

WV-S1536LN-B

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.

The black color is easily fits into an installation space.

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.

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

Industry examples

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





Specifications

-	incations	1
Camera	Image Sensor	Approx. 1/2.8 type CMOS image sensor
	Minimum Illumination	Color : 0.007 lx (30IRE, F1.3, 1/30s) *1
		Color : 0.009 lx (50IRE, F1.3, 1/30s)
		BW : 0.005 lx (50IRE, F1.3, 1/30s)
		BW : 0 lx (50IRE, F1.3,1/30s with IR LED)
	White Balance	ATW1 / ATW2 / AWC
	Shutter Speed	[60 fps Mode] 1/60 Fix to 1/10000 Fix,
	shatter speed	[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
	Intelligent Auto	On / Off
	Super Dynamic ^{*2}	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) /
	color/bit (icit)	Auto2 (IR Light On) / Auto3 (SCC)
	IR LED Light	High / Middle / Low / Off,
		Maximum irradiation distance: 70 m {Approx. 230 ft} (30IRE) *1
		50 m {Approx. 164 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 ^{*3}	0°/90°/180°/270°
	Camera Title (OSD)	On / Off, Up to 40 characters (alphanumeric characters, marks)
	Focus Adjustment	Auto focus
Lens	Optical zoom	3.1x (Motorized zoom / Motorized Focus)
Lens	Extra zoom	3.1x - 9.3x (when resolution is 640 x 360)
Lens	Extra zoom Focal length	3.1x - 9.3x (when resolution is 640 x 360) 2.9 - 9 mm {1/8 inches - 11/32 inches}
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reuz	Extra zoom Focal length Angular Field of View	3.1x - 9.3x (when resolution is 640 x 360) 2.9 - 9 mm {1/8 inches - 11/32 inches} [16 : 9 mode] Horizontal : 37° (TELE) - 117° (WIDE), Vertical : 21° (TELE) - 62° (WIDE) [4 : 3 mode] Horizontal : 27° (TELE) - 82° (WIDE), Vertical : 21° (TELE) - 62° (WIDE)
reuz	Extra zoom Focal length Angular Field of View Maximum Aperture Ratio	3.1x - 9.3x (when resolution is 640 x 360) 2.9 - 9 mm {1/8 inches - 11/32 inches} [f6:9 mode] Horizontal : 37° (TELE) - 117° (WIDE), Vertical : 21° (TELE) - 62° (WIDE) [4 :3 mode] Horizontal : 27° (TELE) - 82° (WIDE), Vertical : 21° (TELE) - 62° (WIDE) 1 : 1.3 (WIDE) - 1 : 2.5 (TELE)
	Extra zoom Focal length Angular Field of View Maximum Aperture Ratio Focus range	3.1x - 9.3x (when resolution is 640 x 360) 2.9 - 9 mm {1/8 inches - 11/32 inches} [16 : 9 mode] Horizontal : 37° (TELE) - 117° (WIDE), Vertical : 21° (TELE) - 62° (WIDE) [4 : 3 mode] Horizontal : 27° (TELE) - 82° (WIDE), Vertical : 21° (TELE) - 62° (WIDE) 1 : 1.3 (WIDE) - 1 : 2.5 (TELE) 0.3 m (11-13)16 inches) - ∞
	Extra zoom Focal length Angular Field of View Maximum Aperture Ratio Focus range Detect (25ppm / 8ppf)	3.1x - 9.3x (when resolution is 640 x 360) 2.9 - 9 mm {1/8 inches - 11/32 inches} [16 : 9 mode] Horizontal: 37° (TELE) - 117° (WIDE), Vertical : 21° (TELE) - 62° (WIDE) [4 : 3 mode] Horizontal: 27° (TELE) - 82° (WIDE), Vertical : 21° (TELE) - 62° (WIDE) 1 : 1.3 (WIDE) - 1 : 2.5 (TELE) 0.3 m {11-13/16 inches} - ∞ Wide: 23.5 m 77.2 ft, Tele: 114.8 m 376.5 ft
	Extra zoom Focal length Angular Field of View Maximum Aperture Ratio Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf)	3.1x - 9.3x (when resolution is 640 x 360) 2.9 - 9 mm {1/8 inches - 11/32 inches} [f6 : 9 mode] Horizontal : 37° (TELE) - 117° (WIDE), Vertical : 21° (TELE) - 62° (WIDE) [4 : 3 mode] Horizontal : 27° (TELE) - 82° (WIDE), Vertical : 21° (TELE) - 62° (WIDE) 1 : 1.3 (WIDE) - 1 : 2.5 (TELE) 0.3 m (11-13/16 inches) - ∞ Wide: 23.5 m / 77.2 ft, Tele: 114.8 m / 376.5 ft Wide: 9.4 m / 30.9 ft, Tele: 45.9 m / 150.6 ft
	Extra zoom Focal length Angular Field of View Maximum Aperture Ratio Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125pm / 38ppf)	$\begin{array}{c} 3.1x - 9.3x (when resolution is 640 x 360) \\ \hline 2.9 - 9 mm \{18 inches - 11/32 inches\} \\ \hline \begin{tabular}{lllllllllllllllllllllllllllllllllll$
DORI	Extra zoom Focal length Angular Field of View Maximum Aperture Ratio Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38pf) Identify (250pm / 76ppf)	$\begin{array}{c} 3.1x - 9.3x (when resolution is 640 x 360) \\ \hline 2.9 - 9 mm \{1/8 inches - 11/32 inches\} \\ \hline \end{tabular} \en$
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DORI	Extra zoom Focal length Angular Field of View Maximum Aperture Ratio Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38pf) Identify (250pm / 76ppf)	3.1x - 9.3x (when resolution is 640 x 360) 2.9 - 9 mm {18 inches - 11/32 inches} [f6 : 9 mode] Horizontal : 37° (TELE) - 117° (WIDE), Vertical : 21° (TELE) - 62° (WIDE) [4 : 3 mode] Horizontal : 27° (TELE) - 82° (WIDE), Vertical : 21° (TELE) - 62° (WIDE) 1 : 1.3 (WIDE) - 1 : 2.5 (TELE) 0.3 m (11-13/16 inches) - ∞ Wide: 23.5 m / 77.2 ft, Tele: 114.8 m / 376.5 ft Wide: 24.7 m / 15.4 ft, Tele: 39.0 m / 75.3 ft Wide: 2.4 m / 7.7 ft, Tele: 11.5 m / 37.7 ft Horizontal : 10° to 100° (TILT rotation part) Vertical : 0° to 100° (TILT rotation part)
