

## Long distance IR illumination iA PTZ Camera

Panasonic WV-S6532LN 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. Adopting H.265 Smart Coding technology, intelligently reduces bandwidth efficiency up to 95%\* more than conventional H.264 for longer recording and less storage.

\*Value in Advanced mode with Smart Facial Coding depends on scene.

### Extreme image quality for evidence capturing under challenging conditions

- Built-in IR LED to produce a clear monochrome image in 0 lux conditions with 100 m (330 feet) irradiation distance
- Sharp and clear image of fast moving vehicles with Intelligent Auto and ClearSight Coating
- Outstanding low light performance in true color with low noise for night time applications
- Environmental durability: IP66, IK10, 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

### Key Features

- Full-HD 1920x1080 60fps
- Long distance IR illumination
- 22x optical zoom
- ClearSight Coating
- Durable Pan/Tilt gear mechanism
- iA (intelligent Auto)
- Color night vision (0.001 to 0.015 lx)
- IP66, IK10 certified
- i-VMD License Bundled

### Industry examples

- Traffic
- Safe city
- Railway
- Critical infrastructure
- Airport
- Stadium



## Specifications

<b>Camera</b>	Image Sensor	Approx. 1/2.8 type CMOS image sensor
	Minimum Illumination	Color : 0.015 lx, BW : 0.006 lx (F1.6, Maximum shutter : Off (1/30s), AGC : 11) BW : 0 lx (F1.6, Maximum shutter : Off (1/30 s), AGC : 11, when the IR LED is lit) 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 <sup>2</sup>	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 (IR Light Off) / On (IR Light On) / Auto1 (IR Light Off) / Auto2 (IR Light On)
	IR LED Light	High / Middle / Low / Off Maximum irradiation distance 100 m (approx. 330 ft)
	Video Motion Detection (VMD)	On / Off, 4 areas available
	Intelligent VMD (i-VMD) <sup>3</sup>	Type6 <sup>6</sup> Bundled License
	Stabilizer <sup>3</sup>	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)	
<b>Lens</b>	Zoom Ratio	22 x Optical zoom (Motorized zoom / Motorized focus)
	Digital (electronic) zoom	16 x
	Focal length	4.25 mm – 95 mm (5/32 inches – 3-3/4 inches)
	Maximum Aperture Ratio	1 : 1.6 (WIDE) – 1 : 3.7 (TELE)
	Focus range	3.0 m (9 ft 10-1/8 inches) – ∞
	Angular Field of view	[16 : 9 mode] Horizontal : 3.4 ° (TELE) – 66 ° (WIDE) Vertical : 2.0 ° (TELE) – 39 ° (WIDE) [4 : 3 mode] Horizontal : 2.6 ° (TELE) – 51 ° (WIDE) Vertical : 2.0 ° (TELE) – 39 ° (WIDE)
	<b>Pan/tilt</b>	Panning Range
Panning Speed		Manual : Approx. 0.065°/s – 150°/s Preset : Up to approx. 300°/s
Tilting Range		Operational range : –30° – +210° Recommended range <sup>4</sup> : 0° – 180°
Tilting Speed		Manual : Approx. 0.065°/s – 150°/s Preset : Up to approx. 300°/s
Preset Positions		256 positions
Auto Mode		Auto track / 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
Camera Control		Pan/Tilt, Zoom, Focus, Auto mode, Brightness, Preset, AUX, Rec. on SD, Log, Viewer software
<b>Browser GUI</b>	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 IF	10Base-T / 100Base-TX, RJ45 connector
<b>Network</b>	Resolution <sup>5</sup>	•[16 : 9] 1920×1080 / 1280×720 / 640×360 / 320×180 •[ 4 : 3] 2048×1536 <sup>6</sup> / 1280×960 / 800×600 / VGA / 400×300 / QVGA *Used by super resolution techniques
	H.265 / H.264 <sup>6</sup> Transmission Mode	Constant bit rate / VBR / Frame rate / Best effort
	H.265 / H.264 <sup>6</sup> Transmission Type	Unicast / Multicast
	JPEG Image Quality	10 steps
	JPEG	10 steps

\*1 Converted value

\*2 When 60 fps is selected, the Super Dynamic function is automatically set to off.

\*3 Stabilizer, Auto track, Smart Facial Coding, i-VMD, can not be used at the same time.

\*4 If it is out of the recommended range, part of the image may be missing.

\*5 H.265/H.264 can be selected for each stream.

\*6 Transmission for 4 streams can be individually set.

