

# The Compact New 50 Production Quality Viewers with IP Network Control



HD Integrated Camera  
**AW-HE50S**



Compact Live Switcher  
**AW-HS50**

3.1k (50 IRE, F1.6, ±36 dB)	54 dB Typ.
Auto. 0 dB, 3 dB, 6 dB, 9 dB, 12 dB, 15 dB, 18 dB	0 dB, 6 dB, 12 dB, 18 dB
Step 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000	S/micro-scan 60.24 Hz to 646.21 Hz
Off, Normal (Low, Mid, High), Cinema	AWB A, AWB B, ATW
7 levels variability	Full/Auto, Manual1, Manual2, Manual3
FULL BAR	
HD: 1080/59.94, 720/59.94p, SD: 480/59.94i	HD/SD
HD/SD-SDI	HD/SD analog component*
Composite*	Composite*
10BASE-T/100BASE-TX, IPv4 RJ45 x 1	
AW-series protocol, plus selected third-party support*	
Internal/External synchronization (BBS)	Internal synchronization
Part: ±175°, Tilt: ±90°, to -30°	
Max. 90°/sec. or more	
NC35 (at normal speed), NC40 (at fastest speed when preset)	
DC12 V ±10% (AC adapter provided), 1.3 A	DC12 V ±10% (AC adapter provided), 1.2 A
0°C to +40°C (32°F to 104°F)	
20% to 90% (no condensation)	
160 mm x 178 mm x 166 mm (6-5/16" x 7" x 6-9/16") (excluding protrusions, cable cover, direct ceiling mount bracket)	
Approx. 1.4 kg (3.1 lbs.)	
Mounting Bracket (for table or ceiling), Mounting Screws, AC Adaptor, Power Cable, Cable Cover	
*Multi-interface Cable (AW-CA2016) is required	

1080/50i, 1080/23.98Psf, 1080/24Psf, 720/50p, 720/50i, 376/50i)	Wipe Pattern	Wipe x 13
0 bit (8 bit for FMEM)	Transition Type	Cut, Mix, Wipe (including DVE)
	Selectable Materials	Black, White, CBGD, FMEM1, FMEM2
	Number of Keys	1
	Key Type	Linear key, Luminance key, Chroma key
	Transition Type	Mix
	Number of PinP	1
	Transition Type	Mix
	BUS Transition	Yes (Mix)
	Number of AUX BUS	1
	Selectable Materials	SD-IN1 to 4, DVI-IN, CBAR, CBGD, BLACK, FMEM1, FMEM2, PGM, P.VW, K. OUT, CLN, MV
	BUS Transition	Yes (Mix)
	Frame Synchronizer	SD-IN1 to 4, DVI-IN (DVI-IN is always-on)
	Freeze	SD-IN1 to 4, DVI-IN
	Dot by Dot	SD-IN1 to 4
	Video Processing	SD-IN1 to 4
	Up-converter	SD-IN3, IN4
	MultiViewer	Single Screen Display Labels, Tally indication, Split-screen (the screen may be split into 4, 5a/5b, 6a/6b, 9 and 10a/10b sections) MV frames, Labels, Tally indications, camera setting information, and Audio Level Meters are not shown on SD-OUT1.
	Output Function	OSD
	Frame Memory	SDI-OUT2, DVI-OUT (unshown on SDI-OUT1) 2 channels
	Memory Function	The image data in the Frame Memory is stored even when the power is off. ● Video processing for the Frame Memory is 8-bit OSD, Frames, Labels, Tally indications, camera setting information, and Audio Level Meters for MultiViewer are not stored in the Frame Memory. PinP Preset ● Effect Dissolve Function
	ASE-TX (for IP control)	RJ45 x 1
	channels	D-sub 15 pin (female) x 1
	AC adapter provided)	2.0 A
	(2" F to 104" F)	
	(condensation)	
	x 177 mm (8-1/4" x 2-5/8" x 6-15/16") (excluding protrusions)	
	er Cable	1.1 lbs.) (without options)
	the included AC adaptor and power cable	

change without notice.  
Image, ●Composite images, photographs, and illustrations are included for reference use only.