DORI	Extra zoom Focal length Angular Field of View Maximum Aperture Ratio Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Ceiling mounting	3.1x - 9.3x (when resolution is 640 x 360) 2.9 - 9 mm {18 inches - 11/32 inches} [16 : 9 mode] Horizontal: 37° (TELE) - 117° (WIDE), Vertical : 21° (TELE) - 62° (WIDE) [4 : 3 mode] Horizontal: 27° (TELE) - 82° (WIDE), Vertical : 21° (TELE) - 62° (WIDE) 1 : 13 (WIDE) - 1: 2.5 (TELE) 0.3 m (11-13/16 inches) - ∞ Wide: 23.5 m / 77.2 ft, Tele: 114.8 m / 376.5 ft Wide: 9.4 m / 30.9 ft, Tele: 45.9 m / 150.6 ft Wide: 2.4 m / 15.4 ft, Tele: 23.0 m / 75.3 ft Wide: 2.4 m / 7.7 ft, Tele: 11.5 m / 37.7 ft Horizontal: 180° (PAN rotation part) Vertical : 0° to 100° (TILT rotation part) Yaw : -190° to +100° (YAW rotation part)
DORI	Extra zoom Focal length Angular Field of View Maximum Aperture Ratio Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38pf) Identify (250pm / 76ppf)	$\label{eq:2.1.1} \begin{array}{l} 3.1x - 9.3x (when resolution is 640 x 360) \\ \hline 2.9 - 9 mm \{1/8 inches - 11/32 inches \} \\ \hline \begin{tabular}{lllllllllllllllllllllllllllllllllll$
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DORI Adjusting Angle	Extra zoom Focal length Angular Field of View Maximum Aperture Ratio Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Ceiling mounting Wall mounting	$\label{eq:3.1.6} \begin{array}{c} 3.1.6 & -9.3.c (when resolution is 640 x 360) \\ \hline $2.9 - 9 mm \{1/8 inches - 11/32 inches \} \\ \hline $16:9 mode] \\ \hline $Horizontal : 37^{\circ} (TELE) - 117^{\circ} (WIDE), Vertical : 21^{\circ} (TELE) - 62^{\circ} (WIDE) \\ \hline $1 : 3 mode] \\ \hline $Horizontal : 27^{\circ} (TELE) - 82^{\circ} (WIDE), Vertical : 21^{\circ} (TELE) - 62^{\circ} (WIDE) \\ \hline $1 : 1.3 (WIDE) - 1 : 2.5 (TELE) \\ \hline $0.3 m (11-13)16 inches) - \infty \\ \hline $Wide: 23.5 m 7.7.2 t, Tele: 114.8 m 376.5 ft \\ \hline $Wide: 24.5 m 77.2 t, Tele: 115.8 m 376.5 ft \\ \hline $Wide: 4.7 m 15.4 ft, Tele: 23.0 m 75.3 ft \\ \hline $Wide: 4.7 m 7.7 t, Tele: 11.5 m 37.7 ft \\ \hline $Horizontal : 1180^{\circ} (PAN rotation part) \\ \hline $Vaw : -190^{\circ} to +100^{\circ} (YAW rotation part) \\ \hline $Vartial : 1100^{\circ} (TILT rotation part)^{*} \\ \hline $Vartial : 1:00^{\circ} (TILT rotation part) \\ \hline $Vaw : -190^{\circ} to +100^{\circ} (YAW rotation part) \\ \hline $Vaw : -190^{\circ} to +00^{\circ} (YAW rotation part) \\ \hline $Vaw : -190^{\circ} to +00^{\circ} (YAW rotation part) \\ \hline $Vaw : -190^{\circ} to +00^{\circ} (YAW rotation part) \\ \hline $Vaw : -190^{\circ} to +00^{\circ} (YAW rotation part) \\ \hline $Vaw : -190^{\circ} to +00^{\circ} (YAW rotation part) \\ \hline $Vaw : -190^{\circ} to +00^{\circ} (YAW rotation part) \\ \hline $Vav an change between horizontal and vertical angels by adjusting the PAN rotation part. \\ \hline $Vav an change between horizontal and vertical angels by adjusting the PAN rotation part. \\ \hline $Vav an change between horizontal and vertical angels by adjusting the PAN rotation part. \\ \hline $Vav an change between horizontal and vertical angels by adjusting the PAN rotation part. \\ \hline $Vav an change between horizontal and vertical angels by adjusting the PAN rotation part. \\ \hline $Vav an change between horizontal and vertical angels by adjusting the PAN rotation part. \\ \hline $Vav an change between horizontal and vertical angels by adjusting the PAN rotation part. \\ \hline $Vav an change between horizontal and vertical angels by adjusting the PAN rotation part. \\ \hline $Vav an change between horizontal and vertical angels by adjusting the PAN rotation part. \\ \hline $Vav an change between horizontal and ver$
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DORI Adjusting Angle Browser	Extra zoom Focal length Angular Field of View Maximum Aperture Ratio Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Ceiling mounting Wall mounting Camera Control Audio	$\label{eq:3.1.6} \begin{array}{l} 3.1.6 & -9.3.c (when resolution is 640 x 360) \\ \hline $2.9 - 9 mm \{1/8 inches - 11/32 inches \} \\ \hline $16:9 mode] \\ \hline $Horizontal : 37^{\circ} (TELE) - 117^{\circ} (WIDE), Vertical : 21^{\circ} (TELE) - 62^{\circ} (WIDE) \\ \hline $1 + 3 mode] \\ \hline $Horizontal : 27^{\circ} (TELE) - 82^{\circ} (WIDE), Vertical : 21^{\circ} (TELE) - 62^{\circ} (WIDE) \\ \hline $1 : 1.3 (WIDE) - 1 : 2.5 (TELE) \\ \hline $0.3 m (11-13)16 inches) - \infty \\ \hline $Wide: 23.5 