

WV-S1536LTN

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://security.panasonic.com/training_support/design_tools/iCT/)

Key i-PRO Spec.

Industry examples

- 2MP (1080p)
- Intelligent Auto (with AI Engine)
- Super Dynamic 144dB
- Color night vision (0.011 to 0.015 lx)
- Smart Coding (with AI Engine)
- ClearSight Coating
- Built-in IR LED
- Onvif Profile G / S / T

Transportation (Airport / Train / Subway)

• Public safety (City / Highway toll / Parking gate)

Retail / Bank / Logistics / Education / Hospital / Building







Specifications

| | Image Sensor | Approx. 1/2.8 type CMOS image sensor |
|--------------------------------------|--|--|
| | Minimum Illumination | Color : 0.011 lx (30IRE, F1.7, 1/30s) *1 |
| | | 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, |
| | silutter 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) / |
| | | 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 |
| .ens | 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] |
| | Angular field of view | 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 | | |
| DORI | Focus Range | 2 m {78-3/4 inches} - ∞ |
| DORI | Focus Range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) | 2 m {78-3/4 inches} - ∞ Wide: 118.2 m / 387.7 ft, Tele: 291.7 m / 956.9 ft Wide: 47.3 m / 155.1 ft, Tele: 116.7 m / 382.8 ft |
| DORI | Focus Range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) | 2 m (78-3/4 inches) - ∞ Wide: 118.2 m / 387.7 ft, Tele: 291.7 m / 956.9 ft Wide: 47.3 m / 155.1 ft, Tele: 116.7 m / 382.8 ft Wide: 23.6 m / 77.5 ft, Tele: 58.3 m / 191.4 ft |
| | Focus Range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) | 2 m (78-3/4 inches) - ∞ Wide: 118.2 m / 387.7 ft, Tele: 291.7 m / 956.9 ft Wide: 47.3 m / 155.1 ft, Tele: 116.7 m / 382.8 ft 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 |
| Adjusting | Focus Range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) | $\begin{array}{l} 2 \mbox{ m} \{78{-}3/4 \mbox{ inches}\} - \infty \\ Wide: 118.2 \mbox{ m} / 387.7 \mbox{ ft}. Tele: 291.7 \mbox{ m} / 956.9 \mbox{ ft} \\ Wide: 47.3 \mbox{ m} / 155.1 \mbox{ ft}. Tele: 116.7 \mbox{ m} / 382.8 \mbox{ ft} \\ Wide: 23.6 \mbox{ m} / 77.5 \mbox{ ft}. Tele: 58.3 \mbox{ m} / 191.4 \mbox{ ft} \\ Wide: 1.8 \mbox{ m} / 38.8 \mbox{ ft}. Tele: 29.2 \mbox{ m} / 95.7 \mbox{ ft} \\ Horizontal : ±180 ° (PAN rotation part) \end{array}$ |
| Adjusting | Focus Range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) | $ \begin{array}{l} 2 \mbox{ m} (78{-}3/4 \mbox{ inches}) - \infty \\ \mbox{Wide: } 118.2 \mbox{ m} / \mbox{ 387.7 ft, Tele: } 291.7 \mbox{ m} / \mbox{ 956.9 ft} \\ \mbox{Wide: } 73.7 \mbox{ m} / \mbox{ 155.1 ft, Tele: } 116.7 \mbox{ m} / \mbox{ 382.8 ft} \\ \mbox{Wide: } 23.6 \mbox{ m} / \mbox{ 77.5 ft, Tele: } 58.3 \mbox{ m} / \mbox{ 191.4 ft} \\ \mbox{Wide: } 11.8 \mbox{ m} / \mbox{ 38.8 ft, Tele: } 29.2 \mbox{ m} / \mbox{ 95.7 ft} \\ \mbox{ Horizont 1: } 1180 ^ (PAN \mbox{ rotation part}) \\ \mbox{Vertical : } 0 ^ { to 100 ^ { cm} (Til \mbox{ rotation part})} \\ \end{tabular} $ |
