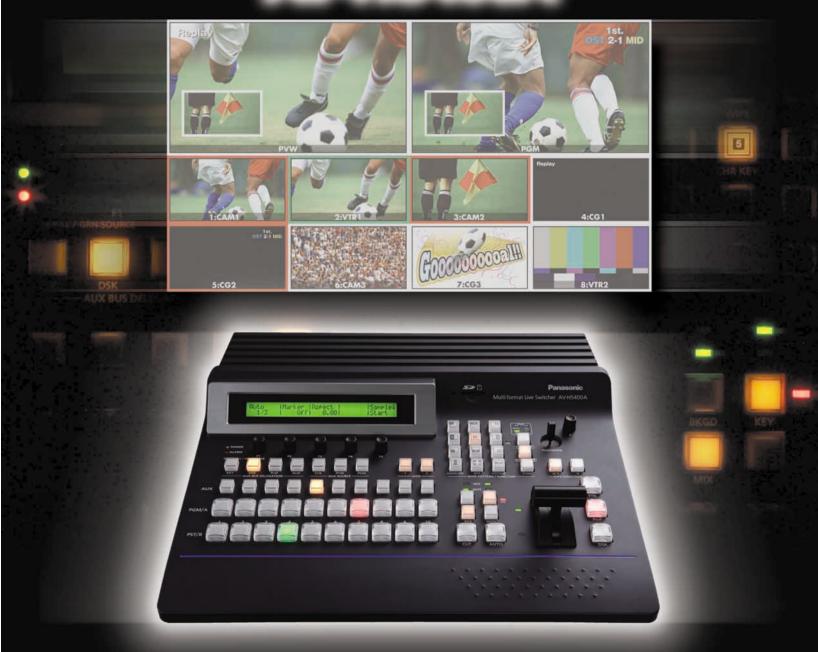


Compact, High-performance, Multi-format Live Switcher with Multi-view display

AV-HS400A



Introducing the AV-HS400A with new and

enhanced capabilities!





HD Integrated Camera AW-HF100

Multi-format HD/SD Compatibility for Worldwide Use

Compatibility with various HD/SD formats will help you meet changing production needs as video moves towards HD on a global scale. The AV-HS400A lets you upconvert and mix SD signals with HD, to provide an easy transition to full HD production. The AV-HS400A is compatible with virtually all common input devices.

Compatible formats

HD 1

1080/59.94i, 1080/50i, 720/59.94p, 720/50p



480/59.94i,576/50i

Built-in Frame Synchronizers for Versatile Operation

Each input features a built-in 10-bit Frame Synchronizer for smooth switching, even with asynchronous sources, such as DVDs or satellite feeds. Reference (black burst) signal outputs are provided to enable synchronization with external systems. The main unit and control panel are integrated in a compact body, ideal for small studios and mobile production.

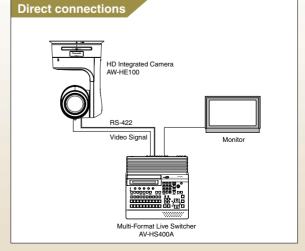
- \ast AC 100 V to 120 V power supply.
- The unit is not waterproof so please avoid direct contact with water.

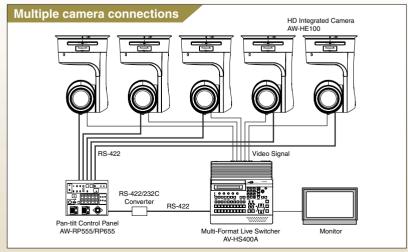
Remotely control the HD integrated camera AW-HE100 and pan-tilt heads*

Directly connecting the AW-HE100 3CCD integrated pan/tilt/zoom camera or a Panasonic camera/pan-tilt head* allows control over pan, tilt, zoom, and focus using the AV-HS400A's positioner.

Moreover, by also connecting a Panasonic control panel** you can switch between and operate up to 5 cameras and pan-tilt heads*.

* Compatible models: AW-PH400/AW-PH405/AW-PH360. ** Compatible models: AW-RP655/AW-RP555.





Compatible with HD/SD cameras worldwide.

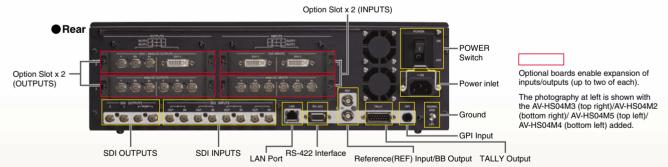


SDI Standard Compatible, with up to 8 Video Inputs and Outputs.

