

# The new Standard by i-PRO video surveillance

# 2MP (1080p) Outdoor Bullet 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 AI 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 AI 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.

## **Industry examples**

- 2MP (1080p)
- Intelligent Auto (with AI Engine)
- Super Dynamic 144dB
- Color night vision (0.007 to 0.009 lx)
- Smart Coding (with AI Engine)
- Built-in IR LED
- ONVIF<sup>®</sup> Profile G / M / S / T \*ONVIF is a trademark of ONVIF, Inc.

- Public safety (City / Highway toll / Parking gate)
- Transportation (Airport / Train / Subway)
- Retail / Bank / Logistics / Education / Hospital / Building





### **Specifications**

Camera Image Sensor Approx. 1/2.8 type CMOS image sen	
Minimum Illumination Color : 0.007 lx (30IRE, F1.3, 1/30s)	
Color : 0.009 lx (50IRE, F1.3, 1/30s) BW : 0.005 lx (50IRE, F1.3, 1/30s)	
BW : 0.005 IX (50IRE, F1.3, 1/30s) BW : 0 IX (50IRE, F1.3, 1/30s with IF	R L ED)
White Balance ATW1 / ATW2 / AWC	
Shutter Speed [60 fps Mode] 1/60 Fix to 1/10000 F	ix.
[30 fps/15 fps mode] 1/30 Fix to 1/10	
[50 fps Mode] 1/50 Fix to 1/10000 F	
[25 fps/12.5 fps mode] 1/25 Fix to 1/	
Intelligent Auto On / Off	
Super Dynamic <sup>*2</sup> On / Off, The level can be set in the	range of 0 to 31.
Dynamic Range Max.144 dB (Super Dynamic : On, Le	evel 31)
Adaptive Black Stretch The level can be set in the range of	
Back light compensation / BLC (Back light compensation) / HL	
High light compensation Off (only when Super dynamic / Inte	
Fog compensation On / Off (only when Intelligent auto	
Maximum gain (AGC) The level can be set in the range of	
Color/BW (ICR) Off / On (IR Light Off) / On (IR Light	t On) / Auto1 (IR Light Off) /
Auto2 (IR Light On) / Auto3 (SCC)	
IR LED Light High / Middle / Low / Off,	
Maximum irradiation distance : 70	
Digital Noise Reduction The level can be set in the range of	m {Approx. 164 ft} (50IRE)
Video Motion Detection (VMD) On / Off, 4 areas available	010255.
Scene Change Detection (SCD) On / Off, 1 areas available	
Audio Detection On / Off	
Al Sound Classification Gunshot, Yell, Vehicle horn, Glass bi	reak
Al Analytics Yes	
Privacy Zone On / Off, Up to 8 zones available	
VIQS On / Off, Up to 8 zones available	
Image rotation" <sup>3</sup> 0 ° / 90 ° / 180 ° / 270 °	
Camera Title (OSD) On / Off, Up to 40 characters (alpha	anumeric characters, marks)
Focus Adjustment Auto focus	
Lens Optical zoom 3.1x (Motorized zoom / Motorized F	
Extra zoom 3.1x - 9.3x (when resolution is 640 x	
Focal length 2.9 - 9 mm {1/8 inches - 11/32 inche	5
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Angular Field of View [16 : 9 mode]	
Angular Field of View [16 : 9 mode] Horizontal : 37° (TELE) – 117° (WIDE)	
Angular Field of View [16 : 9 mode] Horizontal : 37° (TELE) – 117° (WIDE) [ 4 : 3 mode]	), Vertical : 21° (TELE) – 62° (WIDE)
Angular Field of View [16 : 9 mode] Horizontal : 37° (TELE) – 117° (WIDE) [ 4 : 3 mode] Horizontal : 27° (TELE) – 82° (WIDE)	), Vertical : 21° (TELE) – 62° (WIDE)
Angular Field of View     [16 : 9 mode]       Horizontal : 37° (TELE) - 117° (WIDE)     [ 4 : 3 mode]       Horizontal : 27° (TELE) - 82° (WIDE)     Horizontal : 27° (TELE) - 82° (WIDE)       Maximum Aperture Ratio     1 : 1.3 (WIDE) - 1 : 2.5 (TELE)	), Vertical : 21° (TELE) – 62° (WIDE)
Angular Field of View     [16:9 mode] Horizontal: 37° (TELE) - 117° (WDE) [4:3 mode] Horizontal: 27° (TELE) - 82° (WIDE)       Maximum Aperture Ratio     1:1.3 (WIDE) - 1:2.5 (TELE)       Focus range     0.3 m (11-13) f6 inches) - ∞	), Vertical : 21° (TELE) – 62° (WIDE) , Vertical : 21° (TELE) – 62° (WIDE)
Angular Field of View     [16 : 9 mode] Horizontal : 37° (TELE) - 117° (WIDE) [ 4 : 3 mode] Horizontal : 27° (TELE) - 82° (WIDE)       Maximum Aperture Ratio     11:1.3 (WIDE) - 1: 2.5 (TELE) Focus range       DORI     Detect (25ppm / 8ppf)	), Vertical : 21° (TELE) – 62° (WIDE) I, Vertical : 21° (TELE) – 62° (WIDE)
