Panasonic CONNECT



4K/12G-SDI compatible, compact Live Switcher.

AV-UHS500

The 4K Live Switcher is easy to use in a variety of applications, such as event staging, broadcast at stations and OB vans, lectures at universities, conference halls and so on, demonstrating incredible performance in live video production on the field.

Key Features

Versatile 12G-SDI/3G-SDI/HDMI interface support

UHD/HD multi-format support Expanded functions with two optional unit slots

Standard number of inputs/outputs: 8 inputs / 7 outputs

Maximum number of inputs/outputs (with optional boards): Maximum 16 inputs/Maximum 15 outputs

Five keyers for excellent image effects







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AV-UHS500

https://latam.connect.panasonic.com/pa/en/av-uhs500

Live Switcher -> General -> Power	AC 100 V to 240 V, 50 Hz/60 Hz
Supply	AC 100 V to 240 V, 30 H2700 H2
ive Switcher -> General -> Power	1.5 A
Consumption Live Switcher -> General -> Operatin	n 0°C to 40 °C (32 °E to 104 °E)
Temperature	3 0 Cto 40 Cto 2 1 to 104 1)
Live Switcher -> General -> Operatin Humidity	g 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. 7 kg (Approx.15.4 lb)
Live Switcher -> General ->	W 440 mm x H 170 mm x D 360 mm
Dimensions Live Switcher -> General -> ME	(17-5/16 inches x 6-11/16 inches x 14-3/16 inches)
	(excluding protrusions) 1ME
Number	TWL
	I 8 lines (plus another maximum of 8 lines when using the
IN	OPTION unit)
	Connectors: BNC x 8 Color space conversion function
	Frame synchronizer function
	Connectors to equipped with simple format converters.
	• Connectors to equipped with up-converters.
	Connectors to equipped with color correctors.
	* SDI IN 1/2 excludes HDMI IN 1/2.
	[12G-SDI] SMPTE ST 2082-10 standard complied with [3G-SDI] 3G-SDI, SMPTE292 standard complied with (Compatible with Level-A/Level-B)
	[HD-SDI] HD-SDI, SMPTE292 Standard compiled with (compatible with Level-A/Level-B)
Live Switcher -> Video Terminal -> HDMI IN	2 lines (plus another maximum of 6 lines when using the OPTION unit)
	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 Hz, 2160p/59.94 Hz, 2160p/50 Hz, 2160p/29.97 Hz, 2160p/25 Hz, 2160p/24 Hz, 2160p/23.98 Hz
	PC format inputs:
	4K (3840 x 2160, 60 Hz), WQHD (2560 x 1440, 60 Hz), WUXGA (1920 x 1200, 60 Hz), UXG
	(1600 x 1200, 60 Hz), WSXGA+ (1680 x 1050, 60 Hz), SXGA (1280 x 1024, 60 Hz), WXGA
	(1280 x 768, 60 Hz), XGA (1024 x 768, 60 Hz)
	Mode: Full/Fit-H/Fit-V
	 Scaler, Frame synchronizer and Color space conversion function Connectors: HDMI x 2
	• This connector does not support the CPRM technologies.
	* HDMI IN 1/2 excludes SDI IN 1/2.
Live Switcher -> Video Terminal -> SD	I 5 lines (plus another maximum of 8 lines when using the OPTION unit)
OUT	Connectors: BNC x 5 Pown converter to 1990n. Color space conversion function.
	 Down-converter to 1080p, Color space conversion function PGM, PVW, CLN, ME PGM, MV1 to MV2, AUX1 to AUX4, Key Out can be assigned.
	[12G-SDI] SMPTE ST 2082-10 standard complied with
	[3G-SDI] SMPTE292 standard complied with (Compatible with Level-A)
	[HD-SDI] SMPTE292M standard complied with
Live Switcher -> Video Terminal ->	2 lines (plus another maximum of 6 lines when using the OPTION unit)
номі оит	Connectors: HDMI x 2 Not support Scaler (Only system format is available)
	Color space conversion function
	• PGM, PVW, CLN, ME PGM, MV1 to MV2, AUX1 to AUX4, Key Out can be assigned.
Live Switcher -> Video Terminal -> Signal Formats	2160/59.94p, 50p, 29.97p, 25p, 24p, 23.98p,
	1080/59.94p, 50p, 29.97p, 29.97PsF, 25p, 25PsF, 24p, 24PsF, 23.98p, 23.98PsF, 59.94i,
	50i
Live Switcher -> Video Terminal ->	720/59.94p, 50p [R: G: B] 4: 4: 4 8 bit / 4: 2: 2 10 bit (Only for HDMI)
Signal Processing	[Y: Cb: Cr] 4: 2: 2 10 bit
Live Switcher -> Synchronous	In Genlock mode: Black burst or Tri-level Sync input signals (with loop-through)
Terminal -> REF Terminal Reference	• Loop-through output is performed in external sync mode.
Input/ BB Outputs	\bullet If loop-through output is not going to be used, provide a 75 Ω termination.
	• Connectors : BNC x 2
	 Same field frequencies as those of the system formats supported. With the 24.00p format, Black Burst input signal is not supported.
	With the 24.00p format, black burst input signal is not supported. With the 1080/23.98PsF format, black burst with 10 Field ID (SMPTE318M standard met
	or Trilevel Sync signals supported.

