

Live Switcher – Specifications

AW-HS50 [AW-HS50N/E]

General	
Power Requirements	DC 12 V $\pm 10\%$ (AC adapter provided)
Current Consumption	2.0 A (DC 12 V)
Ambient Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
Humidity	10 % to 90 % (no condensation)
Dimensions (W x H x D)	210 x 67 x 177 mm (8-1/4" x 2-5/8" x 6-15/16") [excluding protrusions]
Mass	1.4 kg (3.08 lbs.)
Video Terminal	
Inputs	5 video lines SDI 4 signal lines: SDI IN 1 to SDI IN 4 DVI-D 1 signal line: DVI IN
Outputs	3 video lines, 4 outputs SDI 2 signal lines: SDI OUT 1, SDI OUT 2 (Only the SDI OUT 1 signals are split into two) DVI-D 1 signal line: DVI OUT
Signal Formats	SD 480/59.94i, 576/50i HD 1080/59.94i, 1080/50i, 720/59.94p, 720/50p, 1080/24PsF, 1080/23.98PsF
Signal Processing	Y:Cb:Cr 4:2:2, 10 bit (8 bits for frame memory) RGB 4:4:4, 8 bit
ME Number	1ME
SDI Inputs	HD: Serial digital component (SMPT 292M) SD: Serial digital component (SMPT 259M) 4 signal lines: SDI IN 1 to SDI IN 4 HD: SMPTE 292M (BTA S-004B) standard complied with • 0.8 V [p-p] $\pm 10\%$ (75 Ω) • Input return loss More than 15 dB (5 MHz to 1.5 GHz) • Automatic equalizer 100 m (328 ft.) (when 5C-FB cable is used)
	SD: SMPTE 259M standard complied with • 0.8 V [p-p] $\pm 10\%$ (75 Ω) • Input return loss More than 15 dB (5 MHz to 270 MHz) • Automatic equalizer 200 m (656 ft.) (when 5C-2V cable is used)
DVI-D Input	Digital RGB (Vertical frequency: 60 Hz): XGA (1024 x 768), WXGA (1280 x 768), SXGA (1280 x 1024), WSXGA+ (1680 x 1050), UXGA (1600 x 1200), WUXGA (1920 x 1200) Digital RGB: 1080/50p, 1080/59.94p • Analog input signals are not supported.
SDI Outputs	HD: Serial digital component (SMPT 292M) SD: Serial digital component (SMPT 259M) 2 signal lines: SDI OUT 1, SDI OUT 2 (Only the SDI OUT 1 signals are split into two)

SDI Outputs	HD: SMPTE 292M (BTA S-004B) standard complied with • Output return loss More than 15 dB (5 MHz to 1.5 GHz) • Output level 0.8 V [p-p] $\pm 10\%$ (75 Ω) • Rise time Less than 270 ps • Fall time Less than 270 ps • Difference between rise time and fall time Less than 100 ps • Alignment jitter Less than 0.2 UI (130 ps) • Timing jitter Less than 1.0 UI • Eye aperture ratio More than 90 % • DC offset 0 \pm 0.5 V
	SD: SMPTE 259M standard complied with • Output return loss More than 15 dB (5 MHz to 270 MHz) • Output level 0.8 V [p-p] $\pm 10\%$ (75 Ω) • Rise time Less than 1.5 ns • Fall time Less than 1.5 ns • Difference between rise time and fall time Less than 0.5 ns • Jitter Less than 2.0 UI
DVI-D Output	Digital RGB (Vertical frequency: 60 Hz): XGA (1024 x 768), WXGA (1280 x 768), SXGA (1280 x 1024), WSXGA+ (1680 x 1050), UXGA (1600 x 1200), WUXGA (1920 x 1200) Digital RGB: 1080/50p, 1080/59.94p • High-resolution multi view mode supported: Signals are also output with a high resolution even when SD has been selected as the system mode. <div style="border: 1px solid black; padding: 2px;">When the high-resolution multi view mode is enabled, MV is assigned to the DVI OUT connector, and MV cannot be assigned to the SDI OUT 1 connectors or SDI OUT 2 connector.</div> • Analog output signals are not supported.
Synchronous Terminal	
Video Delay Time	1 frame (F) • Video signals that have passed through the PinP, multi view display, DVI-D input or DVI-D output will be delayed in each case by up to one frame.
Control Terminal	
LAN	RJ-45 x 1 10BASE-T/100BASE-TX (For IP control) Connecting cable: LAN cable (category 5 or above), max. 100 m [328 ft.], STP (Shielded Twisted Pair) cable recommended • When connecting to a hub (switching hub), use a straight cable. Use a crossover cable when connecting the unit and another device on a 1:1 basis without going through a hub.
TALLY/GPI	D-sub 15-pin, female, inch thread INPUT: 5 inputs, photocoupler sensing OUTPUT: 7 outputs, open collector output (negative logic)
Other	
Other	SERVICE switch [SV/NM] (for maintenance purposes) Normally, this switch is used as the "NM" position.
Accessories	
Operating Instructions <Basics> (this manual), CD-ROM (Operating Instructions <Basics>, Operating Instructions <Operations and Settings>, Data Transmission Software), AC adapter, Power cable (2 m [6.6 ft.])	

AW-HS50 Block Diagram

