# The new Standard by i-PRO video surveillance

# 2MP (1080p) Vandal Resistant Outdoor Dome Network Camera

The S-Series network cameras offer a new standard in i-PRO video surveillance with drastically improved image quality with advanced technology. It comes with pre-installed Al analytics applications that detects people and vehicles with accuracy, allowing you to easily start state-of-the-art video surveillance.

The camera can be configured while keeping the unit in the box with the acclaimed "Easy Kitting Packaging", making the installation process smooth and easy.

# **Key Features**

- Drastically improved image quality by advanced technology and Al intelligent Auto
- Pre-installed AI analytics applications to detect human and vehicles. Ready for installing 3rd party applications
- Detecting suspicious sound like Gunshot, Yell, Vehicle horn, and Glass break, with external microphones
- Easy Kitting Package enabling installers to configure cameras easily while keeping the unit in the box
- i-PRO Configuration Tool "iCT" can set up 1024 cameras at the same time.

(iCT page: https://i-pro.com/global/en/surveillance/tools/ict)

### Key i-PRO Spec.

- 2MP (1080p)
- Intelligent Auto (with AI Engine)
- Super Dynamic 144dB
- Color night vision (0.011 to 0.015 lx)
- Smart Coding (with AI Engine)
- Built-in IR LED
- IK10 Vandal Resistant
- ONVIF® Profile G / M / S / T \*ONVIF is a trademark of ONVIF, Inc.



