

## WV-S66300-Z4LN

2MP Outdoor 40x PTZ Network Camera with AI engine

### Rapid PTZ camera with AI engine and IR-LED



- 2MP 40x PTZ camera
- Innovative New Form Factor PTZ
- Up to 2 Edge AI analytic apps
- AI auto tracking
- Built-in IR-LED (250 m {Approx. 820 ft} (50IRE))
- High speed Pan/Tilt drive (Pan: 700deg./s, Tilt: 500deg./s)
- IP66, IK10 certified
- Built-in FIPS 140-2 Level 3 Certified SecureElement (EdgeLock® SE050F NXP® Semiconductors)
- NDAA Compliant
- Support POE+ (IEEE 802.3at compliant)  
Function-limited mode for flexibility and enabling wider installation choices



## SPECIFICATIONS

Camera	
Image Sensor	Approx. 1/2.8 type CMOS image sensor
Scanning Area	5.57 mm (H) x 3.13 mm (V) [7/32 inches (H) x 1/8 inches (V)]
Minimum Illumination	<p>Color : 0.011 lx (50IRE, F1.6, 1/30s, AGC:11)* 0.015 lx (50IRE, F1.6, 1/30s, AGC:11) 0.001 lx (50IRE, F1.6, 16/30s, AGC:11)*</p> <p>BW : 0 lx (50IRE, F1.6, 1/30s, AGC:11, IR LED: On) 0.006 lx (50IRE, F1.6, 1/30s, AGC:11) 0.0004 lx (50IRE, F1.6, 16/30s, AGC:11)*</p> <p>*Converted value</p>
White Balance	ATW1 / ATW2 / AWC
Shutter Speed	[60fps mode] 1/60 Fix to 1/10000 Fix [50fps mode] 1/50 Fix to 1/10000 Fix
Maximum shutter	60 fps/30 fps/15 fps mode: Max.1/4000s to Max.16/30s 50 fps/25 fps/12.5 fps mode: Max.1/4000s to Max.16/25s
Intelligent Auto	On / Off
Super Dynamic	On / Off, The level can be set in the range of 0 to 31.
Dynamic Range	Max.144 dB (Super Dynamic : On, Level 31)
Adaptive Black Stretch	The level can be set in the range of 0 to 255.
Back Light Compensation/ High Light Compensation	BLC (Back light compensation) / HLC (High light compensation) / Off The level can be set in the range of 0 to 31 (only when Super dynamic / Intelligent Auto :Off)
Fog Compensation	On / Off, The level can be set in the range of 0 to 8 (only when Intelligent auto / auto contrast adjust : Off)
Maximum Gain (AGC)	The level can be set in the range of 0 to 11.
Color/BW (ICR)	Off / On (IR Light Off) / On (IR Light On) / Auto1 (IR Light Off) / Auto2 (IR Light On) / Auto3 (SCC)
IR LED Light	High/ Middle/ Low/ Off Maximum irradiation distance: 350 m {Approx. 1150 ft} (50IRE)* 250 m {Approx. 820 ft} (50IRE) *Converted value
Digital Noise Reduction	The level can be set in the range of 0 to 255.
Video Motion Detection (VMD)	On / Off, 4 areas available
Scene Change Detection (SCD)	On / Off, 1 areas available
Audio Detection	On / Off
AI Sound Classification	Gunshot, Yell, Vehicle horn, Glass break
AI Analytics	<p>AI Video Motion Detection, AI Face Detection, AI People Detection, AI Vehicle Detection, AI Non mask Detection (prior to V2.70), AI Occupancy Detection, AI Scene Change Detection</p> <p>For details : <a href="https://i-pro.com/products_and_solutions/en/surveillance/products/analytics-software">https://i-pro.com/products_and_solutions/en/surveillance/products/analytics-software</a> 3rd party applications are also available. <a href="https://i-pro.com/products_and_solutions/en/surveillance/solutions/edge-ai-platform/application-list">https://i-pro.com/products_and_solutions/en/surveillance/solutions/edge-ai-platform/application-list</a></p>
Privacy Zone	On / Off, Up to 32 zones available
VIQS	On / Off, Up to 8 zones available
Image Stabilizer	On / Off (Built-in gyro sensor)
Camera Title (OSD)	On / Off, Up to 40 characters (alphanumeric characters, marks)
Lens	
Optical zoom	40x (Motorized zoom / Motorized Focus)
Extra zoom	Max. 60x (40x-60x when resolution is 1280x720)
Digital (electronic) Zoom	60x - 640x
Focal length	4.25 - 170 mm {5/32 inches - 6-11/16 inches}
Angular Field of View	[16 : 9 mode] Horizontal : 2.0° (TELE) - 65° (WIDE), Vertical : 1.2° (TELE) - 39° (WIDE) (TBD) [ 4 : 3 mode] Horizontal : 1.5° (TELE) - 51° (WIDE), Vertical : 1.2° (TELE) - 39° (WIDE) (TBD)
Maximum Aperture Ratio	1:1.6 (WIDE) - 1:4.95 (TELE)
Focus range	3.0 m {118-1/8 inches} -∞

