

WV-X6533LN 2MP (1080p)

2MP (1080p) 40x IR PTZ Network Camera

The WV-X6533LN IR-PTZ camera has a powerful 40x optical zoom with infrared light (LED), plus a built in imaging stabilizer enabling Pan/Tilt 360 degree video surveillance up to 350 m under total darkness. Can monitor subjects at long distance range during daytime and also nighttime under zero lux no lighting environment suitable for perimeter surveillance at airports, critical infrastructure, defense, federal & government, manufacturing facilities, and for general city/road surveillance purposes.

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. By adopting H.265 Smart Coding technology, intelligently reduces bandwidth efficiency up to 95%* more than conventional H.264 for longer recording and less storage.

*Value in Advanced mode with Smart Facial Coding depends on scene.

Extreme image quality for evidence capturing under challenging conditions

- Built-in IR LED to produce a clear monochrome image in 0 lux conditions with 350 m (1150 feet) irradiation distance
- The visible light cut filter makes it possible to focus on subjects even in environments with a mix of infrared and visible light
- Long-distance vision with high power 40x zoom lens and Intelligent Zoom Stabilization with gyroscope
- 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
- Dehumidification and defrosting with the defroster device
- Environmental durability: IP66, IK10, Long life Pan/Tilt gear mechanism

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
- Long distance IR illumination
- Intelligent Zoom Stabilization with 40x optical zoom
- ClearSight Coating
- Durable Pan/Tilt gear mechanism
- iA (intelligent Auto)
- Color night vision (0.001 to 0.015 lx)
- IP66, IK10 certified, Defroster
- 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

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



Specifications

Spec	effications		
Camera		Approx. 1/2.8 type CMOS image sensor	
	Minimum Illumination	Color: 0.015 lx, BW: 0.006 lx	
		(F1.6, Maximum shutter : Off (1/30s), AGC : 11)	
		BW: 0 lx	
		(F1.6, Maximum shutter: Off (1/30 s), AGC: 11, when the IR LED is lit)	
		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	
	Onation opera	*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 (IR Light Off) / On (IR Light On) / Auto1 (IR Light Off) / Auto2 (IR Light On)	
	IR LED Light	High / Middle / Low / Off Maximum irradiation distance	
		350 m (approx. 1150 ft)(AC 24 V/ Tested PoE injector)	
		150 m (approx. 500 ft)(PoE+ device)	
	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	40 x Optical zoom (Motorized zoom / Motorized focus)	
Lens	Zoom natio	60x HD Extra Optical Zoom (when resolution is 1280x720)	
	Digital (electronic) zoom	16 x	
	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 : 1.9 ° (TELE) – 66 ° (WIDE)	
	· · · g = · · · · · · · · · ·	Vertical : 1.1 ° (TELE) – 39 ° (WIDE)	
		[4 : 3 mode] Horizontal : 1.4 ° (TELE) – 51 ° (WIDE)	
		Vertical : 1.1 ° (TELE) = 39 ° (WIDE)	
D (11)	Donning Dongs	360° Endless panning	
Pan/tilt	Panning Range		
	Panning Speed	Manual: Approx. 0.065°/s - 150°/s Preset: Up to approx. 300°/s	
	Tilting Range	Operational range : -30° - +210° Recommended range*4 : 0° - 180°	
	Tilting Speed	Manual: Approx. 0.065°/s – 150°/s Preset: Up to approx. 300°/s	
	Preset Positions	256 positions	
	Auto Mode	Auto track / 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 / Setup Menu Language	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese	
Network	Network IF	10Base-T / 100Base-TX, RJ45 connector	
Network	Resolution*5	•[16:9] 1920×1080 / 1280×720 / 640×360 / 320×180	
Network			
Network		• [4 · 3] 2048×1536* / 1280×960 / 800×600 / VGA / 400×300 / OVGA	
Network	H.265/ H.264	•[4:3] 2048×1536* / 1280×960 / 800×600 / VGA / 400×300 / QVGA	
Network	H.265/ H.264 JPEG (MJPEG)	*Used by super resolution techniques	
Network	H.265/ H.264 JPEG (MJPEG) H.265/ Transmission Mode	*Used by super resolution techniques Constant bit rate / VBR / Frame rate / Best effort	
Network	H.265/ H.264 JPEG (MJPEG)	*Used by super resolution techniques	

- *1 Converted value

- *1 Converted value

 *2 When 60 fps is selected, the Super Dynamic function is automatically set to off.

