



Lo switcher compatto consente di ottenere video di alta qualità

## AV-HSW10

IP Live Switcher con design intuitivo e compatto porta la comunicazione online un livello superiore.

### Key Features

Interfacce diversificate per soddisfare esigenze di ampia portata

Diversi keyer per video più attraenti

Multiviewer con 10 modelli selezionabili

Controllo remoto con pannello di controllo software

# AV-HSW10

<https://eu.connect.panasonic.com/it/it/broadcast-proav/av-hsw10>

<b>Live Switcher -&gt; General -&gt; Power Supply</b>	16 V Dedicated Adaptor
<b>Live Switcher -&gt; General -&gt; Power Consumption</b>	3.0 A (48 W)
<b>Live Switcher -&gt; General -&gt; Operating Temperature</b>	0°C to 40 °C (32 °F to 104 °F)
<b>Live Switcher -&gt; General -&gt; Operating Humidity</b>	10 % to 90 % (no condensation)
<b>Live Switcher -&gt; General -&gt; Storage Temperature</b>	0 °C to 40 °C (32 °F to 104 °F)
<b>Live Switcher -&gt; General -&gt; Storage Humidity</b>	10 % to 90 % (no condensation)
<b>Live Switcher -&gt; General -&gt; Weight</b>	Approx. 1.8 kg ( Approx.3.96 lb)
<b>Live Switcher -&gt; General -&gt; Dimensions</b>	W 254 mm x H 67 mm x D 175 mm (10 inches x 2-5/8 inches x 6-7/8 inches) (excluding protrusions)
<b>Live Switcher -&gt; General -&gt; ME Number</b>	1 ME
<b>Live Switcher -&gt; Video Terminal -&gt; SDI IN</b>	4 lines <ul style="list-style-type: none"> <li>• Connectors: BNC x 4</li> <li>• Equipped with frame synchronizer</li> <li>• Connectors and have simplified format simple format converters, and have high-performance format converters.</li> <li>• Connectors to are equipped with simplified format converters.</li> <li>* SDI IN 1 excludes HDMI IN1.</li> <li>[3G-SDI] 3G-SDI, SMPTE424 standard complied with (Compatible with Level-A/Level-B) <ul style="list-style-type: none"> <li>• 0.8 V [p-p] ± 10 % (75 Ω)</li> <li>• Automatic equalizer 100 m (when using a cable)</li> </ul> </li> <li>[HD-SDI] HD-SDI, SMPTE292M standard <ul style="list-style-type: none"> <li>• 0.8 V [p-p] ± 10 % (75 Ω)</li> <li>• Automatic equalizer 100 m (when using a cable)</li> </ul> </li> </ul>
<b>Live Switcher -&gt; Video Terminal -&gt; HDMI IN</b>	2 lines, HDMI 1.4b compatible <p>Video format inputs:</p> <p>720p/59.94 Hz, 720p/50 Hz, 1080i/59.94 Hz, 1080i/50 Hz, 1080p/59.94 Hz, 1080p/50 Hz, 1080p/29.97 Hz, 1080p/25 Hz, 1080p/24 Hz, 1080p/23.98</p> <p>PC format inputs:</p> <p>WSXGA+ (1680 x 1050, 60 Hz), SXGA (1280 x 1024, 60 Hz), WXGA (1280 x 768, 60 Hz), XGA (1024 x 768, 60 Hz)</p> <p>Mode: Full/Fit-H/Fit-V</p> <ul style="list-style-type: none"> <li>• Connectors: HDMI x 2</li> <li>• Equipped with frame synchronizer and simplified color corrector.</li> <li>• The HDMI IN connector has scaler function.</li> <li>• This connector does not support the HDCP technologies.</li> <li>* HDMI IN 1 excludes SDI IN 1.</li> </ul>
