server.
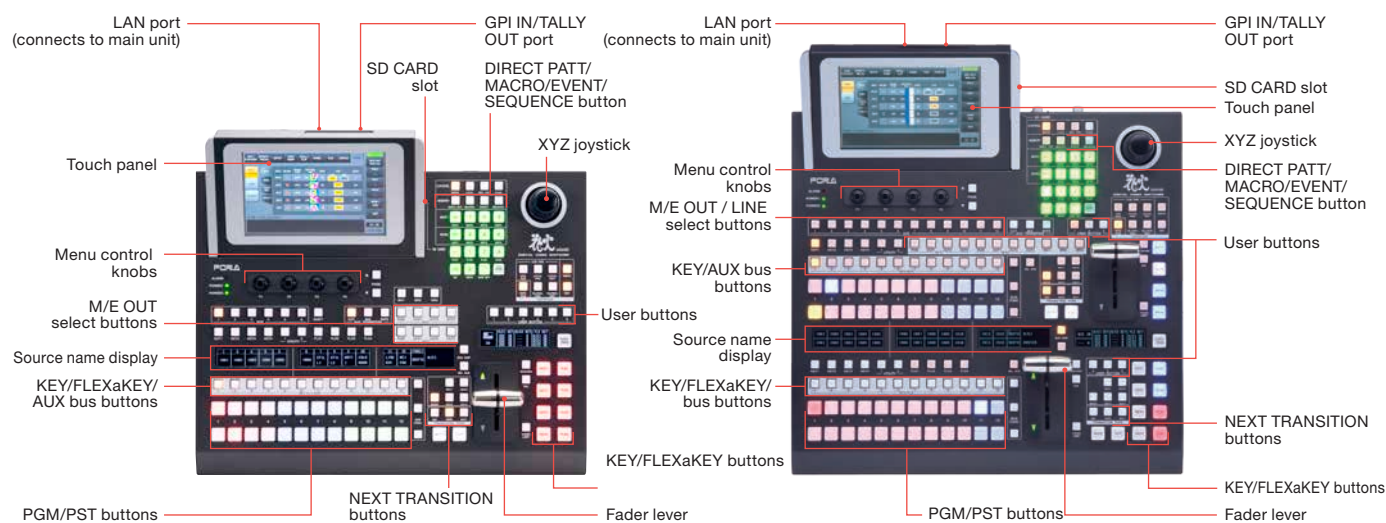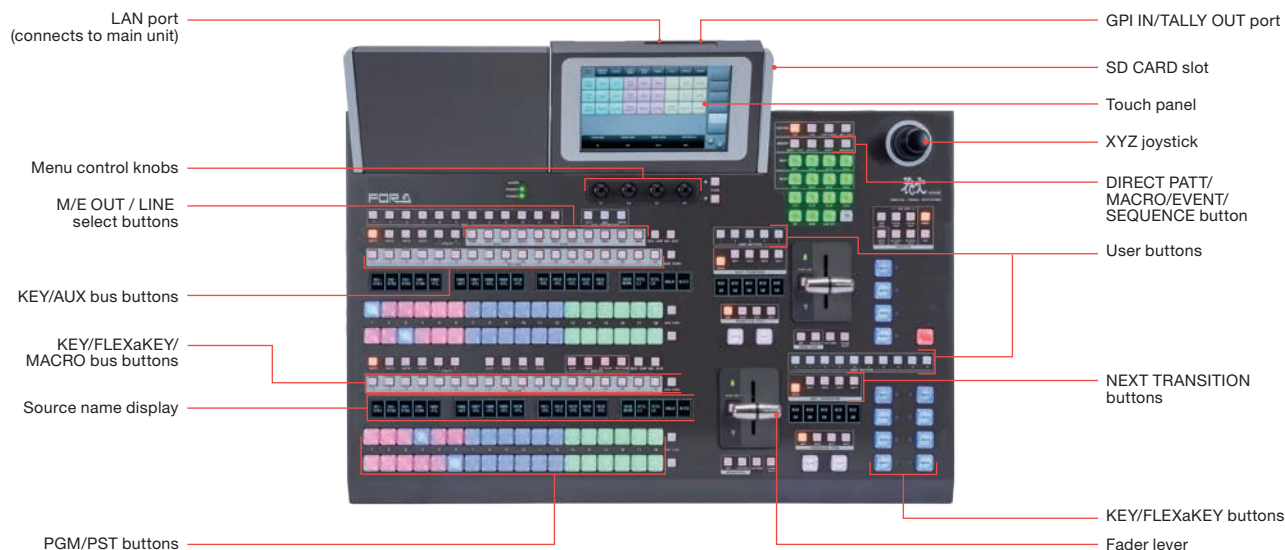