Small and Versatile: 1/3-inch Full-HD MOS Integrated Pan-Tilt/Cameras with Production Quality HD/SD Video **HD Integrated Camera** AW-HE50S [SDI Model] Available June 2010 HD Integrated Camera AW-HE50H [HDMI Model] H D 1080/50i,720/50p Wireless Remote Control (option) Available June 2010

Two AA size batteries required

(batteries not included)

• 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 in real time. This increases the dynamic range without affecting the normal pixels.

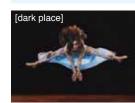


on the blackboard

DRS OFF: With the iris expanded, DRS OFF: With the iris contracted, DRS ON: Both highlights and this blown highlight appears a blocked shadow appears shadows are clearly visible on the figure

The Hybrid (2D/3D) Noise Reduction

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







Clearer images in difficult conditions

Some noise is evident when gain control is turned up

Without Noise Reduction 3D Noise Reduction Alone The Hybrid (2D/3D) Afterimage and some loss of Noise Reduction resolution is seen

Flesh Tone Mode

Flesh Tone Mode produces a more pleasing and realistic picture.





Flesh Tone Mode:OFF

• Setting camera menus with a PC

S D 576/50i

• 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**



AW-HE50 Main Specifications

	SU Main S	pecifications	
		AW-HE50S (SDI Model)	
Image Eleme	ents	1/3-inc	
Lens		18x HD Zoom Lens F1.6 to 2.8 (f=4.7 to 8	
Focus		Auto/Ma	
Horizontal Resolution		850 TV	
Minimum IIIu	mination	3 lx (50 ll	
S/N			
Gain Selectio	מר	0,3,6,9,1	
Jain Selection		0 dB,6 dB,12 d	
Shutter Speed		Step 1/100,1/250,1/500	
		Syncro-scan	
Gamma		OFF,Low	
White Balance		AWB	
Variable Chroma Levels			
Scene Files		Full-	
Color Bar			
Output Form	at	HD: 1080/50i,	
Video Output	t .	HD/SD analog component*	
Interface	27.0.4	10BASE-T/	
Dutput Format HD: Video Output HD/SD-SDI Video Output HD/SD analog component* Composite* 10 Interface IAN RS-422 AW-series pro-	AW-series protocol, plu		
Synchronizat		Internal/External synchronization (BBS)	
Rotation Ran		Pan: -175 to +175 de	
Rotation Spe	ed	Over 90	
Noise		NC35 (Moving normaly	
Stopping Accuracy		PAI	
Power Supply		DC12 V ±10 %, 1.3 A	
Operating Temperature		0 °	
Operating humidity		20 % to 90 %	
Dimensions	(WxHxD)	160 mm x 178 mm x 166 mm [TBD] (ex	
Weight		Ap	
Standard Acc	cessories	Mounting bracket (for table or ceiling), mounting bracket (for	

