

40x Intelligent Zoom Stabilization iA PTZ Camera with Heavy salt damage resistance

Panasonic WV-X6531NS captures the highest quality images automatically even in very challenging and fast-changing surveillance environments. It has outstanding Intelligent Zoom Stabilization which increases visibility under blurry conditions. Intelligent Auto (iA) allows the camera to automatically adjust the key settings in real-time depending on the scenery and movement, reducing distortion such as motion blur and moving objects. The adopted H.265 Smart Coding technology, intelligently reduces bandwidth efficiency of up to 95%* more than H.264 for longer recording and less storage.

The Anti-salt air corrosion protection ideal for seaside situations. *Value in Advanced mode. It depends on the scene.

Extreme image quality allows evidence to be captured even under challenging conditions

- Long-distance vision with high power 40x zoom lens and Intelligent Zoom Stabilization with gyroscope
- Sharp and clear images of fast moving vehicles with Intelligent Auto and ClearSight Coating
- Outstanding low light performance in true color with low noise for night time applications
- Super Dynamic 144dB for backlit situations involving headlights and shadows on night streets
- Environmental durability: IP66, IK10, long life Pan/Tilt gear mechanism, wide range of operating temperatures up to 60 °C (140 °F) and Dehumidification device

Extreme bandwidth compression with new Panasonic H.265 Smart Coding

- Longer recording and less storage compared to H.264 based compression techniques
- New self-learning ROI* encoding (Auto VIQS) detects movement within the image and compresses the areas with little motion in order to reduce transmitted data while maintaining the quality of the image. *Region of Interest

Extreme Data Security

- Full encryption SD card edge recording to keep your data safe
- FIPS140-2 CAVP compliant *Using encryption module standardized by FIPS publication 140-2
- 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
- Intelligent Zoom Stabilization with 40x optical zoom
- ClearSight Coating
- Durable Pan/Tilt gear mechanism
- iA (intelligent Auto)
- Extreme Super Dynamic 144dB
- Color night vision (0.001 to 0.015 lx)
- Salt-air corrosion resistant
- IP66, IK10 certified
- Wider operating temperature range
-50 °C to +60 °C (-58 °F to +140 °F)
- i-VMD License Bundled

Industry examples

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



Specifications

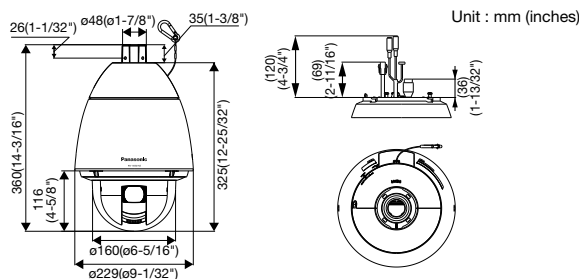
Camera	Image Sensor	Approx. 1/2.8 type MOS image sensor	
	Minimum Illumination	Color : 0.015 lx, BW : 0.006 lx (F1.6, Maximum shutter : Off (1/30s), AGC : 11) Color : 0.001 lx, BW : 0.0004 lx (F1.6, Maximum shutter : max. 16/30s, AGC : 11) ¹	
	Intelligent Auto	On / Off	
	Shutter Speed	1/30 Fix to 1/10000 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	Type4 *Bundled License	
	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	40x Optical 60x HD Extra Optical Zoom (when resolution is 1280x720)
Digital (electronic) zoom		16x	
Focal length		4.25 mm – 170 mm (5/32 inches – 6-11/16 inches)	
Maximum Aperture Ratio		1 : 1.6 (WIDE) – 1 : 4.95 (TELE)	
Focus range		3.0 m (9 ft 10-1/8 inches) – ∞	
Angular Field of view		[16 : 9 mode] Horizontal : 2.1 ° (TELE) – 65 ° (WIDE) Vertical : 1.2 ° (TELE) – 39 ° (WIDE) [4 : 3 mode] Horizontal : 1.6 ° (TELE) – 51 ° (WIDE) Vertical : 1.2 ° (TELE) – 39 ° (WIDE)	
Pan/tilt		Panning Range	360° Endless panning
		Panning Speed	Manual : Approx. 0.065°/s – 120°/s Preset : Up to approx. 300°/s
	Tilting Range	Operational range : -15° – 195° (level – downward – level) Recommended range : 0° – 180° Selectable tilting angle : 10°/5°/3°/0°/4°/-3°/4°/-5°/4°/-10°/4°/-15°/4°	
	Tilting Speed	Manual : Approx. 0.065°/s – 120°/s Preset : Up to approx. 300°/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	10Base-T / 100Base-TX, RJ45 connector
Resolution		*2 mega pixel [16 : 9] (30/60 fps) 1920x1080 / 1280x720 / 640x360 / 320x180	
H.265 / H.264		*3 mega pixel [4 : 3] (30 fps) 2048x1536 / 1280x960 / 800x600 / VGA / 400x300 / QVGA	
JPEG (MJPEG)		*Used by super resolution techniques	
H.265 / H.264 ⁵		Transmission Mode Constant bit rate / VBR / Frame rate / Best effort	
JPEG		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 If "0 °", "-3 °", "-5 °", "-10 °", or "-15 °" is selected, the area hidden by the camera housing may increase when the tilt angle of the camera is almost level. When "-15 °" is selected for "Tilt Angle", the upper half of images will be hidden.