m 77.2 t, Tele: 114.8 m [376.5 ft \\ \hline $Wide: 24.5 m] 77.2 t, Tele: 115.8 m] 376.5 ft \\ \hline $Wide: 4.7 m] 15.4 ft, Tele: 23.0 m] 75.3 ft \\ \hline $Wide: 4.7 m] 7.7 t, Tele: 11.5 m] 37.7 ft \\ \hline $Horizontal : ±180^{\circ} (PAN rotation part) \\ \hline $Vaw : -190^{\circ} to 100^{\circ} (YAW rotation part) \\ \hline $Vartial : ±100^{\circ} (TILT rotation part)^{*} \\ \hline $Vaw : -190^{\circ} to +100^{\circ} (YAW rotation part) \\ \hline $Vaw : -190^{\circ} to +100^{\circ} (YAW rotation part) \\ \hline $Vaw : -190^{\circ} to +100^{\circ} (YAW rotation part) \\ \hline $Vau canage between horizontal and vertical angels by adjusting the PAN rotation part. \\ \hline $F'so can change between horizontal and vertical angels by adjusting the PAN rotation part. \\ \hline $Wide : Canage between horizontal and vertical angels by adjusting the PAN rotation part. \\ \hline $Wide : Canage between horizontal and vertical angels by adjusting the PAN rotation part. \\ \hline $Wide : Canage between horizontal and vertical angels by adjusting the PAN rotation part. \\ \hline $Wide : Canage between horizontal and vertical angels by adjusting the PAN rotation part. \\ \hline $Wide : Canage between horizontal and vertical angels by adjusting the PAN rotation part. \\ \hline $Wide : Canage between horizontal and vertical angels by adjusting the PAN rotation part. \\ \hline $Wide : Canage between horizontal and vertical angels by adjusting the PAN rotation part. \\ \hline $Wide : Canage between horizontal and vertical angels by adjusting the PAN rotation part. \\ \hline $Wide : Canage between horizontal and vertical angels by adjusting the PAN rotation part. \\ \hline $Wide : Canage between horizontal and vertical angels by adjusting the PAN rotation part. \\ \hline $Wide : S$
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DORI Adjusting Angle Browser GUI	Extra zoom Focal length Angular Field of View Maximum Aperture Ratio Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Identify (250ppm / 76ppf) Ceiling mounting Wall mounting Camera Control Audio GUI / Setup Menu Language Browser'4	3.1x - 9.3x (when resolution is 640 x 360) 2.9 - 9 mm {18 inches - 11/32 inches} [f6 : 9 mode] Horizontal : 37° (TELE) - 117° (WIDE), Vertical : 21° (TELE) - 62° (WIDE) [4 : 3 mode] Horizontal : 27° (TELE) - 82° (WIDE), Vertical : 21° (TELE) - 62° (WIDE) 1 : 1.3 (WIDE) - 1 : 2.5 (TELE) 0.3 m {11-13/16 inches} - ∞ Wide: 23.5 m / 77.2 ft, Tele: 11.4.8 m / 376.5 ft Wide: 24.7 m / 15.4 ft, Tele: 32.0 m / 75.3 ft Wide: 2.4 m / 7.7 ft, Tele: 11.5 m / 37.7 ft Horizontal : 180° (PAN rotation part) Vertical : 0° to 100° (TILT rotation part) Vertical : 100° (TILT rotation part) Yaw : -190° to +100° (YAW rotation part) Yaw : -190° to +100° (YAW rotation part) *You can change between horizontal and vertical angels by adjusting the PAN rotation part. Brightness, AUX On / Off Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High Audio Output : Con / Off Volume adjustment : Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome
DORI Adjusting Angle Browser GUI	Extra zoom Focal length Angular Field of View Maximum Aperture Ratio Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Ceiling mounting Wall mounting Wall mounting Gul / Setup Menu Language Browser' 4 Network IF	3.1x - 9.3x (when resolution is 640 x 360) 2.9 - 9 mm {1/8 inches - 11/32 inches} [f6 : 9 mode] Horizontal : 37° (TELE) - 117° (WIDE), Vertical : 21° (TELE) - 62° (WIDE) [4 : 3 mode] Horizontal : 27° (TELE) - 82° (WIDE), Vertical : 21° (TELE) - 62° (WIDE) 1 : 1.3 (WIDE) - 1 : 2.5 (TELE) 0.3 m (11-13)16 inches) - ∞ Wide: 2.5 m 77.2 ft, Tele: 114.8 m { 376.5 ft Wide: 9.4 m / 30.9 ft, Tele: 45.9 m / 150.6 ft Wide: 4.7 m / 15.4 ft, Tele: 11.5 m { 377. ft Horizontal : ±180° (PAN rotation part) Yertical : 0° to 100° (TILT rotation part) Yaw : -190° to +100° (YAW rotation part) Horizontal : ±100° (TILT rotation part) Yaw : -190° to +100° (YAW rotation part) *You can change between horizontal and vertical angels by adjusting the PAN rotation part. Brightness, AUX On J Off Mic (Line) Input : On J Off Volume adjustment : Low / Middle / High English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Microsoft Edge, Firefox, Google Chrome 108ase-TJ, 1008ase-TJ, Na45 connector