Aperture range	F1.6 - close
<b>DORI</b>	
Detect (25ppm / 8ppf)	Wide: 60.3 m / 197.8 ft, Tele: 2199.9 m / 7217.6 ft
Observe (62.5ppm / 19ppf)	Wide: 24.1 m / 79.1 ft, Tele: 880.0 m / 2887.1 ft
Recognize (125ppm / 38ppf)	Wide: 12.1 m / 39.6 ft, Tele: 440.0 m / 1443.5 ft
Identify (250ppm / 76ppf)	Wide: 6.0 m / 19.8 ft, Tele: 220.0 m / 721.8 ft
<b>System on Chip (SoC)</b>	
System on Chip (SoC)	Ambarella CV25m
<b>Adjusting Angle</b>	
Adjusting Angle	Horizontal : 360° Endless Panning, TILT : -20° to +90°, Yaw : 0°
<b>Pan /tilt</b>	
Panning Range	360° Endless Panning
Panning Speed	Manual : Approx. 0.065 °/s - 150 °/s (PoE++), Approx. 0.065 °/s - 90 °/s (PoE+) Preset : Up to 700 °/s (PoE++), Up to 90 °/s (PoE+)
Tilting Range	Operational -20° - +90°
Tilting Speed	Manual : Approx. 0.065 °/s - 150 °/s (PoE++), Approx. 0.065 °/s - 90 °/s (PoE+) Preset : Up to 500 °/s (PoE++), Up to 90 °/s (PoE+)
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
Active ClearSight	Yes
<b>Browser GUI</b>	
GUI / Setup Menu Language	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese
Browser *1	Microsoft Edge, Firefox, Google Chrome
<b>Network</b>	
Network IF	10Base-T / 100Base-TX, RJ45 connector
Resolution H.265/ H.264/ JPEG (MJPEG)	[16:9 mode (60fps mode)], [16:9 mode (30fps mode)], [16:9 mode (50fps mode)], [16:9 mode (25fps mode)] 1920x1080, 1280x720, 640x360, 320x180 [4:3 mode (30 fps mode)], [4:3 mode (25 fps mode)] 1280x960, VGA, QVGA [4:3 mode (15 fps mode)], [4:3 mode (12.5 fps mode)] 2048x1536*, 1280x960, VGA, QVGA *Used bu super resolution techniques
H.265/H.264 Transmission Mode/Type *2	[Transmission Mode] Constant bit rate / VBR / Frame rate / Best effort [Transmission Type] Unicast port (AUTO) / Unicast port (MANUAL) / Multicast
JPEG	[Image Quality] 10 steps
Smart Coding	GOP (Group of pictures) control: Off/ Low (Variable GOP 1s-8s) / Mid (Variable GOP 4s-16s) / Advanced(Fixed GOP 60s w/1s key-frame) / Frame rate control (Variable GOP 4s-16s with frame rate control) *Advanced and Frame rate control are only available with H.265. Smart VIQs: On(High)/On(Low)/Off, Smart P-picture control: On/Off
Audio compression method *3	G.726 (ADPCM) : 16 kbps / 32 kbps, G.711 : 64 kbps, AAC-LC*5 : 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, SSL/TLS, SMTP, DNS, NTP, SNMPv1/v2/v3, DHCPv6, RTP, MLD, ICMP, ARP, IEEE 802.1X, DiffServ IPv4 : TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, RTSP, RTP, RTP/RTCP, SMTP, DHCP, DNS, DDNS, NTP, SNMPv1/v2/v3, UPnP, ICMP, ARP, IEEE 802.1X, DiffServ, SRTP, MQTT, NTCIP
No. of Simultaneous Users	Up to 14 users (Depends on network conditions)
Secure	FIPS 140-2 level 3 (NXP® EdgeLock® SEO50F), Device Certificate GlobalSign® pre-installed, HTTPS, User authentication, Digest authentication, Host authentication, IEEE802.1X, System log, Image transmission log, Brute-force protection, Alteration detection, Signed Firmware
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 : microSDXC memory card : 64 GB, 128 GB, 256 GB, 512 GB microSDHC memory card : 4 GB, 8 GB, 16 GB, 32 GB microSD memory card : 2 GB
Mobile Terminal Compatibility	iPad, iPhone (iOS 8.0 or later), Android™ terminals
ONVIF® Profile	G / M / S / T
<b>Alarm</b>	
Alarm Source	3 terminals input, VMD alarm, Command alarm, Audio detection alarm
Alarm Actions	SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarm notification Indication on browser, TCP alarm notification output
<b>Input/Output</b>	