 \bullet BB signals are output from two connectors in the internal sync mode.

Live Switcher -> Synchronous	1 line (H)
LIVE SWITCHER -> SYNCHRONOUS 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 down-converter are operating
	When the signals have passed through PinP, DVE, multi view, down-converter or HDMI IN,
Live Switcher -> Control Terminal ->	a maximum delay of 1 frame is applied in each case.
LAN Terminal	Compatible with 1000BASE-TX and AUTO-MDIX (For IP control) Connecting cable: LAN cable (CAT5e), max. 100 m (328 ft), STP (Shielded Twisted Pair) cable recommended Connectors: RI-45
Live Switcher -> Control Terminal ->	INPUT: 8 inputs general-purpose, photocoupler sensing
TALLY GPI Terminal	OUTPUT: 19 outputs; selected from R/G tally, general-purpose ALARM: 1 output, open collector output (negative logic)
Option Unit AV-UHS5M1G / AV- UHS5M2G / AV-UHS5M3G /AV- UHS5M4G / AV-UHS5M5G / AV- UHS5M6G -> General -> Power Suppi	DC 12 V Supplied by AV-UHS500
Option Unit AV-UHS5M1G / AV-	AV-UHS5M1G/AV-UHS5M2G: 15 W 1.2 A
UHS5M2G / AV-UHS5M3G /AV- UHS5M4G / AV-UHS5M5G / AV- UHS5M6G -> General -> Power Consumption	AV-UHS5M3G/AV-UHS5M4G: 16 W 1.3 A AV-UHS5M5G/AV-UHS5M6G: 14 W 1.1 A
Option Unit AV-UHS5M1G / AV- UHS5M2G / AV-UHS5M3G /AV- UHS5M4G / AV-UHS5M5G / AV- UHS5M6G -> General -> Operating Temperature	10 % to 90 % (no condensation)
Option Unit AV-UHS5M1G / AV- UHS5M2G / AV-UHS5M3G /AV- UHS5M4G / AV-UHS5M5G / AV- UHS5M6G -> General -> Operating Humidity	0 °C to 40 °C (32 °F to 104 °F)
Option Unit AV-UHS5M1G / AV- UHS5M2G / AV-UHS5M3G /AV- UHS5M4G / AV-UHS5M5G / AV- UHS5M6G -> General -> Storage Temperature	10 % to 90 % (no condensation)
Option Unit AV-UHS5M1G / AV- UHS5M2G / AV-UHS5M3G /AV- UHS5M4G / AV-UHS5M5G / AV- UHS5M6G -> General -> Storage Humidity	0 °C to 40 °C (32 °F to 104 °F)
Option Unit AV-UHS5M1G / AV-	AV-UHS5M1G/AV-UHS5M2G: Approx. 371 g (Approx. 0.82 lbs.)
UHS5M2G / AV-UHS5M3G /AV- UHS5M4G / AV-UHS5M5G / AV-	AV-UHS5M3G/AV-UHS5M4G: Approx. 353 g (Approx. 0.78 lbs.) AV-UHS5M5G: Approx. 345 g (Approx. 0.76 lbs.)