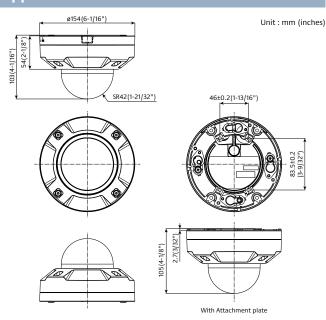




# Specifications

spec	ifications				
Camera	Image Sensor	Approx. 1/2.8 type CMOS image sensor			
Cumera	Minimum Illumination	Color: 0.011 lx (30IRE, F1.7, 1/30s) *1			
	William manination	Color: 0.015 lx (50IRE, F1.7, 1/30s)			
		BW: 0.008 lx (50IRE, F1.7, 1/30s)			
		BW: 0 lx (50IRE, F1.7,1/30s with IR LED)			
	White Balance	ATW1 / ATW2 / AWC			
	Shutter Speed	[60 fps Mode] 1/60 Fix to 1/10000 Fix,			
	Shace speed	[30 fps/15 fps mode] 1/30 Fix to 1/10000 Fix			
Intelligent Auto Super Dynamic*2		[50 fps Mode] 1/50 Fix to 1/10000 Fix,			
		[25 fps/12.5 fps mode] 1/25 Fix to 1/10000 Fix			
		On / Off			
		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 /	BLC (Back light compensation) / HLC (High light compensation) /			
	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 (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) /			
	COIOI/BW (ICK)	Auto2 (IR Light On) / Auto3 (SCC)			
	IR LED Light				
	IR LED Light	High / Middle / Low / Off,			
		Maximum irradiation distance : 70 m (Approx. 230 ft) (30IRE) *1			
	Digital Noise Reduction	50 m {Approx. 164 ft} (50IRE)			
		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	Yes			
	Privacy Zone	On / Off, Up to 8 zones available On / Off, Up to 8 zones available 0 ° / 90 ° / 180 ° / 270 °			
	VIQS				
	Image rotation*3				
	Camera Title (OSD)	On / Off, Up to 40 characters (alphanumeric characters, marks)			
	Focus Adjustment	Auto focus			
Lens	Optical zoom	2.3x (Motorized zoom / Motorized Focus)			
	Extra zoom	2.3x - 6.9x (when resolution is 640 x 360)			
	Focal length	9 - 21 mm {11/32 inches - 13/16 inches}			
	Angular Field of View	[16:9 mode]			
		Horizontal : 15° (TELE) – 36° (WIDE), Vertical : 9° (TELE) – 20° (WIDE)			
		[ 4:3 mode]			
		Horizontal: 11° (TELE) – 27° (WIDE), Vertical: 9° (TELE) – 20° (WIDE)			
	Maximum Aperture Ratio	1:1.7 (WIDE) - 1:3.0 (TELE)			
	Focus range	2 m {78-3/4 inches} - ∞			
DORI	Detect (25ppm / 8ppf)	Wide: 118.2 m / 387.7 ft, Tele: 291.7 m / 956.9 ft			
	Observe (62.5ppm / 19ppf)	Wide: 47.3 m / 155.1 ft, Tele: 116.7 m / 382.8 ft			
	Recognize (125ppm / 38ppf)	Wide: 23.6 m / 77.5 ft, Tele: 58.3 m / 191.4 ft			
	Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf)	Wide: 23.6 m / 77.5 ft, Tele: 58.3 m / 191.4 ft Wide: 11.8 m / 38.8 ft, Tele: 29.2 m / 95.7 ft			
	Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) on Chip (SoC)	Wide: 23.6 m   77.5 ft, Tele: 58.3 m   191.4 ft Wide: 11.8 m   38.8 ft, Tele: 29.2 m   95.7 ft Ambarella CV25M			
Adjusting	Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) In Chip (SoC) g Angle	Wide: 23.6 m / 77.5 ft, Tele: 58.3 m / 191.4 ft Wide: 11.8 m / 38.8 ft, Tele: 29.2 m / 95.7 ft Ambarella CV25M Horizontal :-194 to +166°, Vertical :-30 to +85°, Yaw : ±100°			
Adjusting Browser	Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) or Chip (SoC) g Angle Camera Control	Wide: 23.6 m   77.5 ft, Tele: 58.3 m   191.4 ft Wide: 11.8 m   38.8 ft, Tele: 29.2 m   95.7 ft Ambarella CV25M Horizontal : -194 to +166°, Vertical : -30 to +85°, Yaw : ±100° Brightness, AUX On   Off			
Adjusting	Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) In Chip (SoC) g Angle	Wide: 23.6 m / 77.5 ft, Tele: 58.3 m / 191.4 ft Wide: 11.8 m / 38.8 ft, Tele: 29.2 m / 95.7 ft Ambarella CV25M Horizontal: -194 to +166°, Vertical: -30 to +85°, Yaw: ±100° Brightness, AUX On / Off Mic (Line) Input: On / Off Volume adjustment: Low / Middle / High			
Adjusting Browser	Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) In Chip (SoC)	Wide: 23.6 m / 77.5 ft, Tele: 58.3 m / 191.4 ft         Wide: 11.8 m / 38.8 ft, Tele: 29.2 m / 95.7 ft         Ambarella CV25M         Horizontal: -194 to +166°, Vertical: -30 to +85°, Yaw: ±100°         Brightness, AUX On / Off         Mic (Line) Input: On / Off Volume adjustment: Low / Middle / High         Audio Output: On / Off Volume adjustment: Low / Middle / High			
Adjusting Browser	Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) in Chip (SoC) g Angle Camera Control Audio GUI / Setup Menu Language	Wide: 23.6 m / 77.5 ft, Tele: 58.3 m / 191.4 ft Wide: 11.8 m / 38.8 ft, Tele: 29.2 m / 95.7 ft Ambarella CV25M Horizontal : -194 to +166°, Vertical : -30 to +85°, Yaw : ±100° Brightness, AUX On / Off Mic (Line) Input: On / Off Volume adjustment : Low / Middle / High Audio Output : On / Off Volume adjustment : Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese			
