Panasonic CONNECT



Conveniently Compact Switcher Achieves Highquality 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 Keyers for More Attractive Video

Multiviewer With 10 Selectable Patterns

Remote Control With Software Control Panel



AV-HSW10

<u>https://latam.connect.panasonic.com</u> <u>/pa/es/productos/broadcast-y-</u> <u>proav/av-hsw10</u>

Supply	16 V Dedicated Adaptor
Live Switcher -> General -> Power Consumption	3.0 A (48 W)
Live Switcher -> General -> Operatir Temperature	ng 0°C to 40 °C (32 °F to 104 °F)
Live Switcher -> General -> Operatir Humidity	ng 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 ->	W 254 mm x H 67 mm x D 175 mm
Dimensions	(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 -> Sl	DI 4 lines
IN	• 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.
	* SDI IN 1 excludes HDMI IN1.
	[3G-SDI] 3G-SDI, SMPTE424 standard complied with (Compatible with Level-A/Level-B)
	• 0.8 V [p-p] ± 10 % (75 Ω)
	Automatic equalizer 100 m (when using a cable)
	[HD-SDI] HD-SDI, SMPTE292M standard • 0.8 V [p-p] ± 10 % (75 Ω)
	• Automatic equalizer 100 m (when using a cable)
Live Switcher -> Video Terminal ->	2 lines, HDMI 1.4b compatible
HDMI IN	Video format inputs:
	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
	PC format inputs:
	WSXGA+ (1680 x 1050, 60 Hz), SXGA (1280 x 1024, 60 Hz), WXGA (1280 x 768, 60 Hz), X (1024 x 768, 60 Hz)
	Mode: Full/Fit-H/Fit-V
	• 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.
Live Switcher -> Video Terminal -> Sl	* HDMI IN 1 excludes SDI IN 1.
	• Connectors' BNC x 2
OUT	 Connectors: BNC x 2 PGM, PVW, CLN, MV, AUX1/2, and Key Out can be assigned.
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OUT Live Switcher -> Video Terminal -> HDMI OUT Live Switcher -> Video Terminal ->	 PGM, PVW, CLN, MV, AUX1/2, and Key Out can be assigned. [3G-SDI] 3G-SDI, SMPTE424M standard complied with (Compatible with Level-A) 0.8 V [p-p] ± 10 % (75 Ω) [HD-SDI] HD-SDI, SMPTE292M standard 0.8 V [p-p] ± 10 % (75 Ω) 1 line, HDMI 1.4b compatible Connector: HDMI x 1 Equipped with scaler function. Mode: Fit-V, Fit-H Full, Full-90%, Full-80% PGM, PVW, CLN, MV, AUX1/2, and Key Out can be assigned. Compatible with 1000Base-T and AUTO-MDIX (for IP signal transmission/control) Connecting cable: LAN cable (Category 5e or more), max. 100 m (328 ft), STP (Shielded Twisted Pair) cable recommended Connector: RJ-45 IP input signal: Assigned to IN 6 to 9. IN 6, IN 7: Selectable from SRT/NDI HX (version1/version2). IN 8, IN 9: Dedicated to High Bandwidth NDI input. Supports NDI α channel input. Used as a pair with IN 9 in this case. IN6 to 9: High Bandwidth NDI x4 can be selected by changing to firmware that suppor NDI HB mode. *For H.264, the AV-HSW10 supports input up to Level 4.2. For H.265, the AV-HSW10 supports input up to Level 5.1 (Main tier) and Level 4.1 (High tier). IP output signal: Assigned to OUT 4 and OUT 5. 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
OUT Live Switcher -> Video Terminal -> HDMI OUT Live Switcher -> Video Terminal ->	 PGM, PVW, CLN, MV, AUX1/2, and Key Out can be assigned. [3G-SDI] 3G-SDI, SMPTE424M standard complied with (Compatible with Level-A) 0.8 V [p-p] ± 10 % (75 Ω) [HD-SDI] HD-SDI, SMPTE292M standard 0.8 V [p-p] ± 10 % (75 Ω) 1 line, HDMI 1.4b compatible Connector: HDMI x 1 Equipped with scaler function. Mode: Fit-V, Fit-H Full, Full-90%, Full-80% PGM, PVW, CLN, MV, AUX1/2, and Key Out can be assigned. Compatible with 1000Base-T and AUTO-MDIX (for IP signal transmission/control) Connecting cable: LAN cable (Category 5e or more), max. 100 m (328 ft), STP (Shielded Twisted Pair) cable recommended Connector: RJ-45 IP input signal: Assigned to IN 6 to 9. IN 6, IN 7: Selectable from SRT/NDI HX (version1/version2). IN 8, IN 9: Dedicated to High Bandwidth NDI input. Supports NDI α channel input. Used as a pair with IN 9 in this case. IN6 to 9: High Bandwidth NDI x4 can be selected by changing to firmware that suppon NDI HB mode. *For H.264, the AV-HSW10 supports input up to Level 4.2. For H.265, the AV-HSW10 supports input up to Level 5.1 (Main tier) and Level 4.1 (High tier). IP output signal: Assigned to OUT 4 and OUT 5. 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
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OUT Live Switcher -> Video Terminal -> HDMI OUT Live Switcher -> Video Terminal ->	 PGM, PVW, CLN, MV, AUX1/2, and Key Out can be assigned. [3G-SDI] 3G-SDI, SMPTE424M standard complied with (Compatible with Level-A) 0.8 V [p-p] ± 10% (75 Ω) [HD-SDI] HD-SDI, SMPTE292M standard 0.8 V [p-p] ± 10% (75 Ω) 1 line, HDMI 1.4b compatible Connector: HDMI x 1 Equipped with scaler function. Mode: Fit-V, Fit-H Full, Full-90%, Full-80% PGM, PVW, CLN, MV, AUX1/2, and Key Out can be assigned. Compatible with 1000Base-T and AUTO-MDIX (for IP signal transmission/control) Connecting cable: LAN cable (Category 5e or more), max. 100 m (328 ft), STP (Shielded Twisted Pair) cable recommended Connector: R]-45 IP input signal: Assigned to IN 6 to 9. IN 6, IN 7: Selectable from SRT/NDI HX (version1/version2). IN 8, IN 9: Dedicated to High Bandwidth NDI input. Supports NDI α channel input. Used as a pair with IN 9 in this case. IN6 to 9: High Bandwidth NDI x4 can be selected by changing to firmware that suppor NDI HB mode. *For H.264, the AV-HSW10 supports input up to Level 4.2. For H.265, the AV-HSW10 supports input up to Level 5.1 (Main tier) and Level 4.1 (High tier). IP output signal: Assigned to OUT 4 and OUT 5. 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>i</i>/p conversion function. *1 IN6 to IN9: When using firmware in NDI HB mode, only the High Bandwidth NDI of Out is enabled.