Angular Field of View     [16 : 9 mode] Horizontal : 37° (TELE) - 117° (WDE) [ 4 : 3 mode] Horizontal : 27° (TELE) - 82° (WIDE)       Maximum Aperture Ratio     1 : 1.3 (WDE) - 1 : 2.5 (TELE) Focus range       OBRI     Detect (25ppm / 8ppf)       Wide: 23.5 m / 72.2 ft, Tele: 114.8 m Observe (62.5ppm / 19ppf)       Wide: 9.4 m / 30.9 ft, Tele: 45.9 m	), Vertical : 21° (TELE) – 62° (WIDE) , Vertical : 21° (TELE) – 62° (WIDE) 
Angular Field of View     [16 : 9 mode] Horizontal : 37° (TELE) - 117° (WIDE) [ 4 : 3 mode] Horizontal : 27° (TELE) - 82° (WIDE)       Maximum Aperture Ratio     11:1.3 (WIDE) - 1: 2.5 (TELE) Focus range       DORI     Detect (25ppm / 8ppf)	), Vertical : 21° (TELE) – 62° (WIDE) , Vertical : 21° (TELE) – 62° (WIDE) n / 376.5 ft n / 150.6 ft n / 75.3 ft
Angular Field of View     [16 : 9 mode] Horizontal : 37° (TELE) – 117° (WDE) [ 4 : 3 mode] Horizontal : 27° (TELE) – 82° (WDE)       Maximum Aperture Ratio     1 : 1.3 (WIDE) – 1 : 2.5 (TELE)       Focus range     0.3 m (11-13/16 inches) – ∞       DORI     Detect (25ppm / 8ppf)     Wide: 23.5 m / 77.2 ft, Tele: 114.8 m Observe (62.5ppm / 19ppf)       Wide:     9.4 m / 30.9 ft, Tele: 45.9 m Recognize (125ppm / 38ppf)     Wide: 4.7 m / 15.4 ft, Tele: 23.0 m	), Vertical : 21° (TELE) – 62° (WIDE) I, Vertical : 21° (TELE) – 62° (WIDE) n / 376.5 ft / 150.6 ft n / 75.3 ft n / 37.7 ft
Angular Field of View     [16:9 mode] Horizontal: 37° (TELE) – 117° (WDE) [4:3 mode] Horizontal: 27° (TELE) – 82° (WDE)       Maximum Aperture Ratio     11:1.3 (WDE) – 1:2.5 (TELE)       Focus range     0.3 m (11-3) (fin icnhes) – ∞       DORI     Detect (25ppm / 8ppf)     Wide: 23.5 m / 77.2 ft, Tele: 114.8 m Observe (62.5ppm / 19ppf)       Recognize (125ppm / 38ppf)     Wide: 4.7 m / 15.4 ft, Tele: 43.9 m Identify (250pm / 76ppf)	), Vertical : 21° (TELE) – 62° (WIDE) , Vertical : 21° (TELE) – 62° (WIDE) n / 376.5 ft n / 376.5 ft n / 150.6 ft n / 37.7 ft n / 37.7 ft rt
Angular Field of View     [16:9 mode] Horizontal: 37° (TELE) – 117° (WDE) [4:3 mode] Horizontal: 27° (TELE) – 82° (WDE)       Maximum Aperture Ratio     11:1.3 (WDE) – 1:2.5 (TELE)       Focus range     0.3 m (11-3) (fin icnhes) – ∞       DORI     Detect (25ppm / 8ppf)     Wide: 23.5 m / 77.2 ft, Tele: 13.8 m Observe (62.5ppm / 19ppf)       Identify (250ppm / 76pf)     Wide: 2.4 m / 30.9 ft, Tele: 45.9 m Recognize (125ppm / 8ppf)       Adjusting Angle     Ceiling mounting Vertical : 0° to 100° (TILT rotation pa Vertical : 0° to 100° (YAW r	), Vertical : 21° (TELE) – 62° (WIDE) I, Vertical : 21° (TELE) – 62° (WIDE) n / 376.5 ft n / 376.5 ft n / 75.3 ft n / 75.3 ft n / 37.7 ft rt) on part)
Angular Field of View     [16 : 9 mode] Horizontal : 37° (TELE) – 117° (WDE) [ 4 : 3 mode] Horizontal : 27° (TELE) – 82° (WIDE)       Maximum Aperture Ratio     11:13 (WIDE) – 11:2.5 (TELE) Focus range     0.3 m (11-13/16 inches) – ∞       DORI     Detect (25ppm / 8ppf)     Wide: 23.5 m / 77.2 ft, Tele: 114.8 m Observe (62.5ppm / 13ppf)     Wide: 4.7 m / 15.4 ft, Tele: 45.9 m Recognize (125ppm / 38ppf)       Adjusting Angle     Ceiling mounting     Horizontal : ±180 ° (PAN rotation pa Vertical : 0 ° to 100 ° (TILT rotation pa Vertical : 00 ° to 100 ° (TILT rotation pa Vertical : 00 ° (TILT rotation pa	), Vertical : 21° (TELE) - 62° (WIDE) I, Vertical : 21° (TELE) - 62° (WIDE) n / 376.5 ft n / 376.5 ft n / 35.6 ft n / 75.3 ft n / 75.3 ft n / 37.7 ft with on part) otation part) otation part)
Angular Field of View     [16 : 9 mode] Horizontal : 37° (TELE) – 117° (WDE) [ 4 : 3 mode] Horizontal : 27° (TELE) – 82° (WDE) Maximum Aperture Ratio       Maximum Aperture Ratio     1:1.3 (WDE) – 1:2.5 (TELE) – Focus range       DORI     Detect [25ppm / 3Ppf)       Wide: 23.5 m / 77.2 ft, Tele: 114.8 m Observe (62.5ppm / 19ppf)     Wide: 2.4 m / 30.9 ft, Tele: 23.0 m Identify (250ppm / 76ppf)       Adjusting Angle     Ceiling mounting     Horizontal : ±180 ° (PAN rotation pa Vertical : 0 ° to 100 ° (TILT rotation Portical : ±100 ° (TILT rotation pa Vertical : ±100 ° (TILT rotation pa	), Vertical : 21° (TELE) - 62° (WIDE) , Vertical : 21° (TELE) - 62° (WIDE) n / 376.5 ft n / 150.6 ft n / 377.7 ft rt on part) otation part) otation part) rt)*
