iA(intelligent Auto) H.265 PTZ Camera

Panasonic WV-S6130 captures the highest quality images automatically even in very challenging and fast-changing surveillance environments. Intelligent Auto (iA) monitors scene dynamics and motion to adjust key camera settings automatically in real-time reducing distortion such as motion blur on moving objects. New industry-leading 144dB dynamic range delivers balanced scene exposure in dynamic and extreme-backlit lighting environments. In addition, color night vision provides outstanding low-light performance with accurate color rendition and saturation from i-Pro's 1/3" sensor, rivaling the performance of costlier 1/2" sensor cameras in the market. Adopting H.265 Smart Coding technology, intelligently reduces bandwidth efficiency of up to 95%* over H.264 for longer recording and less storage. Cameras out-of-the-box, support full data encryption streaming and is compliant to FIPS 140-2 Level 1 standards to keep your video secured. *Value in Advanced mode. It depends on the scene.

Extreme image quality for evidence capturing under challenging conditions
- Sharp and clear image of moving objects with Intelligent Auto
- Outstanding low light performance in true color with low noise for night time applications
- Super Dynamic 144dB for backlit situation by headlights and shadows on the streets at night
- Long life Pan/Tilt gear mechanism

Extreme H.265 compression with new Smart Coding
- Longer recording, less storage compared to H.264 based compression techniques
- New self-learning ROI* encoding (Auto VIQS) dynamically detect motion areas to keep vehicles and human in good picture quality while lowering your bandwidth * Region of Interest

Extreme Data Security
- Full encryption SD card edge recording to keep your data safe
- FIPS 140-2 Level 1 compliant
- Full end-to-end system encryption with supported VMS and devices to protect from IP snooping/spoofing and detect data alteration

Key Features

- Full-HD 1920x1080 60fps
- Durable Pan/Tilt gear mechanism
- iA (intelligent Auto)
- Extreme Super Dynamic 144dB
- Color night vision (0.001 to 0.015 lx)

Applications

- Retail
- Banks
- Hospitals
- Building

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Specifications

Camera	Image Sensor	Approx. 1/2.9 type MOS image sensor
	Minimum Illumination	Color : 0.015 lx, BW : 0.006 lx
		(F1.6, Maximum shutter : Off (1/30 s), AGC : 11)
		Color : 0.001 lx, BW : 0.0004 lx
		(F1.6, Maximum shutter : Max. 16/30s, AGC : 11) [1]
	Intelligent Auto	On / Off
	Shutter Speed	1/30 Fix to 1/10000 Fix
		[1]/30 Fix to 2/120 Fix is available during 30 fps mode only.
		[1]/60 Fix is available during 60 fps mode only.
	Super Dynamic[2]	On / Off, the level can be set in the range of 0 to 31.
	Dynamic Range	144 dB (Super Dynamic : On)
	Image Settings	Gain (AGC), White balance
	Image Compensation	Adaptive black stretch, Back light compensation (BLC),
		Fog compensation, High light compensation (HLC),
		Digital noise reduction
	Color/BW (ICR)	Off / On / Auto1 (Normal) / Auto2 (IR Light) / Auto3 (SCC)
	Video Motion Detection (VMD)	On / Off, 4 areas available
	Intelligent VMD (i-VMD) [3]	Type 4 *optional plug-in software WV-SAE200
	Stabilizer[3]	On / Off (available only in the 30 fps mode)
	Privacy Zone	Filling / Pixelate / Off (up to 32 zones available)
	Camera Title (OSD)	On / Off Up to 20 characters (alphanumeric characters, marks)
Lens	Zoom Ratio	21x Optical, 31x with HD Extra Optical Zoom (Resolution 1280×720)
	Digital (electronic) zoom	16x
	Focal length	4.0 mm – 84.6 mm {5/32 inches – 3 -11/32 inches}
	Maximum Aperture Ratio	1 : 1.6 (WIDE) – 1 : 4.5 (TELE)
	Focus range	1.5 m {4ft 11- 1/16 inches} – ∞
	Angular Field of view	[16 : 9 mode] Horizontal : 3.5 ° (TELE) – 74 ° (WIDE)
		Vertical : 2.0 ° (TELE) – 42 ° (WIDE)
		[4 : 3 mode] Horizontal : 3.0 ° (TELE) – 61 ° (WIDE)
		Vertical : 2.3 ° (TELE) – 46 ° (WIDE)
Pan/tilt	Panning Range	0° – 350°
	Panning Speed	Manual : Approx. 0.5°/s – 100°/s Preset : Up to approx. 300°/s
	Tilting Range	Operational range: –30 ° – 90 ° (level – downward)
	Tilting Speed	Manual : Approx. 0.5°/s – 100°/s Preset : Up to approx. 100°/s
	Preset Positions	256 positions
	Auto Mode	Auto track[3]/ Auto pan/ Preset sequence/ Patrol
	Self Return	10 s/ 20 s/ 30 s/ 1 min/ 2 min/ 3 min/ 5 min/ 10 min/ 20 min/ 30 min/ 60 min
Browser GUI	Camera Control	Pan/Tilt, Zoom, Focus, Auto mode, Brightness, Preset, AUX,
		Rec. on SD, Log, Viewer software
	Audio	Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High
		Audio Output : On / Off Volume adjustment : Low / Middle / High
	GUI / Setup Menu Language	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese
Network	Network IF	10 Base-T / 100 Base-TX, RJ45 connector
	Resolution	•2 mega pixel [16 : 9] (30/60 fps)
	H.265/ H.264	1920×1080, 1280×720, 640×360, 320×180
	JPEG (MJPEG)	•3 mega pixel [4 : 3] (30 fps)
		2048×1536*, 1280×960, 800×600, VGA, 400×300, QVGA
		*Used by super resolution techniques
	H.265/ H.264[4] — Transmission Mode	Constant bit rate / VBR / Frame rate / Best effort
	H.265/ H.264[4] — Transmission Type	Unicast / Multicast
	JPEG — Image Quality	10 steps