Live Switcher -> Video Terminal -> US	
	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
Live Switcher -> Video Terminal ->	3G-SDI
Signal Formats	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
Live Switcher -> Video Terminal -> Signal Processing	[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
Live Switcher -> Audio Terminal ->	L/1 and R/2
AUDIO IN	Connector: Pin jacks
AUDIO IN	• Equipped with embedded functionality to each output.
	• Equipped with delay/level adjustment function.
Live Switcher -> Audio Terminal ->	Connector for headphone monitor
AUDIO OUT	Connector: 03.5 mm TRS
	• Equipped with output volume adjustment function.
Live Switcher -> Synchronous	In Genlock mode: Selectable from BB (black burst), Tri-level Sync, and internal
Terminal -> REF Terminal Reference	synchronization
Input/ BB Outputs	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	1 line (H)
Terminal -> Video Delay Time	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.
Live Switcher -> Control Terminal -> LAN Terminal	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 INPUT: 5 inputs general purpose photosoupler sopsing
Live Switcher -> Control Terminal -> TALLY GPI Terminal	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
Live Switcher -> Control Terminal ->	Connector: USB2.0, Type-A, with USB bus power functionality
USB Terminal	Use a USB memory to save and load configuration files and still data, and perform firmwar
	updates.
Live Switcher -> Audio	IN: RCA x 2, OUT: 3.5 mm TRS
Live Switcher -> Frame Synchronizer	
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 (PinP, Linear key, Luminance key, Chroma key"2) 2
Live Switcher -> Genlock	BB or Tri-level (Input/through output)
Live Switcher -> PTZ Link	RP Link (AW-RP60/ RP150), TSL5.0 Still x 2
Live Curitebox > \/Afric	
Live Switcher -> VMEM Live Switcher -> Shot MEM	Max. 12 presets