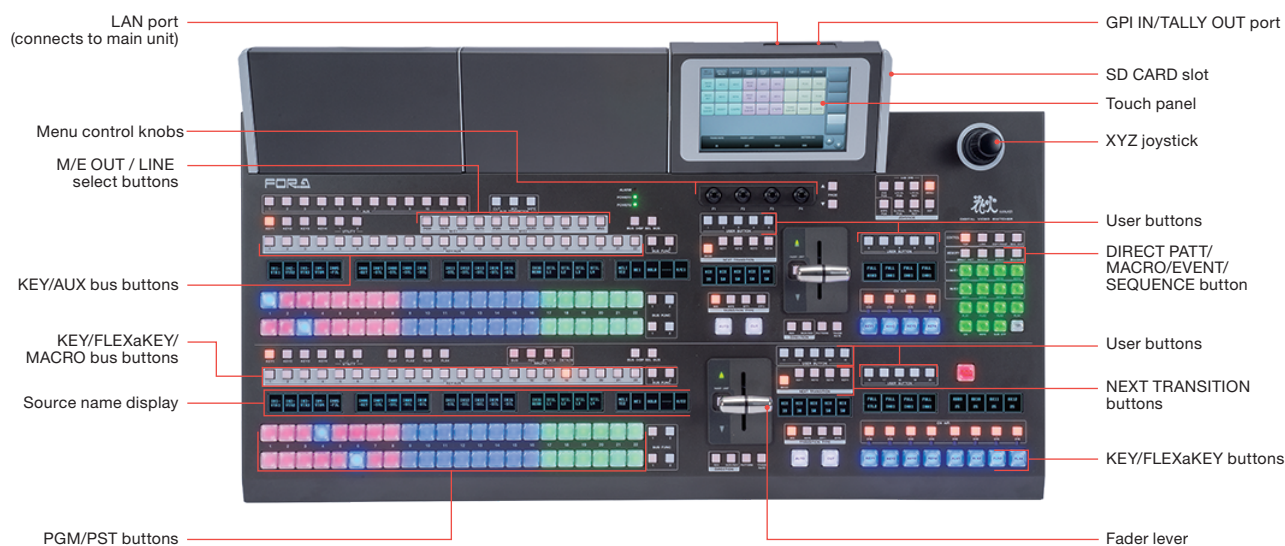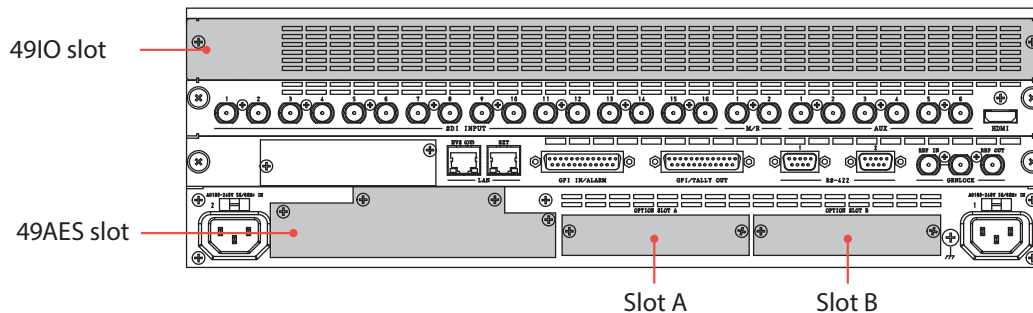

