Small and Versatile: 1/3-inch Full-HD MOS Integrated Pan-Tilt/Cameras with Production Quality HD/SD Video

HD Integrated Camera AW-HE50S NEW

HD Integrated Camera

AW-HE50H NEW

Wireless Remote Controller (option) AW-RM50 *Two AA size batteries required Multi-interface Cable (option)





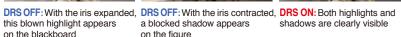
• 1/3-inch Full-HD MOS Sensor with 18x HD Optical Zoom & 10x Digital Zoom

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







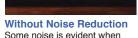


this blown highlight appears a blocked shadow appears shadows are clearly visible on the figure

also suppresses afterimages, even in difficult lighting conditions.

Hybrid (2D/3D) Noise Reduction The innovative Hybrid (2D/3D) Noise Reduction function





gain control is turned up



Without Noise Reduction 3D Noise Reduction Alone The Hybrid (2D/3D) Some noise is evident when Afterimage and some loss of Noise Reduction

Flesh Tone Mode



Flesh Tone Mode:ON

may be affected by

The effectiveness

Setting camera menus

Camera menus can be set up via a web browser by connecting the AW-HE50S/H to a PC.

■ Configuration window on the web browser



Quick integration, thanks to simple connections, IP control, and included **Turn-lock mount**



Panasonic 18x HD Zoom Lens F1.6 to 2.8 (f=4.7 to 84.6 mm,35 mm conversion: 36.9 mm to 664.5 mm) ideas for life

PRELIMINARY 50 Hz 4/2010 HD Integrated Camera AW-HE50S/H Compact Live Switcher AW-HS50 Remote Camera Controller AW-RP50





Rear **AW-HE50S**

AW-HE50H





AW-JEB50-2

■AW-HE50 Main Specifications

Iorizontal Resolution

Minimum Illumination

Gain Selection

Output Format

Interface LAN RS-422

Rotation Range Rotation Speed Noise

Stopping Accuracy
Power Supply

Operating Temperature

Operating humidity
Dimensions (WxHxD)

Standard Accessories

■ AW-HS50 Main Specifications

Synchronization System

Italy Jordan Kazakhstan Korea Kuwait Lebanon Malaysia Mexico +54 1 308 1610 +61 2 9986 7400 Russia & CIS +7 495 980 42 06 Saudi Arabia +966 1 465 0709 Singapore +65 6270 0110 +962 585 9801 +7 3272 980 891 +49 (0)611 235 40 +973 252292 +32 (0)2 481 04 57 +82 2 2106 666 +965 481 2123 Slovak Republic +421 (0)2 52 92 14 23 Slovenia, Croatia, Bosnia, Macedonia +44 (0)20 76 63 36 5 +60 3 5549 5422 +52 5 488 1000 +27 11 313 1400 +34 (93) 425 93 00 South Africa +1 905 624 5010 +46 (8) 680 26 41 +41 (0)41 259 96 32 +86 10 6515 8828 Czech Republic +420 236 032 552/51 +31 73 64 02 577 +886 2 2227 6100 +45 43 20 08 57 +20 2 23938151 +64 9 272 0100 +47 67 91 78 00 +66 2 731 8888 +90 216 578 3700 +971 4 282201 +380 44 4903437 +358 (9)521 52 53 +33 (0)1 49 46 43 59 +507 229 2955 +51 145 29470 +380 44 4903438 +63 2 633 6162 +48 (22)338 1100 +30 210 96 92 300 +36 (1)382 60 60 +351 21 425 77 04 +1 201 348 5300

1/3-inch Full-HD MOS

Auto/Manual switchable 850 TV Lines (Center)

3 lx (50 IRE, F1.6, +36 dB)

54 dB 0,3,6,9,12,15,18 dB/AGC

0 dB,6 dB,12 dB,18 dB (Integral mode) tep 1/100.1/250.1/500.1/1000.1/2000.1/4000.1/1000 Syncro-scan 60.24 Hz to 646.21 Hz OFF,Low,Mid,High,Cinema AWB A,AWB B,ATW 7 levels Full-Auto,Manual