| Adjusting | Focus Range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Ceiling mounting | $ \begin{array}{llllllllllllllllllllllllllllllllllll$ |
| Adjusting | Focus Range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) | $\begin{array}{l} 2 \mbox{ m} (78{-}3/4 \mbox{ inches}) - \infty \\ \mbox{Wide: } 118.2 \mbox{ m} / 387.7 \mbox{ ft, Tele: } 291.7 \mbox{ m} / 956.9 \mbox{ ft} \\ \mbox{Wide: } 47.3 \mbox{ m} / 155.1 \mbox{ ft, Tele: } 116.7 \mbox{ m} / 382.8 \mbox{ ft} \\ \mbox{Wide: } 23.6 \mbox{ m} / 77.5 \mbox{ ft, Tele: } 58.3 \mbox{ m} / 191.4 \mbox{ ft} \\ \mbox{Wide: } 11.8 \mbox{ m} / 78.8 \mbox{ ft, Tele: } 29.2 \mbox{ m} / 95.7 \mbox{ ft} \\ \mbox{Horizontal : } 1180 (PAN \mbox{ rotation part}) \\ \mbox{Vertical : } 0^{\circ} \mbox{ to } 100^{\circ} \mbox{ (TILT rotation part)} \\ \mbox{Horizontal : $t100^{\circ} \mbox{ (TILT rotation part)}^{\ast} \end{array}$ |
| Adjusting | Focus Range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Ceiling mounting | $ \begin{array}{l} 2 \mbox{ m} (78{-}3/4 \mbox{ inches}) - \infty \\ \mbox{Wide: } 118.2 \mbox{ m} / \mbox{ 387.7 ft, Tele: } 291.7 \mbox{ m} / \mbox{ 956.9 ft} \\ \mbox{Wide: } 73.7 \mbox{ m} / \mbox{ 155.1 ft, Tele: } 116.7 \mbox{ m} / \mbox{ 382.8 ft} \\ \mbox{Wide: } 23.6 \mbox{ m} / \mbox{ 77.5 ft, Tele: } 58.3 \mbox{ m} / \mbox{ 191.4 ft} \\ \mbox{Wide: } 11.8 \mbox{ m} / \mbox{ 38.8 ft, Tele: } 29.2 \mbox{ m} / \mbox{ 95.7 ft} \\ \mbox{ Horizontal : } 1100 (PLV \mbox{ rotation part}) \\ \mbox{ Vertical : } 100 (10LT \mbox{ rotation part}) \\ \mbox{ Horizontal : } \pm 100 (11LT \mbox{ rotation part}) \\ \mbox{ Vertical : } \pm 100 (11LT \mbox{ rotation part})^* \\ \end{tabular} \end{array} $ |
| Adjusting | Focus Range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Ceiling mounting | $\begin{array}{llllllllllllllllllllllllllllllllllll$ |
| Adjusting | Focus Range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Ceiling mounting | $\begin{array}{llllllllllllllllllllllllllllllllllll$ |
| Adjusting Angle Browser | Focus Range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Ceiling mounting | $\begin{array}{llllllllllllllllllllllllllllllllllll$ |
| Adjusting Angle Browser | Focus Range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Ceiling mounting Wall mounting | $ \begin{array}{llllllllllllllllllllllllllllllllllll$ |
| Adjusting Angle Browser | Focus Range Detect (25ppm / 8ppf) Observe (62:Sppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Ceiling mounting Wall mounting Camera Control | $ \begin{array}{llllllllllllllllllllllllllllllllllll$ |