*1 Converted value
*2 Super Dynamic function is automatically set off on 60 fps mode.
*3 Stabilizer, Auto track, Smart Facial Coding, i-VMD, can not be used at the same time.
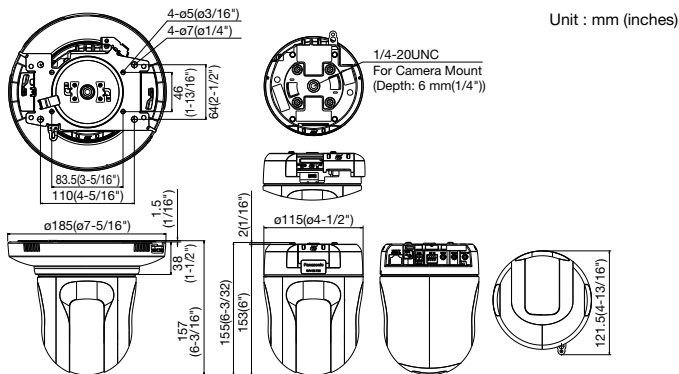*4 Transmission for 4 streams can be individually set.

Network	Smart Coding	Smart Facial Coding[3] : On(Smart Facial Coding)/ On(AUTO VIQS)/ Off
		* Smart Facial Coding is only available with Stream(1).
		GOP(Group of pictures) control : On(Advanced)*/ On(Low)/ On(Mid)/ Off
		* On(Advanced) is only available with H.265.
	Audio Compression	G.726 (ADPCM) : 16 kbps / 32 kbps,
		G.711 : 64 kbps,
		AAC-LC[5] : 64 kbps / 96 kbps / 128 kbps
	Audio transmission mode	Off / Mic (Line) input / Audio output / Interactive (Half duplex) /
		Interactive (Full duplex)
	Supported Protocol	IPv6 : TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP,
		SNMP, DHCPv6, MLD, ICMP, ARP, IEEE 802.1X, DiffServ
		IPv4 : TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP,
		SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP,
		ARP, IEEE 802.1X, DiffServ
	Maximum concurrent access number	Up to 14 users (Depends on network conditions)
	SDXC/SDHC/SD Memory Card (Option)	H.265/ H.264 recording :
		Manual REC / Alarm REC (Pre/Post) / Schedule REC /
		Backup upon network failure
		JPEG recording :
		Manual REC / Alarm REC (Pre/Post) / Backup upon network failure
		Compatible SDXC/SDHC/SD Memory Card :
		Panasonic 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB*, 64 GB**, 128 GB**
		256 GB** model
		*SDHC card, ** SDXC card (except miniSD card and microSD card)
	Mobile Terminal Compatibility	iPad / iPhone, Android™ mobile terminals
Alarm	Alarm Source	3 terminals input, VMD alarm[6], Command alarm, Audio detection alarm,
		Auto track alarm
	Alarm Actions	SDXC/SDHC/SD memory recording, E-mail notification,
		HTTP alarm notification, Indication on browser, FTP image transfer,
		Panasonic protocol output
Input/ Output	Monitor Output (for confirmation)	VBS : 1.0 V [p-p] / 75 Ω, composite, ø3.5 mm mini jack
		An NTSC or PAL signal can be outputted from camera
	Audio Input	ø3.5 mm stereo mini jack (stereo input)
		Input impedance: Approx. 2 kΩ (unbalanced)
		(Applicable microphone: Plug-in power type)
		Supply voltage: 2.5 V ± 0.5 V
	Audio Output	ø3.5 mm stereo mini jack (stereo output)
		Output impedance : Approx. 600 Ω (unbalanced)
	External I/O Terminals	ALARM IN 1 (Black & white input, Auto time adjustment input) (x1),