Full-Bar HD: 1080/50i, 720/50p SD: 576/50i

AW-series protocol, plus selected third-party support

Pan: -175 to +175 degrees, Tilt: -30 to +90 degrees

NC35 (Moving normaly), NC40 (When Preset recalled PAN/Tilt ±0.3 °

0 °C to +40 °C

20 % to 90 % (no condensation

160 mm x 178 mm x 166 mm [TBD] (excluding the cable cover and mounting brackets) Mounting Bracket (for table or ceiling), Mounting Bracket (for main unit), Mounting Screws, AC Adaptor, Power Cable, Cable Cover

Number of Keys

Number of PinP

Transition Type

Number of AUX BUS

Frame Synchronizer

Video Processing

BUS Transition

UX BUS | Selectable Materials

Function Dot by Dot

HD/SD analog component

Internal synchronization

DC12 V ±10 %, 1.2 A

Wipe/DVE pattern Wipe x 13

Transition Type Cut, Mix, Wipe (including DVE)

Selectable Materials Black, White, CBGD, FMEM1, FMEM2

SDI-IN1 to 4, DVI-IN

SDI-IN1 to 4, DVI-IN

Single Screen Displa

SDI-IN1 to 4

SDI-IN3, IN4

SDI-IN1 to 4

PGM, PVW, KOUT, CLN, MV

SDI-IN1 to 4, DVI-IN (DVI-IN is always-on)

Labels, Tally indication, Split-screen (the screen may

be split into 4, 5a/5b, 6a/6b, 9 and 10a/10b sections

camera setting information, and Audio Level Meters

Single Screen Display SDI-OUT2,DVI-OUT (unshown on SDI-OUT1)

MV frames, Labels, Tally indications,

The MultiViewer frames are cleared

when the borders between the OSD

and the split-screen of MultiViewer cross.

are not shown on SDI-OUT1.

CBGD, BLACK,

HD/SD analog component*

Internal/External synchronization (BBS

DC12 V ±10 %, 1.3 A

HD (1080/59.94i, 1080/50i, 1080/23.98PsF, 1080/24PsF

XGA (1024 x 768), WXGA (1280 x 768)

XGA (1024 x 768), WXGA (1280 x 768),

SXGA (1280 x 1024), WSXGA+ (1680 x 1050)

UXGA (1600 x 1200), WUXGA (1920 x 1200)

The image data in the Frame Memory is stored even when the power is off.

OSD, Frames, Labels, Tally indications, camera setting information, and

Audio Level Meters for MultiViewer are not stored in the Frame Memory.

● The image on the screen is a composite image. ● Composite images, photographs, and illustrations are included for reference use only.

Vertical frequency: 60 Hz

1080/50p, 1080/59.94p

Vertical frequency: 60 Hz

1080/50p, 1080/59.94p

• Be sure to use the included AC adaptor and power cable

Video processing for the Frame Memory is 8-bit.

(SDI-OUT1 to 2 each, 2 output distribution for SDI-OUT1)

SXGA (1280 x 1024), WSXGA+ (1680 x 1050),

UXGA (1600 x 1200), WUXGA (1920 x 1200)

720/59.94p, 720/50p)

tandard: 4 SDI inputs (SDI-IN 1 to 4)

Standard: 1 DVI-D output (DVI-IN)

Standard: 1 DVI-D output (DVI-OUT)

Wine Reset PinP Preset

GPI OUTPUT x 7 chann

DC12 V ±10 %, 2.5 A [TBI

Dimensions (WxHxD) 210 mm x 65 mm x 177 mm [TBD] (excluding protrusions) Approx. 1.4 kg [TBD] (without options)

Operating Temperature 0 °C to +40 °C
Operating Humidity 10 % to 90 % (no condense

Standard Accessories AC Adaptor, Power Cable

Panasonic

Specifications and functions are subject to change without notice.

Effect Dissolve Function

O (480/59.94i, 576/50i Y:Cb:Cr. 4:2:2 10 bit (8 bit for FMEM)

RGB, 4:4:4 8 bit

Small and Powerful: An Easy-to-Use **Camera Controller** with Great Features

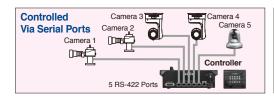
Remote Camera Controller AW-RP50 NEW

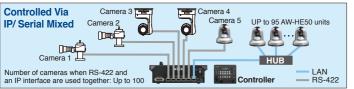
Simple to connect and operate. with both IP and Serial control functions

- Up to a hundred AW-HE50S/H units can be controlled via IP connections when using Ethernet hubs.
- IP addresses are automatically assigned to the AW-HE50S/H or AW-HS50 by the Automatic IP Address Setup function.
- One remote camera can be controlled simultaneously by up to five AW-RP50 units via an IP connection. Various settings for the AW-RP50 can be configured with a PC (configuration software supplied)
- •IP-control performance depends on network conditions •Video signals cannot be transmitted via IP.

