

Panasonic
ideas for life

HD Integrated Camera
AW-HE60SN/SE [SDI model]
AW-HE60HN/HE [HDMI model]

*For indoor use

Preliminary

Suspended (Hanging) style



**The Industry's First *
Full-HD Integrated
Pan-Tilt HD/SD Camera Capable
of IP Image Monitoring**

*As of August 2012 (Research by Panasonic).



**IP Image
Monitoring by
Web browser**

*Simulated image.

[OS]

- Microsoft® Windows® 7 Professional (SP1) 32bit/64bit
- Microsoft Windows XP Home Edition (SP3)
- Apple Mac OS X 10.5/10.6/10.7
- Apple iOS 5.0
- Android™ (Panasonic TOUGH PAD FZ-A1)

[Browser]

- Windows Internet Explorer® 8.0/9.0
- Apple Mac Safari 5.0.6/5.1.5
- Android™ standard browser

1/3 type Full-HD MOS Sensor and 18x Optical Zoom Lens

Featuring Infrared Night mode

**Simplifies connection through IP
Both camera control and video streaming are supported**

**Compact, Space-saving Design and
Turn-lock Mounting Mechanism**

Rear view

● **AW-HE60SN/SE**



● **AW-HE60HN/HE**



Main Features

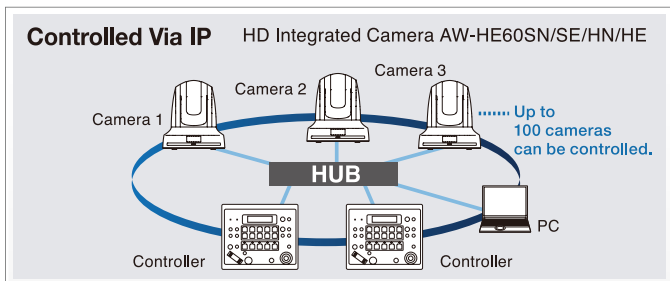
- 1/3 type Full-HD MOS sensor.
- 18x optical zoom (10x digital zoom).
- Versatile terminals: HD/SD SDI output*1, analog component (D-sub15) output, composite output and HDMI connector*2.
- Formats supported: 1080/59.94p*3, 1080/59.94i, 1080/29.97PsF, 720/59.94p, 480/59.94p*2, 480/59.94i, 1080/50p*3, 1080/50i, 1080/25PsF, 720/50p, 576/50p*2 and 576/50i.
- Dynamic Range Stretch (DRS) for minimizing saturation in highlight and block in dark area.
- Featuring hybrid digital noise reduction (Hybrid DNR) that allows clear shooting with minimal afterimages even in dimly lit situations.
- Equipped with Night mode*4 for nighttime shooting.
- Designed with a form that matches surrounding spaces, and a cable cover that prevents clutter.
- Turn-lock mounting mechanism enables easy, single-person installation.

*1 AW-HE60SN/SE only *2 AW-HE60HN/HE only *3 AW-HE60HN/HE HDMI output only
*4 An optional infrared light is required.

IP Control with Image monitoring

- IP connection allows control of up to 100 AW-HE60SN/SE/HN/HE units from an AW-RP50N/E Remote Camera Controller via a switching hub.
- One AW-HE60SN/SE/HN/HE can be controlled simultaneously by up to five Remote Camera Controllers (AW-RP50N/E) via IP connection.
- The IP images output function allows IP images from one camera to be transmitted to as many as 14 devices.*5*6

*5 The number varies depending on the distribution settings.
*6 Only one Android™ device can be connected.



[IP Image Transmission]

- Image compression method: JPEG (M-JPEG)/H.264
- Image resolution: VGA (640 x 480) (16:9 Letterbox: 640 x 320), QVGA (320 x 240) (16:9 Letterbox: 320 x 180)

[Image distribution setting]

	JPEG	H.264
Frame rate	Maximum 30 fps	Maximum 30 fps
Bit rate	Not specified	64 kbps~4096 kbps
Image quality settings	10 steps	3 steps
Distribution method	Unicast only	Unicast only
Applicable protocol	HTTP (CGI)	HTTP(CGI), RTSP, RTP(+RTCP)

Specifications

[GENERAL]

Power Requirements	DC 12 V (AC adaptor supplied)
Power Consumption	1.3 A (AW-HE60H), 1.4 A (AW-HE60S)
Weight	Approx. 1.4 kg (Approx. 3.1 lb) without mount bracket
Dimensions (W x H x D)	160 mm x 178 mm x 166 mm (6-5/16 inches x 7 inches x 6-9/16 inches) (excluding protrusions, cable cover, direct ceiling mount bracket)