HVS-491OU

HVS-492ROU

HVS-492OU

HVS-492WOU

HVS-491OU — 1 M/E (12 buttons) Control Panel

LAN port (connects to main unit)
GPI IN/TALLY OUT port
SD CARD slot
DIRECT PATT/ MACRO/EVENT/ SEQUENCE button
XYZ joystick
Touch panel
Menu control knobs
M/E OUT select buttons
User buttons
Source name display
KEY/FLEXaKEY/ AUX bus buttons
PGM/PST buttons
NEXT TRANSITION buttons
KEY/FLEXaKEY buttons
Fader lever

HVS-492ROU — 2 M/E (12 buttons) Control Panel

LAN port (connects to main unit)
GPI IN/TALLY OUT port
SD CARD slot
Touch panel
XYZ joystick
DIRECT PATT/ MACRO/EVENT/ SEQUENCE button
Menu control knobs
M/E OUT / LINE select buttons
KEY/AUX bus buttons
User buttons
Source name display
KEY/FLEXaKEY/ bus buttons
NEXT TRANSITION buttons
PGM/PST buttons
KEY/FLEXaKEY buttons
Fader lever

HVS-492OU — 2 M/E (18 buttons) Control Panel

LAN port (connects to main unit)
GPI IN/TALLY OUT port
SD CARD slot
Touch panel
XYZ joystick
DIRECT PATT/ MACRO/EVENT/ SEQUENCE button
Menu control knobs
M/E OUT / LINE select buttons
User buttons
KEY/AUX bus buttons
KEY/FLEXaKEY/ MACRO bus buttons
Source name display
NEXT TRANSITION buttons
PGM/PST buttons
KEY/FLEXaKEY buttons
Fader lever

HVS-492WOU — 2 M/E (22 buttons) Control Panel

LAN port (connects to main unit)
GPI IN/TALLY OUT port
SD CARD slot
Touch panel
XYZ joystick
Menu control knobs
M/E OUT / LINE select buttons
User buttons
DIRECT PATT/ MACRO/EVENT/ SEQUENCE button
KEY/AUX bus buttons
KEY/FLEXaKEY/ MACRO bus buttons
User buttons
Source name display
NEXT TRANSITION buttons
PGM/PST buttons
KEY/FLEXaKEY buttons
Fader lever

Expansion cards

Add the number of interfaces or the extended features you need by installingexpansion cards in the 3 slots.

49IO slot

49AES slot

Slot A   Slot B

HVS-NIF available for slot A or B

NDI I/F Card

Optional card for NDI connectivity.
Supports High bandwidth
NDI High Bandwidth and NDI HX
input and output, with 4 inputs/2
outputs per card. Proc amp, tally
light control, remote camera
operations (PTZ), and other
functionality included.

HVS-49IO available for 49IO slot

16 Inputs / 9 Outputs Expansion Card

16 3G/HD-SDI inputs, 8 outputs, and 1 HDMI output are possible
with a single card. A frame synchronizer function for all inputs and
re-sizing (expansion) function for 4 inputs are provided. SD
images can be processed internally as HD images. Compatible
with both Level-A and B signal input when 3G-SDI signals are
supplied. (Level-B signals are automatically converted to Level-A.)

HVS-100DI-A available for slot A or B

3G/HD/SD*-SDI Input Card

4 channels of 3G/HD/SD[*11]-SDI
input are possible with a single
card. A frame synchronizer
function for all inputs and re-sizing
(expansion) function for 2 inputs
are provided. Compatible with
both Level-A and B signal input
when 3G-SDI signals are supplied.
(Level-B signals are automatically
converted to Level-A.)

* HVS-49SD is required.

HVS-100DO available for slot A or B

3G/HD/SD*-SDI Output Card

2 channels of 3G/HD/SD[*11]-SDI
output are possible with a single
card. As down-converters are
provided for all outputs, HD and
SD images can simultaneously be
output.

* HVS-49SD is required.

HVS-100AI available for slot A or B END OF SALE

Analog Input Card

2 channels of analog video signal
input are possible with a single card.
Input terminal 2 is a dedicated
connector (conversion connector
supplied). The user can select
between analog composite and
analog component (HD or SD*) input
for each input terminal.

* HVS-49SD is required.

HVS-100AO available for slot A or B END OF SALE

Analog Output Card

2 channels of analog video signal
input are possible with a single
card. Output terminal 2 is a
dedicated connector (conversion
connector supplied). The user can
select between analog composite
and analog component (HD or SD*)
output for each output terminal.

* HVS-49SD is required.

HVS-100PCI `available for slot A or B` `END OF SALE`

PC Input Card

HDMI and VGA terminals have been mounted onto a single card. 2 input channels are possible using both.