Serial Control also Supported

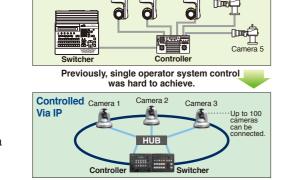
- Up to 5 existing Panasonic pan-tilt heads*, integrated cameras** and box cameras*** such as the AW-HE50S/H, etc. can be linked using the serial control (RS-422 protocol).
- * Compatible models: AW-PH405, AW-PH400, AW-PH360, AW-PH650 ** Compatible model: AW-HE100 *** Compatible models: AK-HC1800, AK-HC1500, AW-HE870, AW-E860, AW-E750, AW-E655, AW-E650, AW-E350





Linking the AW-HS50 to IP control enables highly efficient and stress-free operations

- The camera setting information (such as iris and gain) acquired by the unit is displayed through the AUX output of the switcher or on the split-screen of MultiViewer
- Acquires the ON AIR tally information of the switcher and lights
- •Bus images can be changed by linking them to the camera selection (control bus targets: AUX, PVW, PinP, KEY-F).
- The switcher's MultiViewer screen can be changed to the camera image full screen with a one-touch button operation. *Control bus target: AUX only
- Parameters such as the PinP position of the switcher can be changed with the pan/tilt lever.



Each camera could not be operated

by multiple controllers

Each camera can be operated

50 Series Switcher and Controller linked

■ AW-RP50 Main Specifications

Remote Camera Control	Protocol	IPv4,RS422 (Panasonic AW series protocol)	Interface	LAN	10BASE-T/100BASE-TX (for IP control)	RJ45 x	
	Connection	Serial: Up to 5 cameras		TO PAN/TILT HEAD	RS422 (for Serial control)	RJ45 x	
		IP: Up to 100 cameras		TALLY/GPI	TALLY INPUT x 5 channels	D-sub 1 (female	
	Adjustment functions	Pan/Tilt (Joystick), Zoom (Seesaw Switch), Focus,			GPI INPUT x 4 channels		
					GPI OUTPUT x 4 channels		
			Operating Temprature	0 °C to 40 °C			
			Operating Humidity	10 % to 90 % (no condensation)			
Switcher Control	Connection	IP: 1	Power Supply	DC12 V ±10 %,	2 V ±10 %, 0.5 A [TBD] DC IN		
	Supported Switcher	AW-HS50	Dimensions (WxHxD)	210 mm x 65 mm x 177 mm [TBD] (excluding protrusions)			
	Linkage	Camera Send, Tally Receive, Switcher BUS selection	Weight	Approx. 1.1 kg [oprox. 1.1 kg [TBD] (without options)		
		Pan/Tilt (Joystick)(PinP positioning etc)	Standard Accessories	AC Adaptor, Pov	Power Cable		
■ Re sure to use the included AC adapter and power							

Full rack size with the AW-RP50 and AW-HS50 positioned alongside each other



Small and Professional: A High-Performance **HD/SD Live Switcher** with Built-in MultiViewer

Compact Live Switcher

AW-HS50 NEW

b 5 inputs and 3 outputs

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

1080/59.94i.1080/50i. 1080/23.98PsF,1080/24PsF 720/59.94p,720/50p

S D 480/59.94i,576/50i

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 inputs can be displayed. (1 ch, 2 ch)

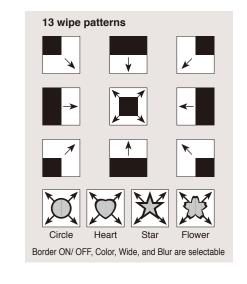
• Bus Transition Functions

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

asynchronous video signals to be switched without glitches. (SDI-IN1 to 4 10 bit, DVI-IN 8 bit)

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







• Frame Synchronizer is embedded in all inputs. This enables

More Powerful Features

- Dot-by-Dot feature on 4 inputs (SDI-IN1 to 4) enables insertion of SD images into HD frames with virtually no image distortion.
- 13 wipe patterns, plus PinP, Chroma/Linear Key, Aux Bus.