Adjusting Browser GUI	Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) m Chip (SoC) g Angle Camera Control Audio  GUI / Setup Menu Language Browser' 4	Wide: 23.6 m   77.5 ft, Tele: 58.3 m   191.4 ft Wide: 11.8 m   38.8 ft, Tele: 29.2 m   95.7 ft Ambarella CV25M Horizontal : -194 to +166°, Vertical : -30 to +85°, Yaw: ±100° Brightness, AUX On   Off Mic (Line) Input: On   Off Volume adjustment : Low   Middle   High Audio Output : On   Off Volume adjustment : Low   Middle   High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome			
Adjusting Browser	Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Identify (50C) g Angle Camera Control Audio GUI / Setup Menu Language Browser' 4 Network IF	Wide: 23.6 m / 77.5 ft, Tele: 58.3 m / 191.4 ft Wide: 11.8 m / 38.8 ft, Tele: 29.2 m / 95.7 ft Ambarella CV25M Horizontal: -194 to +166°, Vertical: -30 to +85°, Yaw: ±100° Brightness, AUX On / Off Mic (Line) Input: On / Off Volume adjustment: Low / Middle / High Audio Output: On / Off Volume adjustment: Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome 108ase-T7, 1008ase-TX, RM5 connector			
Adjusting Browser GUI	Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) in Chip (SoC) g Angle Camera Control Audio GUI / Setup Menu Language Browser' 4 Network IF Resolution	Wide: 23.6 m / 77.5 ft, Tele: 58.3 m / 191.4 ft Wide: 11.8 m / 38.8 ft, Tele: 29.2 m / 95.7 ft Ambarella CV25M Horizontal: -194 to +166°, Vertical: -30 to +85°, Yaw: ±100° Brightness, AUX On / Off Mic (Line) Input: On / Off Volume adjustment: Low / Middle / High Audio Output: On / Off Volume adjustment: Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome 10Base-T / 100Base-TX, RI45 connector [16: 9 mode (60 fps mode)]¹², [16: 9 mode (30 fps mode)],			
Adjusting Browser GUI	Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Identify (50C) g Angle Camera Control Audio GUI / Setup Menu Language Browser' 4 Network IF	Wide: 23.6 m / 77.5 ft, Tele: 58.3 m / 191.4 ft Wide: 11.8 m / 38.8 ft, Tele: 29.2 m / 95.7 ft Ambarella CV25M Horizontal : -194 to +166°, Vertical : -30 to +85°, Yaw : ±100° Brightness, AUX On / Off Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High Audio Output : On / Off Volume adjustment : Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome 10Base-T / 100Base-TX, RJ45 connector [16:9 mode (60 fps mode)] '2, [16:9 mode (30 fps mode)], [16:9 mode (50 fps mode)] '2, [16:9 mode (25 fps mode)]			
Adjusting Browser GUI	Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) in Chip (SoC) g Angle Camera Control Audio GUI / Setup Menu Language Browser' 4 Network IF Resolution	Wide: 23.6 m / 77.5 ft, Tele: 58.3 m / 191.4 ft Wide: 11.8 m / 38.8 ft, Tele: 29.2 m / 95.7 ft Ambarella CV25M Horizontal: -194 to +166°, Vertical: -30 to +85°, Yaw: ±100° Brightness, AUX On / Off Mic (Line) Iput: On / Off Volume adjustment: Low / Middle / High Audio Output: On / Off Volume adjustment: Low / Middle / High Audio Output: On / Off Volume adjustment: Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome 10Base-T / 100Base-TX, R45 connector [16:9 mode (60 fps mode)] 7: [16:9 mode (30 fps mode)], [16:9 mode (50 fps mode)] 12. [16:9 mode (25 fps mode)] 1920x1080, 1280x720, 640x360, 320x180			
Adjusting Browser GUI	Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) in Chip (SoC) g Angle Camera Control Audio GUI / Setup Menu Language Browser' 4 Network IF Resolution	Wide: 23.6 m / 77.5 ft, Tele: 58.3 m / 191.4 ft Wide: 11.8 m / 38.8 ft, Tele: 29.2 m / 95.7 ft Ambarella CV25M Horizontal: -194 to +166°, Vertical: -30 to +85°, Yaw: ±100° Brightness, AUX On / Off Mic (Line) Input: On / Off Volume adjustment: Low / Middle / High Audio Output: On / Off Volume adjustment: Low / Middle / High Audio Output: On / Off Volume adjustment: Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome 10Base-T7, 100Base-TX, R145 connector [16:9 mode (60 fps mode)] 12., [16:9 mode (30 fps mode)], [16:9 mode (50 fps mode)] 12., [16:9 mode (25 fps mode)] 1920x1080, 1280x720, 640x360, 320x180 [4:3 mode (30 fps mode)], [4:3 mode (25 fps mode)]			