<b>Network</b>	Smart Coding	<b>Smart Facial Coding</b> <sup>7</sup> : On(Smart Facial Coding) / On(AUTO VIGS) / Off *Smart Facial Coding is only available with Stream(1). <b>GOP(Group of pictures) control</b> : On(Frame rate control) / On(Advanced) / On(Mid) / On(Low) / Off *On(Frame rate control) and On(Advanced) are only available with H.265.	
	Audio Compression	G.726 (ADPCM) : 16 kbps / 32 kbps, G.711 : 64 kbps, AAC-LC <sup>7</sup> : 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	14 (Number of sessions that can connect to cameras at the same time) *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 <sup>8</sup> , 8 GB <sup>8</sup> , 16 GB <sup>8</sup> , 32 GB <sup>8</sup> , 64 GB <sup>8</sup> , 128 GB <sup>8</sup> , 256 GB <sup>8</sup> model *SDHC card, ** SDXC card (except miniSD card and microSD card)	
	Mobile Terminal Compatibility	iPad / iPhone, Android™ mobile terminals	
	<b>Alarm</b>	Alarm Source	3 terminals input, VMD alarm <sup>8</sup> , 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
	<b>Input/Output</b>	Audio Input	ø3.5 mm stereo mini jack (Audio input is monaural.) Input impedance: Approx. 2 kΩ (unbalanced) (Applicable microphone : Plug-in power type) Supply voltage : 4.0 V ±0.5 V
Audio Output <sup>9</sup>		ø3.5 mm stereo mini jack (Audio output is monaural.) Output impedance : Approx. 600 Ω (unbalanced)	
External I/O Terminals		ALARM IN1(Alarm input 1/ Black & white input/ Auto time adjustment input), ALARM IN2(Alarm input 2/ ALARM OUT), ALARM IN3 (Alarm input 3/ AUX OUT) (x1 for each)	
<b>General</b>	Safety	UL (UL60950-1), c-UL (CSA C22.2 No.60950-1), CE, IEC60950-1	
	EMC	FCC (Part15 ClassA), ICES003 ClassA, EN55032 ClassA, EN55024	
	Power Source and Power Consumption	AC24 V 3.4 A, Approx. 55 W PoE+ (IEEE802.3at compliant): DC 54V 470 mA, Approx. 25 W(Class4 device) Tested POE Injector (60 W) : DC 54V 1.0 A, Approx. 50 W	
	Ambient Operating Temperature	–40 °C to +60 °C (–40 °F to +140 °F) (AC 24 V / Tested PoE injector (60 W))*10 –30 °C to +60 °C (–22 °F to +140 °F) (PoE+ device)*10 {Power On range: –30 °C to +60 °C (–22 °F to +140 °F)}	
	Ambient Operating Humidity	10 to 100 % (no condensation)	
	Water and Dust Resistance	IP66 (IEC60529), Type 4X (UL50E), NEMA 4X compliant	
	Shock Resistance	IK10 (IEC62262)	
	Wind Resistance	up to 40 m/s (approx. 89 mph)	
	Dimensions	Maximum ø249 mm × 465 mm (H)(ø9-13/16 inches × 18-5/16 inches (H))	
	Mass (approx.)	Approx. 8.2kg (18.10 lbs) (including attachment pipe : Approx. 200 g (0.44 lbs) and cable cover.)	
	Finish	Main body : Aluminum die cast, Fine silver Outer fixing screws : Stainless steel (Corrosion-resistant treatment) Front Panel : Polycarbonate resin (with ClearSight coating (rain wash coating)), Clear	

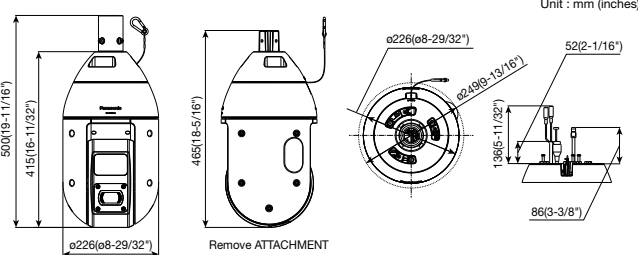
\*7 When recording audio on an SD memory card, only use AAC-LC (Advanced Audio Coding - Low Complexity).

\*8 Including alarms from Plug-in Software

\*9 The audio output can be switched to the monitor output. Refer to the Operating Instructions on the Panasonic support web site for descriptions of how to switch the output.

\*10 When using with the IR LED light constantly lit, the upper limit of the operating temperature range is +45°C (+113 °F).

## Appearance



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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.

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

## Bundled License

### Plug-in Software for i-VMD

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



## Optional Accessories

<b>Ceiling Mount Bracket</b> <b>WV-Q121B</b>	<b>Pole Mount Bracket</b> <b>WV-Q188</b> (Fine silver)	<b>Corner Mount Bracket</b> <b>WV-Q189</b> (Fine silver)	<b>Extension Unit</b> <b>WV-X65F1</b> (Fine silver)
<b>Wall Mount Bracket</b> <b>WV-Q122A</b> (Fine silver)	Different Color Model <b>WV-Q182</b> (Light gray)	Different Color Model <b>WV-Q183</b> (Light gray)	
Different Color Model <b>WV-Q185</b> (Light gray)		(These brackets are used with WV-Q122A or WV-Q185.)	

- The brackets are available in two colors, Fine silver and Light gray.

It is possible to use them in the different color combination.

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