

WV-X6533LN (Full-HD)

Full HD 40x IR PTZ Network Camera

The Panasonic 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 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

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 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

Industry examples

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



:::·PRO

Specifications

Camera	Image Sensor	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
		*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),
	lindge compensation	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
	In LED Light	350 m {approx. 1150 ft}(AC 24 V/ Tested PoE injector)
		150 m {approx. 1150 h}(AC 24 W Tested FOE injector)
	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)
		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)
		Vertical : 1.1 ° (TELE) – 39 ° (WIDE)
		[4 : 3 mode] Horizontal : 1.4 ° (TELE) – 51 ° (WIDE)
		Vertical : 1.1 ° (TELE) – 39 ° (WIDE)
Pan/tilt	Panning Range	360° Endless panning
	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
	Addio	Audio Output : On / Off Volume adjustment : Low / Middle / High
		Audio Output : On / Off Volume adjustment : Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese
Network	GUI / Setup Menu Language	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese
Network	GUI / Setup Menu Language Network IF	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese 10Base-T / 100Base-TX, RJ45 connector
Network	GUI / Setup Menu Language Network IF Resolution *5	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese 10Base-T / 100Base-TX, RJ45 connector •[16:9] 1920×1080 / 1280×720 / 640×360 / 320×180
Network	GUI / Setup Menu Language Network IF Resolution ^{*5} H.265/ H.264	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese 10Base-T / 100Base-TX, RJ45 connector •[16:9]1920x1080 / 1280x720 / 640x380 / 320x180 •[16:3]2040x1536* / 1280x960 / 800x600 / VGA / 400x300 / QVGA
Network	GUI / Setup Menu Language Network IF Resolution ¹⁵ H.265/ H.264 JPEG (MJPEG)	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese 10Base-T / 100Base-TX, RJ45 connector •[16:9] 1920×1080 / 1280×720 / 640×360 / 320×180 •[4:3] 2048×1536* / 1280×960 / 800×600 / VGA / 400×300 / QVGA *Used by super resolution techniques
Network	GUI / Setup Menu Language Network IF Resolution ¹⁵ H.265/ H.264 JPEG (MJPEG) H.265/ Transmission Mode	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese 10Base-T / 100Base-TX, RJ45 connector •[16:9] 1920×1080 / 1280×720 / 640×360 / 320×180 •[4 : 3] 2048×1536* / 1280×960 / 800×600 / VGA / 400×300 / QVGA *Used by super resolution techniques Constant bit rate / VBR / Frame rate / Best effort
Network	GUI / Setup Menu Language Network IF Resolution ^{*5} H.265/ H.264 JPEG (MJPEG) H.265/ Transmission Mode H.264*0 Transmission Type	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese 10Base-T / 100Base-TX, RJ45 connector •[16:9] 1920x1080 / 1280x720 / 640x360 / 320x180 •[16:9] 1920x1080 / 1280x960 / 800x600 / VGA / 400x300 / QVGA *Used by super resolution techniques Constant bir rate / VBR / Frame rate / Best effort Unicast / Multicast
	GUI / Setup Menu Language Network IF Resolution ⁷⁵ H.265/ H.264 JPEG (MJPEG) H.265/ Transmission Mode H.264 ⁶ Transmission Type JPEG Image Quality	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese 10Base-T / 100Base-TX, RJ45 connector •[16:9] 1920×1080 / 1280×720 / 640×360 / 320×180 •[4 : 3] 2048×1536* / 1280×960 / 800×600 / VGA / 400×300 / QVGA *Used by super resolution techniques Constant bit rate / VBR / Frame rate / Best effort
1 Conver	GUI / Setup Menu Language Network IF Resolution ¹⁵ H.265/ H.264 JPEG (MJPEG) H.264 ¹ Transmission Mode H.264 ¹ Transmission Type JPEG Image Quality ted value	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese 10Base-T / 100Base-TX, RJ45 connector •[16:9] 1920×1080 / 1280×720 / 640×360 / 320×180 •[4:3] 2048×1536° / 1280×960 / 800×600 / VGA / 400×300 / QVGA *Used by super resolution techniques Constant bit rate / VBR / Frame rate / Best effort Unicast / Multicast 10 steps
	GUI / Setup Menu Language Network IF Resolution *5 H.265/ H.264 JPEG (MJPEG) H.264*6 Transmission Type JPEG Image Quality ted value 0 fps is selected, the Super i	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese 10Base-T / 100Base-TX, RJ45 connector •[16:9] 1920x1080 / 1280x720 / 640x360 / 320x180 •[16:9] 1920x1080 / 1280x960 / 800x600 / VGA / 400x300 / QVGA •[16:9] 1920x1080 / 1280x960 / 800x600 / VGA / 400x300 / QVGA •Used by super resolution techniques Constant bir rate / VBR / Frame rate / Best effort Unicast / Multicast 10 steps Dynamic function is automatically set to off.
*1 Conver *2 When 6 *3 Stabilize	GUI / Setup Menu Language Network IF Resolution ⁷⁵ H.265/ H.264 JPEG (MJPEG) H.266/ Transmission Mode H.264 ^{r6} Transmission Type JPEG Image Quality ted value 50 fps is selected, the Super I er, Auto track, Smart Facial C	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese 10Base-T / 10DBase-TX, RJ45 connector •[16:9] 1920x1080 / 1280x720 / 640x360 / 320x180 •[4:3] 2048x1536° / 1280x960 / 800x600 / VGA / 400x300 / QVGA *Used by super resolution techniques Constant bit rate / VBR / Frame rate / Best effort Unicast / Multicast 10 steps Dynamic function is automatically set to off. oding, i-VMD, can not be used at the same time.
'1 Conver '2 When 6 '3 Stabilize '4 If it is ou	GUI / Setup Menu Language Network IF Resolution ¹⁵ H.265/ H.264 JPEG (MJPEG) H.264/ Transmission Mode H.264/ Transmission Type JPEG Image Quality ted value 50 fps is selected, the Super er, Auto track, Smart Facial C ut of the recommended range	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese 10Base-T / 100Base-TX, RJ45 connector •[16:9] 1920x1080 / 1280x720 / 640x360 / 320x180 •[16:9] 1920x1080 / 1280x960 / 800x600 / VGA / 400x300 / QVGA *Used by super resolution techniques Constant bir rate / VBR / Frame rate / Best effort Unicast / Multicast 10 steps Dynamic function is automatically set to off. coding, i-VMD, can not be used the same time. , part of the image may be missing.
1 Conver 2 When 6 3 Stabilize 4 If it is ou 5 H.265/H	GUI / Setup Menu Language Network IF Resolution ⁷⁵ H.265/ H.264 JPEG (MJPEG) H.266/ Transmission Mode H.264 ^{r6} Transmission Type JPEG Image Quality ted value 50 fps is selected, the Super I er, Auto track, Smart Facial C	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanes 10Base-T / 100Base-TX, RJ45 connector •[16:9] 1920x1080 / 1280x720 / 640x360 / 320x180 •[14:3] 2048x1536* / 1280x960 / 800x600 / VGA / 400x300 / QVGA *Used by super resolution techniques Constant bit rate / VBR / Frame rate / Best effort Unicast / Multicast 10 steps Dynamic function is automatically set to off. oding, i-VMD, can not be used at the same time. , part of the image may be missing. ch stream.