<b>Live Switcher -&gt; Video Terminal -&gt; SDI OUT</b>	2 lines <ul style="list-style-type: none"> <li>• Connectors: BNC x 2</li> <li>• PGM, PVW, CLN, MV, AUX1/2, and Key Out can be assigned.</li> <li>[3G-SDI] 3G-SDI, SMPTE424M standard complied with (Compatible with Level-A) <ul style="list-style-type: none"> <li>• 0.8 V [p-p] ± 10 % (75 Ω)</li> </ul> </li> <li>[HD-SDI] HD-SDI, SMPTE292M standard <ul style="list-style-type: none"> <li>• 0.8 V [p-p] ± 10 % (75 Ω)</li> </ul> </li> </ul>
<b>Live Switcher -&gt; Video Terminal -&gt; HDMI OUT</b>	1 line, HDMI 1.4b compatible <ul style="list-style-type: none"> <li>• Connector: HDMI x 1</li> <li>• Equipped with scaler function.</li> <li>Mode: Fit-V, Fit-H Full, Full-90%, Full-80%</li> <li>• PGM, PVW, CLN, MV, AUX1/2, and Key Out can be assigned.</li> </ul>
<b>Live Switcher -&gt; Video Terminal -&gt; LAN</b>	Compatible with 1000Base-T and AUTO-MDIX (for IP signal transmission/control) <ul style="list-style-type: none"> <li>• Connecting cable: LAN cable (Category 5e or more), max. 100 m (328 ft), STP (Shielded Twisted Pair) cable recommended</li> <li>• Connector: RJ-45</li> </ul> <p>IP input signal:</p> <p>Assigned to IN 6 to 9.</p> <ul style="list-style-type: none"> <li>• IN 6, IN 7: Selectable from SRT/NDI  HX (version1/version2).</li> <li>• IN 8, IN 9: Dedicated to High Bandwidth NDI input.</li> </ul> <p>Supports NDI a channel input. Used as a pair with IN 9 in this case.</p> <ul style="list-style-type: none"> <li>• IN6 to 9: High Bandwidth NDI x4 can be selected by changing to firmware that supports NDI HB mode.</li> </ul> <p>*For H.264, the AV-HSW10 supports input up to Level 4.2.</p> <p>For H.265, the AV-HSW10 supports input up to Level 5.1 (Main tier) and Level 4.1 (High tier).</p> <p>IP output signal:</p> <p>Assigned to OUT 4 and OUT 5.</p> <ul style="list-style-type: none"> <li>• OUT 4, OUT 5: Selectable from SRT/High Bandwidth NDI/RTMP.</li> <li>• PGM, PVW, CLN, MV, AUX1/2, Key Out can be assigned.</li> <li>• Equipped with scaler function and i/p conversion function. *1</li> <li>• IN6 to IN9: When using firmware in NDI HB mode, only the High Bandwidth NDI of OUT4 is enabled.</li> <li>• Possible output formats: 1920 x 1080/60fps, 50fps, 30fps, 25fps, 24fps, 1280 x 720/60fps, 50fps</li> </ul> <p>*For H.264, the AV-HSW10 outputs at Level 4.2.</p> <p>For H.265, the AV-HSW10 outputs at Level 5 (Main tier).</p>

