



Conveniently Compact Switcher Achieves High-quality Video

AV-HSW10

IP Live Switcher with intuitive and compact design takes online communication one level higher.

Key Features

Diverse Interfaces to Suit Wide-ranging Needs

Diverse Keys for More Attractive Video

Multiviewer With 10 Selectable Patterns

Remote Control With Software Control Panel

AV-HSW10

<https://latam.connect.panasonic.com/pa/en/products/broadcast-proav/av-hsw10>

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| Live Switcher -> General -> Power Supply | 16 V Dedicated Adaptor |
| Live Switcher -> General -> Power Consumption | 3.0 A (48 W) |
| Live Switcher -> General -> Operating Temperature | 0°C to 40 °C (32 °F to 104 °F) |
| Live Switcher -> General -> Operating Humidity | 10 % to 90 % (no condensation) |
| Live Switcher -> General -> Storage Temperature | 0 °C to 40 °C (32 °F to 104 °F) |
| Live Switcher -> General -> Storage Humidity | 10 % to 90 % (no condensation) |
| Live Switcher -> General -> Weight | Approx. 1.8 kg (Approx.3.96 lb) |
| Live Switcher -> General -> Dimensions | 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) |
| Live Switcher -> General -> ME Number | 1 ME |
| Live Switcher -> Video Terminal -> SDI IN | 4 lines <ul style="list-style-type: none"> • Connectors: BNC x 4 • Equipped with frame synchronizer • Connectors and have simplified format simple format converters, and have high-performance format converters. • Connectors to are equipped with simplified format converters. <p>* SDI IN 1 excludes HDMI IN1.</p> <p>[3G-SDI] 3G-SDI, SMPTE424 standard complied with (Compatible with Level-A/Level-B)</p> <ul style="list-style-type: none"> • 0.8 V [p-p] ± 10 % (75 Ω) • Automatic equalizer 100 m (when using a cable) <p>[HD-SDI] HD-SDI, SMPTE292M standard</p> <ul style="list-style-type: none"> • 0.8 V [p-p] ± 10 % (75 Ω) • Automatic equalizer 100 m (when using a cable) |
| Live Switcher -> Video Terminal -> HDMI IN | 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"> • Connectors: HDMI x 2 • Equipped with frame synchronizer and simplified color corrector. • The HDMI IN connector has scaler function. • This connector does not support the HDCP technologies. <p>* HDMI IN 1 excludes SDI IN 1.</p> |
| Live Switcher -> Video Terminal -> SDI OUT | 2 lines <ul style="list-style-type: none"> • Connectors: BNC x 2 • PGM, PVW, CLN, MV, AUX1/2, and Key Out can be assigned. <p>[3G-SDI] 3G-SDI, SMPTE424M standard complied with (Compatible with Level-A)</p> <ul style="list-style-type: none"> • 0.8 V [p-p] ± 10 % (75 Ω) <p>[HD-SDI] HD-SDI, SMPTE292M standard</p> <ul style="list-style-type: none"> • 0.8 V [p-p] ± 10 % (75 Ω) |