Adjusting Browser GUI	Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) in Chip (SoC) g Angle Camera Control Audio GUI / Setup Menu Language Browser' 4 Network IF Resolution	Wide: 23.6 m / 77.5 ft, Tele: 58.3 m / 191.4 ft Wide: 11.8 m / 38.8 ft, Tele: 29.2 m / 95.7 ft Ambarella CV25M Horizontal : -194 to +166°, Vertical : -30 to +85°, Yaw : ±100° Brightness, AUX On / Off Mic (Line) Input: On / Off Volume adjustment : Low / Middle / High Audio Output : On / Off Volume adjustment : Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome 10Base-T / 100Base-TX, RJ45 connector [16:9 mode (60 fps mode)] '2 , [16:9 mode (30 fps mode)], [16:9 mode (50 fps mode)] '2 , [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			
Adjusting Browser GUI	Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) in Chip (SoC) g Angle Camera Control Audio GUI / Setup Menu Language Browser' 4 Network IF Resolution	Wide: 23.6 m / 77.5 ft, Tele: 58.3 m / 191.4 ft Wide: 11.8 m / 38.8 ft, Tele: 29.2 m / 95.7 ft Ambarella CV25M Horizontal: -194 to +166°, Vertical: -30 to +85°, Yaw: ±100° Brightness, AUX On / Off Mic (Line) Input: On / Off Volume adjustment: Low / Middle / High Audio Output: On / Off Volume adjustment: Low / Middle / High Audio Output: On / Off Volume adjustment: Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome 108ase-T7 / 100Base-TX, R145 connector [16:9 mode (60 fps mode)] 12. [16:9 mode (30 fps mode)], [16:9 mode (50 fps mode)] 12. [16:9 mode (25 fps mode)] 1920x1080, 1280x720, 640x360, 320x180 [4:3 mode (30 fps mode)], [4:3 mode (25 fps mode)]			
Adjusting Browser GUI	Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) in Chip (SoC) g Angle Camera Control Audio GUI / Setup Menu Language Browser' 4 Network IF Resolution	Wide: 23.6 m / 77.5 ft, Tele: 58.3 m / 191.4 ft Wide: 11.8 m / 38.8 ft, Tele: 29.2 m / 95.7 ft Ambarella CV25M Horizontal : -194 to +166°, Vertical : -30 to +85°, Yaw : ±100° Brightness, AUX On / Off Mic (Line) Input: On / Off Volume adjustment : Low / Middle / High Audio Output : On / Off Volume adjustment : Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome 10Base-T / 1008ase-TX, RJ45 connector [16:9 mode (60 fps mode)]'2 , [16:9 mode (30 fps mode)], [16:9 mode (50 fps mode)]'2 , [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			
Adjusting Browser GUI	Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) in Chip (SoC) g Angle Camera Control Audio GUI / Setup Menu Language Browser' 4 Network IF Resolution	Wide: 23.6 m / 77.5 ft, Tele: 58.3 m / 191.4 ft Wide: 11.8 m / 38.8 ft, Tele: 29.2 m / 95.7 ft Ambarella CV25M Horizontal: -194 to +166°, Vertical: -30 to +85°, Yaw: ±100° Brightness, AUX On / Off Mic (Line) Input: On / Off Volume adjustment: Low / Middle / High Audio Output: On / Off Volume adjustment: Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome 108ase-T / 1008ase-TX, RJ45 connector [16:9 mode (60 fps mode)] <sup>2</sup> , [16:9 mode (30 fps mode)], [16:9 mode (50 fps mode)] <sup>2</sup> , [16:9 mode (25 fps mode)] 1920x1080, 1280x720, 640x360, 320x180 [4:3 mode (30 fps mode)], [4:3 mode (25 fps mode)] 2048x1536*5, 1280x960, VGA, QVGA Constant bit rate / VBR / Frame rate / Best effort			
Adjusting Browser GUI	Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) in Chip (SoC) g Angle Camera Control Audio GUI / Setup Menu Language Browser' * Network IF Resolution H.265/ H.264/ JPEG (MJPEG)	Wide: 23.6 m / 77.5 ft, Tele: 58.3 m / 191.4 ft Wide: 11.8 m / 38.8 ft, Tele: 29.2 m / 95.7 ft Ambarella CV25M Horizontal: -194 to +166°, Vertical: -30 to +85°, Yaw: ±100° Brightness, AUX On / Off Mic (Line) Input: On / Off Volume adjustment: Low / Middle / High Audio Output: On / Off Volume adjustment: Low / Middle / High Audio Output: On / Off Volume adjustment: Low / Middle / High Audio Output: On / Off Volume adjustment: Low / Middle / High Audio Output: On / Off Volume adjustment: Low / Middle / High Audio Output: On / Off Volume adjustment: Low / Middle / High Audio Output: On / Off Volume adjustment: Low / Middle / High Audio Output: On / Off Volume adjustment: Low / Middle / High Audio Output: On / Off Volume adjustment: Low / Middle / High Audio Output: On / Middle / High Audio Output: On / Middle / High Bright Star / 1008ase-TX, R45 connector [16: 9 mode (60 fps mode)]*2, [16: 9 mode (30 fps mode)], [16: 9 mode (30 fps mode)]*2, [16: 9 mode (25 fps mode)] 1280x960, VGA, QVGA [4: 3 mode (15 fps mode)], [4: 3 mode (12.5 fps mode)] 2048x1536*5, 1280x960, VGA, QVGA			