DORI Adjusting Angle Browser	Extra zoom Focal length Angular Field of View Maximum Aperture Ratio Focus range Detect (25ppm / 8ppf) Observe (62:Sppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Ceiling mounting Wall mounting Wall mounting Camera Control Audio GUI / Setup Menu Language Browser'4 Network IF Resolution	3.1k - 9.3k (when resolution is 640 x 360) 2.9 - 9 mm {1/8 inches - 11/32 inches} [f6:9 mode] Horizontal : 37° (TELE) - 117° (WIDE), Vertical : 21° (TELE) - 62° (WIDE) [4 : 3 mode] Horizontal : 27° (TELE) - 82° (WIDE), Vertical : 21° (TELE) - 62° (WIDE) 1 : 1.3 (WIDE) - 1 : 2.5 (TELE) 0.3 m (11-13/16 inches) - ∞ Wide: 2.5 m / 77.2 ft, Tele: 14.8 m / 376.5 ft Wide: 3.5 m / 77.2 ft, Tele: 14.8 m / 376.5 ft Wide: 2.4 m / 30.9 ft, Tele: 45.9 m / 150.6 ft Wide: 2.4 m / 30.9 ft, Tele: 11.5 m / 37.7 ft Horizontal : 180° (PAN rotation part) Yaw : -190° to +100° (VAW rotation part) Horizontal : ±100° (TILT rotation part) Yaw : -190° to +100° (VAW rotation part) Horizontal : ±100° (TILT rotation part) You can change between horizontal and vertical angels by adjusting the PAN rotation part. Brightness, AUX On / Off Mic (Line) Input : 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, RI45 connector
DORI Adjusting Angle Browser GUI	Extra zoom Focal length Angular Field of View Maximum Aperture Ratio Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Ceiling mounting Wall mounting Wall mounting Gul / Setup Menu Language Browser' 4 Network IF	$\label{eq:second} \begin{array}{c} 1.1x - 9.3x (when resolution is 640 x 360)\\ 2.9 - 9 mm \{18 inches - 11/32 inches\}\\ \hline \end{tabular} \\ \hline tabur$
DORI Adjusting Angle Browser GUI	Extra zoom Focal length Angular Field of View Maximum Aperture Ratio Focus range Detect (25ppm / 8ppf) Observe (62:Sppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Ceiling mounting Wall mounting Wall mounting Camera Control Audio GUI / Setup Menu Language Browser'4 Network IF Resolution	3.1x - 9.3x (when resolution is 640 x 360) 2.9 - 9 mm {1/8 inches - 11/32 inches} [f6: 9 mode] Horizontal : 37° (TELE) - 117° (WIDE), Vertical : 21° (TELE) - 62° (WIDE) [4 : 3 mode] Horizontal : 27° (TELE) - 82° (WIDE), Vertical : 21° (TELE) - 62° (WIDE) 1 : 1.3 (WIDE) - 1 : 2.5 (TELE) 0.3 m (11-13)16 inches) - ∞ Wide: 2.5 m 77.2 ft, Tele: 114.8 m { 376.5 ft Wide: 9.4 m { 30.9 ft, Tele: 45.9 m { 150.6 ft Wide: 4.7 m { 15.4 ft, Tele: 13.5 m { 37.7 ft} Horizontal : ±180° (PAN rotation part) Yertical : 0° to 100° (TILT rotation part) Yaw : -190° to +100° (YAW rotation part) Horizontal : ±100° (TILT rotation part) Yaw : -190° (trut rotation part) Yaw : -190° to +100° (YAW rotation part) *You can change between horizontal and vertical angels by adjusting the PAN rotation part. Brightness, AUX On J Off Mic (Line) Input : On J 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, Ru45 connector [f6 : 9 mode (60 fps mode)] ² , [f6 : 9 mode (25 fps mode)] 1920x1080, 1280x720, 640x360, 320x180
DORI Adjusting Angle Browser GUI	Extra zoom Focal length Angular Field of View Maximum Aperture Ratio Focus range Detect (25ppm / 8ppf) Observe (62:Sppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Ceiling mounting Wall mounting Wall mounting Camera Control Audio GUI / Setup Menu Language Browser'4 Network IF Resolution	$\label{eq:second} \begin{array}{c} 1.1x - 9.3x (when resolution is 640 x 360)\\ 2.9 - 9 mm \{18 inches - 11/32 inches\}\\ \hline \end{tabular} \\ \hline tabur$
DORI Adjusting Angle Browser GUI	Extra zoom Focal length Angular Field of View Maximum Aperture Ratio Focus range Detect (25ppm / 8ppf) Observe (62:Sppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Ceiling mounting Wall mounting Wall mounting Camera Control Audio GUI / Setup Menu Language Browser'4 Network IF Resolution	3.1x - 9.3x (when resolution is 640 x 360) 2.9 - 9 mm {1/8 inches - 11/32 inches} [f6: 9 mode] Horizontal : 37° (TELE) - 117° (WIDE), Vertical : 21° (TELE) - 62° (WIDE) [4 : 3 mode] Horizontal : 27° (TELE) - 82° (WIDE), Vertical : 21° (TELE) - 62° (WIDE) 1 : 1.3 (WIDE) - 1 : 2.5 (TELE) 0.3 m (11-13)16 inches) - ∞ Wide: 2.5 m 77.2 ft, Tele: 114.8 m { 376.5 ft Wide: 9.4 m { 30.9 ft, Tele: 45.9 m { 150.6 ft Wide: 4.7 m { 15.4 ft, Tele: 13.5 m { 37.7 ft} Horizontal : ±180° (PAN rotation part) Yertical : 0° to 100° (TILT rotation part) Yaw : -190° to +100° (YAW rotation part) Horizontal : ±100° (TILT rotation part) Yaw : -190° (trut rotation part) Yaw : -190° to +100° (YAW rotation part) *You can change between horizontal and vertical angels by adjusting the PAN rotation part. Brightness, AUX On J Off Mic (Line) Input : On J 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, Ru45 connector [f6 : 9 mode (60 fps mode)] ² , [f6 : 9 mode (25 fps mode)] 1920x1080, 1280x720, 640x360, 320x180
DORI Adjusting Angle Browser GUI	Extra zoom Focal length Angular Field of View Maximum Aperture Ratio Focus range Detect (25ppm / 8ppf) Observe (62:Sppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Ceiling mounting Wall mounting Wall mounting Camera Control Audio GUI / Setup Menu Language Browser'4 Network IF Resolution	$\label{eq:second} \begin{array}{llllllllllllllllllllllllllllllllllll$