Audio Input *4	Ø3.5 mm stereo mini jack Recommended applicable microphone: Plug-in power type (Sensitivity of microphone:-51dB to -38dB (0 dB=1 V/Pa, 1 kHz)) Input impedance: Approx. 2 kΩ (unbalanced) Supply voltage: 4.0V±0.5V For line input : Input level : Approx. -10 dBV
Audio Output *4	Ø3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600Ω (unbalanced) Output level : -20 dBV
External I/O Terminals *4	ALARM IN 1 (Alarm input 1/ Black & white input/ Auto time adjustment input) (x1) ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1), ALARM IN 3 (Alarm input 3/ AUX OUT) (x1)
Monitor Output	-
<b>General</b>	
Safety	UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1
EMC	FCC (Part15 ClassA), ICES-003 Issue 7 ClassA, EN55032 ClassA, EN55035
Other Standard	NEMA-TS2
Power Source and Power Consumption	[Power Source] PoE++ (IEEE802.3bt compliant), PoE+ (IEEE802.3at compliant) [Power Consumption] [Ambient operating temperature -50 to 65°C ] PoE++DC54V :850 mA/Approx. 45.9 W (Class 6 device) [Ambient operating temperature -20 to 65°C] PoE+DC54V :470 mA/Approx. 25.4 W (Class 4 device)
Ambient Operating Temperature	-50 °C to +60 °C * {-58 °F to +140 °F} (Power On range : -30 °C to +60 °C (-22 °F to +140 °F)) (PoE++ Class 6) -20 °C to +60 °C * {-4 °F to +140 °F} (PoE+ Class 4) Maximum temperature according to NEMA TS 2 (2.2.7) : 74°C(165°F) * When using with the IR LED light constantly lit, the upper limit of the operating temperature range is +50°C (+122 °F).
Ambient Operating Humidity	10 to 100 % (no condensation)
Water and Dust Resistance	IP66, IEC60529 measuring standard compatible, Type 4X(UL50E), NEMA 4X compliant
Shock Resistance	IK10 (IEC 62262)
Wind Resistance	Up to 40 m/s {approx. 89 mph}
Dimensions	Maximum diameter: Ø 167mm × 205 mm (H) { Ø 6-9/16 inches × 8-1/16 inches (H)} Dome radius SR 77.5 mm {SR 3-1/16 inches} (excluding an attachment for the conduit portion and protruding parts)
Mass (approx.)	Approx. 3 kg (without attachment)
Finish	Main body : Aluminum die cast, i-PRO white Outer fixing screws : Stainless steel (Corrosion-resistant treatment) Dome cover: Polycarbonate resin, Clear (with ClearSight coating)
Other	Tamper-resistant enclosure *5

## NOTES

\*1 For information on the operation verification of the web browsers, refer to our support website <Control No.: C0132>.