[CAMERA]

Image Sensors	1/3 type Full-HD MOS
Lens	Motorized 18x zoom, F1.6 to F2.8 (f=4.7 mm to 84.6 mm, 35 mm equivalent: 36.9 mm to 664.5 mm)
Focus Distance	Entire zooming range: 1.0 m (3.3 ft.), Wide end: 30 cm (0.98 ft.)
Output Format	1080/59.94p*1, 1080/59.94i, 1080/29.97PsF, 720/59.94p, 480/59.94p*1, 480/59.94i, 1080/50p*1, 1080/50i, 1080/25PsF, 720/50p, 576/50p*1, 576/50i
Synchronization System	AW-HE60S: Internal/External synchronization (BBS), AW-HE60H: Internal synchronization

[PAN-TILT MECHANISM]

Installation Method*2	Stand-alone (Desktop) or suspended (Hanging)
Pan/Tilt Operation Speed	Max 90°/s
Pan Range	±175°
Tilt Range*3	90° to -30°
Quietness	NC35 (at normal speed), NC40 (when preset)
Preset Positions	100
Input / Output Connector	RJ-45 (IP) /RS422A (MULTIHF)

*1 When 1080/59.94p or 1080/50p mode is selected, a progressive signal is output through HDMI OUT, and an interlace signal is output through analog component OUT and SDI OUT. When 480/59.94p or 576/50p mode is selected, a progressive signal is output through HDMI OUT (AW-HE60HN/HE only) and analog component OUT, and an interlace signal is output through SDI OUT (AW-HE60SN/SE only). When IP images distributed, component signals (480/59.94i, 576/50i) are not output through a multi-interface.

*2 For safety purpose, the included mounting bracket must be used for installation.

*3 Depending on the pan or tilt position, the camera may shoot itself. Specifications are subject to change without notice.

Panasonic®

Panasonic Corporation
Business Solutions Business Group
2-15 Matsuba-cho, Kadoma, Osaka 571-8503
Japan
<http://pro-av.panasonic.net/>

[Countries and Regions]

Argentina +54 1 308 1610
Australia +61 2 9986 7400
Bahrain +973 252292
Belgium +32 (0) 2 481 04 57
Brazil +55 11 3889 4035
Canada +1 905 624 5010
China +86 10 6515 8828
Hong Kong +852 2313 0888
Czech Republic +420 236 032 552/511
Denmark +45 43 20 08 57
Egypt +20 2 23938151
Finland, Latvia, Lithuania, Estonia +358 (9) 521 52 53
France +33 (0) 1 55 93 66 67
Germany, Austria, Switzerland +49 (0)611 235 0
Greece +30 210 96 92 300
Hungary +36 (1) 382 60 60
India +91 120 247 1000
Indonesia +62 21 385 9449
Iran (Vida) +98 21 2271463
(Panasonic Office)+98 2188791102
Italy +39 02 6788 367
Jordan +962 6 5859801
Kazakhstan +7 727 298 0891
Korea +82 2 2106 6641

Kuwait +96 522431385
Lebanon +96 11665557
Malaysia +60 3 7809 7888
Mexico +52 55 5488 1000
Netherlands +31 73 64 02 577
New Zealand +64 9 272 0100
Norway +47 67 91 78 00
Pakistan +92 5370320 (SNT)
Palestine +972 2 2988750
Panama +507 229 2955
Peru +51 1 614 0000
Philippines +63 2 633 6163
Poland +48 (22) 338 1100
Portugal +351 21 425 77 04
Puerto Rico +1 787 750 4300
Romania +40 21 211 4855
Russia & CIS +7 495 6654205
Saudi Arabia +96 626444072
Singapore +65 6270 0110
Slovak Republic +421 (0) 2 52 92 14 23
Slovenia, Albania, Bulgaria, Serbia, Croatia, Bosnia, Macedonia, Montenegro +36 (1) 382 60 60
South Africa +27 11 3131622
Spain +34 (93) 425 93 00
Sweden +46 (8) 680 26 41
Syria +963 11 2318422/4

Taiwan +886 2 2227 6214
Thailand +66 2 731 8888
Turkey +90 216 578 3700
U.A.E. (for All Middle East) +971 4 8862142
Ukraine +380 44 4903437
U.K. +44(0)1344 70 69 13
U.S.A. +1 877 803 8492
Vietnam +848 38370280



Factories of Business Solutions Business Group have received ISO14001:2004-the Environmental Management System certification. (Except for 3rd party's peripherals.)