

# WV-S15500-F3L/WV-S15500-F6L

5MP Outdoor Bullet Network Camera

## New S-series wide lineup high resolution network camera with AI engine



- 5MP
- Intelligent Auto (with AI Engine)
- Super Dynamic 132dB
- Color night vision (0.12 to 0.17 lx)
- Smart Coding (with AI Engine)
- Built-in IR LED
- IK10 Vandal Resistant
- Built-in FIPS 140-2 Level 3 Certified Secure Element with TPM functionality (EdgeLock® SE050F NXP® Semiconductors)
- NDAA Compliant



# SPECIFICATIONS

Camera	WV-S15500-F3L	WV-S15500-F6L
Image Sensor	Approx. 1/2.8 type CMOS image sensor	
Minimum Illumination	Color : 0.12 lx (30IRE, F2.0, 1/30s) Color : 0.17 lx (50IRE, F2.0, 1/30s) BW : 0.1 lx (50IRE, F2.0, 1/30s) BW : 0 lx (50IRE, F2.0, 1/30s with IR LED)	Color : 0.08 lx (30IRE, F1.6, 1/30s) Color : 0.11 lx (50IRE, F1.6, 1/30s) BW : 0.07 lx (50IRE, F1.6, 1/30s) BW : 0 lx (50IRE, F1.6, 1/30s with IR LED)
White Balance	ATW1/ ATW2/ AWC	
Shutter Speed	[30 fps] 1/30 Fix to 1/10000 Fix [25 fps] 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. 132 dB (Super Dynamic : On, Level : 30 or more, 15fps)	
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 (only when Super dynamic / Intelligent Auto : Off)	
Fog Compensation	On / Off (only when Intelligent auto / auto contrast adjust : Off)	
Maximum Gain	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 : 35 m {Approx. 115 ft} (30IRE) 25 m {Approx. 82 ft} (50IRE)	High / Middle / Low / Off, Maximum irradiation distance : 45 m {Approx. 148 ft} (30IRE) 30 m {Approx. 98 ft} (50IRE)
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	Yes	
Privacy Zone	On / Off, Up to 8 zones available	
VIQS	On / Off, Up to 8 zones available	
Image Rotation	0 ° / 90 ° / 180 ° / 270 °	
Camera Title (OSD)	On / Off, Up to 40 characters (alphanumeric characters, marks)	

Lens		
Optical zoom	1x	
Extra zoom	1x - 3x (when resolution is 640 x 360)	
Focal length	3.2 mm {1/8 inches}	6.1 mm {1/4 inches}
Angular Field of View	[16 : 9 mode] Horizontal : 98 °, Vertical : 53 ° [ 4 : 3 mode] Horizontal : 98 °, Vertical : 72 °	[16 : 9 mode] Horizontal : 49 °, Vertical : 27 ° [ 4 : 3 mode] Horizontal : 49 °, Vertical : 37 °
Maximum Aperture Ratio	1 : 2.0	1 : 1.6
Focus range	1.0 m {39-3/8 inches} - ∞	4.0 m {157-15/32 inches} - ∞

DORI		
Detect (25ppm / 8ppf)	53.4 m / 175.2 ft	134.8 m / 442.3 ft
Observe (62.5ppm / 19ppf)	21.4 m / 70.1 ft	53.9 m / 176.9 ft
Recognize (125ppm / 38ppf)	10.7 m / 35 ft	27 m / 88.5 ft
Identify (250ppm / 76ppf)	5.3 m / 17.5 ft	13.5 m / 44.2 ft

System on Chip (SoC)	
System on Chip (SoC)	Ambarella CV22

Adjusting Angle	
Ceiling mounting	Horizontal : $\pm 180^\circ$ (PAN rotation part) Vertical : $0^\circ$ to $100^\circ$ (TILT rotation part) Yaw : $-190^\circ$ to $+100^\circ$ (YAW rotation part)
Wall mounting	Horizontal : $\pm 100^\circ$ (TILT rotation part)* Vertical : $\pm 100^\circ$ (TILT rotation part)* Yaw : $-190^\circ$ to $+100^\circ$ (YAW rotation part) * You can change between horizontal and vertical angels by adjusting the PAN rotation part.

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	10Base-T / 100Base-TX, RJ45 connector
Resolution H.265/ H.264/ JPEG (MJPEG)	[16 : 9 mode (30 fps mode)][16 : 9 mode (25 fps mode)] 3072x1728 / 2560x1440 / 1920x1080 / 1280x720 / 640x360 / 320x180 [4 : 3 mode (30 fps mode)][4 : 3 mode (25 fps mode)] 3072x2304 / 2560x1920 / 1280x960 / 800x600 / VGA / 400x300 / 320x240
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 VIQS: On(High)/On(Low)/Off, Smart P-picture control: 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, LLDP
No. of Simultaneous Users	Up to 14 users (Depends on network conditions)
Secure	FIPS 140-2 level 3 Certified Secure Element (NXP® EdgeLock® SE050F), Device Certificate GlobalSign® pre-installed, User authentication, Host authentication, HTTPS, 802.1X Support, Data encryption