# Integrated Full-HD Cameras with Production Quality HD/SD Video

Wireless Remote Control (option)

**AW-RM50**

(Size "AA" dry battery x 2, obtained separately)



Multi-interface Cable (option)

**AW-CA20T6**



Direct ceiling mount bracket (option)

**WV-Q105**

178 mm (7")



**Panasonic**  
AW-HE50

POWER STANDBY

160 mm (6-5/16")

AW-HE50H

HD Integrated Camera

**AW-HE50S**

[SDI Model] [indoor use only]

**NEW**

HD Integrated Camera

**AW-HE50H**

[HDMI Model] [indoor use only]

**NEW**

● 1/3-inch Full-HD MOS Sensor with Optical 18x Zoom Lens

● Innovative Features Deliver Realistic, Production Quality HD Video

## Dynamic Range Stretch (DRS)

The gamma curve and knee slope are optimized to match the contrast of each pixel in real time. This increases the dynamic range without affecting the normal pixels.



**DRS OFF:** With the iris expanded, this blown highlight appears on the blackboard



**DRS OFF:** With the iris contracted, a blocked shadow appears on the figure



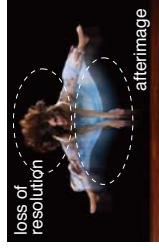
**DRS ON:** Both highlights and shadows are clearly visible

## New Hybrid Digital Noise Reduction (Hybrid DNR)

The innovative New Hybrid (2D/3D) Digital Noise Reduction function also suppresses afterimages, even in difficult lighting conditions.



**Without Noise Reduction**  
Some noise is evident when gain control is turned up



**3D Noise Reduction Alone**  
Afterimage and some loss of resolution is seen



**New Hybrid Digital Noise Reduction**  
Clearer images in difficult conditions

## Flesh Tone Mode

Flesh Tone Mode produces a more pleasing and realistic picture.



● In addition to the AW-RP50, conventional camera controllers are connectable

● A maximum of five units can be operated by serial control from one of Panasonic's currently available controllers (AW-RP655 and AW-RP555).

● Camera pan-tilt-compass

● The neutral cable cover shooting w



Halls / Theatre

● Setting with a

● Camera me by connect

■ Configur



# Controller Features



Controller

**NEW**

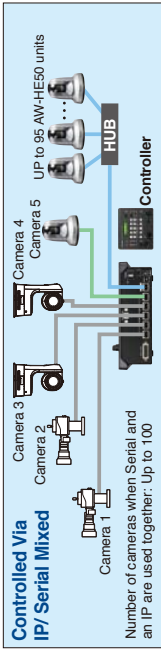
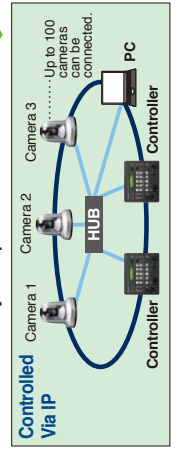
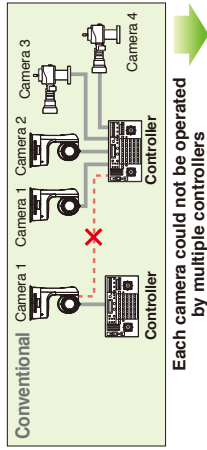
## Connect and operate, and Serial control functions

HE50S/H units can be controlled via IP using network hub (switching hub).  
 natically assigned to the AW-HE50S/H or atic IP Address Setup function.  
 n be controlled simultaneously by up to an IP connection.  
 ne AW-RP50 can be configured with a PC. (supplied)

inds on network conditions.  
 mitted via IP.  
 with using the public network.

