i-PRO

WV-S6530N 2MP (1080p)

2MP (1080p) PTZ Network Camera

The 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. By 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, use an encryption module standardized by FIPS Publication 140-2 for secure video streaming. *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 Dehumidification device

Extreme bandwidth compression with new 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
- 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
- 2MP (1080p) 1920x1080 up to 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
- i-VMD License Bundled
- Fiber Optic Media Converter Unit (Optional WV-X65F1)
- ONVIF® Profile G / S / T
  *ONVIF is a trademark of ONVIF, Inc.

Industry examples
- Safe Cities
- Parking lot
- Logistics
- Building

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	Max.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 *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	21x Optical
		31x HD Extra Optical Zoom (when resolution is 1280x720)
	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 H.265/ H.264 JPEG (MJPEG)	•2 mega pixel [16 : 9] (30/60 fps) 1920×1080 / 1280×720 / 640×360 / 320×180 •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
	H.264[*6] Transmission Type	Unicast / Multicast
	JPEG Image Quality	10 steps

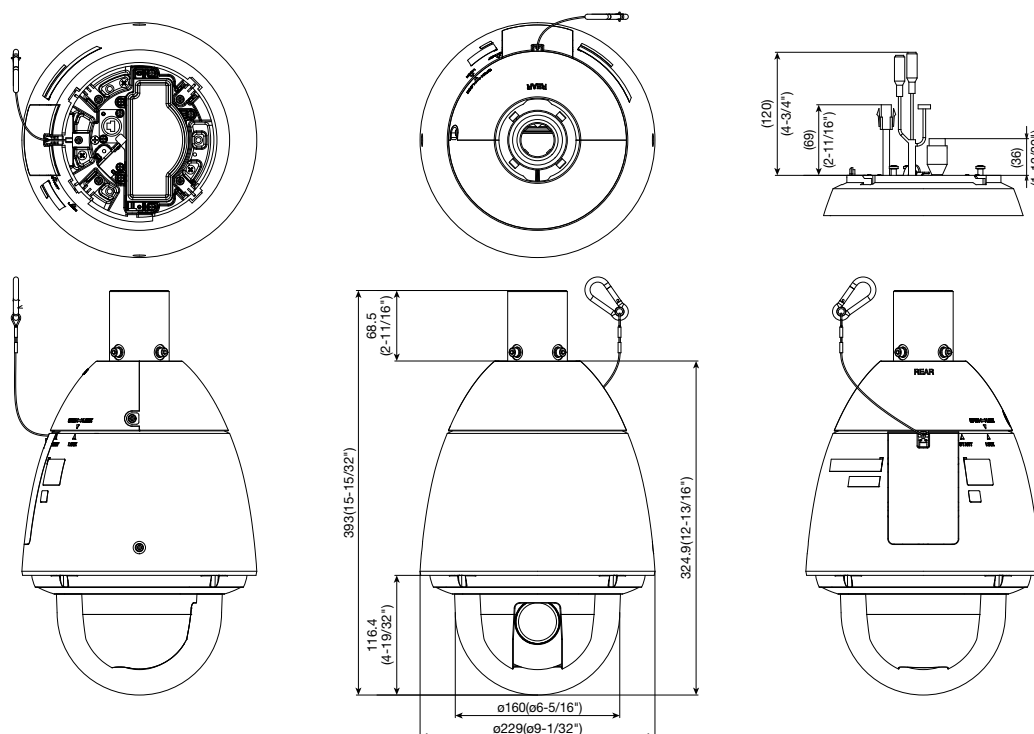| Network	Smart Coding	Smart Facial Coding[*3] : On(Smart Facial Coding)/ On(AUTO VIQS)/ Off *Smart Facial Coding is only available with Stream(1).
		GOP(Group of pictures) control : On(Advanced)*/ On(Mid)/ On(Low)/ Off *On(Advanced) is only available with H.265.
	Audio Compression	G.726 (ADPCM) : 16 kbps / 32 kbps, G.711 : 64 kbps, AAC-LC[*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, SRTP*[8], MQTT*[8], LLDP*[8]
		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, SRTP*[8], MQTT*[8], LLDP*[8]
	Maximum concurrent access number	Up to 14 users (Depends on network conditions)
	SDXC/SDHC/SD Memory Card	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™ terminals
	ONVIF® Profile	G / S / T
Alarm	Alarm Source	3 terminals input, VMD alarm*[9], 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, TCP alarm notification 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*[10]	ø3.5 mm stereo mini jack (stereo 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(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)
	Dehumidification Device	Rosahl element
	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), Clear

*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.
*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 When recording audio on an SD memory card, only use AAC-LC (Advanced Audio Coding - Low Complexity).
*8 It may be necessary to upgrade the firmware to use these protocols
*9 Including alarms from Plug-in Software
*10 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.
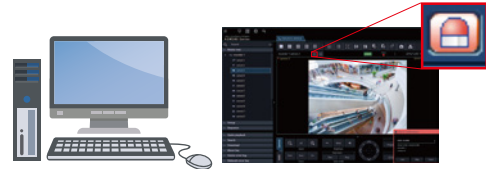
Appearance

Unit : mm (inches)

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

Notification sent to the monitoring screen

Optional Accessories

▉ Fiber Optic Media Converter Unit

Extension Unit
WV-X65F1
(Fine silver)

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

• Basic specifications

Power source	24 V AC(50 Hz/60 Hz)
Ambient Operating Temperature :	−40 ℃ to +60 ℃{−40 ℉ to 140 ℉} (Power On range: −30 to +60 {−22 ℉ to 140 ℉})
Ambient Operating Humidity :	10 % to 100 %(no condensation)
Waterproof	IP66(IEC60529)
Shock resistance	IK10(IEC62262)

*Refer to website for compatible SFP modules. https://i-pro.com/global/en/surveillance/training-support/support/technical-information <Control No. : C0504>

• Support specifications for SFP module

SFP Port Type	LC type
Ethernet Speed	100/1000 Mbps
Supply voltage, current	3.3 V typical, Max. 300 mA
SFP Cage	Standard mini-SFP cage (For 6.5 mm pitch SFP)

*Different Color Model WV-S25F1 (Light gray)

▉ Mount Bracket / Other

Ceiling surface mount bracket **WV-QCL500-S** (Silver)	Ceiling Mount Bracket **WV-Q121B** (Fine silver)	Wall Mount Bracket **WV-Q122A** (Fine silver)	Pole Mount Bracket **WV-Q188** (Fine silver)	Corner Mount Bracket **WV-Q189** (Fine silver)
			(This bracket requires WV-Q122A.)	(This bracket requires WV-Q122A.)

•Brackets are available in four colors, Fine silver, Light gray, Gray and i-PRO white. It is possible to use them in different color combinations.

Important
– Safety Precautions : Carefully read the Basic Information, Installation Guide and
  Operating Instructions before using this product.
– i-PRO Co., Ltd. cannot be held responsible for the performance
  of the network and/or other manufacturers' products used on the network.

Trademarks and registered trademarks
– iPad and iPhone are trademarks of Apple Inc., registered in the U.S. and other countries.
– Android is a trademark of Google LLC.
– ONVIF is a trademark of ONVIF, Inc.
– All other trademarks identified herein are the property of their respective owners.

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

⋮⋮i-PRO
The Power of Truth

i-PRO Co., Ltd.
https://i-pro.com/

(2A-195GA)