| Adjusting Angle Browser | Focus Range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Ceiling mounting Wall mounting Camera Control Audio | $ \begin{array}{llllllllllllllllllllllllllllllllllll$ |
| Adjusting Angle Browser | Focus Range Detect (25ppm / 8ppf) Observe (62:5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Ceiling mounting Wall mounting Camera Control Audio GUI / Setup Menu Language | $ \begin{array}{llllllllllllllllllllllllllllllllllll$ |
| Adjusting Angle Browser GUI | 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 | $ \begin{array}{llllllllllllllllllllllllllllllllllll$ |
| Adjusting Angle Browser GUI | 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 4 Network IF | $ \begin{array}{llllllllllllllllllllllllllllllllllll$ |
| Adjusting Angle Browser GUI | 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 ⁴ Network IF Resolution | 2 m (78-3)4 inches) - ∞ Wide: 118.2 m / 387.7 ft, Tele: 291.7 m / 956.9 ft Wide: 118.2 m / 387.7 ft, Tele: 116.7 m / 382.8 ft 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 Horizontal : 1180° (PAN rotation part) Vertical : 0° to 100° (TILT rotation part) Yaw : -190° to +100° (YAW rotation part) Horizontal : 1100° (ILT rotation part) Yaw : -190° to +100° (YAW rotation part) *You can charge between horizontal and vertical angels by adjusting the PAN rotation part) Horizontal : -100 / Off Wic (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, Japanes Microsoft Edge, Firefox, Google Chrome 108ase-T / 1008ase-TX, RI45 connector [16: 9 mode (60 fps mode)] ⁷ . [16: 9 mode (30 fps mode)], |
| Adjusting Angle Browser GUI | 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 4 Network IF | $\begin{array}{llllllllllllllllllllllllllllllllllll$ |
| gui | 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 ⁴ Network IF Resolution | 2 m (78-3)4 inches) - ∞ Wide: 118.2 m / 387.7 ft, Tele: 291.7 m / 956.9 ft Wide: 118.2 m / 387.7 ft, Tele: 116.7 m / 382.8 ft 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 Horizontal : 1180° (PAN rotation part) Vertical : 0° to 100° (TILT rotation part) Yaw : -190° to +100° (YAW rotation part) Horizontal : 1100° (ILT rotation part) Yaw : -190° to +100° (YAW rotation part) *You can charge between horizontal and vertical angels by adjusting the PAN rotation part) Horizontal : -100 / Off Wic (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, Japanes Microsoft Edge, Firefox, Google Chrome 108ase-T / 1008ase-TX, RI45 connector [16: 9 mode (60 fps mode)] ⁷ . [16: 9 mode (30 fps mode)], |
