WV-S65301-Z1S

2MP (1080p) 10x Outdoor PTZ Network Camera with Heavy Salt Damage Resistance

S-series PTZ camera with AI Engine

- 2MP (1080p) 1920x1080
- 10x optical zoom
- Intelligent Auto (with AI Engine)
- Super Dynamic 144dB
- Color night vision (0.001 to 0.015 lx)
- Durable Pan/Tilt gear mechanism
- IP66, IK10 certified
- Heavy salt damage resistance specifications (ISO 14993 compliant)
- Built-in FIPS 140-2 Level 3 Compliant Secure Element
  (EdgeLock® SE050F NXP® Semiconductors)
- NDAA Compliant

Precautions for heavy salt damage resistance

i-PRO

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 : 0.011 lx (30IRE, 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)* BW : 0.006 lx (50IRE, F1.6, 1/30s, AGC:11) 0.0004 lx (50IRE, F1.6, 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, AI Non mask Detection (prior to V2.70), AI Occupancy Detection, AI 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	10x (Motorized zoom / Motorized Focus)
Extra zoom	Max. 15x (10 to 15x : When resolution is 1280 x 720)
Digital (electronic) Zoom	15x - 160x
Focal Length	4.7 - 47 mm {3/16 inches - 1-27/32 inches}
Angular Field of View	[16 : 9 mode] Horizontal : 6.7° (TELE) – 62° (WIDE), Vertical : 3.8° (TELE) – 37° (WIDE) [4 : 3 mode] Horizontal : 5.1° (TELE) - 48° (WIDE), Vertical : 3.8° (TELE) - 37° (WIDE)
Maximum Aperture Ratio	1 : 1.6 (WIDE) – 1 : 3.0 (TELE)
Focus Range	1.5 m {59-1/16 inches} – ∞

DORI	
Detect (25ppm / 8ppf)	Wide: 64.2m / 210.5 ft, Tele: 656.0 m / 2152.3 ft
Observe (62.5ppm / 19ppf)	Wide: 25.7 m / 84.2 ft, Tele: 262.4 m / 860.9 ft
Recognize (125ppm / 38ppf)	Wide: 12.8 m / 42.1 ft, Tele: 131.2 m / 430.5 ft
Identify (250ppm / 76ppf)	Wide: 6.4m / 21.1 ft, Tele: 65.6 m / 215.2 ft

System on Chip (SoC)	
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 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	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 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-QCA501A is required

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	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 139 mm (H) {ø6-1/2 inches x 5-15/32 inches (H)}
Mass (Approx.)	Approx. 1.6 kg {3.53 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, Clear
Others	WV-S65301-Z1S : Heavy salt damage resistance specifications (ISO 14993 compliant)

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.
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OPTIONAL ACCESSORIES

Select a compatible accessory
[Accessory Selector (i-pro.com)]

WV-QWL506S-W
4-screw Wall Mount Bracket (Salt resistant)

WV-QWL501S-W
Wall Mount Bracket

WV-QSR501S-W
Mount Bracket

WV-QPL500S-W
Mount Bracket

WV-QCN500S-W
Mount Bracket

WV-QCL501S-W
Ceiling Mount Bracket

WV-QDC502G
Dome Cover

WV-PM500
Compact microphone unit

WV-QDC502C
Dome Cover

WV-QCA501A
I/O Cable

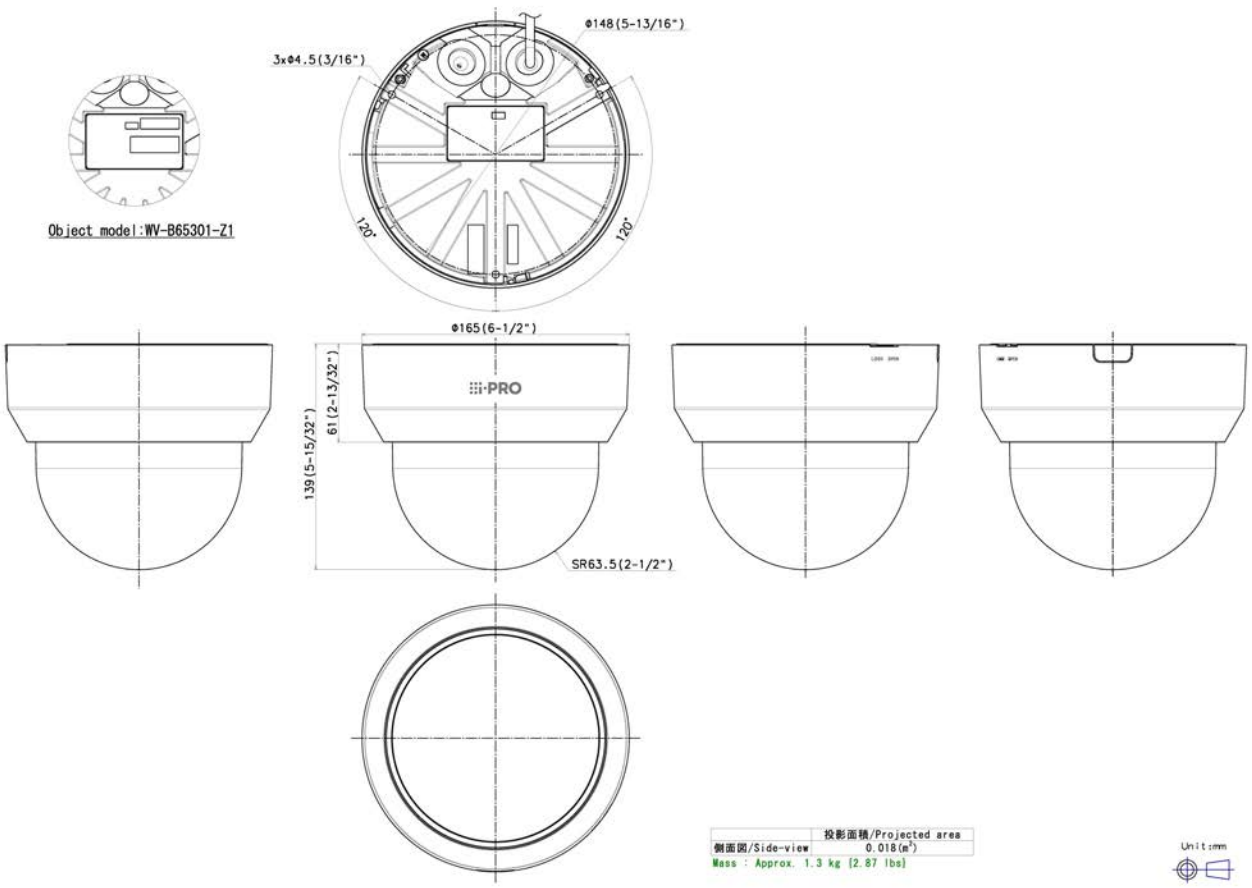
WV-SDB256G
i-PRO SD Memory Card

WV-SDB128G
i-PRO SD Memory Card

WV-SDB064G
i-PRO SD Memory Card

WV-SDB032G
i-PRO SD Memory Card

APPEARANCE


Object model:WV-B65301-Z1
3x⌀4.5(3/16")
⌀148(5-13/16")
120°
120°
⌀165(6-1/2")
61(2-13/32")
139(5-15/32")
SR63.5(2-1/2")
投影面積/Projected area
側面図/Side-view
0.018(m²)
Mass : Approx. 1.3 kg [2.87 lbs]
Unit:mm