DORI Adjusting Angle Browser GUI	Extra zoom Focal length Angular Field of View Maximum Aperture Ratio Focus range Detect (25ppm / 8ppf) Observe (62:Sppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Ceiling mounting Wall mounting Wall mounting Camera Control Audio GUI / Setup Menu Language Browser'4 Network IF Resolution	1.1k - 9-3x (when resolution is 640 x 360) 2.9 - 9 mm {1/8 inches - 11/32 inches} [16 : 9 mode] Horizontal : 37° (TELE) - 117° (WIDE), Vertical : 21° (TELE) - 62° (WIDE) [4 : 3 mode] Horizontal : 27° (TELE) - 82° (WIDE), Vertical : 21° (TELE) - 62° (WIDE) 1 : 1.3 (WIDE) - 1 : 2.5 (TELE) 0.3 m (1-13)16 inches) - ∞ Wide: 2.3 E m 7.7 2. ft, Tele: 114.8 m / 376.5 ft Wide: 9.4 m / 30.9 ft, Tele: 45.9 m / 150.6 ft Wide: 4.7 m / 15.4 ft, Tele: 13.6 m / 75.3 ft Wide: 2.1 m / 7.7 ft, Tele: 11.5 m / 37.7 ft Horizontal : ±180° (PAN rotation part) Vertical : ±100° (TILT rotation part) Vertical : ±100° (TILT rotation part) Yaw : -190° to +100° (YAW rotation part) *You can change between horizontal and vertical angels by adjusting the PAN rotation part. Brightness, AUX 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 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)] ⁷ , [16 : 9 mode (25 fps mode)] 1280x960, VGA, QVGA [4 : 3 mode (136 fps mode)], [4 : 3 mode (12.5 fps mode)]
DORI Adjusting Angle Browser GUI	Extra zoom Focal length Angular Field of View Maximum Aperture Ratio Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Ceiling mounting Wall mounting Wall mounting Camera Control Audio GUI / Setup Menu Language Browser ²⁴ Network IF Resolution H.265/ H.264/ JPEG (MJPEG)	3.1k - 9.3k (when resolution is 640 x 360) 2.9 - 9 mm {1/8 inches - 11/32 inches} [16 : 9 mode] Horizontal : 37° (TELE) - 117° (WIDE), Vertical : 21° (TELE) - 62° (WIDE) [4 : 3 mode] Horizontal : 27° (TELE) - 82° (WIDE), Vertical : 21° (TELE) - 62° (WIDE) 1 : 1.3 (WIDE) - 1 : 2.5 (TELE) 0.3 m (11-13)16 inches) - ∞ Wide: 2.5 m / 77.2 ft, Tele: 114.8 m 376.5 ft Wide: 2.5 m / 77.2 ft, Tele: 13.5 m 75.3 ft Wide: 2.4 m / 30.9 ft, Tele: 15.5 m 75.3 ft Wide: 2.4 m / 15.4 ft, Tele: 13.5 m 77.7 ft Horizontal : 180° (PAN rotation part) Vertical : 10° ° to 10° ('TILT rotation part) Yaw : -190° to +100° ('VAW rotation part) Horizontal : 100° ('TILT rotation part) ⁴ Yaw : -190° to +100° ('VAW rotation part) Horizontal : 100° ('TILT rotation part) ⁴ Yaw : -190° to +100° ('VAW rotation part) Horizontal : 100° ('TILT rotation part) ⁴ Yaw : -190° to +100° (VAW rotation part) Horizontal : 0.7 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 106ase-7T, 100Base-7T, N435 connector 116 : 9 mode (50 fps mode)] ⁷² , [16 : 9 mode (30 fps mode)], [16 : 9 mode (50 fps mode)] ⁷² , [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
DORI Adjusting Angle Browser GUI	Extra zoom Focal length Angular Field of View Maximum Aperture Ratio Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (1250ppm / 76ppf) Ceiling mounting Wall mounting Wall mounting Camera Control Audio GUI / Setup Menu Language Browser'4 Network IF Resolution H.265/ H.264/ JPEG (MJPEG) H.265/ Transmission Mode	$\label{eq:second} \begin{array}{llllllllllllllllllllllllllllllllllll$
DORI Adjusting Angle Browser GUI	Extra zoom Focal length Angular Field of View Maximum Aperture Ratio Focus range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Ceiling mounting Wall mounting Wall mounting Camera Control Audio GUI / Setup Menu Language Browser ²⁴ Network IF Resolution H.265/ H.264/ JPEG (MJPEG)	3.1k - 9.3k (when resolution is 640 x 360) 2.9 - 9 mm {1/8 inches - 11/32 inches} [16 : 9 mode] Horizontal : 37° (TELE) - 117° (WIDE), Vertical : 21° (TELE) - 62° (WIDE) [4 : 3 mode] Horizontal : 27° (TELE) - 82° (WIDE), Vertical : 21° (TELE) - 62° (WIDE) 1 : 1.3 (WIDE) - 1 : 2.5 (TELE) 0.3 m (11-13)16 inches) - ∞ Wide: 2.5 m / 77.2 ft, Tele: 114.8 m 376.5 ft Wide: 2.5 m / 77.2 ft, Tele: 13.5 m 75.3 ft Wide: 2.4 m / 30.9 ft, Tele: 15.5 m 75.3 ft Wide: 2.4 m / 15.4 ft, Tele: 13.5 m 77.7 ft Horizontal : 180° (PAN rotation part) Vertical : 10° ° to 10° ('TILT rotation part) Yaw : -190° to +100° ('VAW rotation part) Horizontal : 100° ('TILT rotation part) ⁴ Yaw : -190° to +100° ('VAW rotation part) Horizontal : 100° ('TILT rotation part) ⁴ Yaw : -190° to +100° ('VAW rotation part) Horizontal : 100° ('TILT rotation part) ⁴ Yaw : -190° to +100° (VAW rotation part) Horizontal : 0.7 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 106ase-7T, 100Base-7T, N435 connector 116 : 9 mode (50 fps mode)] ⁷² , [16 : 9 mode (30 fps mode)], [16 : 9 mode (50 fps mode)] ⁷² , [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

