Panasonic **BUSINESS**



40x Intelligent Zoom Stabilization iA PTZ Camera

Panasonic WV-X6531N captures the highest quality images automatically even in very challenging and fast-changing surveillance environments. Outstanding Intelligent Zoom Stabilization to increase visibility under blur condition. 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 of up to 95%* over H.264 for longer recording and less storage. "Value in Advanced mode. It depends on the scene.

Extreme image quality for evidence capturing under challenging conditions

- Long-distance vision with high power 40x zoom lens and Intelligent Zoom Stabilization for pole mounts on roadways
- 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
- Super Dynamic 144dB for backlit situation by headlights and shadows on the streets at night
- Environmental durability: IP66, IK10, Long life Pan/Tilt gear mechanism, Wide operating temperature up to 60 °C (140 °F) and Dehumidification device

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

Built-in Vehicle Incident Detection*

- Incident detection: Wrong-way, Stopped vehicle with video analytic technology
- Send alarm to Video Management System and/or Traffic Management System for immediate action
- The function is built-in the camera. No additional server is required.



Wrong-way detection *The photo is for illustrative purposes only

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)
- IP66, IK10 certified
- Wider operating temperature range -50 °C to +60 °C (-58 °F to +140 °F)
- Fiber Optic Media Converter Unit (Optional WV-X65F1)

Industry examples

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

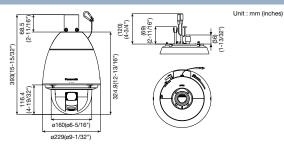


Specifications

Camera	ITICATIONS Image Sensor	Approx. 1/2.8 type MOS image sensor
Camera	Image Sensor Minimum Illumination	11 21
	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
	1.1.11. 1.4.1	(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),
	0 1 (0)11 (10)	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 *optional plug-in software WV-SAE200
	Vehicle Incident Detection*3	
	01 1 11 12	*optional plug-in software WV-XAE100W
	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
	B: :: 1/1	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)
	Panning Range	360° Endless panning
Pan/tilt	Panning Speed	Manual: Approx. 0.065°/s – 120°/s Preset: Up to approx. 300°/s
	Tilting Range	Operational range: –15° – 195° (level – downward – level)
	Titting Harige	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	Carriera Contitor	Rec. on SD, Log, Viewer software
uo.	Audio	Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High
	Addio	Audio Output : On / Off Volume adjustment : Low / Middle / High
	GUI / Setup Menu Language	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese
Network		10Base-T / 100Base-TX, RJ45 connector
INCLWOIR	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)
	or La (Mor La)	2048×1536* / 1280×960 / 800×600 / VGA / 400×300 / QVGA
		*Used by super resolution techniques
	₩ 265/ Transmission Manda	Constant bit rate / VBR / Frame rate / Best effort
	H.264*5 Transmission Type	Unicast / Multicast
	JPEG Image Quality	10 steps
	I JEEG 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, Vehicle Incident Detection can not be used at the same time.
 "4 If "0 o", "-3 o", "-5 o", "-10 o", or "-15 o" 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. "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).
- 77 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.

Smart Facial Coding*3: 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. G.726 (ADPCM): 16 kbps / 32 kbps, G.711: 64 kbps, AAC-LC'6: 64 kbps / 96 kbps / 128 kbps Audio Compression 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 Up to 14 users (Depends on network conditions) H.265 / H.264 recording: Maximum concurrent access number SDXC/SDHC/SD 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** mode SDHC card, ** SDXC card (except miniSD card and microSD card) iPad / iPhone, Android™ mobile terminals 3 terminals input, VMD alarm¹⁷, Command alarm, Audio detection alarm, Auto track alarm Mobile Terminal Compatibility Alarm Alarm Source Alarm Actions SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarm notification, Indication on browser, FTP image transfer, Panasonic protocol output Audio Input ø3.5 mm stereo mini jack (monaural input) Input impedance: Approx. 2 kΩ (unbalanced) Output (Applicable microphone : Plug-in power type) Supply voltage: 4.0 V ±0.5 V ø3.5 mm stereo mini jack (monaural output) Audio Output'8 Output impedance: Approx. 600 Ω (unbalanced) 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) External I/O Terminal Safet UL (UL60950-1), c-UL (CSA C22.2 No.60950-1), CE, IEC60950-1 FCC (Part15 ClassA), ICES003 ClassA, EN55032 ClassB, EN55024 EMC AC24 V 3.4 A, Approx. 55 W PoE+ (IEEE802.3at compliant): DC 54V 470 mA, Approx. 25 W Power Source and Power Consumption Tested POE Injector (60 W) : DC 54V 1.0 A, Approx. 50 W -50 °C to +60 °C {-58 °F to +140 °F} Ambient Operating Temperature (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)} 10 to 100 % (no condensation) Ambient Operating Humidit Water and Dust Resistance IP66 (IEC60529), Type 4X (UL50), NEMA 4X compliant Shock Resistance IK10 (IEC62262) Maximum ø229 mm × 393 (H) mm {ø9-1/32 inches × 15-15/32 inches (H)} Approx. 5.2 kg {11.47 lbs} Mass (approx.) : Aluminum die cast, Natural silver : ABS+PC resin coating, Natural silver Sunshields Outer fixing screws : SUS (Corrosion-resistant treatment) : Polycarbonate resin Dome cover (with ClearSight coating (rain wash coating)), Clear

Optional Software

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

Plug-in Software for Vehicle Incident Detection WV-XAE100W

Camera detects vehicle incidents on the road with video analytics technology.

Target Incident Wrong-way / Stopped vehicle Number of Lanes Max. 4 lanes Detection scene Max. 256 preset positions

Optional Accessories

Fiber Optic Media Converter Unit

Extension Unit WV-X65F1

Fiber Optic Media Converter Unit supports long distance optical networks by converting copper RJ45 to fiber. Rasic specifications



	24 V AC(50 Hz/60 Hz)		
mbient Operating Temperature :	-40 °C to +60 °C{-40 °F to 140 °F}		
	-40 °C to +60 °C{-40 °F to 140 °F} (Power On range: -30 to +60 {-22 °F to 140 °F})		
mbient Operating Humidity:	10 % to 100 %(no condensation)		
/aterproof	IP66(IEC60529)		
hock resistance	IK10(IEC62262)		

Waterproof	IP66(IEC60529)			
Shock resistance	IK10(IEC62262)			
*Refer to website for compatible SFP modules, https://security.pa				

Support specifications for SFP module SFP Port Type 3.3 V typical, Max. Supply voltage, current SFP Cage

(For 6.5 mm pitch SFP) *Different Color Model WV-S25F1 (Light gray) anasonic.com/support/info/ <Control No.: C0504>

(Light gray)

Mount Bracket



Wall Mount Bracket WV-Q122A Different

Color Model WV-Q185 (Light gray)

Pole Mount Bracket WV-Q188 Different

WV-Q182 (Light gray)

(These brackets are used with WV-Q122A or WV-Q185.)

Corner Mount Bracket WV-Q189 Different WV-Q183

(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.

DISTRIBUTED BY:

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

