

# WV-S65300-ZYG

2MP (1080p) 3.1x Outdoor PTZ Network Camera

## S-series PTZ camera with AI Engine

---



- 2MP (1080p) 1920x1080
- 3.1x optical zoom
- Intelligent Auto (with AI Engine)
- Super Dynamic 144dB
- Color night vision (0.002 to 0.03 lx)
- IP66, IK10 certified
- Built-in FIPS 140-2 Level 3 Certified Secure Element (EdgeLock® SE050F NXP® Semiconductors)
- NDAA Compliant

# SPECIFICATIONS

Camera	
Image Sensor	Approx. 1/2.8 type CMOS image sensor
Scanning Area	5.57 mm (H) × 3.13 mm (V) {7/32 inches (H) × 1/8 inches (V)}
Minimum Illumination	Color : 0.02 lx (30IRE, F1.3, 1/30s, AGC:11)* 0.03 lx (50IRE, F1.3, 1/30s, AGC:11) 0.002 lx (50IRE, F1.3, 16/30s, AGC:11)*  BW : 0.012 lx (50IRE, F1.3, 1/30s, AGC:11) 0.0008 lx (50IRE, F1.3, 16/30s, AGC:11)* *Converted value
White Balance	ATW1 / ATW2 / AWC
Shutter Speed	[60 fps Mode] 1/60 Fix to 1/10000 Fix, [30 fps/15 fps mode] 1/30 Fix to 1/10000 Fix [50 fps Mode] 1/50 Fix to 1/10000 Fix, [25 fps/12.5 fps mode] 1/25 Fix to 1/10000 Fix
Maximum Shutter	[60 fps mode] Max. 1/4000 s to Max. 16/30 s [50 fps mode] Max. 1/4000 s to Max. 16/25 s [30 fps mode] Max. 1/4000 s to Max. 16/30 s [25 fps mode] Max. 1/4000 s to Max. 16/25 s [15 fps mode] Max. 1/4000 s to Max. 16/30 s [12.5 fps mode] Max. 1/4000 s to Max. 16/25 s
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 / Auto1 / Auto2 / Auto3 (SCC)
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	AI Video Motion Detection, AI Privacy Guard, AI Face Detection, AI People Detection, AI Vehicle Detection, Non mask Detection (prior to V2.70), AI Occupancy Detection, AI Scene Change Detection  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>
Privacy Zone	On / Off, Up to 32 zones available
VIQS	On / Off, Up to 8 zones available
Camera Title (OSD)	On / Off, Up to 40 characters (alphanumeric characters, marks)
Focus Adjustment	Auto focus
Lens	
Optical zoom	3.1x (Motorized zoom / Motorized Focus)
Extra zoom	Max. 4.6x (3.1 to 4.6x : When resolution is 1280 x 720)
Digital (electronic) Zoom	4.6x - 49.6x
Focal Length	2.9 - 9 mm {1/8 inches - 11/32 inches}
Angular Field of View	[16 : 9 mode] Horizontal : 36° (TELE) – 113° (WIDE), Vertical : 20° (TELE) – 60° (WIDE) [ 4 : 3 mode] Horizontal : 26° (TELE) – 82° (WIDE), Vertical : 20° (TELE) – 60° (WIDE)
Maximum Aperture Ratio	1 : 1.3 (WIDE) – 1 : 2.5 (TELE)
Focus Range	0.3 m {11-13/16 inches} – ∞
DORI	
Detect (25ppm / 8ppf)	Wide: 25.4m / 83.4 ft, Tele: 118.2 m / 387.7 ft
Observe (62.5ppm / 19ppf)	Wide: 10.2 m / 33.4 ft, Tele: 47.3 m / 155.1 ft

Recognize (125ppm / 38ppf)	Wide: 5.1 m / 16.7 ft, Tele: 23.6 m / 77.5 ft
Identify (250ppm / 76ppf)	Wide: 2.5m / 8.3 ft, Tele: 11.8 m / 38.8 ft

System on Chip (SoC)	
System on Chip (SoC)	Ambarella CV25M

Adjusting Angle	
Adjusting Angle	Horizontal : 0 to +350°, Vertical : 0 to +90°, Yaw : 0°

Pan/tilt	
Panning Range	0 – +350°
Panning Speed	Manual: Approx. 0.065°/s – 150°/s Preset: Up to approx. 150°/s
Tilting Range	Operational 0 – +90°
Tilting Speed	Manual: Approx. 0.065°/s –150°/s Preset: Up to approx. 150°/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	Brightness, AUX On / Off
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
Browser	Microsoft Edge, Firefox, Google Chrome