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| Adjusting Angle Browser GUI | 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 ⁴ Network IF Resolution | $ \begin{array}{l} 2 \mbox{ m} (28-3)4 \mbox{ inclusion} - \infty \\ \mbox{Wide: 17.3 m} / 387.7 \mbox{ ft, Tele: 291.7 m} / 956.9 \mbox{ ft} \\ \mbox{Wide: 17.3 m} / 155.1 \mbox{ ft, Tele: 16.7 m} / 382.8 \mbox{ ft} \\ \mbox{Wide: 23.6 m} / 155.1 \mbox{ ft, Tele: 58.3 m} / 191.4 \mbox{ ft} \\ \mbox{Wide: 1.8 m} / 38.8 \mbox{ ft, Tele: 58.3 m} / 191.4 \mbox{ ft} \\ \mbox{Wide: 11.8 m} / 38.8 \mbox{ ft, Tele: 58.3 m} / 191.4 \mbox{ ft} \\ \mbox{Wide: 11.8 m} / 38.8 \mbox{ ft, Tele: 58.3 m} / 191.4 \mbox{ ft} \\ \mbox{Wide: 11.8 m} / 38.8 \mbox{ ft, Tele: 58.3 m} / 191.4 \mbox{ ft} \\ \mbox{Wide: 11.8 m} / 38.8 \mbox{ ft, Tele: 58.3 m} / 191.4 \mbox{ ft} \\ \mbox{Wide: 11.8 m} / 38.8 \mbox{ ft, Tele: 59.2 m} / 95.7 \mbox{ ft} \\ \mbox{Wortzalin part} \\ \mbox{Vertical} : 100 ^ {\mbox{ ft} Totation part} \\ \mbox{Vertical} : 100 ^ {\mbox{ ft} Totation part} \\ \mbox{Vertical} : 100 ^ {\mbox{ ft} Totation part} \\ \mbox{Yaw} : -190 ^ {\mbox{ totation part}} \\ \mbox{Yaw} : -190 ^ {\mbox{ totation part}} \\ \mbox{Yaw} : -190 ^ {\mbox{ ft} Totation part} \\ \mbox{Yaw} : -190 ^ {\mbox{ ft} O + 00 ^ {\mbox{ (YAW rotation part}} \\ \mbox{Yaw} : -190 ^ {\mbox{ ft} O + 00 ^ {\mbox{ (YAW rotation part}} \\ \mbox{Yaw} : -190 ^ {\mbox{ ft} O + 00 ^ {\mbox{ ft} O + 100 ^ {\mbox{ ft} $ |
| Adjusting Angle Browser GUI | 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 ⁴ Network IF Resolution | $ \begin{array}{l} 2 \mbox{ m} (78{-}3/4 \mbox{ inc} s) - \infty \\ \mbox{ Wide: 118.2 m / 387.7 ft, Tele: 291.7 m / 956.9 ft \\ \mbox{ Wide: 47.3 m / 155.1 ft, Tele: 116.7 m / 382.8 ft \\ \mbox{ Wide: 47.3 m / 155.1 ft, Tele: 58.3 m / 191.4 ft \\ \mbox{ Wide: 47.3 m / 155.1 ft, Tele: 58.3 m / 191.4 ft \\ \mbox{ Wide: 47.3 m / 155.1 ft, Tele: 58.3 m / 191.4 ft \\ \mbox{ Wide: 47.3 m / 155.1 ft, Tele: 58.3 m / 191.4 ft \\ \mbox{ Wide: 47.3 m / 155.1 ft, Tele: 58.3 m / 191.4 ft \\ \mbox{ Wide: 47.3 m / 155.1 ft, Tele: 58.3 m / 191.4 ft \\ \mbox{ Wide: 47.3 m / 155.1 ft, Tele: 58.3 m / 191.4 ft \\ \mbox{ Workal : 118.0 ° (PAN totation part) \\ \mbox{ Vertical : 180 ° (PAN totation part) \\ \mbox{ Vertical : 1100 ° (TILT rotation part) \\ \mbox{ Vertical : 1100 ° (TILT rotation part) \\ \mbox{ Vertical : 100 ° (TILT rotation part) \\ \mbox{ You can change between horizontal and vertical angels by adjusting the PAN rotation part \\ \mbox{ Workal : 100 ° (TILT rotation part) \\ \mbox{ You can change between horizontal and vertical angels by adjusting the PAN rotation part \\ \mbox{ Brightness, AUX On / Off \\ \mbox{ Midel P High \\ Audio Output : On / Off \\ \mbox{ Nolume adjustment : Low / Middle / High \\ Audio Output : On / Off \\ \mbox{ Nolume adjustment : Low / Middle / High \\ Audio Output : On / Off \\ \mbox{ Nolume adjustment : Low / Middle / High \\ Audio Output : On / Off \\ \mbox{ Nolume adjustment : Low / Middle / High \\ \mbox{ Add So ft Edge, Firefox, Google Chrome \\ \mbox{ Noloson : Con / Off \\ \mbox{ 108aser 1 / 100Baser 1 X, R45 connector \\ \mbox{ If 6 : 9 mode (50 fps mode)]^2 , [f6 : 9 mode (30 fps mode)], \\ \mbox{ If 6 : 9 mode (50 fps mode)]^2 , [f6 : 9 mode (25 fps mode)] \\ \mbox{ 1280x960, VGA, QVGA \\ \mbox{ 4 : 3 mode (30 fps mode)], [f4 : 3 mode (25 fps mode)] \\ \end{tabular}$ |