Angular Field of View     [16:9 mode] Horizontal: 37° (TELE) – 117° (WDE) [4:3 mode] Horizontal: 27° (TELE) – 82° (WDE)       Maximum Aperture Ratio     1:1.3 (WDE) – 1:2.5 (TELE) Focus range     0.3 m (11-3) (Ninches) – ∞       DORI Recognize (125ppm / 8ppf)     Wide: 3.7 m / 77.2 ft, Tele: 114.8 m Observe (62.5ppm / 19ppf)     Wide: 3.7 m / 77.2 ft, Tele: 115.1 m (Nide: 4.7 m / 15.4 ft, Tele: 23.0 m Identify (250ppm / 76ppf)       Adjusting Angle     Ceiling mounting     Horizontal: ±180° (PAN rotation pa Vertical : 0° to 100° (TILT rotation pa Vertical : ±100° (TILT rotation pa Vaw : -190° to +100° (YAW r	), Vertical : 21° (TELE) - 62° (WIDE) I, Vertical : 21° (TELE) - 62° (WIDE) n / 376.5 ft n / 376.5 ft n / 376.7 ft n / 37.7 ft rt) on part) otation part) rt)* otation part)
Angular Field of View     [16:9 mode] Horizontal: 37° (TELE) – 117° (WIDE] [4:3 mode] Horizontal: 27° (TELE) – 82° (WIDE)       Maximum Aperture Ratio     11:1.3 (WIDE) – 1:2.5 (TELE)       Focus range     0.3 m (11-3)/6 inches) – ∞       DORI     Detect (25ppm / 8ppf)       Wide: 23.5 m / 77.2 ft, Tele: 13.6 m       Identify (250pm / 76ppf)     Wide: 2.4 m / 30.9 ft, Tele: 45.9 m       Adjusting     Ceiling mounting       Any     : 1.9 ° 0 to 100° ° (TILT rotation pa Vertical: :100° ° (TILT rotation pa	), Vertical : 21° (TELE) - 62° (WIDE) , Vertical : 21° (TELE) - 62° (WIDE) n / 376.5 ft n / 150.6 ft n / 377.7 ft rt on part) otation part) otation part) rt)*
Angular Field of View     [16 : 9 mode] Horizontal : 37° (TELE) - 117° (WDE) [4 : 3 mode] Horizontal : 27° (TELE) - 82° (WDE)       Maximum Aperture Ratio     11:13 (WDE) - 11:2.5 (TELE) Focus range     0.3 m (11-13/16 inches) - ∞       DORI     Detect [25ppm / 8ppf]     Wide: 23.5 m ] 77.2 ft, Tele: 114.8 m Observe (62.5ppm / 13ppf]     Wide: 2.4 m ] 30.9 ft, Tele: 45.9 m Recognize (125ppm / 38ppf]       Adjusting Angle     Ceiling mounting     Horizontal : 180° (PAN rotation pa Vertical : 0° to 100° (TILT rotation pa Vertical : ±100° (TILT rotation pa Vertical : ±100° (TILT rotation pa Vaw : -190° to +100° (TILT rotation pa Vaw : -190° to 100° (VAW r -190° to 100° (TILT rotation pa Vaw : -190° to 100° (VAW r       Browser     Camera Control     Brightness, AUX On / Off	), Vertical : 21° (TELE) - 62° (WIDE) , Vertical : 21° (TELE) - 62° (WIDE) n / 376.5 ft n / 376.5 ft n / 150.6 ft n / 37.7 ft rt1 on part) otation part) otation part) rt1* rt1* otation part) prical angels by adjusting the PAN rotation part.
Angular Field of View     [16:9 mode] Horizontal: 37° (TELE) – 117° (WDE) [4:3 mode] Horizontal: 27° (TELE) – 82° (WDE)       Maximum Aperture Ratio     1:1.3 (WDE) – 1:2.5 (TELE)       Focus range     0.3 m (11-3] (bit inches) – ∞       DORI     Detect (25ppm / 8ppf)     Wide: 2.3 m / 7.2 ft, Tele: 114.8 m Observe (62.5ppm / 19ppf)       Recognize (125ppm / 13ppf)     Wide: 4.7 m / 15.4 ft, Tele: 23.0 m Identify (250ppm / 76ppf)       Adjusting Angle     Ceiling mounting     Horizontal: ±180° (PAN rotation pa Vertical: 0° to 100° (TLT rotation Yaw: :-190° to +100° (TLT rotation pa Vertical: ±10° (TLT rotation	), Vertical : 21° (TELE) - 62° (WIDE) I, Vertical : 21° (TELE) - 62° (WIDE) n / 376.5 ft n / 376.5 ft n / 376.5 ft n / 37.7 ft rt) on part) otation part) rt)* rt)* otation part) rt)* rt)* adjustment : Low / Middle / High
Angular Field of View     [16 : 9 mode] Horizontal : 37° (TELE) – 117° (WDE) [4 : 3 mode] Horizontal : 27° (TELE) – 82° (WDE)       Maximum Aperture Ratio     11:1.3 (WDE) – 11:2.5 (TELE)       Focus range     0.3 m (11-3) (for inches) – ∞       DORI     Detect (25ppm / 8ppf)     Wide: 23.5 m / 77.2 ft, Tele: 13.9 m Recognize (125ppm / 38ppf)       Identify (250pm / 76ppf)     Wide: 2.4 m / 30.9 ft, Tele: 45.9 m Recognize (125ppm / 38ppf)       Adjusting Angle     Celling mounting Wide: 2.4 m / 7.7 ft, Tele: 15.9 m Vertical : 100° (TILT rotation pa Vertical : 100° to +100° (YAW r * 34w : -190° to +100° (YAW r * You can change between horizontal and we Protect : 1100° (TILT rotation pa Vertical : 1100° (TILT rotation pa Ver	), Vertical : 21° (TELE) – 62° (WIDE) I, Vertical : 21° (TELE) – 62° (WIDE) n / 376.5 ft n / 376.5 ft n / 75.3 ft n / 75.3 ft n / 75.7 ft rt) on part) otation part) rt)* etation part) etation part) etati