\*2 Transmission for 4 streams can be individually set.

\*3 When recording audio on an SD memory card, only use AAC-LC (Advanced Audio Coding - Low Complexity) .

\*4 When using with them, WV-QCA501A cable is required.

\*5 Component that has a structure on which the screws that are accessible after installation cannot be screwed or unscrewed using an ordinary screwdriver.

### 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.

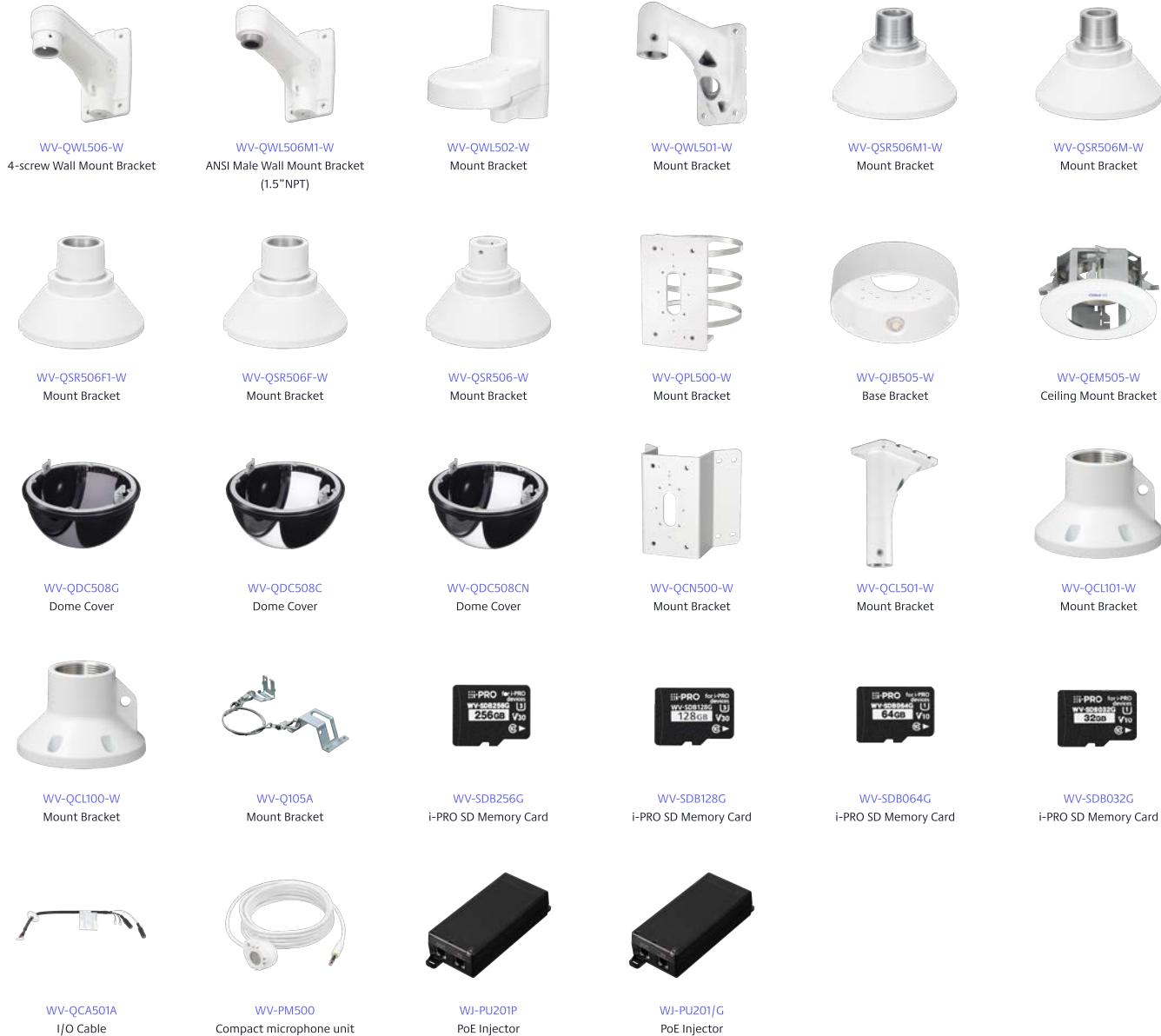
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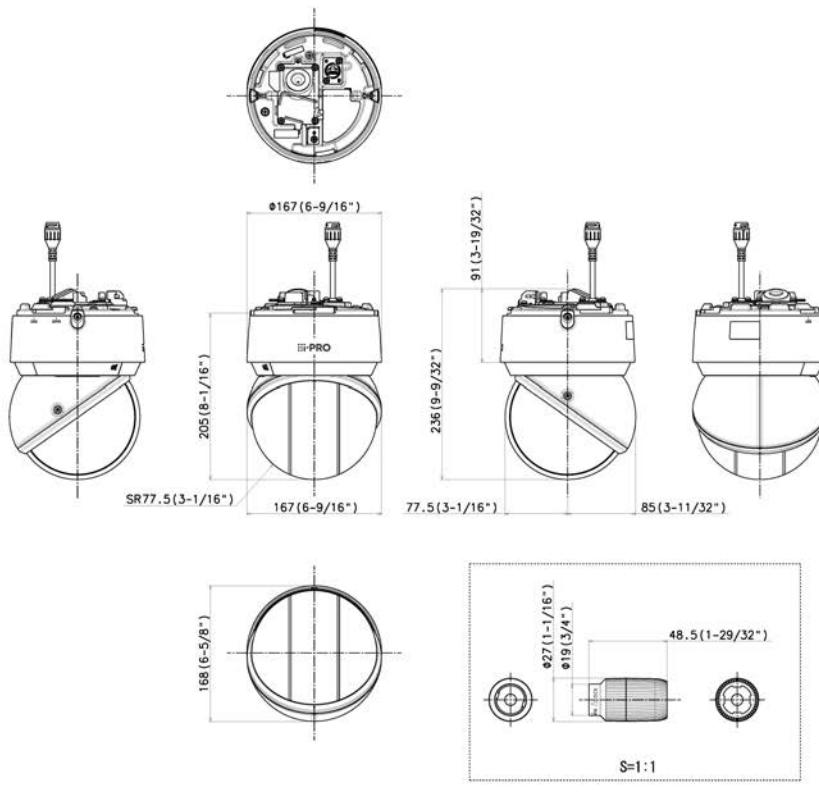
## OPTIONAL ACCESSORIES

