

# WV-X6533LN

2MP (1080p) 40x IR PTZ Network Camera with iA (intelligent Auto)

## i-PRO Extreme H.265 IR-PTZ 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.



- 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)
- NDAA Compliant



# 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)
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	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)	Type4 Bundled License
Stabilizer	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	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 : 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 H.265 / H.264 JPEG (MJPEG)	[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
H.265/H.264	[Transmission Mode] Constant bit rate / VBR / Frame rate / Best effort [Transmission Type] Unicast / Multicast
JPEG	[Image Quality] 10 steps
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 : 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	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 TM mobile terminals
ONVIF® Profile	G / S / T

### Alarm

Alarm Source	3 terminals input, VMD alarm, 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
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Audio Output	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)
<b>General</b>	
Safety	UL (UL60950-1), c-UL (CSA C22.2 No.60950-1), CE, IEC60950-1
EMC	FCC (Part15 ClassA), ICES003 ClassA, EN55032 ClassA, EN55035
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))* -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)} * When using with the IR LED light constantly lit, the upper limit of the operating temperature range is +45°C {+113 °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

## NOTES

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

### Trademarks and registered trademarks

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## OPTIONAL ACCESSORIES

Select a compatible accessory  
[Accessory Selector \(i-pro.com\)](http://i-pro.com).



WV-QCL500-S  
Mount Bracket



WV-QCL101-W  
Mount Bracket



WV-QAT501-S  
Attachment pipe



WV-Q189  
Mount Bracket



WV-Q188  
Mount Bracket



WV-Q122A  
Mount Bracket



WV-Q121B  
Mount Bracket



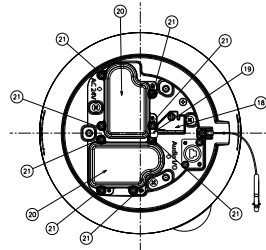
WV-X65F1-W  
Unit



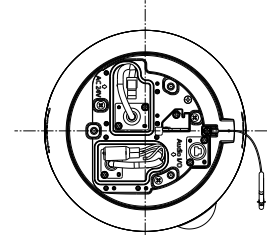
WV-QDC503G  
Dome Cover



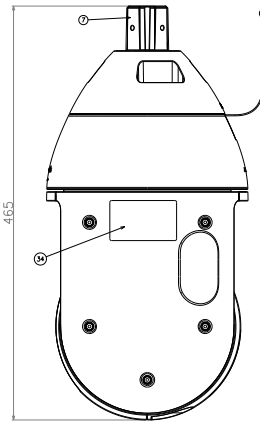
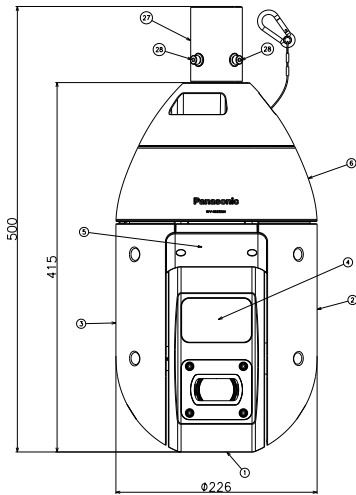
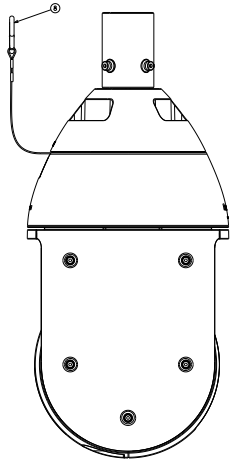
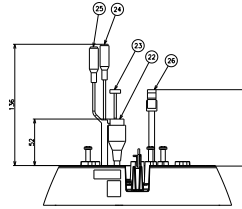
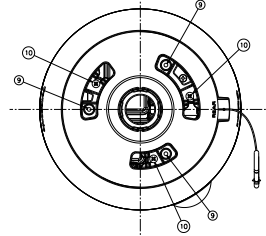
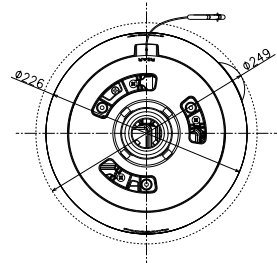
WJ-PU201  
60W Single Port Power  
over Ethernet



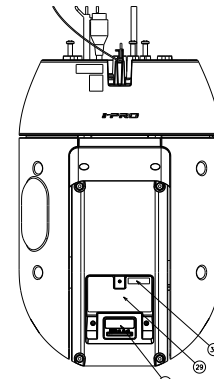
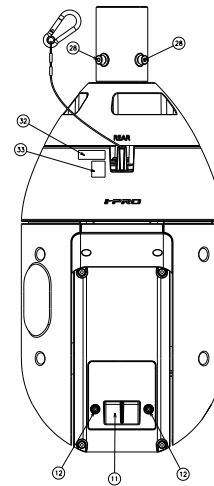
Remove Cable cover



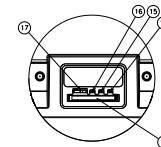
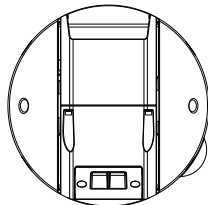
Remove Cable case



Remove ATTACHMENT



Remove SD slot cover / Connect



Remove SD slot cover

No.	Part Name	Material	Process-Remark
1	Camera unit	-	
2	TILT arm unit	-	
3	TILT support arm unit	-	
4	IR LED	-	
5	PAN unit	-	
6	Pedestal unit	-	
7	Connect	Aluminium die cast	
8	Safety wire	Stainless Steel	
9	Pedestal unit fixing screw	Stainless Steel M6 (3pcs)	
10	Mounting guide pin	Steel (3pcs)	
11	SD slot cover	PC+ABS	
12	SD slot cover fixing screw	Stainless Steel M4 (2pcs)	
13	SD slot	-	
14	SD ERROR indicator	-	
15	ACT indicator	-	
16	LINK indicator	-	
17	INITIAL SET button	-	
18	Wire hook	Stainless Steel	
19	Wire stopper	ABS	
20	Cable cover	PC+ABS (2pcs)	
21	Cable cover fixing screw	Stainless Steel M4 (8pcs)	
22	RJ45 Network cable	-	
23	Alarm I/O cable	-	
24	Audio output cable (black)	-	Black
25	Audio input cable (white)	-	White
26	Power cable (AC 24V)	-	
27	Attachment pipe	Aluminium die cast	
28	Bracket fixing screw	Stainless Steel M6 (4pcs)	
29	Name plate	Polyester Film	Printing
30	Serial barcode label	Polyester Film	Printing
31	SD slot label	Polyester Film	Printing
32	Code label	Polyester Film	Printing
33	Data matrix label	Polyester Film	Printing
34	IR caution label	Polyester Film	Printing

Projection/Projected area	
Top-view	0.041(w)
Side-view	0.083(w)