Angular Field of View     [16 : 9 mode] Horizontal : 37° (TELE) – 117° (WIDE) [4 : 3 mode] Horizontal : 27° (TELE) – 82° (WIDE)       Maximum Aperture Ratio     11:13 (WIDE) – 11:2.5 (TELE)       Focus range     0.3 m (11-13/16 inches) – ∞       DORI     Detect (25ppm / 19ppf)     Wide: 23.5 m / 77.2 ft, Tele: 114.8 m dobsrve (62.5ppm / 19ppf)       Adjusting     Ceiling mounting     Horizontal : ±100 ° (FAN rotation pa Vertical : 0 ° to 100 ° (TILT rotation pa Vertical : ±100 ° (TILT rotation pa Vaw : -190° to +100 ° (YAW m *Vou can change between horizontal and w *Vou can change between horizontal and w dudio Output : 0n / Off Volume Audio       Browser GUI     Camera Control     Brightness, AUX On / Off Audio       Gui / Setup Menu Language     English, Italian, French, German, Spania	), Vertical : 21° (TELE) – 62° (WIDE) I, Vertical : 21° (TELE) – 62° (WIDE) n / 376.5 ft n / 376.5 ft n / 75.3 ft n / 75.3 ft n / 75.7 ft with on part) otation part) otation part) trical angels by adjusting the PAN rotation part. e adjustment : Low / Middle / High sch / Portuguese, Russian, Chinese, Japanese
Angular Field of View     [16:9 mode] Horizontal: 37° (TELE) – 117° (WDE) [4:3 mode] Horizontal: 27° (TELE) – 82° (WDE)       Maximum Aperture Ratio     1:1.3 (WDE) – 1:2.5 (TELE)       Focus range     0.3 m (11-3) (fin Iches) - ∞       DORI     Detect (25ppm / 8ppf)     Wide: 2.3 m / 77.2 ft, Tele: 114.8 m Observe (62.5ppm / 19ppf)       Recognize (125ppm / 13ppf)     Wide: 4.7 m / 15.4 ft, Tele: 23.0 m Identify (250ppm / 76ppf)       Adjusting Angle     Ceiling mounting     Horizontal: 1180° (PAN rotation pa Yaw : -190° to +100° (TLIT rotation Yaw : -190° to +100° (TLIT rotation pa Yaw : -1	), Vertical : 21° (TELE) – 62° (WIDE) I, Vertical : 21° (TELE) – 62° (WIDE) n / 376.5 ft n / 376.5 ft n / 376.5 ft n / 37.7 ft rt) on part) otation part) otation part) rtt'* etailongerky adjusting the PAN rotation part. etailongerky adjusting the P
Angular Field of View     [16 : 9 mode] Horizontal : 37° (TELE) – 117° (WDE) [4 : 3 mode] Horizontal : 27° (TELE) – 82° (WDE)       Maximum Aperture Ratio     1 : 1.3 (WDE) – 1: 2.5 (TELE)       Focus range     0.3 m (11-3) (6 inches) – ∞       DORI     Detect (25ppm / 8ppf)     Wide: 23.5 m / 77.2 ft, Tele: 11.8 m Recognize (125ppm / 38ppf)       Identify (250pm / 75ppf)     Wide: 2.4 m / 30.9 ft, Tele: 45.9 m Recognize (125ppm / 38ppf)       Adjusting Angle     Celling mounting     Horizontal : ±100° (TILT rotation pa Vertical : ±100° (TILT rotation pa Vertical : ±100° to ±100° (YAW r *3w : : -190° to ±100° (YAW r *3w : : -190° to ±100° (YAW r *0u can change between horizontal and we Browser       Guito     Gamera Control     Brightness, AUX On / Off Audio       Guit / Setup Menu Language Browser*4     English, Italian, French, German, Spani Browser *4       Network IF     10Base-T / 100Base-TX, R45 conner	), Vertical : 21° (TELE) – 62° (WIDE) I, Vertical : 21° (TELE) – 62° (WIDE) n / 376.5 ft n / 376.5 ft n / 75.3 ft n / 75.3 ft n / 75.7 ft rt) on part) otation part) rtt)* etical angels by adjusting the PAN rotation part. etical angels by adjusting the PAN rotation part.