UHS5M6G -> General -> Weight Option Unit AV-UHS5M1G / AV-	AV-UHS5M6G: Approx. 353 g (Approx. 0.78 lbs.) AV-UHS5M1G/AV-UHS5M2G:
UHS5M2G / AV-UHS5M3G /AV-	W 112 mm x H 42 mm x D 167 mm
UHS5M4G / AV-UHS5M5G / AV- UHS5M6G -> General -> Dimensions	(4-13/32 inches x 1-21/32 inches x 6-9/16 inches) (excluding protrusions)
onsowed -> defici at -> Difficiations	AV-UHS5M3G/AV-UHS5M4G/AV-UHS5M5G/AV-UHS5M6G: W 112 mm x H 42 mm x D 166 mm (4-13/32 inches x 1-21/32 inches x 6-17/32 inches)
Option Unit AV-UHS5M1G / AV-	(excluding protrusions) 4 lines
UHS5M2G / AV-UHS5M3G /AV- UHS5M4G / AV-UHS5M5G / AV-	• Connectors: BNC x 4 • Frame synchronizer function
UHS5M6G -> SDI Input Unit AV- UHS5M1G -> SDI IN 1 to SDI IN 4	Up-converter fitted.Color space conversion function
Terminals	• Color corrector fitted. [12G-SDI]
	12G Serial digital, SMPTE ST 2082-10 standard complied with • 0.8 V [p-p] ± 10 % (75 Ω) • Automatic equalizer 80 m (when the cable is used)
	[3G-SDI] 3G Serial digital, SMPTE292 standard complied with (Level-A/Level-B)
	• 0.8 V [p-p] \pm 10 % (75 Ω) • Automatic equalizer 100 m (when the cable is used)
	[HD-SDI] HD Serial digital, SMPTE292M standard complied with • 0.8 V [p-p] ± 10 % (75 Ω) Automatic equalizar 100 m (when the cable is used)
Option Unit AV-UHS5M1G / AV-	Automatic equalizer 100 m (when the cable is used) Ilines
UHS5M2G / AV-UHS5M3G /AV- UHS5M4G / AV-UHS5M5G / AV- UHS5M6G -> SDI Input Unit AV- UHS5M2G -> SDI OUT 1 to SDI OUT 4 Terminals	Connectors: BNC x 4 Down-converter Color space conversion function PGM, PVW, CLN, ME PGM, MV1 to MV2, AUX1 to AUX4, Key Out can be assigned. [12G-SDI] AGE Spaid digital SMPTE ST 2082-10 standard complied with 0.8 V In-pl + 10 % (75.0).
	12G Serial digital, SMPTE ST 2082-10 standard complied with $0.8 \text{ V [p-p]} \pm 10 \% (75 \Omega)$ [3G-SDI] 3G Serial digital, SMPTE292 standard complied with (Level-A) $0.8 \text{ V [p-p]} \pm 10 \% (75 \Omega)$ [HD-SDI] HD Serial digital, SMPTE292M standard complied with $0.8 \text{ V [p-p]} \pm 10 \% (75 \Omega)$

