Panasonic
BUSINESS

WV-S6530N (Full-HD)

i-PRO EXTREME

iA(intelligent Auto) H.265 PTZ Camera

Panasonic WV-S6530N 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. New industry-leading 144dB dynamic range delivers balanced scene exposure in dynamic and extreme-backlit lighting environments. In addition, color night vision provides outstanding low-light performance with accurate color rendition and saturation from i-Pro's 1/3" sensor, rivaling the performance of costlier 1/2" sensor cameras in the market. Adopting H.265 Smart Coding technology, intelligently reduces bandwidth efficiency of up to 95%* over H.264 for longer recording and less storage. Cameras out-of-the-box, support full data encryption streaming and is compliant to FIPS 140-2 Level 1 standards to keep your video secured. *Value in Advanced mode. It depends on the scene.

Extreme image quality for evidence capturing under challenging conditions
- 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 electric dehumidifier

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

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
- 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
  -40°C to +60°C (-40°F to +140°F)
  *When using 24 V AC power supply

Applications

- Safe City
- Parking lot
- Logistics
- Building

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Specifications

Camera	Image Sensor	Approx. 1/2.9 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	Type 4 *optional plug-in software WV-SAE200
	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	21x Optical, 31x with HD Extra Optical Zoom(Resolution 1280×720)
	Digital (electronic) zoom	16x
	Focal length	4.0 mm – 84.6 mm {5/32 inches – 3-11/32 inches}
	Maximum Aperture Ratio	1 : 1.6 (WIDE) – 1 : 4.5 (TELE)
	Focus range	1.5 m {4ft 11-1/16 inches) – ∞
	Angular Field of view	[16 : 9 mode] Horizontal : 3.4 ° (TELE) – 73 ° (WIDE)
		Vertical : 2.0 ° (TELE) – 42 ° (WIDE)
		[4 : 3 mode] Horizontal : 2.9 ° (TELE) – 61 ° (WIDE)
		Vertical : 2.2 ° (TELE) – 46 ° (WIDE)
Pan/tilt	Panning Range	0° – 350°
	Panning Speed	Manual : Approx. 0.5 °/s - 100 °/s Preset : Up to approx. 300°/s
	Tilting Range	Operational range : –30 ° – 90 ° (level – downward)
		Recommended range*4 : 0 ° – 90 °
		Selectable tilting angle : 10 °/ 5 °/ 3 °/ 0 °*5/ –3 °*5/ –5 °*5/ –10 °*5/
		–15 °*5/ –20 °*5/ –25 °*5/ –30 °*5
	Tilting Speed	Manual : Approx. 0.5 °/s - 100 °/s Preset : Up to approx. 100°/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)
	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/ H.264*6 Transmission Mode	Constant bit rate / VBR / Frame rate / Best effort
	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 The recommended range is a guide for the range of angles at which images can be completely viewed.
  If the camera is tilted to an angle higher than in this range, parts of the image may not be able to be viewed.

Network	Smart Coding	Smart Facial Coding*3 : 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(Low)/ On(Mid)/ Off
		* On(Advanced) is 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 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*8, 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
Input/ Output	Audio Input	ø3.5 mm stereo mini jack (stereo input)
		Input impedance: Approx. 2 kΩ (unbalanced)
		(Applicable microphone: Plug-in power type)
		Supply voltage: 4.0 V ±0.5 V
	Audio Output*9	ø3.5 mm stereo mini jack (stereo output)
		Output impedance : Approx. 600 Ω (unbalanced)
	External I/O Terminals	ALARM IN 1 (Black & white input, Auto time adjustment input) (x1),
		ALARM IN 2 (ALARM OUT) (x1), ALARM IN 3 (AUX OUT) (x1)
General	Power Source and Power Consumption	AC24 V(50 Hz/60 Hz), 2.7 A Approx. 43 W
		PoE+ (IEEE802.3at) DC 54 V 430 mA, Approx. 22 W(Class4 device)
	Ambient Operating Temperature	-40 °C to +60 °C {-40 °F to +140 °F} (AC 24 V)
		-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 4 (UL50), NEMA 4 compliant
	Shock Resistance	IK10 (IEC62262)
	Dimensions	Maximum ø229 mm × 393 (H) mm{ø9-1/32 inches × 15-15/32 inches (H)}
	Mass (approx.)	Approx. 4.8 kg {10.58 lbs} (including attachment pipe: Approx. 200g {0.44 lbs})
	Finish	Main body : Aluminum die cast, Natural 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 The area hidden by the camera housing may increase when the tilt angle of the camera is horizontal or larger.
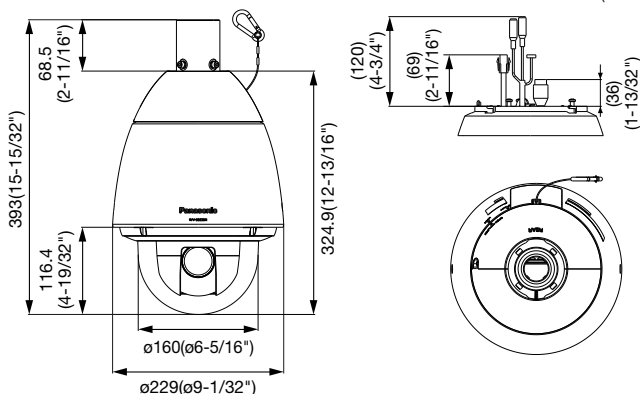*6 Transmission for 4 streams can be individually set.
*7 Only use AAC-LC (Advanced Audio Coding - Low Complexity) when recording audio on an SD memory card.
*8 Including alarms from Plug-in Software
*9 The audio output can be switched to the monitor output. Refer to the Operating Instructions on the provided
  CD-ROM for descriptions of how to switch the output.

Appearance

Unit : mm (inches)

Optional Accessories

* This catalog is provided for all over the world. Some accessories may not be available in some countries.

Ceiling Mount Bracket WV-Q121B

Wall Mount Bracket WV-Q122A

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

Notification sent to the monitoring screen

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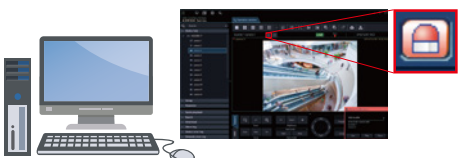– iPad and iPhone are registered trademarks of Apple Inc.
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Important
– Safety Precaution : Carefully read the Important Information, Installation Guide and operating instructions
  before using this product.
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  other manufacturers' products used on the network.

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

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