Angular Field of View     [16:9 mode] Horizontal: 37° (TELE) – 117° (WDE) [4:3 mode] Horizontal: 27° (TELE) – 82° (WDE)       Maximum Aperture Ratio     1:1.3 (WDE) – 1:2.5 (TELE)       Focus range     0.3 m [11-3]/6 inches] – ∞       DORI     Detect (25ppm / 8ppf)       Mecognize (0.25ppm / 19ppf)     Wide: 3.4 m / 30.9 ft, Tele: 14.8 m Observe (62.5ppm / 19ppf)       Adjusting     Ceiling mounting       Vertical: 10° to 100° (TLIT rotation pa Vertical: ±100° to 1100° (TLIT rotation pa Yaw: :-190° to +100° (YAW ru 'You can change between horizontal at the Audio       Browser     Camera Control     Brightness, AUX On / Off       GUI / Setup Menu Language Browser'4     Brightness, AUX On / Off       GUI / Setup Menu Language Browser'4     English, Italian, French, German, Spania       GUI / Setup Menu Language Browser'4     Finglish, Italian, French, German, Spania	), Vertical : 21° (TELE) - 62° (WIDE) I, Vertical : 21° (TELE) - 62° (WIDE) I, Vertical : 21° (TELE) - 62° (WIDE) I, J376.5 ft n / 150.6 ft n / 150.6 ft n / 75.3 ft n / 37.7 ft trt) on part) otation part) rtt <sup>3</sup> etical angels by adjusting the PAN rotation part. etical angels by adjusting the PAN ro
Angular Field of View     [16:9 mode] Horizontal: 37° (TELE) – 117° (WDE) [4:3 mode] Horizontal: 27° (TELE) – 82° (WDE)       Maximum Aperture Ratio     1:1.3 (WDE) – 1:2.5 (TELE)       Focus range     0.3 m (11-3)(for liches) – ∞       DORI     Detect (25ppm / 8ppf)     Wide: 2.3 m / 7.2 ft, Tele: 11.4 s. m Observe (62.5ppm / 19ppf)       Recognize (125ppm / 13ppf)     Wide: 4.7 m / 15.4 ft, Tele: 12.3 on Identify (250ppm / 76pf)       Adjusting Angle     Ceiling mounting     Horizontal: 1180° (PAN rotation pa Yaw : -190° to +100° (YAW raw	), Vertical : 21° (TELE) – 62° (WIDE) I, Vertical : 21° (TELE) – 62° (WIDE) n / 376.5 ft n / 150.6 ft n / 75.3 ft n / 37.7 ft rt) on part) otation part) otation part) rtr)* e adjustment : Low / Middle / High a adjustment : Low / Middle / High b, Portuguese, Russian, Chinese, Japanese ome ctor 16 : 9 mode (30 fps mode)], 6 : 9 mode (25 fps mode)]
Angular Field of View     [16:9 mode] Horizontal: 37° (TELE) – 117° (WDE) [4:3 mode] Horizontal: 27° (TELE) – 82° (WDE)       Maximum Aperture Ratio     1:1.3 (WDE) – 1:2.5 (TELE)       Focus range     0.3 m (11-3] (binches) – ∞       DORI     Detect (25ppm / 8ppf)     Wide: 23.5 m / 77.2 ft, Tele: 114.8 m Observe (62.5ppm / 13ppf)       Recognize (125ppm / 38ppf)     Wide: 2.4 m / 30.9 ft, Tele: 45.9 m Identify (250ppm / 76ppf)     Wide: 2.4 m / 7.7 ft, Tele: 11.5 m Vide: 0° to 100° (TILT rotation pa Vertical : 0° to 100° (TILT rotation pa Vertical : ±100° (TILT rotation pa Verti	), Vertical : 21° (TELE) – 62° (WIDE) I, Vertical : 21° (TELE) – 62° (WIDE) n / 376.5 ft n / 376.5 ft n / 75.3 ft n / 75.3 ft n / 75.3 ft n / 75.3 ft n / 37.7 ft vertical angels by adjusting the PAN rotation part. exclusion part) otation part) otation part) exclusion part) exclusion part) exclusion part) exclusion part exclusion pa
Angular Field of View     [16:9 mode] Horizontal: 37° (TELE) – 117° (WIDE] [4:3 mode] Horizontal: 27° (TELE) – 82° (WIDE)       Maximum Aperture Ratio     11:1.3 (WIDE) – 11:2.5 (TELE)       Focus range     0.3 m (11-3)/6 inches) – ∞       DORI     Detect (25ppm / 8ppf)       Wide: 23.5 m / 77.2 ft, Tele: 114.8 m Observe (62.5ppm / 19ppf)     Wide: 24.4 m / 30.9 ft, Tele: 45.9 m Recognize (125ppm / 38ppf)       Adjusting Angle     Ceiling mounting     Horizontal: ±180° (PAN rotation pa Vertical: 0° to 100° (TILT rotation pa Vertical: ±100° (TILT rotati	), Vertical : 21° (TELE) – 62° (WIDE) I, Vertical : 21° (TELE) – 62° (WIDE) n / 376.5 ft n / 376.5 ft n / 75.3 ft n / 75.3 ft n / 75.3 ft n / 75.3 ft n / 37.7 ft vertical angels by adjusting the PAN rotation part. exclusion part) otation part) otation part) exclusion part) exclusion part) exclusion part) exclusion part exclusion pa
Angular Field of View     [16:9 mode] Horizontal: 37° (TELE) – 117° (WDE) [4:3 mode] Horizontal: 27° (TELE) – 82° (WDE)       Maximum Aperture Ratio     1:1.3 (WDE) – 1:2.5 (TELE)       Focus range     0.3 m (11-3)(16 inches) – ∞       DORI     Detect (25ppm / 8ppf)     Wide: 2.3 m / 77.2 ft, Tele: 11.4 s. m Observe (62.5ppm / 19ppf)       Recognize (125ppm / 13ppf)     Wide: 4.7 m / 15.4 ft, Tele: 23.0 m Identify (250ppm / 76ppf)       Adjusting Angle     Ceiling mounting     Horizontal: 1180° (PAN rotation pa Yaw : -190° to +100° (YAW rn *You can charge between horizontal and w Yaw : -190° to +100° (ILT rotation pa Yaw : -190° to +100° (YAW rn *You can charge between horizontal and w Audio       GUI     Setup Menu Language     English, talian, Fnech, German, Spani Browser*4       Network IF     108ase-TJ / 100Base-TJ, Ru45 connee Resolution     [16: 9 mode (30 fps mode)]? - [1 1920x1080, 1280x720, 640x360, 32 (I 4: 3 mode (30 fps mode)], 2, 13 1280x960, VGA, QVGA	), Vertical : 21° (TELE) – 62° (WIDE) I, Vertical : 21° (TELE) – 62° (WIDE) I, Vertical : 21° (TELE) – 62° (WIDE) I, J