Be sure to use the included AC adaptor and power cable

AW-HS50 Main Specifications

AW-03	so main s	pecifications				
Video Format		HD (1080/59.94i, 1080/50i, 1080/23.98PsF, 1080/24PsF, 720/59.94p, 720/50p)			Wipe/DVE pattern	Wipe x 13
					Transition Type	Cut, Mix, Wipe (including DVE)
		SD (480/59.94i, 576/50i)		FTB	Selectable Materials	Black, White, CBGD, FMEM1, FMEM2
	aaina	Y:Cb:Cr, 4:2:2 10 bit (8 bit for FMEM)			Number of Keys	1
Video Processing		RGB, 4:4:4 8 bit		KEYER	Key Type	Linear key, Luminance key, Chroma key
M/E		1 M/E			Transition Type	Mix
		Standard: 4 SDI inputs (SDI-IN 1 to 4) Standard: 1 DVI-D output (DVI-IN)			Number of PinP	1
					Transition Type	Mix
		XGA (1024 x 768), WXGA (1280 x 768),			BUS Transition	Yes (Mix)
Video Input		SXGA (1280 x 1024), WSXGA+ (1680 x 1050),			Number of AUX BUS	1
		UXGA (1600 x 1200), WUXGA (1920 x 1200) Vertical frequency: 60 Hz				SDI-IN1 to 4, DVI-IN,
						CBGD, BLACK,
		1080/50p, 1080/59.94p			Selectable Materials	FMEM1, FMEM2,
		Standard: 2 SDI outputs				PGM, PVW, KOUT, CLN, MV
		(SDI-OUT1 to 2 each, 2 output distribution for SDI-OUT1)			BUS Transition	Yes (Mix)
		Standard: 1 DVI-D output (DVI-OUT) XGA (1024 x 768), WXGA (1280 x 768), SXGA (1280 x 1024), WSXGA+ (1680 x 1050), UXGA (1600 x 1200), WUXGA (1920 x 1200) Vertical frequency: 60 Hz			Frame Synchronizer	SDI-IN1 to 4, DVI-IN (DVI-IN is always-on)
Video Outpu	ıt				Freeze	SDI-IN1 to 4, DVI-IN
					Dot by Dot	SDI-IN1 to 4
					Video Processing	SDI-IN1 to 4
					Up-converter	SDI-IN3, IN4
		1080/50p, 1080/59.94p			MultiViewer	Single Screen Display
		2 channels The image data in the Frame Memory is stored even when the power is off.				Labels, Tally indication, Split-screen (the screen may
						be split into 4, 5a/5b, 6a/6b, 9 and 10a/10b sections)
Frame Memo	ory	Video processing for the Frame Memory is 8-bit.				MV frames, Labels, Tally indications,
		OSD, Frames, Labels, Tally indications, camera setting information, and				camera setting information, and Audio Level Meters
		Audio Level Meters for MultiViewer are not stored in	the Frame Memory.	Output		are not shown on SDI-OUT1.
Memory Fun	oction	Wipe Reset, PinP Preset		Function		1 Mix Yes (Mix) 1 SDI-IN1 to 4, DVI-IN, CBGD, BLACK, FMEM1, FMEM2, PGM, PVW, KOUT, CLN, MV Yes (Mix) SDI-IN1 to 4, DVI-IN (DVI-IN is always-on) SDI-IN1 to 4, DVI-IN SDI-IN1 to 4, DVI-IN SDI-IN1 to 4 SDI-IN1 to 4 SDI-IN3, IN4 Single Screen Display Labels, Tally indication, Split-screen (the screen may be split into 4, 5a/5b, 6a/6b, 9 and 10a/10b sections, damera setting information, and Audio Level Meters
Memory Fun	ICUON	Effect Dissolve Function				
	LAN	10BASE-T/100BASE-TX (for IP control)	RJ45 x 1	1	OSD	The MultiViewer frames are cleared
Interface		GPI INPUT x 5 channels	D-sub 15 pin			when the borders between the OSD
	TALLY/GPI	GPI OUTPUT x 7 channels	(female) x 1			and the split-screen of MultiViewer cross.
Power Suppl			SDI embedded audio 1 ch, 2 ch			
Operating Temperature		0 °C to +40 °C				
Operating Humidity		10 % to 90 % (no condensation)				
Dimensions (WxHxD)		210 mm x 65 mm x 177 mm [TBD] (excluding protrusions)				
Weight		Approx. 1.4 kg [TBD] (without options)				
Standard A	ccessories	AC adaptor, power cable				

Be sure to use the included AC adaptor and power cable

• Specifications and functions are subject to change without notice.

