

# 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 <sup>3</sup>

- 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 pan/tilt 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.

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PTZ Angle of View & Object Distance calculator

## SPECIFICATIONS

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

<b>Waterproof and Dust Proof</b>	IP65 compliant
<b>Maximum Permissible Wind Speed</b>	15 m/sec: Operates normally 50 m/sec: Operation possible 60 m/sec: No damage
<b>Wiper</b>	Installed as standard
<b>Heater</b>	Installed as standard
<b>Defroster</b>	Installed as standard
<b>Controller Supported</b>	AW-RP120G, AW-RP50, AK-HRP200G <ul style="list-style-type: none"> <li>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.</li> </ul>
<b>Imaging Sensors</b>	1/2.86-type Full-HD 3MOS
<b>Lens</b>	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)
<b>Focus</b>	Switching between auto and manual
<b>Focus Distance</b>	Entire zooming range: 800 mm (2.62 ft) Wide end: 400 mm (1.31 ft)
<b>Color Separation Optical System</b>	3MOS
<b>Minimum Illumination</b>	2 lx (50 IRE, F1.6, 36 dB, without accumulation)
<b>Horizontal Resolution</b>	1000 TV lines Typ (Center area)
<b>Gain Selection</b>	Auto, 0 dB to 42 dB (1 dB steps) 37 dB to 42 dB is Super Gain Mode
<b>Frame Mix</b>	0 dB, 6 dB, 12 dB, 18 dB, 24 dB <ul style="list-style-type: none"> <li>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.</li> <li>When [Iris Mode] or [Focus Mode] is set to [Auto], this cannot be set to 18 dB or 24 dB.</li> </ul>
<b>Electronic Shutter Speed   59.94p/59.94i</b>	1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000
<b>Electronic Shutter Speed   29.97p</b>	1/30, 1/60, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000
<b>Electronic Shutter Speed   23.98p</b>	1/24, 1/60, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000
<b>Electronic Shutter Speed   50p/50i</b>	1/60, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000
<b>Electronic Shutter Speed   25p</b>	1/25, 1/60, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000
<b>Synchro Scan   59.94Hz</b>	60.15 Hz to 642.21 Hz (255 steps)
<b>Synchro Scan   50Hz</b>	50.15 Hz to 535.71 Hz (255 steps)
<b>Gamma</b>	HD, FILMLIKE1, FILMLIKE2, FILMLIKE3 0.30 to 0.75 (Manual setting)
<b>White Balance</b>	AWB A, AWB B, ATW, 3200K, 5600K, VAR (2000K to 15000K)
<b>Chroma Amount Variability</b>	OFF, -99% to 40%
<b>Scene File</b>	Scene1, Scene2, Scene3, Scene4
<b>Intelligent Functions</b>	Auto function for each of accumulation, gain, iris, electronic shutter, ND, and ATW
<b>Output Format</b>	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
<b>Synchronization System</b>	Internal/External synchronization (BBS/Tri-level sync)
<b>Line Input Audio In 1/2   Input Impedance</b>	High impedance
<b>Line Input Audio In 1/2   Input</b>	2 channels, XLR balanced input <ul style="list-style-type: none"> <li>Input signal level: +4 dBu/0 dBu/-20 dBu (selectable in menu)</li> <li>Volume variable range: -40 dB to +12 dB</li> <li>(can be changed in 1 dB steps in the menu)</li> </ul>
<b>Line Input Audio In 1/2   Output</b>	<ul style="list-style-type: none"> <li>4 channels, superimposed over SDI output</li> <li>Embedded audio output level: FS-12 dB: -12 dBFS, FS-18 dB: -18 dBFS, FS-20 dB: -20 dBFS (selectable in menu)</li> <li>Sampling frequency: 48 kHz (synchronized to video)</li> <li>Quantization bit rate: 24-bit (LPCM)</li> </ul>

	<ul style="list-style-type: none"> <li>• Audio compression format (IP): G.726, AAC-LC (High quality)</li> </ul>
<b>Input Connector   12V In</b>	XLR connector
<b>Input Connector   G/L In</b>	BNC connector <ul style="list-style-type: none"> <li>• BBS (Black Burst Sync), tri-level sync supported</li> <li>• Locking to a subcarrier is not possible with BBS.</li> </ul>
<b>Input Connector   Audio Input</b>	mini XLR connector (line input) #1: INPUT1 Common, #2: INPUT1 HOT, #3: INPUT1 COLD, #4: INPUT2 Common, #5: INPUT2 HOT, #6: INPUT2 COLD
<b>Video Output   HD-SDI Out</b>	SMPTE424/SMPTE292 standards 75 Ω (BNC x 2) <ul style="list-style-type: none"> <li>• OSD output is possible from the SDI OUT 1/PM connector but not from the SDI OUT 2 connector.</li> </ul>
<b>Input/Output Connector   LAN</b>	LAN connector for IP control/video output/audio output/ PoE++ power supply PoE++ (IEEE802.3bt Draft ver.2.0 standard)
<b>Input/Output Connector   RS-422</b>	CONTROL IN RS-422A
<b>Input/Output Connector   EXT</b>	#1: DC GND, #2: HOT, #3: COLD, #4: 12V-OUT
<b>Installation Method</b>	Stand-alone (Desktop) or suspended (Hanging) <ul style="list-style-type: none"> <li>• To ensure safety, the unit must be secured using the mount bracket supplied.</li> </ul>
<b>Camera/Pan-Tilt Head Control   IP Connecting Cable</b>	<ul style="list-style-type: none"> <li>• When connecting through a PoE++ hub: LAN cable*4 (category 5e or above, straight cable), max. 100 m (328 ft)</li> <li>• When a PoE++ hub is not used: LAN cable*4 (category 5 or above, straight cable) max. 100 m (328 ft)</li> </ul>
<b>Camera/Pan-Tilt Head Control   AW Series Connecting Cable/Standard Protocol Connecting Cable</b>	LAN cable*4 (category 5 or above, straight cable), max. 1000 m (3280 ft)
<b>Pan/Tilt Operation Speed</b>	Maximum speed 60°/s or higher
<b>Panning Range</b>	±175° <ul style="list-style-type: none"> <li>• For suspended installations, the positions of the pins that determine the movement range must be changed.</li> </ul>
<b>Tilting Range</b>	-30° to 210° <ul style="list-style-type: none"> <li>• Depending on the pan or tilt position, the camera may be reflected in the image.</li> <li>• For suspended installations, the positions of the pins that determine the movement range must be changed.</li> </ul>
<b>Quietness</b>	60°/s (NC45 or less)
<b>Vibration Correction</b>	D.I.S.S. (Dynamic Image Stabilizing System)
<b>Accessories</b>	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
<b>Note</b>	*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>