Angular Field of View     [16:9 mode] Horizontal: 37° (TELE) – 117° (WDE) [4:3 mode] Horizontal: 27° (TELE) – 82° (WDE)       Maximum Aperture Ratio     1:1.3 (WDE) – 1:2.5 (TELE)       Focus range     0.3 m (11-3] (binches) – ∞       DORI     Detect (25ppm / 8ppf)     Wide: 2.4 m / 30.9 ft, Tele: 114.8 m Observe (62.5ppm / 19ppf)       Recognize (125ppm / 38ppf)     Wide: 4.7 m / 15.4 ft, Tele: 23.0 m Identify (250ppm / 76ppf)       Adjusting Angle     Celling mounting     Horizontal: 1100° (FUI rotation pa Vertical : 0° to 100° (TUI rotation pa Vertical : 10° o° to 100° (TUI rotation pa Vertical : ±100° (TU rotation pa Vertical : ±10	), Vertical : 21° (TELE) – 62° (WIDE) I, Vertical : 21° (TELE) – 62° (WIDE) n / 376.5 ft n / 376.5 ft n / 376.5 ft n / 37.7 ft rt) on part) otation part) otation part) rtitl adjustment : Low / Middle / High adjustment : Low / Middle / High adjustment : Low / Middle / High adjustment : Low / Middle / High come ctor 6 : 9 mode (30 fps mode)]. 6 : 9 mode (25 fps mode)] smode (12.5 fps mode)]
Angular Field of View     [16:9 mode] Horizontal: 37° (TELE) – 117° (WDE) [4:3 mode] Horizontal: 27° (TELE) – 82° (WDE)       Maximum Aperture Ratio     1:1.3 (WDE) – 1:2.5 (TELE)       Focus range     0.3 m (11-3)(16 inches) – ∞       DORI     Detect (25ppm / 8ppf)     Wide: 2.3 m / 77.2 ft, Tele: 11.4 s. m Observe (62.5ppm / 19ppf)       Recognize (125ppm / 13ppf)     Wide: 4.7 m / 15.4 ft, Tele: 23.0 m Identify (250ppm / 76ppf)       Adjusting Angle     Ceiling mounting     Horizontal: 1180° (PAN rotation pa Yaw : -190° to +100° (YAW rn *You can charge between horizontal and w Yaw : -190° to +100° (ILT rotation pa Yaw : -190° to +100° (YAW rn *You can charge between horizontal and w Audio       GUI     Setup Menu Language     English, talian, Fnech, German, Spani Browser*4       Network IF     108ase-TJ / 100Base-TJ, Ru45 connee Resolution     [16: 9 mode (30 fps mode)]? - [1 1920x1080, 1280x720, 640x360, 32 (I 4: 3 mode (30 fps mode)], 2, 13 1280x960, VGA, QVGA	), Vertical : 21° (TELE) – 62° (WIDE) , Vertical : 21° (TELE) – 62° (WIDE) n / 376.5 ft n / 150.6 ft n / 75.3 ft n / 75.3 ft n / 75.7 ft rt) on part) obtaion part) obtaion part) rtt)* etical angels by adjusting the PAN rotation part. etical angels
Angular Field of View     [16:9 mode] Horizontal: 37° (TELE) – 117° (WDE) [4:3 mode] Horizontal: 27° (TELE) – 82° (WDE)       Maximum Aperture Ratio     11:1.3 (WDE) – 1:2.5 (TELE)       Focus range     0.3 m (11-3)(6 inches) – ∞       DORI     Detect (25ppm / 8ppf)     Wide: 23.5 m / 77.2 ft, Tele: 114.8 m Observe (62.5ppm / 19ppf)       Identify (250pm / 75ppf)     Wide: 2.4 m / 30.9 ft, Tele: 45.9 m Recognize (125ppm / 38ppf)       Adjusting     Celling mounting       Horizontal: ±100° (TILT rotation pa Vertical: ±100° (TILT rotation pa Vertical: ±100° (TILT rotation pa Vaw : =-190° to +100° (YAW r *You can change between horizontal and we Browser       Camera Control     Brightness, AUX On / Off Audio       Adjusting Horizontal: ±100° (TILT rotation pa Vertical: ±100° (TILT rotation pa Vaw : =-190° to +100° (YAW r *You can change between horizontal and we Browser       Rouser*4     Microsoft Edge, Firefox, Google Chm Mic (Line) Input: On / Off Volume GUI / Setup Menu Language Browser*4       Resolution H.265/ H.264/ JPEG (MJPEC)     [16:9 mode (60 fps mode)]?, [1 (16:9 mode (60 fps mode)]?, [1 (16:9 mode (30 fps mode)], [4: 3 1280x960, VGA, QVGA (4:3 mode (30 fps mode)], [4: 3 1280x960, VGA, QVGA	), Vertical : 21° (TELE) – 62° (WIDE) I, Vertical : 21° (TELE) – 62° (WIDE) I, Vertical : 21° (TELE) – 62° (WIDE) I, J