SDXC/SDHC/SD Memory Card	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	
Monitor Output (for Adjustment)	VBS : 1.0 V [p-p] / 75 Ω, composite, Pin jack An NTSC or PAL signal can be outputted from camera
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)

General	
Safety	UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1
EMC	FCC (Part15 ClassA), ICES-003 ClassA, EN55032 ClassA, EN55035
Power Source and Power Consumption	DC power supply : DC12 V 880 mA, Approx. 10.6 W PoE (IEEE802.3af compliant) Device : DC48 V 220 mA/Approx. 10.6 W (Class 0 device)
Ambient Operating Temperature	-40 °C to + 60 °C (-40 °F to 140 °F) (Power On range : -30 °C to +60 °C {-22 °F to +140 °F})
Ambient Operating Humidity	10 to 100 % (no condensation)
Anti-Condensation System	Temish element + Heater + moisture absorption gel
Water and Dust Resistance	IP66, Type 4X(UL50E), NEMA 4X compliant
Shock Resistance	IK10 (IEC 62262)
Dimensions	ø133 mm (W) x 133 mm (H) x 383 mm (D) {ø5-1/4 inches (W) x 5-1/4 inches (H) x 15-3/32 inches (D)}
Mass (approx.)	Approx. 2.4 kg {5.3 lbs.}
Finish	Main body : Aluminum die cast and resin, i-PRO white Outer fixing screws : Stainless steel (Corrosion-resistant treatment) Front panel : Polycarbonate resin, Clear

AI Analytics applications	
AI Video Motion Detection (AI-VMD)	YES
AI Privacy Guard	YES
AI Face Detection	YES
AI People Detection	YES

AI Vehicle Detection	YES
AI Non mask Detection	YES
AI Occupancy Detection	YES

## 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 \(i-pro.com\)](#).

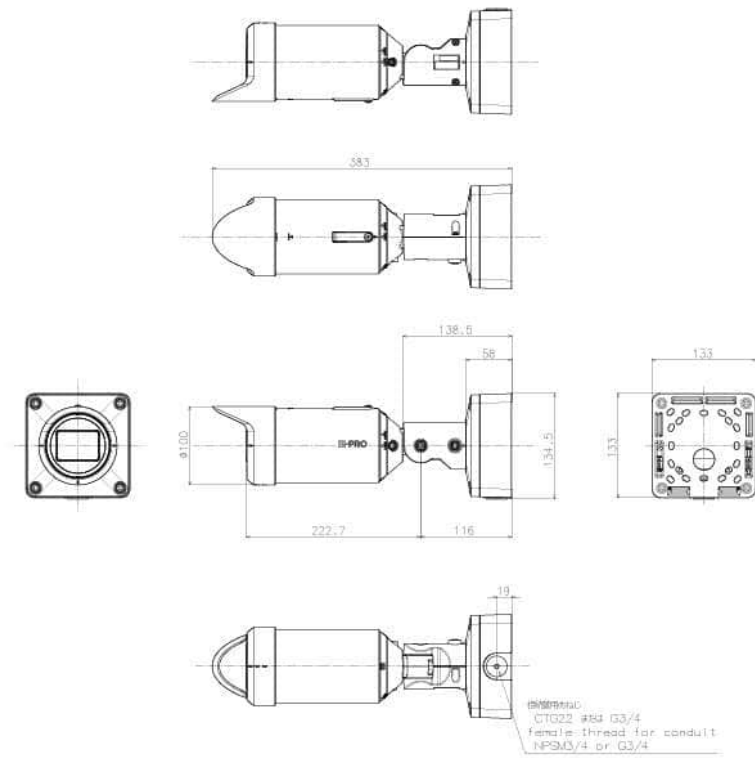


WV-QCA500A  
RJ45 Ethernet Cable



WV-QCA501A  
I/O Cable

# APPEARANCE



Model number	ClearSight coating	Color
WV-S15500-VZLN	Yes	i-PRO white
WV-S15600-VZL	No	i-PRO white
WV-S15500-VZLNJ	Yes	i-PRO white
WV-S15500-VZLNJ	Yes	Black
WV-S15500-VZLK	Yes	i-PRO white (heavy salt damage resistance)
WV-S15600-VZL	No	i-PRO white
WV-S15600-VZLN	Yes	i-PRO white
WV-S15700-VZLN	Yes	i-PRO white
WV-S15700-VZL	No	i-PRO white
WV-S15700-VZLNJ	Yes	i-PRO white
WV-S15700-VZLK	Yes	i-PRO white (heavy salt damage resistance)
WV-S15700-VZLKJ	Yes	i-PRO white (heavy salt damage resistance)

	投影面积/Projected area
平面図/Top-view	0.033 (m <sup>2</sup> )
側面図/Side-view	0.030 (m <sup>2</sup> )

Mass : Approx. 2.4 kg (5.3 lbs)