# **Appearance**



Notaro	Smart Coding	COR (Croup of pictures controll)			
wetwork	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*7 : 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			
	Secure	Device Certificate GlobalSign® pre-installed, User authentication,			
		Host authentication, HTTPS, Data encryption, 802.1X Support			
	No. of Simultaneous Users	Up to 14 users (Depends on network conditions)			
	SDXC/SDHC/SD	H.265 / H.264 recording :			
	Memory Card	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, 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/	Monitor Output	VBS: 1.0 V [p-p] / 75 Ω, composite, Pin jack			
Output	(for adjustment)	An NTSC or PAL signal can be outputted from camera			
	Audio input*8	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*8	ø3.5 mm stereo mini jack (monaural output)			
	Addio Odiput	Output impedance : Approx. 600 Ω (unbalanced)			
		Output level : -20 dBV			
	External I/O Terminals*8				
	External I/O Terminals*8	ALARM IN 1 (Alarm input 1/ Black & white input / Auto time adjustment input) (x1)			
Ceneral	·	ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1), ALARM IN 3 (Alarm input 3/ AUX OUT) (x1)			
General	Safety	ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1), ALARM IN 3 (Alarm input 3/ AUX OUT) (x1) UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1			
General	Safety EMC	ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1), ALARM IN 3 (Alarm input 3/ AUX OUT) (x1) UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1 FCC (Part15 ClassA), ICES-003 ClassA, EN55032 ClassB, EN55035			
General	Safety EMC Power Source and	ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1), ALARM IN 3 (Alarm input 3/ AUX OUT) (x1) UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1 ECC (Part15 ClassA), ICES-003 ClassA, EN55032 ClassB, EN55035 DC power supply <sup>18</sup> : DC12 V 860 msA, Approx. 10.3 W			
General	Safety EMC Power Source and Power Consumption	ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1), ALARM IN 3 (Alarm input 3/ AUX OUT) (x1)  UL (UI.62368-1), c-UL (CSA C.22.2 No.62368-1), C-U. (CSA C.22.2 No.623			
General	Safety EMC Power Source and Power Consumption Ambient Operating	ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1), ALARM IN 3 (Alarm input 3/ AUX OUT) (x1)  UL (UL62368-1), c-UL (CSA C22.2 No. 62368-1), CE, IEC62368-1  FCC (Part15 ClassA), ICES-003 ClassA, EN55032 ClassB, EN55035  DC power supply*8 : DC12 V 860 mA, Approx. 10.3 W  POE (IEEE802.3af compliant) Device : DC48 V 210 mA, Approx. 10.1 W (Class 0 device)  -40 °C to +60 °C (-40 °F to 140 °F) **			
General	Safety EMC Power Source and Power Consumption Ambient Operating Temperature	ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1), ALARM IN 3 (Alarm input 3/ AUX OUT) (x1)  UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1  FCC (Part15 ClassA), ICES-003 ClassA, EN55032 ClassB, EN55035  DC power supply'8: DC12 V 860 mA, Approx. 10.3 W  P6E (IEEE802.34f compliant) Device: DC48 V 210 mA, Approx. 10.1 W (Class 0 device) 40° Ct o +60° C (-40° Ft 0 40° Ft) 9  (Power On range: -30° C to +60° C {-22° Ft o +140° Ft})			
General	Safety EMC Power Source and Power Consumption Ambient Operating Temperature Ambient Operating Humidity	ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1), ALARM IN 3 (Alarm input 3/ AUX OUT) (x1)  UL (UIG2368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1  PCC (Part15 ClassA), ICES-003 ClassA, EN55032 ClassB, EN55035  DC power supply®: DC12 V 860 mA, Approx. 10.3 W  PoE (IEEE802.3af compiliant) Device: DC48 V 210 mA, Approx. 10.1 W (Class 0 device)  -40 °C to +60 °C (-40 °F to 140 °F) °  (Power On range: -30 °C to +60 °C (-22 °F to +140 °F))  10 to 100 % (no condensation)			
General	Safety EMC Power Source and Power Consumption Ambient Operating Temperature Ambient Operating Humidity Anti-Condensation System	ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1), ALARM IN 3 (Alarm input 3/ AUX OUT) (x1)  UL (UI.62368-1), c-UL (CSA C.22.2 No.62368-1), C.E., IEC62368-1  PCC (Part15 ClassA), ICES-003 ClassA, EN55032 ClassB, EN55035  DC power supply 8: DC12 V 860 mA, Approx. 10.3 W  POE (IEEE802.3af compliant) Device: DC48 V 210 mA, Approx. 10.1 W (Class 0 device)  -40 °C to +60 °C (-40 °F to 140 °F) 9  (Power On range: -30 °C to +60 °C (-22 °F to +140 °F))  10 to 100 % (no condensation)  Temish element + Heater + moisture absorption gel			