Network	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
	hadio compression	G.711 : 64 kbps
		AAC-LC <sup>*7</sup> : 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,
	Supported Hotocol	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, MOTT, LLDP
	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
	Mentory Card	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
	Mahila Tanainal Canaatibilita	microSD memory card : 2 GB
	Mobile Terminal Compatibility ONVIF <sup>®</sup> Profile	iPad, iPhone, Android™ terminals
Alarm	Alarm Source	G / M / S / T 3 terminals input, VMD alarm, Command alarm, Audio detection alarm
Alarm	Alarm Actions	SDXC/SDHC/SD memory recording, E-mail notification,
	AIdTTLACTIONS	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 <sup>*8</sup>	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 kΩ (unbalanced)
		Supply voltage : 2.5 V ±0.5 V
	For line input :	Input level : Approx. –10 dBV
	Audio Output <sup>*8</sup>	ø3.5 mm stereo mini jack (monaural output)
		Output impedance : Approx. 600 Ω (unbalanced)
		Output level : -20 dBV
	External I/O Terminals <sup>*8</sup>	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 ClassB, EN55035
	Power Source and	DC power supply"8 : DC12 V 710 mA, Approx. 8.5 W
	Power Consumption	PoE (IEEE802.3af compliant) Device : DC48 V 190 mA, Approx. 9.1 W (Class 0 device)
	Ambient Operating	-40 °C to +60 °C (-40 °F to 140 °F) <sup>*9</sup>
	Temperature	(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, IEC60529 measuring standard compatible, 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
*1 Converte		