Network	
Network IF	10 Base-T / 100 Base-TX, RJ45 connector
Resolution H.265/ H.264 JPEG (MJPEG)	[16 : 9 mode (60 fps mode)] , [16 : 9 mode (30 fps mode)] , [16 : 9 mode (50 fps mode)] , [16 : 9 mode (25 fps 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
H.265/H.264	[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 Coding: Auto VIQS: On/Off
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, SSL/TLS, SMTP, DNS, NTP, SNMPv1/v2/v3, DHCPv6, RTP, MLD, ICMP, ARP, IEEE 802.1X, DiffServ, SFTP, MQTT, LLDP IPv4 : TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, RTSP, RTP, RTP/RTCP, SMTP, DHCP, DNS, DDNS, NTP, SNMPv1/v2/v3, UPnP, IGMP, ICMP, ARP, IEEE 802.1X, DiffServ, SRTP, SFTP, MQTT, NTPCIP
No. of Simultaneous Users	Up to 14 users (Depends on network conditions)
Secure	FIPS 140-2 level 3 (NXP® EdgeLock® SE050F), 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

Alarm	
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

Input/Output	
--------------	--

Audio Input	<p>ø3.5 mm stereo mini jack  For microphone input : Recommended applicable microphone : Plug-in power type  (Sensitivity of microphone : -51 dB to -38 dB [0 dB=1 V/Pa, 1 kHz])  Input impedance : Approx. 2 kΩ (unbalanced)  Supply voltage : 2.5 V ±0.5 V</p> <p>For line input : Input level : Approx. -10 dBV</p>
Audio Output	<p>ø3.5 mm stereo mini jack (monaural output)  Output impedance : Approx. 600 Ω (unbalanced)  Output level : -20 dBV</p>
External I/O Terminals	<p>ALARM IN 1 (Alarm input 1/ Black &amp; 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)</p>
Monitor Output	<p>Yes (for adjustment)  Φ3.5mm stereo mini jack, NTSC or PAL signal can be output from camera  *WV-QCA501A is required</p>

General	
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
Power Source and Power Consumption	<p>DC12 V, PoE (IEEE802.3af)  DC12 V: 890 mA / Approx. 10.7 W  PoE DC 48 V: 250 mA / Approx.12.0 W (Class 0 device)</p>
Ambient Operating Temperature	<p>-30 °C to +55 °C (-22 °F to +131 °F)  (Power On range : -20 °C to +55 °C [-4 °F to +131 °F])  Maximum temperature according to NEMA TS2(2.2.7) : 74 °C(165°F)</p>
Ambient Operating Humidity	10 to 100 % (no condensation)
Anti-Condensation System	Temish element
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}
Other standard support	NEMA TS2(2.2.7-2.2.9)
Dimensions	ø155 mm x 134 mm (H) {ø6-3/32 inches x 5-9/32 inches (H)}
Mass (Approx.)	Approx. 1.6 kg {3.53 lbs.}
Finish	<p>Main body : Aluminum die cast and polycarbonate resin, i-PRO white  Dome section : Polycarbonate resin, Smoke</p>

## 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

- iPad and iPhone are trademarks of Apple Inc., registered in the U.S. and other countries. - Android is a trademark of Google LLC.
- ONVIF is a trademark of ONVIF, Inc.
- All other trademarks identified herein are the property of their respective owners

©i-PRO Co., Ltd All rights reserved / February 2023

## OPTIONAL ACCESSORIES

Select a compatible accessory

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



WV-QWL506-W  
4-screw Wall Mount Bracket



WV-QWL506M1-W  
ANSI Male Wall Mount Bracket  
(1.5" NPT)



WV-QWL501-W  
Mount Bracket



WV-QWL500-W  
Mount Bracket



WV-QSR501M1-W  
Mount Bracket



WV-QSR501M-W  
Mount Bracket



WV-QSR501F1-W  
Mount Bracket



WV-QSR501F-W  
Mount Bracket



WV-QSR501-W  
Mount Bracket



WV-QPL500-W  
Mount Bracket



WV-QJB504-W  
Base Bracket



WV-QJB501-W  
Base Bracket



WV-QJB500-W  
Mount Bracket



WV-QEM502-W  
Ceiling Mount Bracket



WV-QCN500-W  
Mount Bracket



WV-QCL501-W  
Mount Bracket



WV-QCL101-W  
Mount Bracket



WV-QCL100-W  
Mount Bracket



WV-QCA501A  
I/O Cable



WV-QCA500A  
RJ45 Ethernet Cable



WV-PM500  
Compact microphone unit



WV-CW75N  
Dome cover



WV-CW7S  
Dome cover



WV-CW7CN  
Dome cover



WV-QDC504C  
Dome Cover



WV-SDB256G  
i-PRO SD Memory Card



WV-SDB128G  
i-PRO SD Memory Card



WV-SDB064G  
i-PRO SD Memory Card



WV-SDB032G  
i-PRO SD Memory Card

APPEARANCE