		ALARM IN 2 (ALARM OUT) (x1), ALARM IN 3 (AUX OUT) (x1)
General	Power Source and Power Consumption	DC12 V 1 A, Approx. 12 W
		PoE(IEEE802.3af) DC 48 V 250 mA, Approx. 12 W (Class0 device)
	Ambient Operating Temperature	-10 °C to +50 °C {14 °F to 122 °F} (Ceiling / Camera mount bracket)
		-10 °C to +40 °C {14 °F to 104 °F} (Desktop / Tripod)
	Ambient Operating Humidity	10 to 90 % (no condensation)
	Dimensions	Including the decorative cover
		ø185 mm × 157 mm (H) {ø7-9/32 inches × 6-3/16 inches (H)}
		Excluding the decorative cover(place the camera upside-down)
		ø115 mm × 155 mm (H) {ø4-17/32 inches × 6-3/32 inches (H)}
	Mass (approx.)	Approx. 1.1 kg (2.43 lbs)
		Including Camera mount bracket, decorative cover : Approx. 200 g {0.44 lbs}
	Finish	Camera : PMMA resin, Fine silver
		Decorative cover : PC / ABS resin, Fine silver

*5 Only use AAC-LC (Advanced Audio Coding - Low Complexity) when recording audio on an SD memory card.
*6 Including alarms from Plug-in Software

Appearance

Unit : mm (inches)

4-ø5(ø3/16")
4-ø7(ø1/4")
1/4-20UNC
For Camera Mount
(Depth: 6 mm(1/4"))
46 (1-13/16")
64(2-1/2")
83.5(3-5/16")
110(4-5/16")
ø185(ø7-5/16")
1.5 (1/16")
38 (1-1/2")
2(1/16")
ø115(ø4-1/2")
157 (6-3/16")
155(6-3/32")
153(6")
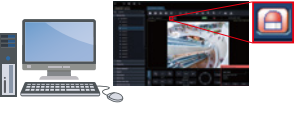121.5(4-13/16")

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Important
– Safety Precaution : Carefully read the Important Information, Installation Guide and operating instructions before using this product.
– Panasonic cannot be responsible for the performance of the network and/or other manufacturers' products used on the network.

Optional Accessories

* This catalog is provided for all over the world. Some accessories may not be available in some countries.

Ceiling Mount Bracket **WV-Q105A**	Wall Mount Brackets **WV-Q158C**(Clear) **WV-Q158S**(Smoke) (Smoke Type)	Ceiling Mount Brackets **WV-Q159C**(Clear) **WV-Q159S**(Smoke) (Smoke Type)
Ceiling Mount Brackets **WV-Q160C**(Clear) **WV-Q160S**(Smoke) (Smoke Type)	Inner Cover **WV-Q161**	

Plug-in Software for i-VMD
WV-SAE200
i-VMD is possible to detect objects in the specified area by advanced video analysis technology.

i-VMD : Intruder Detection, Loitering Detection, Direction Detection, Scene Change Detection, Object Detection, Cross Line Detection

Notification sent to the monitoring screen

• Masses and dimensions are approximate.   • Specifications are subject to change without notice.

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