etwork	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 ¹⁰ , MQTT ¹⁰ , LLDP ¹⁰
		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'10, MQTT'10, LLDP'10
	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
	Menory 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
		microSD memory card : 2 GB
	Mobile Terminal Compatibility	iPad, iPhone, Android™ terminals
	ONVIF [®] Profile	G/M/S/T
larm	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
put/	Monitor Output	VBS : 1.0 V [p-p] / 75 Ω, composite, Pin jack
utput	(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 : -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 ^{*8}	ø3.5 mm stereo mini jack (monaural output)
	Audio Output ^{*8}	
	Audio Output ^{*8}	ø3.5 mm stereo mini jack (monaural output)
		ø3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 Ω (unbalanced) Output level : –20 dBV
	Audio Output ^{*8} External I/O Terminals ^{*8}	ø3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 Q (unbalanced) Output i level : - 20 dBV ALARM IN 1 (Alarm input 1/ Black & white input/ Auto time adjustment input) (x1)
		ø3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 Q (unbalanced) Output level : -20 dBV ALARM IN I (Alarm input I) Black & white input/ Auto time adjustment input) (x1) ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1)
eneral	External I/O Terminals ^{*8}	ø3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 Ω (unbalanced) Output level : -20 dBV ALARM IN 1 (Alarm input / 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)
eneral		ø3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 Q (unbalanced) Output level : -20 dBV ALARM IN 1 (Alarm input 1/ Black & white input/ Auto time adjustment input) (x1) ALARM IN 3 (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
eneral	External I/O Terminals ^{*8} Safety EMC	ø3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 Q (unbalanced) Output level : - 20 dBV 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) UL (UL62368-1), -C-UL (CSA C22, 2N.0.62368-1), CE, IEC62368-1 FCC (PartIS ClassA), ICES-003 ClassA, EN55032 ClassB, EN55035
eneral	External I/O Terminals*8 Safety EMC Power Source and	ø3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 Q (unbalanced) Output level : - 20 dBV 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) UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1 FCC (PartIS ClassA), ICES-003 ClassA, EN55032 ClassB, EN55035 DC power supply'8 : DC12 V 710 mA, Approx. 8.5 W
eneral	External I/O Terminals ^{*8} Safety EMC Power Source and Power Consumption	ø3.5 mm stereo mini jack (monaural output) Output livel - 20 dBV ALARM IN 1 (Alarm input 1/ Black & white input/ Auto time adjustment input) (x1) ALARM IN 1 (Alarm input 2/ ALARM OUT) (x1) ALARM IN 3 (Alarm input 2/ ALARM OUT) (x1) UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1 FCC (PartIS ClassA), ICES-003 ClassA, EN55032 ClassB, EN55035 DC power supply ³ : DC12 V 710 mA, Approx. 8.5 W POE (IEEE802.3af compliant) Device: DC48 V190 mA, Approx. 9.1 W (Class 0 device)
eneral	External I/O Terminals*8 Safety EMC Power Source and Power Consumption Ambient Operating	ø3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 Ω (unbalanced) Output level : - 20 dBV ALARM IN 1 (Alarm input 1) Black & white input/ Auto time adjustment input) (x1) ALARM IN 1 (Alarm input 2) ALARM OUT) (x1) LLARM IN 3 (Alarm input 2) ALARM OUT) (x1) LU (UL62368-1), c-UL (CSA (C22, 2No.62368-1), CE, IEC62368-1 FCC (Part15 ClassA), ICES-003 ClassA, EN55032 ClassB, EN55035 DC power supply ⁵ : DCI2 V 710 mA, Approx. 8.5 W PoE (IEEE802.3af compliant) Device : DC48 V 190 mA, Approx. 9.1 W (Class 0 device) -40 °C to +60 °C (-40 °F to 140 °F) ⁻⁹
eneral	External I/O Terminals ^{*8} Safety EMC Power Source and Power Consumption Ambient Operating Temperature	ø3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 Ω (unbalanced) Output level : - 20 dBV 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) LU (UL62368-1), c-UL (CSA C22, 2 No.62368-1), CE, IEC62368-1 FCC (PartIS ClassA), ICES-003 ClassA, ENS5032 ClassB, ENS5035 DC power supply [®] : DCI2 V 710 mA, Approx. 8.5 W PoE (IEEE802.3af compliant) Device: DC48 V 190 mA, Approx. 9.1 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})
eneral	External I/O Terminals ^{*8} Safety EMC Power Source and Power Consumption Ambient Operating Temperature Ambient Operating Humidity	ø3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 Q (unbalanced) Output level : -20 dBV 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) (x1) UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1 FCC (PartIS ClassA), ICES-003 ClassA, EN55032 ClassB, EN55035 DC power suppl*3: DC12 V10 mA, Approx. 8.5 W POE (IEEE802.3af compliant) Device: DC48 V190 mA, Approx. 9.1 W (Class 0 device) -40 °C to +60 °C (-40 °F to 140 °F) ¹⁹ (Power On range : -30 °C to +60 °C (-22 °F to +140 °F)) 10 to 100 % (no condensation)
eneral	External I/O Terminals*8 Safety EMC Power Consumption Ambient Operating Temperature Ambient Operating Humidity Anti-Condensation System	ø3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 Q (unbalanced) Output ievel : -20 dBV ALARM IN 1 (Alarm input 1/ Black & white input/ Auto time adjustment input) (x1) ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1) U (UI62368-1). c-UL (CSA C22.2 No.62368-1). CE, IEC62368-1 FCC (Part15 ClassA), ICES-003 ClassA, EN55032 ClassB, EN55035 DC power supply [®] : DC12 V 710 mA, Approx. 8.5 W PGC (IEES003.3 compliant) Device: DC48 V 190 mA, Approx. 9.1 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) Temish element + Heater + moisture absorption gel
eneral	External I/O Terminals ^{*8} Safety EMC Power Source and Power Consumption Ambient Operating Temperature Ambient Operating Hymidity Anti-Condensation System Water and Dust Resistance	ø3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 Q (unbalanced) Output level : - 20 dBV ALARM IN 1 (Alarm input 1/ Black & white input/ Auto time adjustment input) (x1) ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1) UL (UL62368-1), c-UL (CSA (C2.2, No. 62368-1), CE, IEC62368-1 FCC (Part15 ClassA), ICES-003 ClassA, EN55032 ClassB, EN55035 DC power supply [®] : DC12 V 710 mA, Approx. 8.5 W PoE (IEEE802.3af compliant) Device : DC48 V 190 mA, Approx. 9.1 W (Class 0 device) -40 ° C to + 60 ° C (-40 ° F1 to 140 ° F) ¹⁹ (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
