Full HD Rugged Outdoor PTZ Camera

AW-HR140

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KEY FEATURES

- 1/2.86 type full HD 3MOS sensors and Digital Signal Processor (DSP)

- 20x Optical Zoom (plus 1.4x Digital Extender)

- Hybrid Image Stabilizer (mechanical and optical, named DISS) for stable shooting performance

- Protection IP65, salt-resistant paint & includes wipers, heater and defroster (washer optional)

- Full HD Rugged Outdoor PTZ Camera with special functions: Intelligent, Haze Reduction & Night Mode

This product is part of our optional two year warranty program. This program is enhancing one of the best service programs in the industry and offers all customers the best after-sales service possible.

Highlights

- Protection IP65
- 3MOS sensor (same as AW-HE130)
- 20x Optical Zoom (plus 1.4x Digital Extender)
- ND filters (Clear, 1/8, 1/64)
- Includes Wiper, Heater and Defroster (optional Washer)
- Salt-resistant paint
- Hybrid Image Stabilizer (mechanical and optical, named DISS)
- Supports 1080/50p (2x 3G-SDI outputs)

- Special functions: Intelligent, Haze Reduction, Night Mode
- Supports PoE++
- IP control and streaming
- Compatibility with existing Panasonic remote systems

High Picture Quality

The new AW-HR140 is an integrated remote camera system that incorporates an outdoor housing, camera, lens and pantilt head. It is equipped with the same **Digital Signal Processor (DSP)** and **1/2.86 type full HD 3MOS sensors** as the [AW-HE130](#) which results in high sensitivity, high S/N ratio, and high resolution due to its advanced video processing.

The HR140 maintains **stable shooting performance** in the toughest of environments and is compatible with various outdoor environments and applications.

In addition to a sharp, fast F1.6, **20x optical zoom lens**, the HR140 is equipped with an innovative **1.4x digital extender** that can increase the effective focal length of the lens by 40% while delivering smooth, high resolution video.

DOWNLOAD
PTZ Angle of View & Object Distance calculator

SPECIFICATIONS

Power Requirements	DC 12 V to 21.8 V (DC IN connector) DC 42 V to 57 V (PoE++ power supply)
Current Consumption	3.1 A to 5.5 A (DC IN connector) 1.2 A (PoE++ power supply)
Ambient Operating Temperature	-15 °C to 45 °C (5 °F to 113 °F) (preheating is required when -5 °C (23 °F) or less)
Ambient Operating Humidity	10% to 100% (no condensation)
Storage Temperature	-20 °C to 55 °C (-4 °F to 131 °F)
Storage Humidity	10% to 95% (no condensation)
Mass	Approx. 9.0 kg (19.84 lb)
Dimensions (W x H x D)	258 mm x 357 mm x 397 mm (10-5/32 inches x 14-1/16 inches x 15-5/8 inches) (including protrusions and cable cover)
Finish	Silver, salt resistant coating

Waterproof and Dust Proof	IP65 compliant
Maximum Permissible Wind Speed	15 m/sec: Operates normally 50 m/sec: Operation possible 60 m/sec: No damage
Wiper	Installed as standard
Heater	Installed as standard
Defroster	Installed as standard
Controller Supported	AW-RP120G, AW-RP50, AK-HRP200G • It may be necessary to upgrade the version of the controller in order to support the unit. For details on upgrading, visit the support page on the following website.
Imaging Sensors	1/2.86-type Full-HD 3MOS
Lens	Optical 20x zoom/10x digital zoom, F1.6 to F3.4 (f=4.5 mm to 90 mm; 35 mm equivalent: 32.13 mm to 642.5 mm)
Focus	Switching between auto and manual
Focus Distance	Entire zooming range: 800 mm (2.62 ft) Wide end: 400 mm (1.31 ft)
Color Separation Optical System	3MOS
Minimum Illumination	2 lx (50 IRE, F1.6, 36 dB, without accumulation)
Horizontal Resolution	1000 TV lines Typ (Center area)
Gain Selection	Auto, 0 dB to 42 dB (1 dB steps) 37 dB to 42 dB is Super Gain Mode
Frame Mix	0 dB, 6 dB, 12 dB, 18 dB, 24 dB • This cannot be configured when the format is 1080/29.97p, 1080/23.98p, 1080/29.97PsF, 1080/23.98PsF, 1080/25p, or 1080/25PsF. • When [Iris Mode] or [Focus Mode] is set to [Auto], this cannot be set to 18 dB or 24 dB.
Electronic Shutter Speed | 59.94p/59.94i	1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000
Electronic Shutter Speed | 29.97p	1/30, 1/60, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000
Electronic Shutter Speed | 23.98p	1/24, 1/60, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000
Electronic Shutter Speed | 50p/50i	1/60, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000
Electronic Shutter Speed | 25p	1/25, 1/60, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000
Synchro Scan | 59.94Hz	60.15 Hz to 642.21 Hz (255 steps)
Synchro Scan | 50Hz	50.15 Hz to 535.71 Hz (255 steps)
Gamma	HD, FILMLIKE1, FILMLIKE2, FILMLIKE3 0.30 to 0.75 (Manual setting)
White Balance	AWB A, AWB B, ATW, 3200K, 5600K, VAR (2000K to 15000K)
Chroma Amount Variability	OFF, -99% to 40%
Scene File	Scene1, Scene2, Scene3, Scene4
Intelligent Functions	Auto function for each of accumulation, gain, iris, electronic shutter, ND, and ATW
Output Format	1080/59.94p, 1080/29.97p*1 , 1080/23.98p*2 , 1080/59.94i, 1080/29.97PsF*3 , 1080/23.98PsF*3 , 720/59.94p, 1080/50p, 1080/25p*1 , 1080/50i, 1080/25PsF*3 , 720/50p
Synchronization System	Internal/External synchronization (BBS/Tri-level sync)
Line Input Audio In 1/2 | Input Impedance	High impedance
Line Input Audio In 1/2 | Input	2 channels, XLR balanced input • Input signal level: +4 dBu/0 dBu/-20 dBu (selectable in menu) • Volume variable range: -40 dB to +12 dB (can be changed in 1 dB steps in the menu)
Line Input Audio In 1/2 | Output	• 4 channels, superimposed over SDI output • Embedded audio output level: FS-12 dB: -12 dBFS, FS-18 dB: -18 dBFS, FS-20 dB: -20 dBFS (selectable in menu) • Sampling frequency: 48 kHz (synchronized to video) • Quantization bit rate: 24-bit (LPCM)