Option Unit AV-UHS5M1G / AV-3 lines UHS5M2G / AV-UHS5M3G /AV-Video format inputs: UHS5M4G / AV-UHS5M5G / AV-720p/59.94 Hz, 720p/50 Hz, 1080i/59.94 Hz, 1080i/50 Hz, 1080p/59.94 Hz, 1080p/50 UHS5M6G -> SDI Input Unit AV-Hz, 1080p/29.97 Hz, 1080p/25 Hz, UHS5M3G -> HDMI IN 1 to HDMI IN 3 1080p/24 Hz, 1080p/23.98 Hz, 2160p/59.94 Hz, 2160p/50 Hz, 2160p/29.97 Hz, Terminals 2160p/25 Hz, 2160p/24 Hz, 2160p/23.98 Hz PC format inputs: 4K (3840 x 2160, 60 Hz), WQHD (2560 x 1440, 60 Hz), WUXGA (1920 x 1200, 60 Hz), UXGA (1600 x 1200, 60 Hz), WSXGA+ (1680 x 1050, 60 Hz), SXGA (1280 x 1024, 60 Hz), WXGA (1280 x 768, 60 Hz), XGA (1024 x 768, 60 Hz) Mode: Full/Fit-H/Fit-V Connectors: HDMI x 3 · Frame synchronizer function • Color corrector fitted. • Scaler and Color space conversion function • This connector does not support the CPRM technologies. Option Unit AV-UHS5M1G / AV-3 lines UHS5M2G / AV-UHS5M3G /AV-Mode: Fit-V, Fit-H, Full, Full-90 %, Full-80 % UHS5M4G / AV-UHS5M5G / AV-Size: Auto, WQHD (2560 x 1440, 60 Hz), WUXGA (1920 x 1200, 60 Hz), UXGA (1600 x 1200, UHS5M6G -> SDI Input Unit AV-60 Hz), WSXGA+ (1680 x 1050, 60 Hz), UHS5M4G -> HDMI OUT 1 to HDMI SXGA (1280 x 1024, 60 Hz), WXGA (1280 x 768, 60 Hz), XGA (1024 x 768, 60 Hz), Native **OUT 3 Terminals** Color: Auto, RGB, YUV444, YUV422 • Connectors: HDMI x 3 • PGM, PVW, CLN, ME PGM, MV1 to MV2, AUX1 to AUX4, Key Out can be assigned. • Scaler and Color space conversion function Option Unit AV-UHS5M1G / AV-Supported formats UHS5M2G / AV-UHS5M3G /AV-NDI® High Bandwidth/NDI® HX *1 UHS5M4G / AV-UHS5M5G / AV-Input UHS5M6G -> SDI Input Unit AV-Maximum 4 lines UHS5M5G -> LAN 1 and LAN 2 Possible input formats Terminals • When system format is 4K NDI® High Bandwidth: 2160/59.94p, 2160/50p, 2160/29.97p, 2160/25p, 2160/24p, • When system format is 2K *1 *2 *3 *4 NDI® High Bandwidth: 1080/59.94p, 1080/50p, 1080/29.97p, 1080/25p, 1080/24p, 1080/23.98p, 720/59.94p, 720/50p NDI | HX: 1920/1080p, 1280/720p*5 Output Maximum 2 lines Possible output formats · When system format is 4K NDI® High Bandwidth: 2160/59.94p, 2160/50p, 2160/29.97p, 2160/25p, 2160/24p, 2160/23.98p \bullet When system format is 2K *1 *4 NDI® High Bandwidth: 1080/59.94p, 1080/50p, 1080/29.97p, 1080/25p, 1080/24p, 1080/23.98p, 720/59.94p, 720/50p • PGM, PVW, CLN, ME PGM, AUX1 to 4, MV1 and 2, and Key Out can be allocated to the output. Footnote Description 1. Support for NDI®HX is input only. Only NDI® High Bandwidth is supported for output. 2. When the system format is 2K, mixed input of NDI® High Bandwidth and NDI® | HX is possible. 3. P/I conversion is possible for input when the system format is 2K.

- 4. Not available when the system format is Psf. $\,$
- 5. The frame rate for NDI® | HX depends on the system format.