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

Domoconio	[Countries and Regions]			
Panasonic	Argentina Australia	+54 1 308 1610 +61 2 9986 7400		
http://panasonic.net/pss/broad/	Austria Bahrain Belgium Bulgaria Brazil Canada	+49 (0)611 235 401 +973 252292 +32 (0)2 481 04 57 +359 2 946 0786 +55 11 3889 4035 +1 905 624 5010		
	China (Hong Kong Czech Bepublic	+86 10 6515 8828 +852 2313 0888) +420 236 032 552/511		
	Denmark Egypt	+45 43 20 08 57 +20 2 23938151		
	Finland, Latvia, I France Germany Greece	Lithuania, Estonia +358 (9)521 52 53 +33 (0)1 49 46 43 59 +49 (0)611 235 401 +30 210 96 92 300		
AW-JEB50-2	Hungary Indonesia Iran	+36 (1)382 60 60 +62 21 385 9449 +98 212 2271463		

AW-HE50H (HDMI Model)					
Full-HD MOS					
4.6 mm,35 mm conversion: 36.9 mm to 664.5 mm)					
anual switchable					
/ Lines (Center)					
RE, F1.6, +36 dB)					
54 dB					
2,15,18 dB/AGC					
B,18 dB (Integral mode)					
,1/1000,1/2000,1/4000,1/10000					
0.24 Hz to 646.21 Hz					
Mid,High,Cinema					
A,AWB B,ATW					
7 levels					
Auto, Manual					
Full-Bar					
720/50p SD: 576/50i					
HDHDMI	HDHDMI				
HD/SD analog component*					
Composite*					
100BASE-TX, IPv4	RJ45 x 1				
us selected third-party support*					
Internal synchronization					
grees, Tilt: -30 to +90 degrees					
°/s (at maximum)					
, NC40 (When Preset recalled)					
N/Tilt ±0.3 °					
DC12 V ±10 %, 1.3 A					
C to +40 °C					
% (no condensation)					
cluding the cable cover and mounting brackets)					
prox. 1.4 kg					
main unit), mounting screws, AC adaptor, power cable, cable cover					

