

Specifications

As of February, 2020

Live Switcher AV-UHS500

General

Power Supply	AC 100 V to 240 V, 50 Hz/60 Hz
Current Consumption	1.5 A
Ambient Operating Temperature	0°C to 40°C (32°F to 104°F)
Ambient Operating Humidity	10% to 90% (no condensation)
Storage Temperature	0°C to 40°C (32°F to 104°F)
Storage Humidity	10% to 90% (no condensation)
Weight	Approx. 7 kg (Approx.15.4 lb)
Dimensions (W x H x D)	440 mm x 170 mm x 360 mm (17-5/16 inches x 6-11/16 inches x 14-3/16 inches) (excluding protrusions)

Video Terminal

SDI IN 1 to SDI IN 8 Terminals	8 lines (plus another maximum of 8 lines when using the OPTION unit) <ul style="list-style-type: none"> Connectors: BNC x 8 Color space conversion function Frame synchronizer function Connectors <SDI IN 1> to <SDI IN 4> equipped with simple format converters. Connectors <SDI IN 5> to <SDI IN 8> equipped with up-converters. Connectors <SDI IN 5> to <SDI IN 8> equipped with color correctors. * SDI IN 1/2 excludes HDMI IN 1/2.
	12G-SDI 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, SMPTE292M standard complied with
HDMI IN 1 to HDMI IN 2 Terminals	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/25 Hz, 1080p/24 Hz, 1080p/23.98 Hz, 2160p/59.94 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), UXGA (1680 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 <ul style="list-style-type: none"> 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.
SDI OUT 1 to SDI OUT 5 Terminals	5 lines (plus another maximum of 8 lines when using the OPTION unit) <ul style="list-style-type: none"> Connectors: BNC x 5 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 12G-SDI, SMPTE ST 2082-10 standard complied with
	3G-SDI 3G-SDI, SMPTE292 standard complied with (Compatible with Level-A)
	HD-SDI HD-SDI, SMPTE292M standard complied with
HDMI OUT 1 to HDMI OUT 2 Terminals	2 lines (plus another maximum of 6 lines when using the OPTION unit) <ul style="list-style-type: none"> 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.
Signal Formats	2160/59.94p, 50p, 29.97p*, 25p*, 24p*, 23.98p*, 1080/59.94p, 50p, 29.97p*, 25p*, 24p*, 23.98p*, 59.94i, 50i, 720/59.94p, 50p
Signal Processing	R: G: B 4: 4: 4 8 bit / 4: 2: 2 10 bit (Only for HDMI) Y: Cb: Cr 4: 2: 2 10 bit
ME Number	1ME

Synchronous Terminal

REF Terminal Reference Input/BB Outputs	In Genlock mode: Black burst or Tri-level Sync input signals (with loop-through) <ul style="list-style-type: none"> Loop-through output is performed in external sync mode. 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 1080/23.98PsF format, black burst with 10 Field ID (SMPTE318M standard met) or Trilevel Sync signals supported. BB signals are output from two connectors in the internal sync mode.
Video Delay Time	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 <ul style="list-style-type: none"> When the signals have passed through PinP, DVE, multi view, down-converter or HDMI IN, a maximum delay of 1 frame is applied in each case.

Control Terminal

LAN Terminal	Compatible with 1000BASE-TX and AUTO-MDIX (For IP control) <ul style="list-style-type: none"> Connecting cable: LAN cable (CAT5E), max. 100 m (328 ft), STP (Shielded Twisted Pair) cable recommended Connectors : RJ-45
TALLY GPI Terminal	INPUT: 8 inputs general-purpose, photocoupler sensing OUTPUT: 19 outputs; selected from R/G tally, general-purpose ALARM: 1 output, open collector output (negative logic)

OPTION Unit

General

	AV-UHS5M1G	AV-UHS5M2G	AV-UHS5M3G	AV-UHS5M4G	AV-UHS5M5G
Power Supply	DC 12 V Supplied by AV-UHS500				
Power Consumption	15 W 1.2 A	16 W 1.3 A		14 W 1.1 A	
Ambient Operating Temperature	0°C to 40°C (32°F to 104°F)				
Ambient Operating Humidity	10% to 90% (no condensation)				
Storage Temperature	0°C to 40°C (32°F to 104°F)				
Storage Humidity	10% to 90% (no condensation)				
Weight	Approx. 371 g (Approx. 0.82 lbs.)	Approx. 353 g (Approx. 0.78 lbs.)		Approx. 354 g (Approx. 0.78 lbs.)	
Dimensions (W x H x D)	112 mm x 42 mm x 167 mm (4-13/32 inches x 1-21/32 inches x 6-9/16 inches) (excluding protrusions)	112 mm x 42 mm x 166 mm (4-13/32 inches x 1-21/32 inches x 6-17/32 inches) (excluding protrusions)			

SDI Input Unit AV-UHS5M1G

SDI IN 1 to SDI IN 4 Terminals	4 lines <ul style="list-style-type: none"> Connectors: BNC x 4 Frame synchronizer function Up-converter fitted. Color space conversion function Color corrector fitted.
12G-SDI	12G Serial digital, SMPTE ST 2082-10 standard complied with <ul style="list-style-type: none"> 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) <ul style="list-style-type: none"> 0.8 V [p-p] ± 10% (75 Ω) Automatic equalizer 100 m (when the cable is used)
HD-SDI	HD Serial digital, SMPTE292M standard complied with <ul style="list-style-type: none"> 0.8 V [p-p] ± 10% (75 Ω) Automatic equalizer 100 m (when the cable is used)

SDI Output Unit AV-UHS5M2G

SDI OUT 1 to SDI OUT 4 Terminals	4 lines <ul style="list-style-type: none"> 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	12G Serial digital, SMPTE ST 2082-10 standard complied with 0.8 V [p-p] ± 10% (75 Ω)
3G-SDI	3G Serial digital, SMPTE292 standard complied with (Level-A) 0.8 V [p-p] ± 10% (75 Ω)
HD-SDI	HD Serial digital, SMPTE292M standard complied with 0.8 V [p-p] ± 10% (75 Ω)

HDMI Input Unit AV-UHS5M3G

HDMI IN 1 to HDMI IN 3 Terminals	3 lines 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/25 Hz, 1080p/24 Hz, 1080p/23.98 Hz, 2160p/59.94 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), UXGA (1680 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 <ul style="list-style-type: none"> Connectors: HDMI x 3 Frame synchronizer function Color corrector fitted. Scaler and Color space conversion function This connector does not support the CPRM technologies.
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HDMI Output Unit AV-UHS5M4G

HDMI OUT 1 to HDMI OUT 3 Terminals	3 lines Mode: Fit-V, Fit-H, Full, Full-90%, Full-80% Size: Auto, WQHD (2560 x 1440, 60 Hz), WUXGA (1920 x 1200, 60 Hz), UXGA (1680 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), Native Color: Auto, RGB, YUV444, YUV422 <ul style="list-style-type: none"> 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
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*1: Support is planned with a firmware update in spring 2020.