- Standard equipment includes 4 HD/SD-SDI inputs and outputs*.
- Optional input and output expansion boards (sold separately) include:
 Input: Addition of up to 4 HD/SD-SDI inputs, up to 4 HD/SD analog components, up to 4 HD/SD analog composite, or up to 4 DVI-I**. Moreover, each optional input board is equipped with an up-converter.
 Output: Addition of up to 4 SDI, 4 Analog Component, and 2 DVI-I*** outputs, with a maximum of 8 total outputs.
- Tally outputs for up to 8 cameras for extra convenience when operating as a live switcher.
- RS-422 compatible (GVG protocol) control jack.
- * Two interfaces assignable as PGM,PVW, AUX, multi-screen, and keyout. ** Compatible with XGA, WXGA, SXGA.

 *** Compatible with XGA (1024x768), WXGA (1280x768), SXGA (1280x1024), WSXGA+ (1680x1050)*****, UXGA (1600x1200)****, WUXGA (1920x1200)****.

 ***** Digital output only.

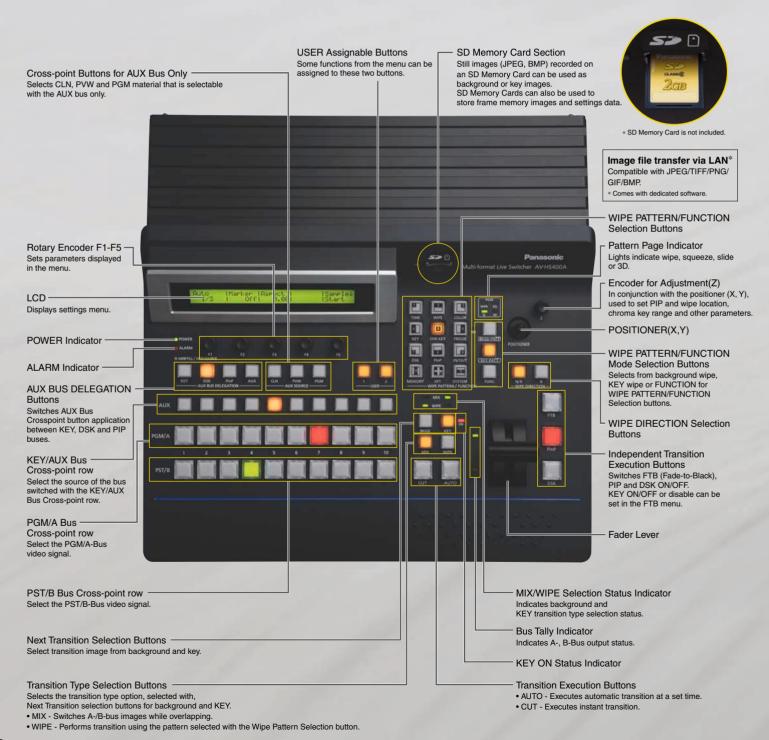


■ Option Boards You can expand inputs/outputs to match your requirements.



Multi-system compatibility for extra flexibility It's compact with all the functions you need

■ The main unit and control panel are integrated in a compact body.



in the field and studio. for superb results.

Use the Multi-view Display Function to Preview Materials and Production Screen on a Single Monitor

Multi-view display enables simultaneous split-screen preview with a single monitor, so you can reduce the number of monitors required. Split-screen segments labels may now be selected or edited. Labels may also be turned off or adjusted for 5 levels of brightness. The label background "band" and frame outline may also be turned of, and the frame brightness is adjustable through 5 levels.

Example of an AV-HS400A monitor system

Simultaneous split-screen preview with a single monitor.



Connection of separate monitors is required for each input, PVW and PGM. * The image shows loop-through outputs connected to switcher inputs.

■ Selectable Split-screen Quantity and Location

- The number of split-screens can selected from 10,8, and 4.
- Display of red/green tally indications in frame can be displayed.
- Split-screen labels may customized or selected from menus.
- When splitting screens into 10/8 sections, the upper 2 windows may be selected from PGM/PVW/AUX/BUS/KEYOUT images.