| Adjusting Angle Browser GUI | 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 ⁴ Network IF Resolution | $ \begin{array}{l} 2 \mbox{m} (78{-}3/4 \mbox{inches}) - & \\ \mbox{Wide: } 173. \mbox{m} / 387.7 \mbox{ft, Tele: } 291.7 \mbox{m} / 956.9 \mbox{ft} \\ \mbox{Wide: } 73.7 \mbox{m} / 155.1 \mbox{ft, Tele: } 165.7 \mbox{m} / 382.8 \mbox{ft} \\ \mbox{Wide: } 73.7 \mbox{m} / 155.1 \mbox{ft, Tele: } 292.2 \mbox{m} / 95.7 \mbox{ft} \\ \mbox{Wide: } 11.8 \mbox{m} / 383.8 \mbox{ft, Tele: } 292.2 \mbox{m} / 95.7 \mbox{ft} \\ \mbox{Horizontal: } 1100 ^{\circ} (71.1 \mbox{rtotion part}) \\ \mbox{Vertical: } 10^{\circ} 0^{\circ} (100^{\circ} (71.1 \mbox{rtotion part}) \\ \mbox{Vertical: } 100^{\circ} (11.1 \mbox{rtotion part}) \\ \mbox{Vertical: a 100 } (11.1 \mbox{rtotion part}) \\ \mbox{Vertical: a 100 } (11.1 \mbox{rtotion part}) \\ \mbox{Vertical: a 100 } (11.1 \mbox{rotation part}) \\ \mbox{Vertical: a 100 } (10 \mbox{ft} \mbox{Volume adjustment: Low / Middle / High \\ \mbox{Audio Output: } 0 \cap / Off \\ \mbox{Volume adjustment: Low / Middle / High \\ \mbox{Audio Output: } 0 \cap / Off \\ \mbox{Volume adjustment: Low / Middle / High \\ \mbox{Audio Output: } 0 \cap / Off \\ \mbox{Volume adjustment: Low / Middle / High \\ \mbox{Audio Output: } 0 \cap / Off \\ \mbox{Volume adjustment: Low / Middle / High \\ \mbox{Audio Output: } 0 \cap / Off \\ \mbox{Volume adjustment: Low / Middle / High \\ \mbox{Audio Output: } 0 \cap / Off \\ Volume adjustment: Low / Middle / High \\ \mbox{Audio Output$ |
| Adjusting Angle Browser GUI | Focus Range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Ceiling mounting Wall mounting Camera Control Audio GUI / Setup Menu Language Browser'4 Network IF Resolution H.265/ H.264/ JPEG (MJPEG) | $ \begin{array}{l} 2 m \left(78 \cdot 3 \right) 4 \ inches \right) = \infty \\ \mbox{Wide: } 13.2 m / 387.7 \ ft, \ Tele: 291.7 m / 956.9 \ ft \\ \mbox{Wide: } 73.7 m / 155.1 \ ft, \ Tele: 16.7 m / 382.8 \ ft \\ \mbox{Wide: } 33.6 m / \ 155.1 \ ft, \ Tele: 29.2 m / \ 95.7 \ ft \\ \mbox{Wide: } 1.8 m / \ 38.8 \ ft, \ Tele: 29.2 m / \ 95.7 \ ft \\ \mbox{Wide: } 1.8 m / \ 38.8 \ ft, \ Tele: 29.2 m / \ 95.7 \ ft \\ \mbox{Wide: } 1.8 m / \ 38.8 \ ft, \ Tele: 29.2 m / \ 95.7 \ ft \\ \mbox{Wide: } 1.8 m / \ 38.8 \ ft, \ Tele: 29.2 m / \ 95.7 \ ft \\ \mbox{Wide: } 1.8 m / \ 38.8 \ ft, \ Tele: 29.2 m / \ 95.7 \ ft \\ \mbox{Wide: } 1.8 m / \ 38.8 \ ft, \ Tele: 29.2 m / \ 95.7 \ ft \\ \mbox{Wide: } 1.8 m / \ 38.8 \ ft, \ Tele: 29.2 m / \ 95.7 \ ft \\ \mbox{Wide: } 100 \circ (TLT \ rotation part) \\ \mbox{Vertical : } 100 \circ (TLT \ rotation part) \\ \mbox{Wide: } 100 \circ (TLT \ rotation part) \\ \mbox{Vertical : } 100 \circ (TLT \ rotation part) \\ \mbox{Vertical : } 100 \circ (TLT \ rotation part) \\ \mbox{Vertical : } 100 \circ (TLT \ rotation part) \\ \mbox{Yaw : } -190 \ 'to -100 \circ '(YAW \ rotation part) \\ \mbox{Yaw : } 100 \circ (TLT \ rotation part) \\ \mbox{Yaw : } 100 \circ (TLT \ rotation part) \\ \mbox{You can change between horizontal and vertical angels by adjusting the PAN \ rotation part \\ \mbox{Wide: } 100 \ (TLT \ rotation part) \\ \mbox{You can change between horizontal and vertical angels by adjusting the PAN \ rotation part \\ \mbox{Wide: } 10.7 \ Off \ Volume adjustment: Low / Middle / High \\ \mbox{English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanes \\ \mbox{Microsoft Edge, Firefox, Google Chrome \\ \mbox{D0Base-T} / 100Base-TX, RI45 \ connector \\ If 6 : 9 mode (50 \ fps mode)]^2, \ [16 : 9 \ mode (50 \ fps mode)]^2, \ [16 : 9 \ mode (50 \ fps mode)]^2, \ [16 : 9 \ mode (50 \ fps mode)]^2, \ [16 : 9 \ mode (50 \ fps mode)]^2, \ [16 : 9 \ mode (50 \ fps mode)]^2, \ [16 : 9 \ mode (50 \ fps mode)]^2, \ [16 : 9 \ mode (50 \ fps mode)]^2, \ [1280x960, VGA, QVGA \\ \mbox{I 4 : 3 \ mode (15 \ fps mode)], \ [14 : 3 \ mode (15 \ fps mode)] \ 2048x1536^5, \ 12$ |
| Adjusting Angle Browser GUI | Focus Range Detect (25ppm / 8ppf) Observe (62:Sppm / 18ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Ceiling 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 | $ \begin{array}{l} 2 m \left(78{\cdot}3/4 \text{inches} \right) - \infty \\ \text{Wide: 118.2 m / 387.7 ft, Tele: 291.7 m / 956.9 ft } \\ \text{Wide: 118.2 m / 387.7 ft, Tele: 116.7 m / 382.8 ft } \\ \text{Wide: 23.6 m / 155.1 ft, Tele: 158.3 m / 191.4 ft } \\ \text{Wide: 11.8 m / 38.8 ft, Tele: 29.2 m / 95.7 ft } \\ \text{Horizontal: 1180° (PAN rotation part) } \\ \text{Vertical : 118° (PAN rotation part) } \\ \text{Vertical : 118° (PAN rotation part) } \\ \text{Vertical : 110° (TILT rotation part) } \\ \text{Vertical : 110° (TILT rotation part) } \\ \text{Vertical : 110° (TILT rotation part) } \\ \text{Vertical : 100° (TILT rotation part) } \\ \text{You can change between horizontal and vertical angels by adjusting the PAN rotation part } \\ \text{Wide is 0.100° (TILT rotation part) } \\ \text{You can change between horizontal and vertical angels by adjusting the PAN rotation part } \\ \text{Mic (Line) Input: 0 n / Off } \\ \text{Volume adjustment : Low / Middle / High } \\ \text{Audio Output : 0 n / Off } \\ \text{Volume adjustment : Low / Middle / High } \\ \text{Audio Output : 0 n / Off } \\ \text{Volume adjustment : Low / Middle / High } \\ \text{Audio Output : 0 n / Off } \\ \text{Volume adjustment : Low / Middle / High } \\ \text{Audio Output : 0 n / Off } \\ \text{Volume adjustment : Low / Middle / High } \\ \text{Audio Output : 0 n / Off } \\ \text{Volume adjustment : Low / Middle / High } \\ \text{Audio Output : 