

Panasonic

AV-HSW10
Compact Live Switcher



**IP Live Switcher with Intuitive, Compact Design
For High-quality Video Streaming
Takes Online Communication One Level Higher**

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. When combined with IP-enabled PTZ cameras, it creates a simple IP-based video production system. 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.

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.

The tactile-response crosspoint button is made of soft silicon rubber and features a concave design for no-look use.



The T-shaped fader is similar in feel to higher-end models.

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!

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

PTZ Camera Linkages (RP Link,*4 etc.)

The AW-RP150/60 Remote Camera Controller can be connected to up to nine PTZ cameras. Using an IP connection, camera selection can be synchronized with the main unit's AUX output switching (External Control AUX Panel) and the tally of each PTZ camera can be managed from the unit (Tally Link). This streamlined setup eliminates the need for additional monitors to check camera output or tally transmission devices.

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

*1: NDI® is a registered trademark of Vizrt NDI AB in the United States and other countries. *2: NDI® High Bandwidth input is required when using NDI® input signal with alpha channel. *3: Chroma key can only be selected from keyer 1.

*4: Refers to both "External Control Switcher" and "External Control AUX Panel"

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

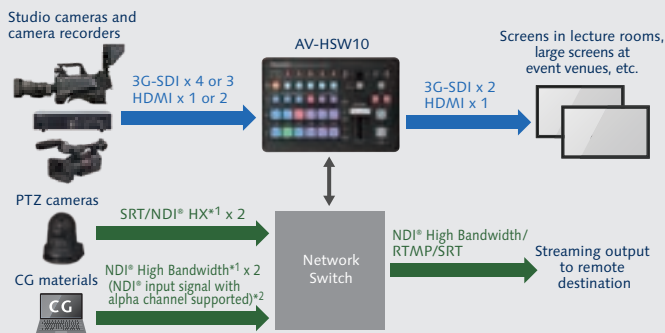
AV-HSW10 actual size



System Examples

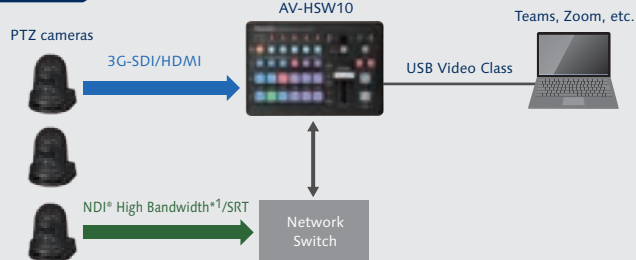
Ex.1 Lecture or live event

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.



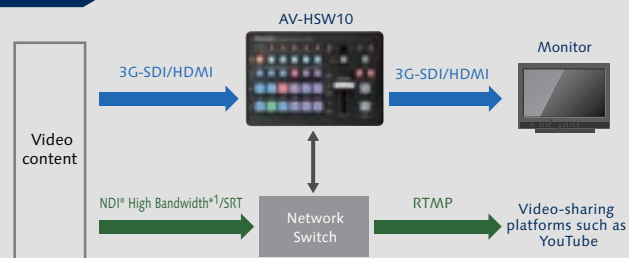
Ex.2 Webinar or teleconference

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.



*1: NDI® is a registered trademark of Vizrt NDI AB in the United States and other countries. *2: NDI® High Bandwidth input is required when using NDI® input signal with alpha channel. *3: USB Video Class(UVC): A standard for connecting video-handling devices such as webcams to a computer via USB. USB Audio Class(UAC): A standard for connecting audio-handling devices to a computer via USB. *4: Chroma key can only be selected from keyer 1.

AV-SF10 Software Control Panel

free software

The AV-SF10 Software Control Panel allows a networked PC or tablet (Windows or MacOS) connected to the AV-HSW10 main unit to be used for diverse operations and configurations. The GUI screen integrates Panasonic's unique MultiViewer and control panel for intuitive operation. Combining the main unit and a PC or tablet loaded with the Software Control Panel enables work sharing and remote operation in the field location.

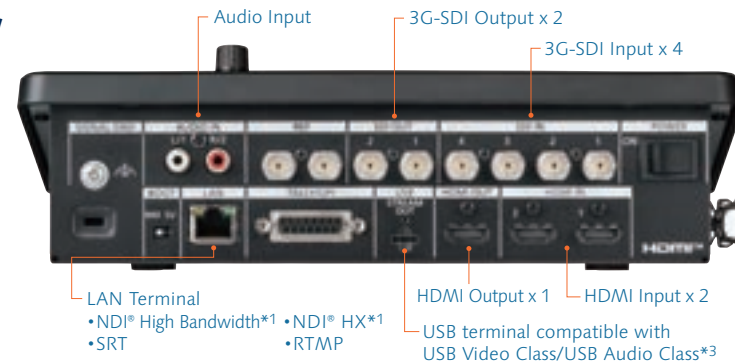


Main Mode

For details:



Rear View



Specifications

Category	Item	Value	Value
Video Input	3G-SDI	4	3
	HDMI	1	2
	SRT/NDI® HX*1		2
	NDI® High Bandwidth*1	2 (Alpha channels supported)	
Video Output	3G-SDI	2	
	HDMI	1	
	NDI® High Bandwidth*1/SRT/RTMP	2	
	USB Video Class/USB Audio Class*3	USB3.2 Gen.1 Type-C, 1ch No BUS Power YUY2 (Uncompressed) Output-ready format: 1920 x 1080/60fps, 50fps, 30fps, 25fps, 24fps 1280 x 720/60fps, 50fps, 30fps, 25fps, 24fps	
Video Format	3G-SDI	1080/59.94p, 50p, 29.97p, 25p, 24p, 23.98p 1080/59.94i, 50i, 720/59.94p, 50p	
	NDI® High Bandwidth*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
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
V/MEM	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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Specifications are subject to change without notice.

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



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