



## Live Switcher

# AW-HS50

HD/SD live switcher with Built-in MultiViewer

### Key Features

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5 inputs and 3 outputs

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Audio Level Meter Display Function

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MultiViewer display functionality comes installed as standard

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## AW-HS50

<https://eu.connect.panasonic.com/tr/en/products/broadcast-proav/aw-hs50>

### General

<b>Power Requirements</b>	DC 12 V $\pm$ 10 % (AC adapter provided)
<b>Current Consumption</b>	2.0 A (DC 12 V)
<b>Ambient Operating Temperature</b>	0 °C to 40 °C (32 °F to 104 °F)
<b>Humidity</b>	10 % to 90 % (no condensation)
<b>Dimensions (W x H x D)</b>	210 x 67 x 177 mm (8-1/4" x 2-5/8" x 6-15/16")

[excluding protrusions]

<b>Mass</b>	1.4 kg (3.08 lbs.)
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### 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

1 ME

### SDI Inputs

HD: Serial digital component (SMPTE 292M)  
SD: Serial digital component (SMPTE 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  $\Omega$ )
- 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  $\Omega$ )
- 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.

<b>SDI Outputs</b>	<p>HD: Serial digital component (SMPTE 292M)</p> <p>SD: Serial digital component (SMPTE 259M)</p>
	<p>2 signal lines: SDI OUT 1, SDI OUT 2</p> <p>(Only the SDI OUT 1 signals are split into two)</p>
	<p>HD: SMPTE 292M (BTA S-004B) standard complied with</p> <ul style="list-style-type: none"> <li>• Output return loss: More than 15 dB (5 MHz to 1.5 GHz)</li> <li>• Output level: 0.8 V [p-p] ±10 % (75 Ω)</li> <li>• Rise time: Less than 270 ps</li> <li>• Fall time: Less than 270 ps</li> <li>• Difference between rise time and fall time: Less than 100 ps</li> <li>• Alignment jitter: Less than 0.2 UI (130 ps)</li> <li>• Timing jitter: Less than 1.0 UI</li> <li>• Eye aperture ratio: More than 90 %</li> <li>• DC offset: 0±0.5 V</li> </ul>
	<p>SD: SMPTE 259M standard complied with</p> <ul style="list-style-type: none"> <li>• Output return loss: More than 15 dB (5 MHz to 270 MHz)</li> <li>• Output level: 0.8 V [p-p] ±10 % (75 Ω)</li> <li>• Rise time: Less than 1.5 ns</li> <li>• Fall time: Less than 1.5 ns</li> <li>• Difference between rise time and fall time: Less than 0.5 ns</li> <li>• Jitter: Less than 0.2 UI</li> </ul>
<b>DVI-D Output</b>	<p>Digital RGB (Vertical frequency: 60 Hz):</p> <p>XGA (1024 x 768), WXGA (1280 x 768), SXGA (1280 x 1024), WSXGA+ (1680 x 1050), UXGA (1600 x 1200), WUXGA (1920 x 1200)</p> <p>Digital RGB: 1080/50p, 1080/59.94p</p> <ul style="list-style-type: none"> <li>• High-resolution multi view mode supported: Signals are also output with a high resolution even when SD has been selected as the system mode.</li> </ul> <p>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.</p> <ul style="list-style-type: none"> <li>• Analog output signals are not supported.</li> </ul>
<b>Synchronous Terminal</b>	
<b>Video Delay Time</b>	<p>1 frame (F)</p> <ul style="list-style-type: none"> <li>• 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.</li> </ul>
<b>Control Terminal</b>	
<b>LAN</b>	<p>RJ-45 x 1 10BASE-T/100BASE-TX (For IP control)</p> <p>Connecting cable: LAN cable (category 5 or above), max. 100 m [328 ft.], STP (Shielded Twisted Pair) cable recommended</p> <ul style="list-style-type: none"> <li>• When connecting to a hub (switching hub), use a straight cable.</li> </ul> <p>Use a crossover cable when connecting the unit and another device on a 1:1 basis without going through a hub.</p>
<b>Tally/GPI</b>	<p>D-sub 15-pin, female, inch thread</p> <p>INPUT: 5 inputs, photocoupler sensing</p> <p>OUTPUT: 7 outputs, open collector output (negative logic)</p>
<b>Other</b>	<p>SERVICE switch [SV/NM] (for maintenance purposes)</p> <p>Normally, this switch is used as the "NM" position.</p>
<b>Accessories</b>	<p>Operating Instructions (this manual), CD-ROM (Operating Instructions , Operating Instructions , Data Transmission Software), AC adapter, Power cable (2 m [6.6 ft.])</p>