

## WV-S85702-F3L

2 x 4K(16MP) IR Outdoor Multi-directional Network Camera with AI Engine

## Multi-directional dual sensor camera



- 2 x 4K(16MP) Multi-directional camera
- One IP address, One VMS license
- Up to 4 Edge Al analytic apps
- Built-in IR-LED (40m, 131ft)
- Wide angle of view (Horizontal 104°)
- Supports Corridor view
- IP66, IP67, IK10 certified
- Built-in FIPS 140-2 Level 3 Certified SecureElement with TPM functionality (EdgeLock® SE050F NXP® Semiconductors)
- NDAA Compliant





















# **SPECIFICATIONS**

Camera	
Image Sensor	2x 1/2.8 type CMOS image sensor
Minimum Illumination	Color: 0.084 lx (30IRE,F1.44, 1/30 s) Color: 0.12 lx (50IRE,F1.44, 1/30 s) BW: 0.05 lx {50IRE, F1.44,1/30 s} BW: 0 lx {50IRE, F1.44, 1/30 s with IR LED}
White Balance	ATW1/ ATW2/ AWC
Maximum shutter	15 fps mode: Max.1/10000s to Max.16/30s 12.5 fps mode: Max.1/10000s 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	120 dB max. (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/ HLC/ 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: 40 m {Approx. 131 ft} (30IRE)* 30 m {Approx. 99 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
Al Sound Classification	Selectable from 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/global/en/surveillance/products/i-pro-ai-application 3rd party applications are also available.
	https://i-pro.com/global/en/surveillance/i-pro-application-platform/application-list
Privacy Zone	On/ Off (up to 8 zones available)
VIQS	On / Off (up to 8 zones available)
Image Rotation	0° (Off) / 90° / 180° (Upside-down) / 270°
Camera Title (OSD)	On/ Off, Up to 40 characters, Up to 2 Lines (alphanumeric characters, marks)

Focus Adjustment		-
Lens		
Optical zoom		1x
Extra zoom		max 6x (when resolution is 640x360)
Focal length		3.1mm {1/8 inches}
Angular Field of View		Horizontal: 104° Vertical: 56°
Maximum Aperture Ratio		01:01.4
Focus range		3 m {9.84 ft} - ∞
DORI		
Detect (25ppm / 8ppf)		60.0 m / 196.9 ft
Observe (62.5ppm / 19ppf)		24.0 m / 78.7 ft
Recognize (125ppm / 38ppf)	)	12.0 m / 39.4 ft
Identify (250ppm / 76ppf)		6.0 m / 19.7 ft
System on Chip (SoC)		
System on Chip (SoC)		Ambarella CV2
system on emp (see)		7 WII BUTCHE CV2
Adjusting Angle Adjusting Angle		Camera 1, 2: Horizontal: -50° to +230° (Adjust by horizontal (PAN) angle) Vertical: +10° to +105° (Adjust by vertical (TILT) angle) Yaw: ±90° (Adjust by azimuth (YAW) angle)
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 *1
Network		
Network IF	10BASE	E-T/100BASE-TX/1000BASE-T, RJ45 connector
Resolution H.265/ H.264/ JPEG (MJPEG)	[16:9 mode] 3840×2160 / 2560×1440 / 1920×1080 / 1280×720 / 640×360 / 320×180	
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 60 seconds with 1 second 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) 32 kbps/16 kbps, G.711 64 kbps, AAC-LC 64kbps/96kbps/128kbps *2	

Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)

Audio Transmission Mode

	TCP/IP,UDP/IP,HTTP,HTTPS,SSL/TLS,SMTP,DNS,NTP,SNMPv1/v2/v3,DHCPv6,RTP,MLD,ICMP,ARP,IEEE 802.1X,DiffServ,LLDP,MQTT
No. of Simultaneous Users	24 (Number of sessions that can connect to cameras at the same time)
	FIPS 140-2 level 3 (NXP® EdgeLock® SE050F), Device Certificate GlobalSign® pre-installed, User authentication, Host authentication, HTTPS, 802.1X Support
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), AndroidTM terminals
ONVIF® Profile	G / M / S / T

Alarm	
Alarm Source	3 terminals input, VMD alarm, SCD 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)	_
Audio input *3	ø3.5 mm stereo mini jack For microphone input : Recommended applicable microphone : Plug-in power type (Sensitivity of microphone : -48 dB±3 dB (0 dB=1 V/Pa, 1 kHz)) Input impedance : Approx. 2 k $\Omega$ (unbalanced) Supply voltage : 2.4 V ±0.5 V For line input : Input level: Approx. –10 dBV
Audio Output *3	ø3.5 mm stereo mini jack (Audio output is monaural.) Output impedance: Approx. 600 Ω (unbalanced) Output level: −20 dBV
External I/O Terminals *3	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/ ALARM OUT /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, EN55024
Power Source and Power Consumption	PoE+ (IEEE802.3at compliant)
Ambient Operating Temperature	$-40$ °C to $+60$ °C* $\{-40$ °F to $140$ °F} (Power On range: $-20$ °C to $+60$ °C $\{-4$ °F to $140$ °F}) 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)
Anti-Condensation System	Temish element
Water and Dust Resistance	IP67/IP66 (IEC 60529), Type 4X (UL50E), NEMA 4X compliant
Shock Resistance	IK10 (IEC 62262)
Other standard support	NEMA TS 2 (2.2.7-2.2.9)
Dimensions	When using the attachment plate only: 250 mm(D)×150 mm (W) × 105 mm (H) $\{9-27/32"$ inches (D) ×5-29/32 inches (W) ×4-1/8 inches (H) $\}$
Mass (approx.)	Approx. 1.8 kg
Finish	Main body: Aluminum die cast, i-PRO white Outer fixing screws: Stainless steel (Corrosion-resistant treatment) Dome cover: PC resin, Clear

### **NOTES**

- \*1 For information on the operation verification of the web browsers, refer to our support website <Control No.: C0132>.
- \*2 When recording audio on an SD memory card, only use AAC-LC (Advanced Audio Coding Low Complexity) .
- \*3 When using with them, WV-QCA501A cable is required.

#### 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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