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, 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	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 (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** 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 ¹⁸ , Command alarm, Audio detection alarm, Auto track alarm
Alarm	Alarm Actions	
	Alarm Actions	SDXC/SDHC/SD memory recording, E-mail notification,
		HTTP alarm notification, Indication on browser, FTP image transfer,
	Audia lanut	Panasonic protocol 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)
	1	Supply voltage : 4.0 V ±0.5 V
	Audio Output ^{*9}	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
	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)
		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}
	Temperature	(AC 24 V/ Tested PoE injector (60 W))*10
		-30 °C to +60 °C {-22 °F to +140 °F} (PoE+ device)*10
		{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}
	mass (approx.)	(including attachment pipe : Approx. 200 g {0.44 lbs} and cable cover.)
	Finish	Main body : Aluminum die cast, Fine silver
	1 11 1311	
		Outer fixing screws : Stainless steel (Corrosion-resistant treatment)
		Front Panel : Polycarbonate resin(with ClearSight coating),
		Clear

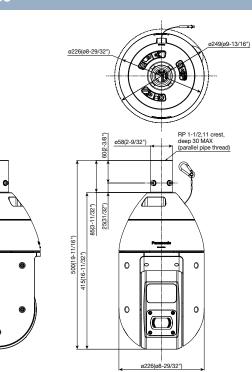
*7 When recording audio on an SD memory card, only use AAC-LC (Advanced Audio Coding - Low Complexity). *10 When using with the IR LED light constantly lit, the upper limit of the operating temperature range is +45°C (+113 °F).

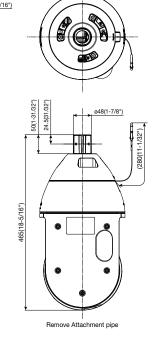
Appearance

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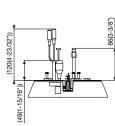
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Unit : mm (inches)

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 Fiber Optic Media Converter Unit supports long distance optical networks by converting copper RJ45 to fiber. WV-X65F1 Basic specifications Support specifications for SFP module Power source 24 V AC(50 Hz/60 Hz) SFP Port Type LC type -40 °C to +60 °C{-40 °F to 140 °F} (Power On range: -30 to +60 {-22 °F to 140 °F}) Ambient Operating Temperature 100/1000 Mbps Ethernet Speed 3.3 V typical, Max. 300 mA Standard mini-SFP cage Ambient Operating Humidity : 10 % to 100 %(no condensation) Supply voltage, current SFP Cage Waterproof IP66(IEC60529) Shock resistance IK10(IEC62262) (For 6.5 mm pitch SFP) *Refer to website for compatible SFP modules. https://security.panasonic.com/support/info/ <Control No. : C0504> *Different Color Model WV-S25F1 (Light gray)

Mount Bracket / Other



•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



- Safety Precaution : Carefully read the Basic 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

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

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