Ten Split Pictures (images)



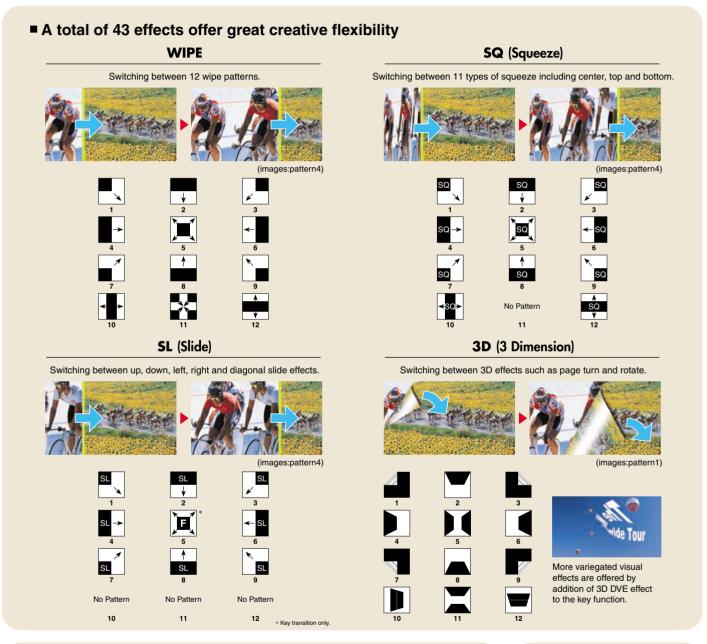
Eight Split Pictures (images)



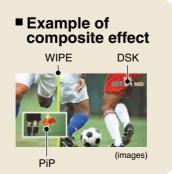
Four Split Pictures (images)

Multiple Effects for Stunning Results

In addition to standard wipe patterns, the DVE allows you to utilize squeeze, slide effects, and different types of 3D. The 3D DVE effects (i.e. page turn) are also applicable to the key function. Keyer functions include a luminance key, chroma key, and DSK. Furthermore, the AV-HS400A offers an additional, even greater range of visual effect key functions brought to life with the flying key function, enabling easy key position and size adjustment. Enhanced key functions include omnidirectional edge control in 45 degree increments, and a simplified 2nd PiP (Picture-in-Picture.)





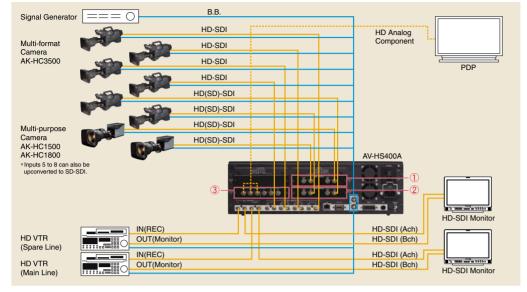


System Examples

 Ready for broadcast and studio production applications.

HD-SDI camera environment (with Genlock)

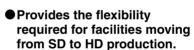
- =Option Boards
- 1 SDI INPUTS (AV-HS04M1)
- 2 SDI INPUTS (AV-HS04M1)
- 3 ANALOG OUTPUTS (AV-HS04M4)



 Ideal for use with simple systems at CATV stations, schools and other locations.

HD camera environment (no Genlock): Using the HD Analog component option

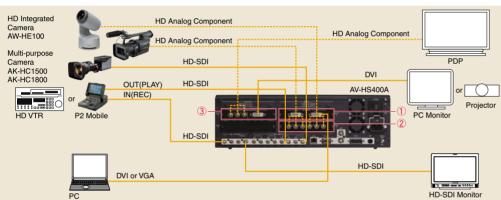
- =Option Boards
- ① DVI INPUTS (AV-HS04M3)
- ② ANALOG INPUTS (AV-HS04M2)
- ③ DVI/ANALOG OUTPUTS (AV-HS04M5)

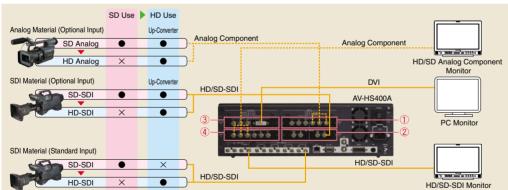


 A combined HD/SD-SDI and HD/SD analog component environment without Genlock.