Resolutions supported by input cards		
HD mode[1]	1080/59.94p	1024 x 768/60Hz (XGA), 1280 x 1024/60Hz (SXGA), 1280 x 768/60Hz (WXGA), 1600 x 1200/60Hz (UXGA), 1920 x 1200/60Hz (WUXGA), 1920 x 1080/59.94p (HDTV)
	1080/50p	1024 x 768/60Hz (XGA)[2], 1280 x 1024/60Hz (SXGA)[2], 1280 x 768/60Hz (WXGA)[2], 1600 x 1200/60Hz (UXGA)[2], 1920 x 1200/60Hz (WUXGA)[2], 1920 x 1080/50p (HDTV)
	1080/29.97p	1920 x 1080/29.97p (HDTV)
	1080/25p	1920 x 1080/25p (HDTV)
	1080/24p	1920 x 1080/24p (HDTV)
	1080/23.98p	1920 x 1080/23.98p (HDTV)
	1080/59.94i	1024 x 768/60Hz (XGA), 1280 x 1024/60Hz (SXGA), 1280 x 768/60Hz (WXGA), 1600 x 1200/60Hz (UXGA), 1920 x 1200/60Hz (WUXGA), 1920 x 1080/59.94i (HDTV)
	1080/50i	1024 x 768/60Hz (XGA)[2], 1280 x 1024/60Hz (SXGA)[2], 1280 x 768/60Hz (WXGA)[2], 1600 x 1200/60Hz (UXGA)[2], 1920 x 1200/60Hz (WUXGA)[2], 1920 x 1080/50i (HDTV)
	1080/29.97PsF	1024 x 768/60Hz (XGA), 1280 x 1024/60Hz (SXGA), 1280 x 768/60Hz (WXGA), 1600 x 1200/60Hz (UXGA), 1920 x 1200/60Hz (WUXGA), 1920 x 1080/29.97PsF (HDTV)
	1080/25PsF	1024 x 768/60Hz (XGA)[2], 1280 x 1024/60Hz (SXGA)[2], 1280 x 768/60Hz (WXGA)[2], 1600 x 1200/60Hz (UXGA)[2], 1920 x 1200/60Hz (WUXGA)[2], 1920 x 1080/25PsF (HDTV)
	720/59.94p	1024 x 768/60Hz (XGA), 1280 x 1024/60Hz (SXGA), 1280 x 768/60Hz (WXGA), 1280 x 720/59.94p (HDTV)
	720/50p	1024 x 768/60Hz (XGA)[2], 1280 x 1024/60Hz (SXGA)[2], 1280 x 768/60Hz (WXGA)[2], 1280 x 720/50p (HDTV)
SD mode	625/50i	640 x 480/60Hz (VGA)[2], 800 x 600/60Hz (SVGA)[2], 1024 x 768/60Hz (XGA)[2], 720 x 576/50i (SDTV, PAL)
	525/60i	640 x 480/60Hz (VGA), 800 x 600/60Hz (SVGA), 1024 x 768/60Hz (XGA), 720 x 480/60i (SDTV, NTSC)

HVS-100PCO `available for slot A or B` `END OF SALE`

PC Output Card

HDMI and VGA terminals have been mounted onto a single card. 2 output channels are possible using both.