eneral	External I/O Terminals*8 Safety EMC Power Source and Power Consumption Ambient Operating Temperature Ambient Operating Humidity Anti-Condensation System Water and Dust Resistance	ø3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 Q (unbalanced) Output level : -20 dBV 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) (x1) UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1 FCC (PartIS ClassA), ICES-003 ClassA, EN55032 ClassB, EN55035 DC power suppl*3: DC12 V 710 mA, Approx. 8.5 W POE (IEEE802.3af compliant) Device : DC48 V 190 mA, Approx. 9.1 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 IK0 (IEC 62262)
eneral	External I/O Terminals ^{*8} Safety EMC Power Source and Power Consumption Ambient Operating Temperature Ambient Operating Hymidity Anti-Condensation System Water and Dust Resistance	ø3.5 mm stereo mini jack (monaural output) Output livel: - 20 dBV ALARM IN 1 (Alarm input 1/ Black & white input/ Auto time adjustment input) (x1) ALARM IN 1 (Alarm input 1/ Black & white input/ Auto time adjustment input) (x1) ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1) U (UI62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1 FCC (Part15 ClassA), ICES-003 ClassA, EN55032 ClassB, EN55035 DC power supply [®] : DC12 V 710 mA, Approx. 8.5 W PGC [IEEB02.3af compliant) Device: DC48 V 190 mA, Approx. 9.1 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) Temish element + Heater + moisture absorption gel IP66, IEC60529 measuring standard compatible, Type 4X(UL50E), NEMA 4X compliant IK10 (IEC 62262) @133 mm (M) x 133 mm (H) x 383 mm (D)
eneral	External I/O Terminals*8 Safety EMC Power Source and Power Consumption Ambient Operating Temperature Ambient Operating Humidity Anti-Condensation System Water and Dust Resistance Shock Resistance Dimensions	ø3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 Q (unbalanced) Output level : -20 dBV ALARM IN 1 (Alarm input 1/ Black & white input/ Auto time adjustment input) (x1) ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1) UL (UL62368-1), c-UL (CSA (C2.2, No. 62368-1), CE, IEC62368-1 FCC (Part15 ClassA), ICES-003 ClassA, EN55032 ClassB, EN55035 DC power supply [®] : DC12 V 710 mA, Approx. 8.5 W PoE (IEEE802.3af compliant) Device : DC48 V 190 mA, Approx. 9.1 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 IKTO (IEC 62262) ø133 mm (W) x 133 mm (H) x 383 mm (D) {65-174 inches (W) x 5-1/4 inches (H) x 15-3/32 inches (D)}
eneral	External I/O Terminals ^{*8} 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.)	ø3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 Q (unbalanced) Output level : -20 dBV ALARM IN 1 (Alarm input 1/ Black & white input/ Auto time adjustment input) (x1) ALARM IN 3 (Alarm input 2/ ALARM OUT) (x1) ALARM IN 4 (Alarm input 3/ ALARM OUT) (x1) UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1 FCC (PartIS ClassA), ICES-003 ClassA, EN55032 ClassB, EN55035 DC power suppl*3 : DC12 V710 mA, Approx. 8.5 W POE (IEEE802.3af compliant) Device : DC48 V 190 mA, Approx. 9.1 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 IKO (IEC 62262) ø133 mm (W) x 133 mm (H) x 383 mm (D) (ø5-1/4 inches (M) x 5-3/32 inches (D)} Approx. 2.4 kg (5.3 Ibs.)
eneral	External I/O Terminals*8 Safety EMC Power Source and Power Consumption Ambient Operating Temperature Ambient Operating Humidity Anti-Condensation System Water and Dust Resistance Shock Resistance Dimensions	ø3.5 mm stereo mini jack (monaural output) Output limpedance : Approx. 600 Q (unbalanced) Output lievel : 20 dBV ALARM IN 1 (Alarm input 1/ Black & white input/ Auto time adjustment input) (x1) ALARM IN 3 (Alarm input 2/ ALARM 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 [®] : DC12 V 710 mA, Approx. 8, 5 W PG (IEEB02.3at compliant) Device: DC48 V190 mA, Approx. 9,1W (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) Temish element + Heater + moisture absorption gel IP66, IEC60529 measuring standard compatible, Type 4X(UL50E), NEMA 4X compliant IKT0 (IEC 6262) 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)} Approx. 2.4 kg (5.3 Ibs.)
eneral	External I/O Terminals ^{*8} 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.)	ø3.5 mm stereo mini jack (monaural output) Output lievel - 20 dBV ALARM IN 1 (Alarm input 1/ Black & white input/ Auto time adjustment input) (XI) ALARM IN 1 (Alarm input 1/ Black & white input/ Auto time adjustment input) (XI) ALARM IN 2 (Alarm input 2/ ALARM OUT) (XI) 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 [®] : DC12 V 710 mA, Approx. 8.5 W PGC (IEES003.34 compliant) Device: DC48 V 190 mA, Approx. 9.1 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) Temish element + Heater + moisture absorption gel IP66, IEC60529 measuring standard compatible, Type 4X(UL50E), NEMA 4X compliant IX10 (IEC 62262) 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)} Approx. 2.4 kg (5.3 Ib.5) Main body : Aluminum die cast and resin, Black Outer fixing screws : Stainless steel (Corrosion-resistant treatment)
eneral	External I/O Terminals ^{*8} 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.)	ø3.5 mm stereo mini jack (monaural output) Output limpedance : Approx. 600 Q (unbalanced) Output lievel : 20 dBV ALARM IN 1 (Alarm input 1/ Black & white input/ Auto time adjustment input) (x1) ALARM IN 3 (Alarm input 2/ ALARM 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 ³ : DC12 V 710 mA, Approx. 8, 5 W PG (IEEB02.3at compliant) Device: DC48 V190 mA, Approx. 9,1W (Class 0 device) -40 °C to +60 °C (-40 °F to 140 °F) ⁵ (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 IKT0 (IEC 6262) 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)} Approx. 2.4 kg (5.3 Ibs.)