General	Safety EMC Power Source and Power Consumption Ambient Operating Temperature Ambient Operating Humidity	ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1), ALARM IN 3 (Alarm input 3/ AUX OUT) (x1)  UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1  FCC (Part15 (CassA), ICES-003 ClassA, EN55032 ClassB, EN55035  DC power supply*8: DC12 V 860 mA, Approx. 10.3 W  PoE (IEEE802.34f compliant) Device: DC48 V 210 mA, Approx. 10.1 W (Class 0 device -40 °C to +60 °C (-40 °F to 140 °F)*9  (Power On range: -30 °C to +60 °C (-22 °F to +140 °F))  10 to 100 % (no condensation)  Temish element + Heater + moisture absorption gel  IP66, IEC60529 measuring standard compatible, Type 4X(UL50E), NEMA 4X compliant			
General	Safety EMC Power Source and Power Consumption Ambient Operating Temperature Ambient Operating Humidity Anti-Condensation System	ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1), ALARM IN 3 (Alarm input 3/ AUX OUT) (x1)  UL (UI.62368-1), c-UL (CSA C.22.2 No.62368-1), C.E., IEC62368-1  PCC (Part15 ClassA), ICES-003 ClassA, EN55032 ClassB, EN55035  DC power supply 8: DC12 V 860 mA, Approx. 10.3 W  POE (IEEE802.3af compliant) Device: DC48 V 210 mA, Approx. 10.1 W (Class 0 device)  -40 °C to +60 °C (-40 °F to 140 °F) 9  (Power On range: -30 °C to +60 °C (-22 °F to +140 °F))  10 to 100 % (no condensation)  Temish element + Heater + moisture absorption gel			
General	Safety EMC Power Source and Power Consumption Ambient Operating Temperature Ambient Operating Humidity Anti-Condensation System Water and Dust Resistance	ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1), ALARM IN 3 (Alarm input 3/ AUX OUT) (x1)  UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1  FCC (Part15 (CassA), ICES-003 ClassA, EN55032 ClassB, EN55035  DC power supply*8: DC12 V 860 mA, Approx. 10.3 W  PoE (IEEE802.34f compliant) Device: DC48 V 210 mA, Approx. 10.1 W (Class 0 device -40 °C to +60 °C (-40 °F to 140 °F)*9  (Power On range: -30 °C to +60 °C (-22 °F to +140 °F))  10 to 100 % (no condensation)  Temish element + Heater + moisture absorption gel  IP66, IEC60529 measuring standard compatible, Type 4X(UL50E), NEMA 4X compliant			
General	Safety EMC Power Source and Power Consumption Ambient Operating Temperature Ambient Operating Humidity Anti-Condensation System Water and Dust Resistance Shock Resistance	ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1), ALARM IN 3 (Alarm input 3/ AUX OUT) (x1)  UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1  ECC (Part15 ClassA), ICES-003 ClassA, EN55032 ClassB, EN55035  DC power supply*8: DC12 V 860 mA, Approx. 10.3 W  PoE (IEEE802.34f compliant) Device: DC48 V 210 mA, Approx. 10.1 W (Class 0 device)  -40 °C to +60 °C (-40 °F to 140 °F) °9  (Power On range: -30 °C to +60 °C (-22 °F to +140 °F))  10 to 100 % (no condensation)  Temish element + Heater + moisture absorption gel  1966, IEC6052 measuring standard compatible. Type 4X(UL50E), NEMA 4X compliant  501 (IEC 60068-2-75 compliant), IK10 (IEC 62262)			
General	Safety EMC Power Source and Power Consumption Ambient Operating Temperature Ambient Operating Humidity Anti-Condensation System Water and Dust Resistance Shock Resistance Dimensions	ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1), ALARM IN 3 (Alarm input 3/ AUX OUT) (x1)  UL (UIG2368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1  PCC (Part15 ClassA), ICES-003 ClassA, EN55032 ClassB, EN55035  DC power supply*8: DC12 V 860 mA, Approx. 10.3 W  PoE (IEEE802.3af compliant) Device: DC48 V 210 mA, Approx. 10.1 W (Class 0 device)  -40 °C to +60 °C (-40 °F to 140 °F)*9  (Power On range: -30 °C to +60 °C (-22 °F to +140 °F)}  10 to 100 % (no condensation)  Temish element + Heater + moisture absorption qel  1P66, IEC60529 measuring standard compatible, Type 4X(UL50E), NEMA 4X compliant  501 (IEC 60068-2-75 compliant), IK10 (IEC 62262)  ø154 mm x 105 mm (H) {ø6-1/16 inches x 4-1/8 inches (H)}			
General	Safety EMC Power Source and Power Consumption Ambient Operating Temperature Ambient Operating Humidity Anti-Condensation System Water and Dust Resistance Shock Resistance Dimensions Mass (approx.)	ALARM IN 2 (Alarm input 2) ALARM OUT) (x1), ALARM IN 3 (Alarm input 3) AUX OUT) (x1)  UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1  FCC (Part15 (CassA), ICE5-003 ClassA, BN5035  DC power supply*8: DC12 V 860 mA, Approx. 10.3 W  P6E (IEEE802.34f compliant) Device: DC48 V 210 mA, Approx. 10.1 W (Class 0 device) -40 °C to +60 °C (-40 °F to 140 °F)*9  (Power On range: -30 °C to +60 °C (-22 °F to +140 °F)}  10 to 100 % (no condensation)  Temish element + Heater + moisture absorption gel  P66, IEC60529 measuring standard compatible, Type 4X(UL50E), NEMA 4X compliant 501 (IEC 60068-2-75 compliant), IK10 (IEC 62262)  a154 mmx 105 mm (H) [66-1]16 inches x 4-1/8 inches (H)}  Approx. 1.1 kg (2.431 bs.)			

