

WV-S65302-Z2G

2MP (1080p) 21x Outdoor PTZ Network Camera

S-series PTZ camera with AI Engine



- 2MP (1080p) 1920x1080
- 21x optical zoom
- Intelligent Auto (with AI Engine)
- Super Dynamic 144dB
- Color night vision (0.003 to 0.045 lx)
- Durable Pan/Tilt gear mechanism
- 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: 0.045 lx (50IRE, F1.6, 1/30s) Color: 0.003 lx (50IRE, F1.6, 16/30s) BW: 0.017 lx (50IRE, F1.6, 1/30s) BW: 0.0011 lx (50IRE, F1.6, 16/30s)		
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		
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		
Al Sound Classification	Gunshot, Yell, Vehicle horn, Glass break		
Al Analytics	Al Video Motion Detection, Al Privacy Guard, Al Face Detection, Al People Detection, Al Vehicle Detection, Al Non mask Detection, Al Occupancy Detection, Al Scene Change Detection For details: https://i-pro.com/products_and_solutions/en/surveillance/products/analytics-software 3rd party applications are also available. https://i-pro.com/products_and_solutions/en/surveillance/solutions/edge-ai-platform/application-list		
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)		
Focus Adjustment	Auto focus		

Lens			
Optical zoom	21x (Motorized zoom / Motorized Focus)		
Extra zoom	Max. 31x (21 to 31x : When resolution is 1280 x 720)		
Focal Length	4.0 - 84.6 mm {5/32 inches - 3-21/64 inches}		
Angular Field of View	[16:9 mode] Horizontal: 3.7° (TELE) - 77° (WIDE), Vertical: 2.2° (TELE) - 44° (WIDE) [4:3 mode] 'Horizontal: 2.9° (TELE) - 58° (WIDE), Vertical: 2.2° (TELE) - 44° (WIDE)		
Maximum Aperture Ratio	1:1.6 (WIDE) -1:4.5 (TELE)		
Focus Range	1.5 m {50-1/16 inches} – ∞		
DORI			
Detect (25ppm / 8ppf)	Wide: 51.9m / 170.3 ft, Tele: 1293.8 m / 4244.9 ft		
Observe (62.5ppm / 19ppf)	Wide: 20.8 m / 68.1 ft, Tele: 517.5 m / 1697.9 ft		
Recognize (125ppm / 38ppf)	Wide: 10.4 m / 34.1 ft, Tele: 258.8 m / 849.0 ft		
Identify (250ppm / 76ppf)	Wide: 5.2m / 17.0 ft, Tele: 238.6 ft / 444.5 ft		
,, ,, ,, ,,			
System on Chip (SoC)	Ambaralla CVOEM		
System on Chip (SoC)	Ambarella CV25M		
Adjusting Angle			
Adjusting Angle	Horizontal: 360° Endless Panning, Vertical: -15° to +195°, Yaw: 0°		
Pan/tilt			
Panning Range	360° Endless Panning		
Panning Speed	Manual: Approx. 0.065°/s – 150°/s Preset: Up to approx. 500°/s		
Tilting Range	Operational -15 - +195°		
Tilting Speed	Manual: Approx. 0.065°/s -150°/s Preset: Up to approx. 500°/s (PoE+), Up to approx. 350°/s (DC12 V 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		
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, NTCIP		
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 Firmward (V2.50 or later)		
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	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 k Ω (unbalanced) Supply voltage : 2.5 V ±0.5 V For line input : Input level : Approx. –10 dBV		
Audio Output	ø3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 Ω (unbalanced) Output level : –20 dBV		
External I/O Terminals	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	Yes (for adjustment) Φ3.5mm stereo mini jack, NTSC or PAL signal can be output from camera *WV-OCA501A is required		

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	DC12 V, PoE (IEEE802.3af), PoE+ (IEEE802.3at) DC12 V: 1.3 A / Approx.15.6 W PoE DC 48 V: 270 mA / Approx.12.95 W (Class 0 device) PoE+ DC 54 V: 340 mA / Approx18.4 W(Class 4 device)		
Ambient Operating Temperature	-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)		
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	ø165 mm x 153 mm (H) {ø6-1/2 inches x 6-1/32 inches (H)}		
Mass (Approx.)	Approx. 1.7 kg {3.75 lbs.}		
Finish	Main body : Aluminum die cast, Black polycarbonate resin, i-PRO white Outer fixing screws : Stainless steel (Corrosion-resistant treatment) Dome section : Polycarbonate resin, Smoke		

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)



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-QEM504-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-Q105A Mount Bracket



PWM40AW Wall Mount Bracket



PWM25W Gooseneck Wall Mount



PPRM35AW
Parapet Mount Bracket



PAPM4W
Pole Mount Bracket



PACA4W Corner Mount Adapter Bracket



WV-QDC502G Dome Cover

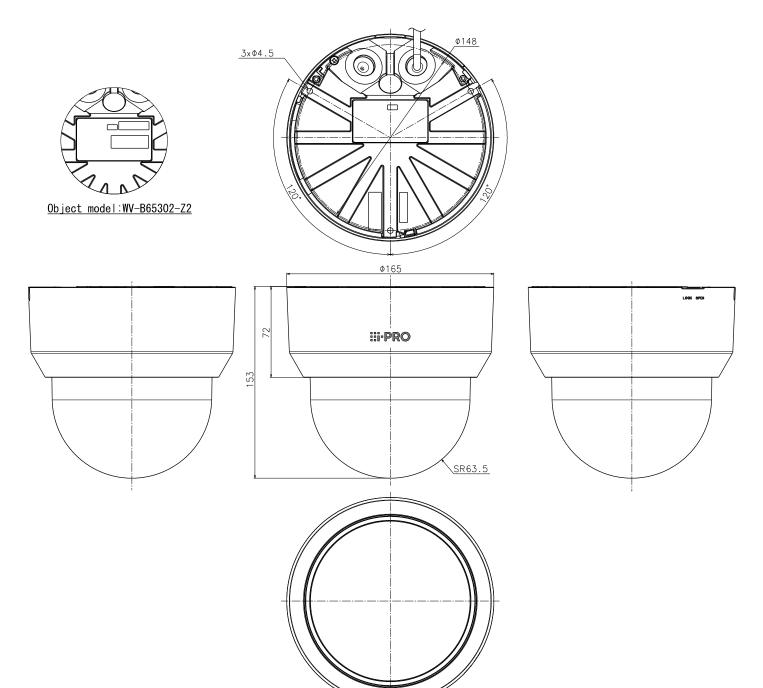


WV-QCA501A I/O Cable



WV-PM500 Compact microphone unit for surveillance

cameras



LISTER OPEN	

Model number	Dome	type	Decorative cover coating
WV-U65302-Z2	Clear	dome	
WV-U65302-Z2G	Smoke	dome	
WV-B65302-Z2	Clear	domo	i-PRO white
WV-S65302-Z2	Grear	uonie	I-FRO WITTLE
WV-S65302-Z2G	Smoke	dome	
WV-S65302-Z2J			
WV-S65302-Z2-1	Clear	dome	Black
WV-S65302-Z2-1J			Diack

	投影面積/Projected area
側面図/Side-view	0. 020 (m ²)

Mass : Approx. 1.4 kg {3.09 lbs}