Resolutions supported by output cards		
HD mode[1]	1080/59.94p	1280 x 1024/60Hz (SXGA), 1600 x 1200/60Hz (UXGA), 1680 x 1050/60Hz (WSXGA), 1920 x 1200/60Hz (WUXGA), 1920 x 1080/59.94p (HDTV)
	1080/50p	1280 x 1024/60Hz (SXGA)[2], 1600 x 1200/60Hz (UXGA)[2], 1680 x 1050/60Hz (WSXGA)[2], 1920 x 1200/60Hz (WUXGA)[2], 1920 x 1080/50p (HDTV)
	1080/29.97p	1280 x 1024/60Hz (SXGA), 1600 x 1200/60Hz (UXGA), 1680 x 1050/60Hz (WSXGA), 1920 x 1200/60Hz (WUXGA), 1920 x 1080/29.97p (HDTV)
	1080/25p	1280 x 1024/60Hz (SXGA)[2], 1600 x 1200/60Hz (UXGA)[2], 1680 x 1050/60Hz (WSXGA)[2], 1920 x 1200/60Hz (WUXGA)[2], 1920 x 1080/25p (HDTV)
	1080/24p	1920 x 1080/24p (HDTV)
	1080/23.98p	1920 x 1080/23.98p (HDTV)
	1080/59.94i	1280 x 1024/60Hz (SXGA), 1600 x 1200/60Hz (UXGA), 1680 x 1050 /60Hz (WSXGA), 1920 x 1200/60Hz (WUXGA), 1920 x 1080/59.94i (HDTV)
	1080/50i	1280 x 1024/50Hz (SXGA), 1280 x 1024/60Hz (SXGA)[2], 1600 x 1200/50Hz (UXGA), 1600 x 1200/60Hz (UXGA)[2], 1680 x 1050/50Hz (WSXGA), 1680 x 1050/60Hz (WSXGA)[2], 1920 x 1200/50Hz (WUXGA), 1920 x 1200/60Hz (WUXGA)[2], 1920 x 1080/50i (HDTV)
	1080/29.97PsF	1280 x 1024/60Hz (SXGA), 1600 x 1200/60Hz (UXGA), 1680 x 1050 /60Hz (WSXGA), 1920 x 1200/60Hz (WUXGA), 1920 x 1080/29.97PsF (HDTV)
	1080/25PsF	1280 x 1024/50Hz (SXGA), 1280 x 1024/60Hz (SXGA)[2], 1600 x 1200/50Hz (UXGA), 1600 x 1200/60Hz (UXGA)[2], 1680 x 1050/50Hz (WSXGA), 1680 x 1050/60Hz (WSXGA)[2], 1920 x 1200/50Hz (WUXGA), 1920 x 1200/60Hz (WUXGA)[2], 1920 x 1080/25PsF (HDTV)
	720/59.94p	1280 x 1024/60Hz (SXGA), 1280 x 768/60Hz (WXGA), 1280 x 720/59.94p (HDTV)
	720/50p	1280 x 1024/50Hz (SXGA), 1280 x 1024/60Hz (SXGA)[2], 1280 x 768/50Hz (WXGA), 1280 x 768/60Hz (WXGA)[2], 1280 x 720/50p (HDTV)
SD mode	625/50i	800 x 600/50Hz (SVGA), 800 x 600/60Hz (SVGA)[2], 720 x 576/50i (SDTV, PAL)
	525/60i	800 x 600/60Hz (SVGA), 720 x 480/60i (SDTV, NTSC)

[1] HDCP-incompatible.
[2] Distortion occurs with 25 or 50 fps source video at a refresh rate of 60 Hz.

HVS-49AES   available for 49AES slot

Digital Audio I/O Card

Supports 4 lines (8 channels) of balanced or unbalanced audio input and output.

HVS-49DVE

2.5D DVE Expansion Card

Supports 8 channels of DVE output as standard at 1080/59.94p,50p. With a single card, DVEs are available for all keyers and FLEXaKEYs when 1080/59.94p, 50p and 4K formats are used.

HVS-DNT*   available for slot A or B

Dante Audio Card

HVS-DNT is the expansion card that supports up to 64 channels of Dante audio input/output per card. Up to 3 cards can be mounted to HVS-190S and 2 cards to HVS-190I. Supports redundancy. Provides 2 BNCs and expansion up to 2 channels by switching between SDI input/output.

* To be supported.

Other options

HVS-AUX16B/AUX16D

Tabletop Auxiliary Unit

16-button tabletop AUX remote control panel.

HVS-AUX16B

HVS-AUX16D
16-button model with display

HVS-49SSD240G

SSD Option

SSD for storing stills and clips ot any other data.

HVS-TALR32/HVS-TALOC32

Tally Control Unit

Connect up to 3 of the following half-rack tally units to a single HVS-490.
- HVS-TALR32: Relay type, 32 contacts.
- HVS-TALOC32: Open collector type, 32 contacts.

Rack Mount Brackets

Rack Mount Brackets for Operation Units

HVS-AUX16A/AUX16C/AUX32A/AUX64A

Auxiliary Unit

16- and 32-button models are 1RU size, and 64-button models are 2RU. Up to 10 AUX units can be connected via Ethernet. Greatly expand switcher versatility by assigning AUX source previews or a variety of functions to each button.

HVS-AUX16A

HVS-AUX16C
16-button model with display

HVS-AUX32A

HVS-AUX64A

HVS-49PSM/49PSO

Redundant Power Supply Unit

HVS-49PSM provides a redundant power supply for HVS-490. HVS-49PSO is available for HVS-491OU, HVS-492ROU, HVS-492OU or HVS-492WOU.

Options

Software

Supports 4K formats or video systems used for editing.

HVS-49EXP4K

4K Format Option Software

Adds support for 4K (3840 x 2160/59.94p, 50p, 2SI/SQD) input and output.*

* HVS-49IO is required.

HVS-49ED

Editor Control Software

Adds support for protocols used for editing on other video systems (BVS/DVS, GVG).

HVS-49SD

SD Format Option Software

Adds support for SD (625/50i, 525/60i) signals.

Please see Specs or User Manual for details of specs.

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