- \*2 When 60 fps or 50 fps is selected, the Super Dynamic function is automatically set to off.

  \*3 When the 60 fps mode, 50 fps mode, 15 fps mode or 12.5 fps mode is used, the "90°" and "270°" settings are not available. When the 320x180 resolution is used, the "90°" and "270°" settings are not available.

  \*4 For information on the operation verification of the supported web browsers, refer to our support website \*Control No.: C0132>.

- \*4 For information on the operation verification of the supported web prowsers, refer to our support website <a href="Control No.: Cul32">Cul32</a>. \*5 Used by super resolution techniques <a href="Control No.: Cul32">6 Transmission for 4 streams can be individually set.</a>
  \*7 When recording audio on an microSD memory card, only use AAC-LC (Advanced Audio Coding Low Complexity).
  \*8 When using with these, WV-QCA501A cable is required.
  \*9 When using with the IR LED light constantly lit, the upper limit of the operating temperature range is +50 °C (+122 °F).

# Al Analytics applications

http://i-pro.com/global/en/surveillance/products/i-pro-ai-application

# Al Video Motion Detection (Al-VMD)

Advanced video analysis technology detects objects (faces, people, cars, motorcycles) in a specified area. (Intruder Detection, Loitering Detection, Direction Detection, Cross Line Detection)

#### **Al Privacy Guard**

To protect privacy and portrait rights, it is possible to automatically apply a mosaic the entire face and figure of a person photographed by the camera.

