Panasonic CONNECT



Broadcast-quality video in a compact, notebook-size chassis. Supports diverse IP protocols for smooth IP-based video production and distribution

Conveniently Compact Switcher Achieves High-quality Video

The AV-HSW10 supports 10bit processing for broadcast-quality video and is also equipped with diverse functions necessary for high-quality video production, such as a frame synchronizer, Genlock, and various keyers. SDI input/output allows transmission at a minimum of 1H (when Genlock is used) or 1 frame + 1H (when frame synchronizer is used) facilitating stable video transmission with low latency. It also supports audio input, enabling switching between video and audio with a single unit. The AV-HSW10 takes video broadcasting to the next level, making it perfect for highly professional online lectures, corporate webinars and other live events that are gaining momentum these days.

Diverse Interfaces to Suit Wide-ranging Needs

In addition to 3G-SDI and HDMI, the AV-HSW10 supports NDI**1 as well as SRT and many other IP transmission standards to suit contemporary video-production needs. Also included is Switcher Link for linking with camera controllers and IP transmission of tally information to connected PTZ cameras. It also supports RTMP for direct upload to streaming services, and USB Video Class for compatibility with web conferencing services. The system can be adjusted based on the particular platform and site layout, enabling one-person operation from production to distribution.

Auto Color Adjustment for Multi-camera Videos

The Auto Color Adjustment function automatically adjusts the color tone of videos captured from multiple cameras to match the color tone of the selected camera. The color tone of videos recorded and distributed using multiple cameras tends to vary from one camera to another, and this simple system can be used to equalize this.



▲ Check out the video

NDI®*1 signal with Alpha Channel for CG Materials

Supports NDI**1 input signal with alpha channel,*2 allowing CG materials with transparency information (alpha channels) to be input directly from a PC via a single LAN cable. This facilitates flexible operation, such as the easy editing of materials during an event.



▲ Check out the video!

Simple, Intuitive and Reliable Operation

The AV-HSW10 offers the simple, intuitive operability required in live production and ensures easy, error-free operation - all in a robust chassis design. The main unit features buttons and a fader - inspired by its predecessor, the AW-HS50, and have been enhanced for even greater operability essential for high-quality video distribution. On-screen display (OSD) also is supported.



Diverse Keyers for More Attractive Videos

Two channels of keyers can be programmed for PinP, linear, luminance or chroma key*3 enabling high-quality compositing achievable only with 10bit signal processing. Two AUX buses are also provided.



Webinar screen example with keyer

MultiViewer with 10 Selectable Patterns

MultiViewer output is provided as standard, enabling up to 16 split screens to be displayed on a single screen. Split-layout options include 4, 5 (2 patterns), 6 (2 patterns), 9, 10 (2 patterns), 12 and 16 screens.



12-split MultiViewer screen

Remote Control with Software Control Panel*4

The AV-HSW10 is compatible with Panasonic's Software Control Panel*4 for video monitoring and switching with a networked PC. MultiView images can be checked remotely to divide up production tasks for greater on-site efficiency in the field.



Software Control Panel screen (sample)

^{*1:} NDI® is a new protocol developed by NewTek, Inc. that supports IP video production workflow. NDI® is a registered trademark of NewTek, Inc. in the United States and other countries. *2: High Bandwidth NDI® input is required when using NDI® input signal with alpha channel.
*3: Chroma key can only be selected from kever 1. *4: Future support scheduled.

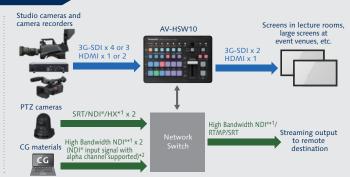
Note: Screen examples for illustration purpose only. Information subject to change without notice.



System Examples

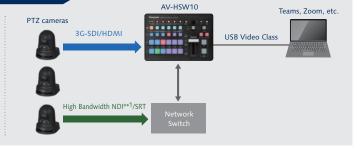
Ex.1 Lecture or live event

For hybrid, in-person and online events, large-screen video at the venue can be output via 3G-SDI or HDMI and easily broadcast to remote locations via IP. In addition, supporting NDI®*1 input signal with alpha channel facilitates the use of CG materials.



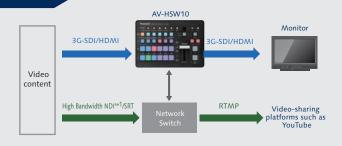
Webinar or teleconference

USB Video Class is supported for streaming to a web conferencing service, such as Teams or Zoom, without having to install a special driver on the PC.



Ex.3 Video streaming

The AV-HSW10, also a great option for broadcasting prerecorded video, supports RTMP for direct uploading to video-sharing platforms such as YouTube.



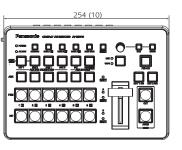


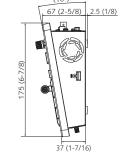
Specifications

Video Input	3G-SDI	4	3	
	HDMI	1	2	
	SRT/NDI® HX*1	2		
	High Bandwidth NDI®*1	2 (Alpha channels supported)		
Video Output	3G-SDI	2		
	HDMI	1		
	High Bandwidth NDI®*1/ SRT/RTMP	2		
	USB Video Class/ USB Audio Class*3	USB3.2 Gen.1 Type-C, 1ch No BUS Power YUY2 (Uncompressed)		
Video Format	3G-SDI	1080/59.94p, 50p, 29.97p, 25p, 24p, 23.98p 1080/59.94i, 50i, 720/59.94p, 50p		
	High Bandwidth NDI**1	1080/59.94p, 50p, 29.97p, 25p, 24p, 23.98p 720/59.94p, 50p		
	NDI® HX*1	1080/60fps, 50fps, 30fps, 25fps, 24fps 720p/60fps,50fps		
Audio		IN: RCA x 2, OUT: Φ3.5 mm TRS		
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Frame Synchronizer	All inputs	
CC/UC/DC (Input)	i/P converter, DC/UC (1080-720p), CC	
Keyer	2 (PinP, Linear key, Luminance key, Chroma key*4)	
AUX	2	
Genlock	BB or Tri-level (Input/through output)	
PTZ Link	RP Link (AW-RP60/ RP150), TSL5.0	
VMEM	Still x 2	
Shot MEM	Max. 12 presets	
USB	USB2.0 Type-A (for USB Memory) BUS Power	
Dimensions (W x H x D) (excluding protrusions)	254 mm x 175 mm x 67 mm (10 inches x 6-7/8 inches x 2-5/8 inches)	
Power Consumption	48 W	







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For more information, please visit Panasonic web site https://pro-av.panasonic.net/en/products/av-hsw10/