<b>Live Switcher -&gt; Video Terminal -&gt; USB</b>	Connector for outputting UVC/UAC Assigned to OUT 6. • Connector: USB3.2 Gen1 Type-C, No USB bus power functionality • PGM, PVW, CLN, MV, AUX1/2, and Key Out can be assigned. • Equipped with scaler function and i/p conversion function. *1 • Possible output formats: 1920 x 1080/60fps, 50fps, 30fps, 25fps, 24fps, 1280 x 720/60fps, 50fps, 30fps, 25fps, 24fps
<b>Live Switcher -&gt; Video Terminal -&gt; Signal Formats</b>	3G-SDI 1080/59.94p, 50p, 29.97p, 25p, 24p, 23.98p 1080/59.94i, 50i, 720/59.94p, 50p NDI® High Bandwidth 1080/59.94p, 50p, 29.97p, 25p, 24p, 23.98p 720/59.94p, 50p NDI® HX 1080/60p, 50p, 30p, 25p, 24p 720p/60p, 50p USB 1080/60p, 50p, 30p, 25p, 24p *1 720p/60p, 50p, 30p, 25p, 24p
<b>Live Switcher -&gt; Video Terminal -&gt; Signal Processing</b>	[R:G:B] 4:4:4 8bit / 4:2:2 10bit (when HDMI) [Y:Cb:Cr] 4:2:2 8bit (when NDI® High Bandwidth/UVC) [Y:Cb:Cr] 4:2:0 8bit (when NDI® HX/SRT/RTMP) [Y:Cb:Cr] 4:2:2 10bit
<b>Live Switcher -&gt; Audio Terminal -&gt; AUDIO IN</b>	L/1 and R/2 • Connector: Pin jacks • Equipped with embedded functionality to each output. • Equipped with delay/level adjustment function.
<b>Live Switcher -&gt; Audio Terminal -&gt; AUDIO OUT</b>	Connector for headphone monitor • Connector: Ø3.5 mm TRS • Equipped with output volume adjustment function.
<b>Live Switcher -&gt; Synchronous Terminal -&gt; REF Terminal Reference Input/ BB Outputs</b>	In Genlock mode: Selectable from BB (black burst), Tri-level Sync, and internal synchronization • Loop-through output is performed in BB mode and Tri-level Sync mode. • If loop-through output is not going to be used, provide a 75 Ω termination. • Connectors: BNC×2 • Same field frequencies as those of the system formats supported. • For 23.98 Hz and 24 Hz, only Tri-level input or internal synchronization is supported.
<b>Live Switcher -&gt; Synchronous Terminal -&gt; Video Delay Time</b>	1 line (H) When the frame synchronizer setting is [Off] and neither the up-converter nor the down-converter is operating 1 frame (F) When the frame synchronizer setting is on and the up-converter and downconverter are operating • When the signals have passed through PinP, multi view, down-converter or HDMI IN/OUT, a maximum delay of 1 frame is applied in each case.
<b>Live Switcher -&gt; Control Terminal -&gt; LAN Terminal</b>	Compatible with 1000Base-T and AUTO-MDIX (For IP control) • Connecting cable: LAN cable (Category 5e), max. 100 m (328 ft), STP (Shielded Twisted Pair) cable recommended • Connector: RJ-45
<b>Live Switcher -&gt; Control Terminal -&gt; TALLY GPI Terminal</b>	INPUT: 5 inputs, general-purpose, photocoupler sensing OUTPUT: 8 outputs, selected from R/G tally, general-purpose ALARM: 1 output, open collector output (negative logic) • Connectors: D-Sub 15pin
<b>Live Switcher -&gt; Control Terminal -&gt; USB Terminal</b>	• Connector: USB2.0, Type-A, with USB bus power functionality Use a USB memory to save and load configuration files and still data, and perform firmware updates.
<b>Live Switcher -&gt; Audio</b>	IN: RCA x 2, OUT: 3.5 mm TRS
<b>Live Switcher -&gt; Frame Synchronizer</b>	All inputs
<b>Live Switcher -&gt; CC/UC/DC (Input)</b>	i/P converter, DC/UC (1080-720P), CC
<b>Live Switcher -&gt; Keyer</b>	2 (PinP, Linear key, Luminance key, Chroma key*2)
<b>Live Switcher -&gt; AUX</b>	2
<b>Live Switcher -&gt; Genlock</b>	BB or Tri-level (Input/through output)
<b>Live Switcher -&gt; PTZ Link</b>	RP Link (AW-RP60/ RP150), TSL5.0
<b>Live Switcher -&gt; VMEM</b>	Still x 2
<b>Live Switcher -&gt; Shot MEM</b>	Max. 12 presets
<b>Nota a piè di pagina</b>	1. Planned support with a firmware update