Select a compatible accessory

[Accessory Selector \(i-pro.com\).](http://Accessory Selector (i-pro.com).)



## APPEARANCE



Model number	Model number
WV-S66700-Z3L	WV-S66700-Z3LN
WV-S66700-Z3LJ	WV-S66700-Z3LNJ
WV-S66700-Z3	WV-S66700-Z3N
WV-S66700-Z3LV	WV-S66700-Z3LNV
WV-S66700-Z3V	WV-S66700-Z3NV
WV-S66600-Z3L	WV-S66600-Z3LN
WV-S66600-Z3	WV-S66600-Z3N
WV-S66600-Z3LV	WV-S66600-Z3LNV
WV-S66600-Z3V	WV-S66600-Z3NV
WV-S66300-Z4L	WV-S66300-Z4LN
WV-S66300-Z4LJ	WV-S66300-Z4LNJ
WV-S66300-Z4	WV-S66300-Z4N
WV-S66300-Z4LV	WV-S66300-Z4LNV
WV-S66300-Z4V	WV-S66300-Z4NV
WV-S66300-Z3L	WV-S66300-Z3LN
WV-S66300-Z3	WV-S66300-Z3LNJ
WV-S66300-Z3LV	WV-S66300-Z3N
WV-S66300-Z3V	WV-S66300-Z3NV

投影面積/Projected area	
正面圖/Front-view	0.029(m <sup>2</sup> )
側面圖/Side-view	0.029(m <sup>2</sup> )

Mass : Approx. 3 kg [6.62 lbs]

Unit:mm