

Long distance IR illumination iA PTZ Camera

Panasonic WV-X6533LN 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 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
- 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
- Environmental durability: IP66, IK10, Long life Pan/Tilt gear mechanism

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

Key Features

- Full-HD 1920x1080 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
- i-VMD License Bundled

Industry examples

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



Specifications

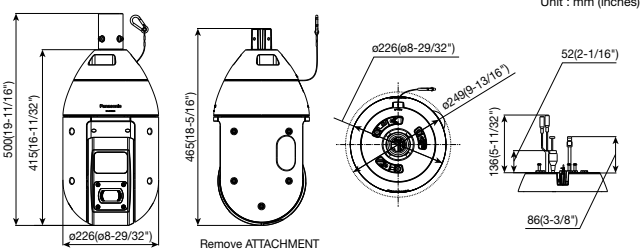
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|--------------------|--------------------------------------|--|
| Camera | Image Sensor | Approx. 1/2.8 type CMOS image sensor |
| | Minimum Illumination | Color : 0.015 lx, BW : 0.006 lx (F1.6, Maximum shutter : Off (1/30s), AGC : 11) BW : 0 lx (F1.6, 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 | 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 | Type6 *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) |
| | 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 |
| 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 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 ⁵ •[16 : 9] 1920×1080 / 1280×720 / 640×360 / 320×180 •[4 : 3] 2048×1536* / 1280×960 / 800×600 / VGA / 400×300 / QVGA JPEG (MJPEG) *Used by super resolution techniques H.265/ Transmission Mode Constant bit rate / VBR / Frame rate / Best effort H.264/ Transmission Type Unicast / Multicast JPEG Image Quality 10 steps |

*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.

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|---------------------------|--|--|--|
| Network | Smart Coding | Smart Facial Coding : On(Smart Facial Coding)/ On(AUTO VIGS)/ 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, RTCP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP, IEEE 802.1X, DiffServ | |
| | Maximum concurrent access number | 14 (Number of sessions that can connect to cameras at the same time) *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 (Audio input is monaural.) 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 (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 Power Consumption | AC24 V 3.4 A, Approx. 55 W 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 Temperature | -50 °C to +60 °C (-58 °F to +140 °F) (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) | |
| | 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 (rain wash coating)), Clear | | |

⁷ When recording audio on an SD memory card, only use AAC-LC (Advanced Audio Coding - Low Complexity).
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 Panasonic support web site for descriptions of how to switch the output.
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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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.

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



Optional Accessories

| | | | |
|---|--|--|---|
| Ceiling Mount Bracket WV-Q121B | Pole Mount Bracket WV-Q188 (Fine silver) | Corner Mount Bracket WV-Q189 (Fine silver) | Extension Unit WV-X65F1 (Fine silver) |
| Wall Mount Bracket WV-Q122A (Fine silver) | Different Color Model WV-Q182 (Light gray) | Different Color Model WV-Q183 (Light gray) | |
| Different Color Model WV-Q185 (Light gray) | | (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.

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