

WV-S6532LN (Full-HD)

-220

EXTREME

# Clear visibility of distant objects even in the dark

The Panasonic WV-S6532LN IR-PTZ camera has a powerful 22x optical zoom with infrared light (LED), plus a built in imaging stabilizer enabling Pan/Tilt 360 degree video surveillance up to 100 m under total darkness. Can monitor subjects at long distance range during daytime and also nighttime under zero lux no lighting environment suitable for perimeter surveillance at airports, critical infrastructure, defense, federal & government, manufacturing facilities, and for general city/road surveillance purposes.

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
- The visible light cut filter makes it possible to focus on subjects even in environments with a mix of infrared and visible light
- 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
- Dehumidification and defrosting with the defroster device
- Environmental durability: IP66, IK10, Long life Pan/Tilt gear mechanism

## Extreme bandwidth compression with new Panasonic H.265 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
- 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, Defroster
- i-VMD License Bundled
- Fiber Optic Media Converter Unit (Optional WV-X65F1)

## **Industry examples**

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





## **Specifications**

Camera	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		1/30 Fix to 1/10000 Fix		
	Super Dynamic*2		*1/30 Fix to 2/120 Fix is available during 30 fps mode only.		
			*1/60 Fix is available during 60 fps mode only. 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}		
		otion Detection (VMD)	On / Off, 4 areas available		
		nt VMD (i-VMD) *3	Type6 *Bundled License		
	Stabilize		On / Off (available only in the 30 fps mode)		
	Privacy Zone		Filling / Pixelate / Off (up to 32 zones available)		
		Title (OSD)	On / Off Up to 20 characters (alphanumeric characters, marks)		
ens	Zoom Ratio		22 x Optical zoom (Motorized zoom / Motorized focus)		
			34x HD Extra Optical Zoom (when resolution is 1280x720)		
	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)		
Pan/tilt	Panning Range		360° Endless panning		
	Panning Speed		Manual : Approx. 0.065°/s – 150°/s Preset : Up to approx. 300°/s		
	Tilting F		Operational range : -30° - +210° Recommended range*4 : 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		
Browser	Camera Control		Pan/Tilt, Zoom, Focus, Auto mode, Brightness, Preset, AUX,		
GUI	Audio		Rec. on SD, Log, Viewer software		
			Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High		
	Audio		Audio Output : On / Off Volume adjustment : Low / Middle / High		
lation of	GUI /Setup Menu Language				
letwork	Network IF		10Base-T / 100Base-TX, RJ45 connector		
	Resolution*5		•[16:9] 1920×1080 / 1280×720 / 640×360 / 320×180		
	H.265/ H.264		•[ 4:3] 2048×1536*/1280×960/800×600/VGA/400×300/QVGA		
			*Used by super resolution techniques		
	JPEG (N	,			
	H.265/	Transmission Mode	Constant bit rate / VBR / Frame rate / Best effort		
	H.265/ H.264 <sup>*6</sup>	,			

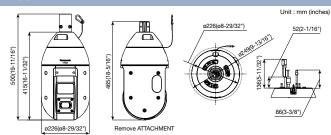
1 Converted value
 \*2 When 60 fps is selected, the Super Dynamic function is automatically set to off.
 \*3 Stabilizer, Auto track, Smart Facial Coding, i-VMD, can not be used at the same time.

4 If it is out of the recommended range, part of the image may be missing.
 5 H.265/H.284 can be selected for each stream.
 6 Transmission for 4 streams can be individually set.
 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.

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letwork	Smart Coding	Smart Facial Coding* : On(Smart Facial Coding)/ On(AUTO VIQS)/ Off		
	-	*Smart Facial Coding is only available with Stream(1).		
		GOP(Group of pictures) control : 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*7 : 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	14 (Number of sessions that can connect to cameras at the same time)		
	access number	*Depends on network conditions		
	SDXC/SDHC/SD	H.265 / H.264 recording:		
	Memory Card (Option)	Manual REC / Alarm REC (Pre/Post) / Schedule REC /		
	wennory dard (option)	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		
Marm	Alarm Source	3 terminals input, VMD alarm <sup>*8</sup> , Command alarm, Audio detection alarm,		
alarm .	Aidin Source	Auto track alarm		
	Alarm Actions	SDXC/SDHC/SD memory recording, E-mail notification,		
	Additions	HTTP alarm notification, Indication on browser, FTP image transfer,		
		Panasonic protocol output		
nput/	Audio Input	ø3.5 mm stereo mini jack (Audio input is monaural.)		
Dutput	Addio Input	Input impedance: Approx. 2 k $\Omega$ (unbalanced)		
Jutput		(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.)		
	Addio Odiput	Output impedance : Approx. 600 Ω (unbalanced)		
	External I/O Terminals	ALARM IN1(Alarm input 1/ Black & white input/ Auto time adjustment input),		
	External i/O Terminals	ALARM IN2(Alarm input 2/ ALARM OUT), ALARM IN3 (Alarm input 3/ AUX OUT) (x1 for each)		
aeneral	Safety	UL (UL60950-1), c-UL (CSA C22.2 No.60950-1), CE, IEC60950-1		
lenerai	EMC	FCC (Part15 ClassA), ICES003 ClassA, EN55032 ClassA, EN55024		
	Power Source and	AC24 V 3.4 A, Approx. 55 W		
	Power Consumption	PoE+ (IEEE802.3at compliant): DC 54V 470 mA, Approx. 25 W(Class4 device)		
	r ower consumption	Tested POE Injector (60 W) : DC 54V 1.0 A, Approx. 50 W		
	Ambient Operating	-40 °C to +60 °C {-40 °F to +140 °F}		
	Temperature	(AC 24 V/ Tested PoE injector (60 W))*10		
	remperature	-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 Shock Resistance	IP66 (IEC60529), Type 4X (UL50E), NEMA 4X compliant 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		

## **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**

#### Fiber Optic Media Converter Unit

Extension Unit	Fiber Optic Media Converter Unit supports long distance optical networks by converting copper RJ45 to fiber.				
(Fine silver)	Basic specifications		Support specifications for SFP module		
	Power source	24 V AC(50 Hz/60 Hz)	SFP Port Type	LC type	
11	Ambient Operating Temperature :	-40 °C to +60 °C{-40 °F to 140 °F}	Ethernet Speed	100/1000 Mbps	
		(Power On range: -30 to +60 {-22 'F to 140 'F})	Supply voltage, current	3.3 V typical, Max. 300 mA	
	Ambient Operating Humidity :	10 % to 100 %(no condensation)	SFP Cage	Standard mini-SFP cage	
· ·	Waterproof	IP66(IEC60529)		(For 6.5 mm pitch SFP)	
0.7.8	Shock resistance	IK10(IEC62262)	*Different Color Model WV-S25F1 (Light grav)		

#### Mount Bracket

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Ceiling Mount Bracket	Wall Mount Bracket	Pole Mount Bracket WV-Q188 (Fine silver)	Corner Mount Bracket WV-Q189 (Fine silver)			
WV-Q121B	(Fine silver) Different Color Model WV-Q185 (Light gray)	Different Color Model WV-Q182 (Light gray)	Different Color Model WV-Q183 (Light gray)			
		(These brackets are used with WV-Q122A or WV-Q185.)	(These brackets are used with WV-Q122A or WV-Q185.)			
<ul> <li>The brackets are available in two colors, Fine silver and Light gray. It is possible to use them in the different color combination.</li> </ul>						

**Panasonic** 

https://security.panasonic.com f http://www.facebook.com/PanasonicNetworkCamera

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