 *3 Stabilizer, Auto track, Smart Facial Coding, i-VMD, can not be used at the same time.

 *4 if it is out of the recommended range, part of the image may be missing.

 *5 H.265/H.264 can be selected for each stream.

 *6 Transmission for 4 streams can be individually set.

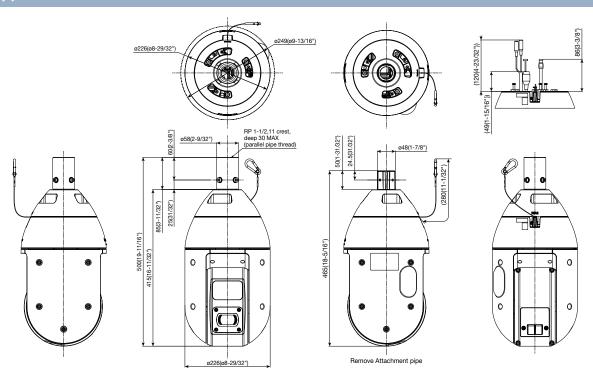
 *7 When recording audio on an SD memory card, only use AAC-LC (Advanced Audio Coding Low Complexity).

Network	Smart Coding	Smart Facial Coding* : On(Smart Facial Coding)/ On(AUTO VIQS)/ Off	
		*Smart Facial Coding is only available with Stream(1).	
		GOP(Group of pictures) control : On(Frame rate control)*/ On(Advanced)*/ On(Mid.)/ On(Low)/ Off	
		*On(Frame rate control) and On(Advanced) are 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,	
	Capported Frederic	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	14 (Number of sessions that can connect to cameras at the same time)	
		,	
	access number	*Depends on network conditions	
	SDXC/SDHC/SD	H.265 / H.264 recording:	
	Memory Card	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/	Audio Input	ø3.5 mm stereo mini jack (Audio input is monaural.)	
Output		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 (Audio output is monaural.)	
		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	
Gonorai	EMC	FCC (Part15 ClassA), ICES003 ClassA, EN55032 ClassA, EN55024	
	Power Source and	AC24 V 3.4 A, Approx. 55 W	
	Power Consumption	PoE+ (IEEE802.3at compliant): DC 54V 470 mA, Approx. 25 W(Class4 device)	
	Power Consumption	Tested POE Injector (60 W): DC 54V 1.0 A, Approx. 50 W	
	Ambient Operating	-50 °C to +60 °C {-58 °F to +140 °F}	
	Ambient Operating		
	Temperature	(AC 24 V/ Tested PoE injector (60 W))*11	
		-30 °C to +60 °C {-22 °F to +140 °F} (PoE+ device)*11	
		{Power On range: -30 °C to +60 °C (-22 °F to +140 °F)}	
	Ambient Operating Humidity	10 to 100 % (no condensation)	
	Dehumidification Device	Temish element+Fan/Heater	
	Water and Dust Resistance	IP66 (IEC60529), Type 4X (UL50E), NEMA 4X compliant	
	Shock Resistance	IK10 (IEC62262)	
	Wind Resistance	Up to 40 m/s {approx. 89 mph}	
	Dimensions	Maximum ø249 mm × 465 mm (H){ø9-13/16 inches × 18-5/16 inches (H)}	
	Mass (approx.)	Approx. 8.2 kg {18.10 lbs}	
		(including attachment pipe : Approx. 200 g {0.44 lbs} and cable cover.)	
	Finish	Main body : Aluminum die cast, Fine silver	
		Outer fixing screws : Stainless steel (Corrosion-resistant treatment)	
		Front Panel : Polycarbonate resin(with ClearSight coating),	

- *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
 i-PRO support web site for descriptions of how to switch the output.
 *11 When using with the IR LED light constantly lit, the upper limit of the operating temperature range is +45°C (+113 °F).

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

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

Basic specifications

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Power source	24 V AC(50 Hz/60 Hz)	
Ambient Operating Temperature :	-40 °C to +60 °C{-40 °F to 140 °F} (Power On range: -30 to +60 {-22 °F to 140 °F})	
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











•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.

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