=Option Boards

- ① ANALOG INPUTS(AV-HS04M2)
- 2 SDI INPUTS(AV-HS04M1)
- ③ DVI/ANALOG OUTPUTS(AV-HS04M5)
- 4 ANALOG OUTPUTS(AV-HS04M4)

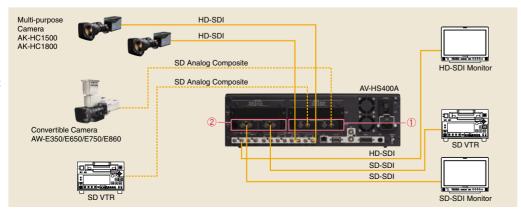




2. A combined HD/SD-SDI and analog composite environment without Genlock.

=Option Boards

- ① ANALOG COMPOSITE INPUTS (AV-HS04M6)
- 2 SDI OUTPUTS (AV-HS04M7)



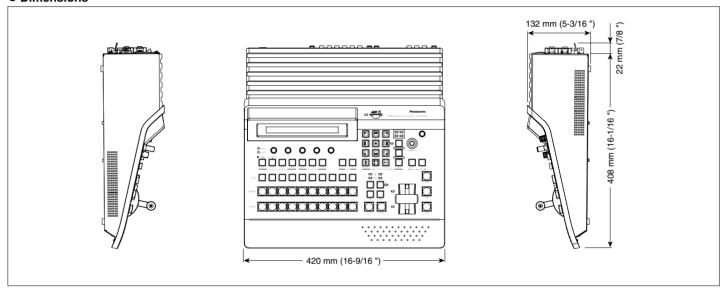
Specifications

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Video processing	Video format	SD (576/50i, 480/59.94i),	
		HD (1080/59.94i, 1080/50i, 720/59.94p, 720/50p)	
M/E		1M/E	
Input	Video processing	Y:Cb:Cr, 4:2:2 10 bit	
		RGB, 4:4:4 8 bit	
	Video	Standard: Four inputs (HD/SD-SDI)	
		Option: A maximum of four inputs (Up to 2 input boards (each board	
		offering 2 inputs) for each of the following 4 types of boards may be	
		added: HD/SD-SDI x 2, HD/SD-analog component x 2,	
		analog composite x 2, DVI-I x 2.)	
	Reference	Black burst/TRI (loop through) x 1	
Output	Video	Standard: Four outputs (PGM x 2, general-purpose x 2,	
		each HD/SD-SDI)	
		Option: A maximum of four outputs (general-purpose x 4)	
		(Up to 2 output boards (each board offering 2 outputs) for the	
		following 3 types of boards may be added: analog component x 2,	
		DVI-I/analog component x 1 each, HD/SD-SDI x 2).	
	Reference	Loop through x 1 (Genlock)/	
		Black burst x 2 (internal synchronization)	

Pattern	WIPE x 12, Squeeze x 11, SLIDE x 8, 3D DVE x 12 (3 directions)
	Selection with key transition is possible independently of background.
Transition method	FADER, AUTO
Transition type	Cut, mix, wipe (including DVE), background and key can be selected.
Key source	BUS
Key fill	BUS, MATTE
Key mode	Linear key, Lum key, Chroma key (Key only), Full key (Key only)
Transition method	AUTO (PinP only)
Transition type	MIX
Serial (EDITOR)	D-sub9pin x 1: RS-422 (GVG protocol compatible),
	for controlling a pan-tilt system
Tally output	D-sub15pin x 1, open collector output
GPI	ø 3.5 Stereo mini jack
LAN	RJ45, 10 Mbps x 1
SD memory card slot	1 (for transferring still image files and providing an upgrade capability)
	10 % to 90 % (no condensation)
ure	0 °C to +40 °C (32 °F to 104 °F)
er consumption	AC 100 V to 120 V, 50 Hz/60 Hz / Approx. 98 W
x D)	420 mm x 132 mm x 408 mm (16-9/16 " x 5-3/16 " x 16-1/16 ")(excluding protrusions)
	Approx. 6.4 kg (14.1 lbs): without options
	Approx. 7.2 kg (15.9 lbs): with options
	Transition method Transition type Key source Key fill Key mode Transition method Transition type Serial (EDITOR) Tally output GPI LAN SD memory card slot ure er consumption

^{*} Features and specifications in this document are subject to change without notice due to continual improvements.

Dimensions



• SD Logo is a trademark.

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