0 n / Off } \\ \text{Volume adjustment : Low / Middle / High } \\ \text{Audio Output : 0 n / Off } \\ \text{Volume adjustment : Low / Middle / High } \\ \text{Audio Output : 0 n / Off } \\ \text{Volume adjustment : Low / Middle / High } \\ \text{Audio Output : 0 n / Off } \\ \text{Volume adjustment : Low / Middle / High } \\ \text{Audio Output : 0 n / Off } \\ \text{Volume adjustment : Low / Middle / High } \\ \text{Audio Output : 0 n / Off } \\ \text{Volume adjustment : Low / Middle / High } \\ \text{Audio Output : 0 n / Off } \\ \text{Volume adjustment : Low / Middle / High } \\ \text{Audio Output : 0 n / Off } \\ \text{Volume adjustment : Low / Middle / High } \\ \text{Audio Output : 0 n / Off } \\ \text{Volume adjustment : Low / Middle / High } \\ \text{Audio Output : 0 n / Off } \\ \text{Volume adjustment : Low / Bal } \\ Volume adjustment :$ |
| Adjusting Angle Browser GUI | Focus Range Detect (25ppm / 8ppf) Observe (62.5ppm / 19ppf) Recognize (125ppm / 38ppf) Identify (250ppm / 76ppf) Ceiling mounting Wall mounting Camera Control Audio GUI / Setup Menu Language Browser'4 Network IF Resolution H.265/ H.264/ JPEG (MJPEG) | $ \begin{array}{l} 2 m \left(78 \cdot 3 \right) 4 \ inches \right) = \infty \\ \mbox{Wide: } 13.2 m / 387.7 \ ft, \ Tele: 291.7 m / 956.9 \ ft \\ \mbox{Wide: } 73.7 m / 155.1 \ ft, \ Tele: 16.7 m / 382.8 \ ft \\ \mbox{Wide: } 33.6 m / \ 155.1 \ ft, \ Tele: 29.2 m / \ 95.7 \ ft \\ \mbox{Wide: } 1.8 m / \ 38.8 \ ft, \ Tele: 29.2 m / \ 95.7 \ ft \\ \mbox{Wide: } 1.8 m / \ 38.8 \ ft, \ Tele: 29.2 m / \ 95.7 \ ft \\ \mbox{Wide: } 1.8 m / \ 38.8 \ ft, \ Tele: 29.2 m / \ 95.7 \ ft \\ \mbox{Wide: } 1.8 m / \ 38.8 \ ft, \ Tele: 29.2 m / \ 95.7 \ ft \\ \mbox{Wide: } 1.8 m / \ 38.8 \ ft, \ Tele: 29.2 m / \ 95.7 \ ft \\ \mbox{Wide: } 1.8 m / \ 38.8 \ ft, \ Tele: 29.2 m / \ 95.7 \ ft \\ \mbox{Wide: } 1.8 m / \ 38.8 \ ft, \ Tele: 29.2 m / \ 95.7 \ ft \\ \mbox{Wide: } 100 \circ (TLT \ rotation part) \\ \mbox{Vertical : } 100 \circ (TLT \ rotation part) \\ \mbox{Wide: } 100 \circ (TLT \ rotation part) \\ \mbox{Vertical : } 100 \circ (TLT \ rotation part) \\ \mbox{Vertical : } 100 \circ (TLT \ rotation part) \\ \mbox{Vertical : } 100 \circ (TLT \ rotation part) \\ \mbox{Yaw : } -190 \ 'to -100 \circ '(YAW \ rotation part) \\ \mbox{Yaw : } 100 \circ (TLT \ rotation part) \\ \mbox{Yaw : } 100 \circ (TLT \ rotation part) \\ \mbox{You can change between horizontal and vertical angels by adjusting the PAN \ rotation part \\ \mbox{Wide: } 100 \ (TLT \ rotation part) \\ \mbox{You can change between horizontal and vertical angels by adjusting the PAN \ rotation part \\ \mbox{Wide: } 10.7 \ Off \ Volume adjustment: Low / Middle / High \\ \mbox{English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanes \\ \mbox{Microsoft Edge, Firefox, Google Chrome \\ \mbox{D0Base-T} / 100Base-TX, RI45 \ connector \\ If 6 : 9 mode (50 \ fps mode)]^2, \ [16 : 9 \ mode (50 \ fps mode)]^2, \ [16 : 9 \ mode (50 \ fps mode)]^2, \ [16 : 9 \ mode (50 \ fps mode)]^2, \ [16 : 9 \ mode (50 \ fps mode)]^2, \ [16 : 9 \ mode (50 \ fps mode)]^2, \ [16 : 9 \ mode (50 \ fps mode)]^2, \ [16 : 9 \ mode (50 \ fps mode)]^2, \ [1280x960, VGA, QVGA \\ \mbox{I 4 : 3 \ mode (15 \ fps mode)], \ [14 : 3 \ mode (15 \ fps mode)] \ 2048x1536^5, \ 12$ |