#### Al Face Detection

Detects faces with high precision even in low-light, backlit, and mask-wearing environments.

#### Al People Detection

Extract the characteristics of human face / clothing and classify them into meaningful categories such as gender, age, and clothing color.

#### **AI Vehicle Detection**

 $\label{prop:extract} \textbf{Extract vehicle characteristics and classify them into meaningful categories such as type and color.}$ 

#### **AI Non mask Detection**

Deep-learning and proprietary image processing technologies recognize mask and detect people who are not wearing them.

#### Al Occupancy Detection

Detecting the congestion via network camera with AI engine enables that information to be used direct visitors in advance or help store staff work more efficiently.

 $\label{lem:condition} \begin{tabular}{ll} 3 rd party applications are also available. \\ http://i-pro.com/global/en/surveillance/i-pro-application-platform/application-list \\ \end{tabular}$ 

# **Optional Accessories**

#### Fiber Optic Media Converter Unit

Fiber-optic Media Converter Unit Fiber Optic Media Converter Unit supports long distance optical networks by converting copper RJ45 to fiber.

WV-S25F1 (Light gray)



• Basic specifications

•	
Power source	24 V AC(50 Hz/60 Hz)
Ambient Operating Temperature :	-40 °C to +60 °C {-40 °F to 140 °F} (Power On range: -30 to +60 {-22 °F to 140 °F})
Ambient Operating Humidity:	10 % to 100 %(no condensation)
Waterproof	IP66(IEC60529)
Shock resistance	IK10(IEC62262)

\*This unit requires an SFP module.

\*Refer to website for compatible SFP modules, https://i-pro.com/global/en/surveillance/training-support/support/technical-information <Control No.: C0504>

#### • Support specifications for SFP module

SFP Port Type	LC type	
Ethernet Speed	100/1000 Mbps	
Supply voltage, current	3.3 V typical, Max. 300 mA	
SFP Cage	Standard mini-SFP cage	
	(For 6.5 mm pitch SFP)	

#### ■ Mount Bracket / Other

	WALL		POLE CORNER HA		HAN	GING	
	1	2	3	1	1	1	2
	Wall Mount Bracket WV-QWL501-W (i-PRO white)	Wall Mount Bracket WV-QWL500-W (i-PRO white)	Sun Shade WV-QSR500-W (i-PRO white)	Pole Mount Bracket <b>WV-QPL500-W</b> (i-PRO white)	Corner Mount Bracket  WV-QCN500-W (i-PRO white)	Ceiling Mount Bracket WV-QCL501-W (i-PRO white)	Ceiling Mount Bracket WV-QCL100-W '1 (i-PRO white)
bination			<b>(0)</b>				*For indoor installation only.
com	Mount Bracket WV-QSR501-W (i-PRO white)	Adapter Box WV-QJB500-W (i-PRO white)	Base Bracket WV-QJB501-W (i-PRO white)	Wall Mount Bracket  WV-QWL500-W (i-PRO white) (+ WV-QJB500-W)	Wall Mount Bracket  WV-QWL500-W (i-PRO white) (+ WV-QJB500-W)	Mount Bracket WV-QSR501-W (i-PRO white)	
	8	*If needed.		+ 0	+ 0	8	3rd.parties pipe

		OTHER		
	1	2	3	1
combination	Ceiling Mount Bracket (Embedded) WV-QEM500-W (i-PRO white)	Base Bracket WV-QJB501-W (i-PRO white)	Ceiling Mount Bracket WV-Q105A  *For indoor installation only.	Attachment pipe (For 3rd party bracket) WV-QAT500-W (i-PRO white)
comt		Mount Bracket WV-QSR501-W (i-PRO white)		

<sup>\*1:</sup> It's possible to be used on the camera side and ceiling side. If used on both side, 2pieces are required.

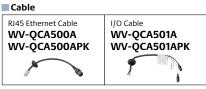
#### Dome Cover



Dome Cover (Smoke type with ClearSight coating) WV-CW7SN







\*WV-QCA500APK and WV-QCA501APK are package of 10 cables.

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- ONVIF is a trademark of ONVIF. Inc.
- All other trademarks identified herein are the property of their respective owners.

#### 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.



<sup>\*</sup>The color of the grommet rubber may differ depending on the production time, but the performance and mounting method will not change.