*Breakout Cable required

Panasonic ideas for life

Remote Camera Controller AW-RP50

Compact Live Switcher

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

Remote Camera Controller AW-RP50

The Compact New 50 Series: Production Quality Video with IP Network Control

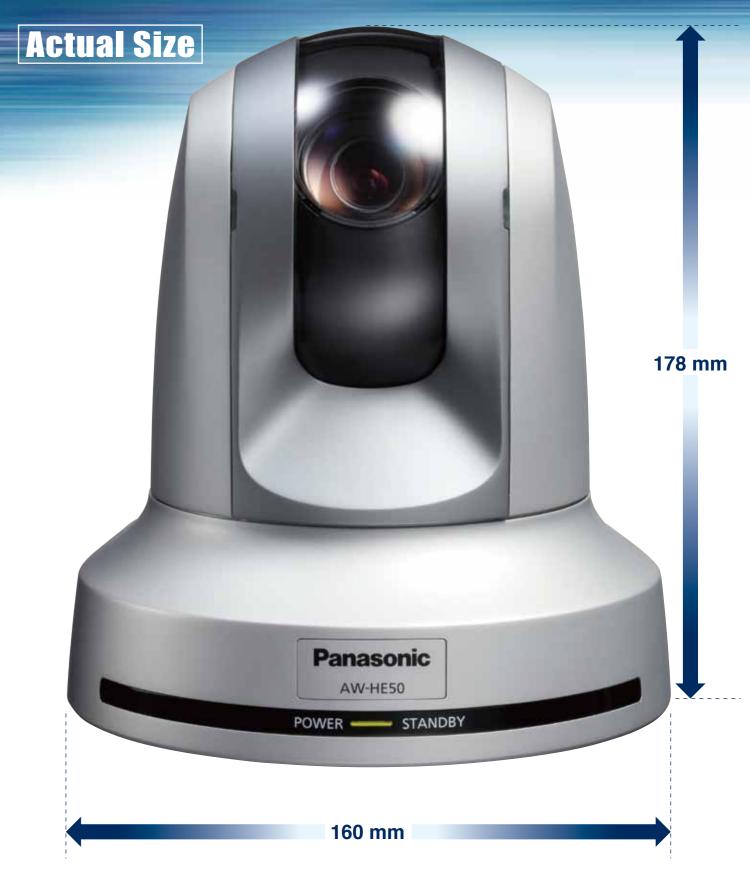
Panasonic

AW-HE50

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HD Integrated Camera

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			+966 1 465 0709
			+65 6270 0110
			+421 (0)2 52 92 14 23
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Lebanon	+961 1 216827		+44 (0)20 76 63 36 57
Malaysia	+60 3 5549 5422	South Africa	+27 11 313 1400
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Peru	+51 145 29470		+380 44 4903438
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	+1 787 750 4300		+1 800 528 8601
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Rear AW-HE50S

AW-HE50H





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

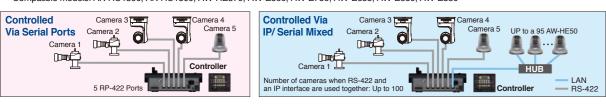
Remote Camera Controller AW-RP50 Available July 2010

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 models: 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 the tally LED on the panel.
- •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.

AW-RP50 Main Specifications

		•				
-	Protocol	IPv4,RS422 (Panasonic AW series protocol)	Interface	LAN	10BASE-T/100BASE-TX (for IP control)	RJ45 x 1
	Connection	Serial : Up to 5 cameras		TO PAN/TILT HEAD	RS422 (for Serial control)	RJ45 x 5
Remote		IP : Up to 100 cameras		TALLY/GPI	TALLY INPUT x 5 channels	D-sub 15 pin (female) x 1
Camera	Adjustment	Adjust 11/D 1 edestal/, Owner Scene mes			GPI INPUT x 4 channels	
Control					GPI OUTPUT x 4 channels	
			Operating Temprature	0 °C to 40 °C		
			Operating Humidity	10 % to 90 % (no condensation)		
	Connection	IP: 1	Power Supply	DC12 V ±10 %,	0.5 A [TBD]	DC IN x 1
Switcher	Supported Switcher	AW-HS50	Dimensions (W x H x D)	D) 210 mm x 65 mm x 177 mm [TBD](excluding protrusions)		
Control	Linkage	Camera Send, Tally Receive, Switcher BUS selection	Weight	2.0 kg [TBD] (without options)		
		Pan/Tilt (Joystick)(PinP positioning etc)	Standard Accessories	AC adaptor, pow	er cable	
	Resure to use the included AC adapter and newer cable					

Be sure to use the included AC adaptor and power cable

amera 1 Camera 1

Each camera could not be operated

HUB

Each camera can be operated

by multiple controllers

Previously, single operator system control

was hard to achieve.

50 Series Switcher and Controller linked for streamlined operation.

by multiple controllers

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

Actual Size Panasonic Remote Camera Controller AW-RP50 POWER ALARM MENU PAG R/B GAIN R/B PED 8 177 mm STORE DELETE DETAIL CAMERA SCENE/MODE PRESET MEMORY / MENU AUTO IRIS CAMERA STATUS / SELECTION AUTO TELE ZOOM FOCUS WIDE 210 mm SIGNAL GND 0 🕑 0 65 mm TALLY / GPI

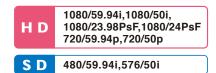


Small and Professional: A High-Performance HD/SD Live Switcher with Built-in MultiViewer

Compact Live Switcher AW-HS50 Available July 2010

• 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).



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

• Frame Synchronizers on All Inputs

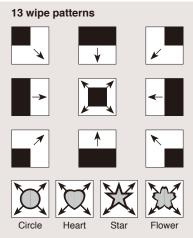
• Frame Synchronizer is embedded in all inputs. This enables asynchronous video signals to be switched without glitches. (SDI-IN1 to 4 10 bit, DVI-IN 8 bit)

More Powerful Features

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



Audio I evel Mete



Border ON/ OFF, Color, Wide, and Blur are selectable