## also Supported

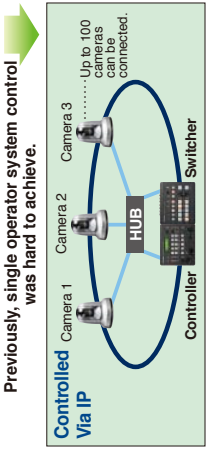
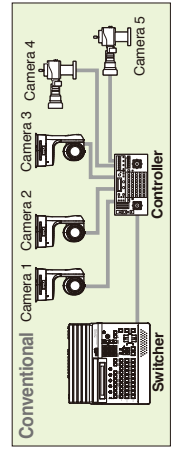
nic pan-tilt heads\*, integrated cameras\*\* and box cameras\*\*\* such as the AW-HE50S/H, etc. serial control (RS-422 protocol).  
 \*\* Compatible model: AW-HE100  
 \*\*\* Compatible model: AW-HE100  
 \*1800, AK-HC1500, AW-HE870, AW-E860, AW-E750, AW-E655, AW-E650, AW-E350



## HS50 to IP control enables and stress-free operations

Information (such as iris and gain) acquired through the AUX output of the switcher MultiViewer.  
 ily information of the switcher and lights nel.  
 nged by linking them to the camera targets : AUX, PVW, PinP, KEY-F)  
 er screen can be changed to the camera one-touch button operation.  
 X only)

PinP position of the switcher can be t level.



ns

LAN	10BASE-T/100BASE-TX (for IP control)	RJ45 x 1
TO PAN/TILT HEAD	RS-422 (for Serial control)	RJ45 x 5
Interface	TALLY INPUT	x 5 channels
	GPI INPUT	x 4 channels
TALLY/GPI	GPI OUTPUT	x 4 channels (female) x 1
Operating Temperature	0 °C to +40 °C (32 °F to 104 °F)	



177 mm (6-15/16 ")

210 mm (8-1/4 ")

67 mm (2-5/8 ")

TALLY / GPI

TO PAN / TILT HEAD

SIGNAL GND

LOW HI PTZ/FOCUS SPEED

FOCUS/PUSH OTAF

CAMERA STATUS / SELECTION

PRESET MEMORY / MENU

SCENE/MODE CAMERA SETUP

DETAIL

STORE DELETE

PAGE

MENU

GAIN/PED

R/B GAIN

R/B ABB

SHUTTER

SYSTEM

AUTO

TELE

ZOOM

WIDE

IRIS AUTO

POWER ALARM

GAIN PED : Auto ±0

- F1

- F2

# HD/SD LIVE SWITCHER with Built-in MultiViewer

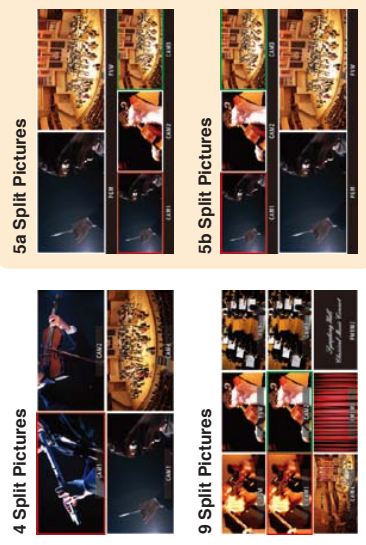
## Compact Live Switcher AW-HS50 NEW

### 5 inputs and 3 outputs

- Standard features include 5 inputs (4 HD/SD-SDI, 1 DVI-D) and 3 outputs (2 HD/SD-SDI, 1 DVI-D).

### MultiViewer display functionality comes installed as standard

- The built-in MultiViewer can display up to ten image windows at one time on a single monitor, including program, preview, inputs, and more!



### Audio Level Meter Display Function

- Embedded audio levels of SDI (group1/ 1 ch, 2 ch) inputs can be displayed.



### Bus Transition Functions

- Cut and Mix transitions are available through AUX bus and PinP bus.

### Frame Synchronizers on All Inputs

- Frame Synchronizer is embedded in all inputs. This enables asynchronous video signals to be switched without glitches. (SDI-IN1 to 4 10 bit, DVI-IN 8 bit)

### More Powerful Features

- 2 Switchable Up-converters. (SDI-IN3, IN4)
- Color Correction on SDI Inputs (SDI-IN1 to 4) for convenient

177 mm  
(6-15/16 ")

67 mm  
(2-5/8 ")

Compact Live Switcher AW-HS50



210 mm (8-1/4 ")