	• Audio compression format (IP): G.726, AAC-LC (High quality)
**Input Connector	12V In**	XLR connector
**Input Connector	G/L In**	BNC connector • BBS (Black Burst Sync), tri-level sync supported • Locking to a subcarrier is not possible with BBS.
**Input Connector	Audio Input**	mini XLR connector (line input) #1: INPUT1 Common, #2: INPUT1 HOT, #3: INPUT1 COLD, #4: INPUT2 Common, #5: INPUT2 HOT, #6: INPUT2 COLD
**Video Output	HD-SDI Out**	SMPTE424/SMPTE292 standards 75 Ω (BNC x 2) • OSD output is possible from the SDI OUT 1/PM connector but not from the SDI OUT 2 connector.
**Input/Output Connector	LAN**	LAN connector for IP control/video output/audio output/ PoE++ power supply PoE++ (IEEE802.3bt Draft ver.2.0 standard)
**Input/Output Connector	RS-422**	CONTROL IN RS-422A
**Input/Output Connector	EXT**	#1: DC GND, #2: HOT, #3: COLD, #4: 12V-OUT
Installation Method	Stand-alone (Desktop) or suspended (Hanging) • To ensure safety, the unit must be secured using the mount bracket supplied.
**Camera/Pan-Tilt Head Control	IP Connecting Cable**	• When connecting through a PoE++ hub: LAN cable*4 (category 5e or above, straight cable), max. 100 m (328 ft) • When a PoE++ hub is not used: LAN cable*4 (category 5 or above, straight cable) max. 100 m (328 ft)
**Camera/Pan-Tilt Head Control	AW Series Connecting Cable/Standard Protocol Connecting Cable**	LAN cable*4 (category 5 or above, straight cable), max. 1000 m (3280 ft)
Pan/Tilt Operation Speed	Maximum speed 60°/s or higher
Panning Range	±175° • For suspended installations, the positions of the pins that determine the movement range must be changed.
Tilting Range	-30° to 210° • Depending on the pan or tilt position, the camera may be reflected in the image. • For suspended installations, the positions of the pins that determine the movement range must be changed.
Quietness	60°/s (NC45 or less)
Vibration Correction	D.I.S.S. (Dynamic Image Stabilizing System)
Accessories	Hexagonal bolt M8 × 30 mm: 4 M8 washer : 4 Spring washer: 4 Cable cover : 1 Washer nozzle mount bracket: 1 Drop-prevention wire : 1 Drop-prevention wire mounting screw (with hexagonal socket, for unit) M4 × 10 mm : 1
Note	*1: Native output *2: Over 59.94i output *3: For 1080/25PsF, 50i may be displayed on the monitor screen. Furthermore, for 1080/23.98PsF and 29.97PsF, 59.94i may be displayed on the monitor screen. *4 Use of an STP (shielded twisted pair) cable is recommended. • When connecting directly to a controller without an Ethernet hub, use a cross cable.

URL: https://business.panasonic.co.uk/professional-camera/remote-camera-systems/aw-hr140-full-hd-rugged-outdoor-ptz-camera

CONTACT

Web: https://business.panasonic.co.uk/professional-camera/contact-us