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| Live Switcher -> Video Terminal -> HDMI OUT | <p>1 line, HDMI 1.4b compatible</p> <ul style="list-style-type: none"> • Connector: HDMI x 1 • Equipped with scaler function. <p>Mode: Fit-V, Fit-H Full, Full-90%, Full-80%</p> <ul style="list-style-type: none"> • PGM, PVW, CLN, MV, AUX1/2, and Key Out can be assigned. |
| Live Switcher -> Video Terminal -> LAN | <p>Compatible with 1000Base-T and AUTO-MDIX (for IP signal transmission/control)</p> <ul style="list-style-type: none"> • Connecting cable: LAN cable (Category 5e or more), max. 100 m (328 ft), STP (Shielded Twisted Pair) cable recommended • Connector: RJ-45 <p>IP input signal:</p> <p>Assigned to IN 6 to 9.</p> <ul style="list-style-type: none"> • IN 6, IN 7: Selectable from SRT/NDI HX (version1/version2). • IN 8, IN 9: Dedicated to High Bandwidth NDI input. <p>Supports NDI a channel input. Used as a pair with IN 9 in this case.</p> <p>IP output signal:</p> <p>Assigned to OUT 4 and OUT 5.</p> <ul style="list-style-type: none"> • OUT 4, OUT 5: Selectable from SRT/High Bandwidth NDI/RTMP. • PGM, PVW, CLN, MV, AUX1/2, 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 |
| Live Switcher -> Video Terminal -> USB | <p>Connector for outputting UVC/UAC</p> <p>Assigned to OUT 6.</p> <ul style="list-style-type: none"> • 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 |
| Live Switcher -> Video Terminal -> Signal Formats | <p>3G-SDI</p> <p>1080/59.94p, 50p, 29.97p, 25p, 24p, 23.98p</p> <p>1080/59.94i, 50i,</p> <p>720/59.94p, 50p</p> <p>NDI® High Bandwidth</p> <p>1080/59.94p, 50p, 29.97p, 25p, 24p, 23.98p</p> <p>720/59.94p, 50p</p> <p>NDI® HX</p> <p>1080/60p, 50p, 30p, 25p, 24p</p> <p>720p/60p, 50p</p> <p>USB</p> <p>1080/60p, 50p, 30p, 25p, 24p *1</p> <p>720p/60p, 50p, 30p, 25p, 24p</p> |
| Live Switcher -> Video Terminal -> Signal Processing | <p>[R:G:B] 4:4:4 8bit / 4:2:2 10bit (when HDMI)</p> <p>[Y:Cb:Cr] 4:2:2 8bit (when NDI® High Bandwidth/UVC)</p> <p>[Y:Cb:Cr] 4:2:0 8bit (when NDI® HX/SRT/RTMP)</p> <p>[Y:Cb:Cr] 4:2:2 10bit</p> |
| Live Switcher -> Audio Terminal -> AUDIO IN | <p>L/1 and R/2</p> <ul style="list-style-type: none"> • Connector: Pin jacks • Equipped with embedded functionality to each output. • Equipped with delay/level adjustment function. |
| Live Switcher -> Audio Terminal -> AUDIO OUT | <p>Connector for headphone monitor</p> <ul style="list-style-type: none"> • Connector: Ø3.5 mm TRS • Equipped with output volume adjustment function. |

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| Live Switcher -> Synchronous Terminal -> REF Terminal Reference Input/ BB Outputs | <p>In Genlock mode: Selectable from BB (black burst), Tri-level Sync, and internal synchronization</p> <ul style="list-style-type: none"> • 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. |
| Live Switcher -> Synchronous Terminal -> Video Delay Time | <p>1 line (H)</p> <p>When the frame synchronizer setting is [Off] and neither the up-converter nor the down-converter is operating</p> <p>1 frame (F)</p> <p>When the frame synchronizer setting is on and the up-converter and downconverter are operating</p> <ul style="list-style-type: none"> • 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. |
| Live Switcher -> Control Terminal -> LAN Terminal | <p>Compatible with 1000Base-T and AUTO-MDIX (For IP control)</p> <ul style="list-style-type: none"> • Connecting cable: LAN cable (Category 5e), max. 100 m (328 ft), STP (Shielded Twisted Pair) cable recommended • Connector: RJ-45 |
| Live Switcher -> Control Terminal -> TALLY GPI Terminal | <p>INPUT: 5 inputs, general-purpose, photocoupler sensing</p> <p>OUTPUT: 8 outputs, selected from R/G tally, general-purpose</p> <p>ALARM: 1 output, open collector output (negative logic)</p> <ul style="list-style-type: none"> • Connectors: D-Sub 15pin |
| Live Switcher -> Control Terminal -> USB Terminal | <ul style="list-style-type: none"> • Connector: USB2.0, Type-A, with USB bus power functionality <p>Use a USB memory to save and load configuration files and still data, and perform firmware updates.</p> |
| Live Switcher -> Audio | IN: RCA x 2, OUT: 3.5 mm TRS |
| Live Switcher -> Frame Synchronizer | All inputs |
| Live Switcher -> CC/UC/DC (Input) | i/P converter, DC/UC (1080-720P), CC |
| Live Switcher -> Keyer | 2 (PinP, Linear key, Luminance key, Chroma key*2) |
| Live Switcher -> AUX | 2 |
| Live Switcher -> Genlock | BB or Tri-level (Input/through output) |
| Live Switcher -> PTZ Link | RP Link (AW-RP60/ RP150), TSL5.0 |
| Live Switcher -> VMEM | Still x 2 |
| Live Switcher -> Shot MEM | Max. 12 presets |

Footnote Description

Planned support with a firmware update