\*1 Converted value

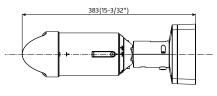
<sup>1</sup> Converted value
<sup>2</sup> When 60 fps or 50 fps is selected, the Super Dynamic function is automatically set to off.
<sup>3</sup> When the 60 fps mode, 50 fps mode, 15 fps mode or 12.5 fps mode is used, the "90" and "270" settings are not available. When the 320x180 resolution is used, the "90" and "270" settings are not available.
<sup>4</sup> For information on the operation verification of the supported web browsers, refer to our support website

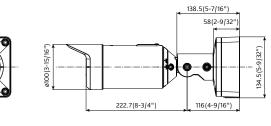
<Control No.: C0132>. \*5 Used by super resolution techniques

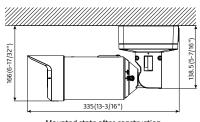
\*6 Transmission for 4 streams can be individually set. \*7 When recording audio on an microSD memory card, only use AAC-LC (Advanced Audio Coding - Low Complexity). \*8 When using with these, WV-QCA501A cable is required. \*9 When using with the IR LED light constantly lit, the upper limit of the operating temperature range is +50 °C (+122 °F).

# Appearance

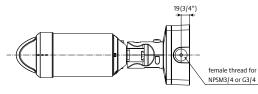












female thread for conduit

Unit : mm (inches)

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

#### AI Video Motion Detection (AI-VMD)

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

#### **AI 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.

#### AI Face Detection

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

#### AI People Detection

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

3rd party applications are also available

http://i-pro.com/global/en/surveillance/i-pro-application-platform/application-list

## **Optional Accessories**

#### Mount Bracket





\* WV-QCA500APK and WV-QCA501APK are package of 10 cables. \*The color of the grommet rubber may differ depending on the production time, but the performance and mounting method will not change.

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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.

#### 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.



i-PRO Co., Ltd. https://i-pro.com/ (2A-282CA)

#### AI Vehicle Detection

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.

#### AI 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.