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*1 Converted value
*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

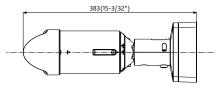
<Control No.: C0132>. *5 Used by super resolution techniques

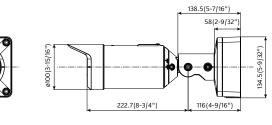
Transmission for 4 streams can be individually set.
 When recording audio on an microSD memory card, only use AAC-LC (Advanced Audio Coding - Low Complexity).
 When using with these, WV-QCA501A cable is required.

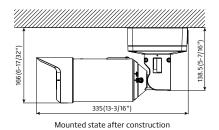
a when using with the IR LED light constantly lit, the upper limit of the operating temperature range is +50 °C (+122 °F). *10 It may be necessary to upgrade the firmware to use these protocols

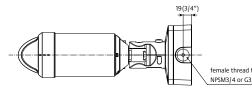
Appearance











female thread for conduit NPSM3/4 or G3/4

Unit : mm (inches)

AI Analytics applications

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

AI Vehicle Detection

Extract vehicle characteristics and classify them into meaningful categories such as type and color.

AI Non mask Detection

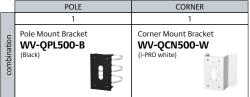
Deep-learning and proprietary image processing technologies recognize mask and detect people who are not wearing them.

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.

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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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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