Network	Smart Coding	Smart Facial Coding³ : 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(Mid)/ On(Low)/ Off *On(Advanced) is only available with H.265.
	Audio Compression	G.726 (ADPCM): 16 kbps / 32 kbps G.711 : 64 kbps AAC-LC ⁶ : 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 ⁷ , 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 alarm protocol output
Input/ Output	Audio Input	ø3.5 mm stereo mini jack (monaural input) Input impedance: Approx. 2 kΩ (unbalanced) (Applicable microphone : Plug-in power type) Supply voltage : 4.0 V ±0.5 V
	Audio Output ⁸	ø3.5 mm stereo mini jack (monaural output) 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
General	Safety	UL (UL60950-1), c-UL (CSA C22.2 No.60950-1), CE, IEC60950-1
	EMC	FCC (Part15 ClassA), ICES003 ClassA, EN55032 ClassB, 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 Tested POE Injector (60 W) : DC 54V 1.0 A, Approx. 50 W
	Ambient Operating Temperature	-50 °C to +60 °C (-58 °F to +140 °F) (AC 24 V / Tested PoE injector (60 W)) -30 °C to +60 °C (-22 °F to +140 °F) (PoE+ device) {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 (UL50), NEMA 4X compliant
	Shock Resistance	IK10 (IEC62262)
	Salt damage resistance	ISO14993 compliant
	Dimensions	Maximum ø229 mm x 360 (H) mm (ø9-1/32 inches x 14-3/16 inches (H))
	Mass (approx.)	Approx. 5.2 kg (11.47 lbs)
Finish	Main body : Aluminum die cast with salt resistance painting, Metallic silver Sunshields : ABS+PC resin coating, Natural silver Outer fixing screws : SUS (Corrosion-resistant treatment) Dome cover : Polycarbonate resin (with ClearSight coating (rain wash coating)), Clear	

⁵ Transmission for 4 streams can be individually set.
⁶ When recording audio on an SD memory card, only use AAC-LC (Advanced Audio Coding - Low Complexity).
⁷ Including alarms from Plug-in Software
⁸ The audio output can be switched to the monitor output. Refer to the Operating Instructions on the provided CD-ROM for descriptions of how to switch the output.

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

Mount Bracket

Ceiling Mount Bracket
(Heavy salt damage resistance)
WV-Q121BS



Wall Mount Bracket
(Heavy salt damage resistance)
WV-Q122AS



Make sure to use a mounting bracket with heavy salt damage resistance when installing WV-X6531NS (Heavy salt damage resistance).

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