Panasonic BUSINESS

WV-X6531NS (Full-HD)



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

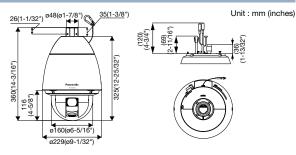
Spec	ations	
Camera	Image Sensor	Approx. 1/2.8 type MOS image sensor
	Minimum Illumination	Color : 0.015 lx, BW : 0.006 lx
		(F1.6, Maximum shutter : Off (1/30s), AGC : 11)
		Color: 0.001 lx, BW: 0.0004 lx
		(F1.6, Maximum shutter: max. 16/30s, AGC: 11) *1
	Intelligent Auto	On / Off
	Shutter Speed	1/30 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	Camera Control	Pan/Tilt, Zoom, Focus, Auto mode, Brightness, Preset, AUX,
GUI		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 /	English, Italian, French, German, Spanish, Portuguese, Russian,
	Setup Menu Language	Chinese, Japanese
Network	Network IF	10Base-T / 100Base-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/ Transmission Mode	Constant bit rate / VBR / Frame rate / Best effort
	H.264*5 Transmission Type	Unicast / Multicast
	JPEG Image Quality	10 steps
	***************************************	i- 6

- *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 into high metime.

 *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",

Appearance

the upper half of images will be hidden.



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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

Smart Facial Coding¹³: On(Smart Facial Coding)/ On(AUTO VIQS)/ Off Network Smart Coding *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 AAC-LC*6 : 64 kbps / 96 kbps / 128 kbps Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) | IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, Audio transmission mode Supported Protocol 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 o 14 users (Depends on network conditions) Maximum concurrent access number SDXC/SDHC/SD H.265 / H.264 recording: Memory Card (Option) 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** mod *SDHC card, ** SDXC card (except miniSD card and microSD card) Mobile Terminal Compatibility iPad / iPhone, Android™ mobile terminals 3 terminals input, VMD alarm*7, Command alarm, Audio detection alarm, Auto track alarm Alarm Alarm Source SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarm notification, Indication on browser, FTP image transfer, Panasonic alarm protocol output ø3.5 mm stereo mini jack (monaural input) Input/ Output Audio 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) 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) UL (UL60950-1), c-UL (CSA C22.2 No.60950-1), CE, IEC60950-1 Safety EMC FCC (Part15 ClassA), ICES003 ClassA, EN55032 ClassB, EN55024 AC24 V 3.4 A, Approx. 55 W Power Source and Power Consumption PoE+ (IEEE802.3at compliant): DC 54V 470 mA, Approx. 25 W Tested POE Injector (60 W): DC 54V 1.0 A, Approx. 50 W -50 °C to +60 °C {-58 °F to +140 °F} (AC 24 V/ Tested PoE injector (60 W)) Ambient Operating Temperature -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) IP66 (IEC60529), Type 4X (UL50), NEMA 4X compliant Water and Dust Resistance Shock Resistance IK10 (IEC62262) ISO14993 compliant Salt damage resistance Dimension Maximum ø229 mm × 360 (H) mm (ø9-1/32 inches × 14-3/16 inches (H)) Mass (approx.) Approx. 5.2 kg {11.47 lbs} Main body : Aluminum die cast with salt resistance painting, Metallic silve : ABS+PC resin coating, Natural silver Sunshields Outer fixing screws : SUS (Corrosion-resistant treatment) Dome cover : Polycarbonate resin

- *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.

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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 WV-Q121BS



Wall Mount Bracket **WV-Q122AS**

(with ClearSight coating (rain wash coating)), Clear



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

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