| Vetwork | 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. |
| | A 11 G 1 | 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 |
| | Audia dan santasian arada | 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 |
| | | IPv4 : TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, RTSP, RTP, RTP/RTCP, |
| | | SMTP, DHCP, DNS, DDNS, NTP, SNMPv1/v2/v3, UPnP, IGMP, |
| | No. of Simultaneous Users | ICMP, ARP, IEEE 802.1X, DiffServ, SRTP Up to 14 users (Depends on network conditions) |
| | SDXC/SDHC/SD | H.265 / H.264 recording : |
| | | Manual REC / Alarm REC (Pre/Post) / Schedule REC / Backup upon network failure |
| | Memory Card (Option) | JPEG recording : |
| | | Manual REC / Alarm REC (Pre/Post) / Backup upon network failure |
| | | |
| | | Available 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 / S / T |
| larm | Alarm Source | 3 terminals input, VMD alarm, Command alarm, Audio detection alarm |
| uarm | Alarm Actions | SDXC/SDHC/SD memory recording, E-mail notification, |
| | Marminedons | HTTP alarm notification Indication on browser, Panasonic alarm protocol output |
| nput/ | Monitor Output | VBS : 1.0 V $[p-p]$ / 75 Ω , composite, Pin jack |
| Dutput | (for adjustment) | An NTSC or PAL signal can be outputted from camera |
| Juipur | 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) |
| | | Output impedance : Approx. 600 Ω (unbalanced) |
| | | Output level : -20 dBV |
| | External I/O Terminals ^{*8} | 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 900 mA, Approx. 10.8 W |
| | Power Consumption | PoE (IEEE802.3af compliant) Device : DC48 V 220 mA, Approx. 10.6 W (Class 0 device) |
| | Ambient Operating | -40 °C to +60 °C (-40 °F to 140 °F) ^{*9} |
| | 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 (with ClearSight coating) |

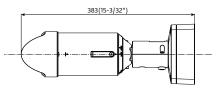
*1 Converted value

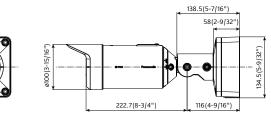
¹ Converted value
 ² When 60 fps or 50 fps is selected, the Super Dynamic function is automatically set to off.
 ³ When the 60 fps mode, 50 fps mode, 15 fps mode or 12.5 fps mode is used, the "90" and "270" settings are not available. When the 320x180 resolution is used, the "90" and "270" settings are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

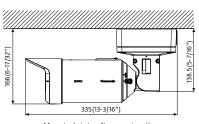
* For information the operation verification of the supported web browsets, refer to dui support website control No.: C0132>.
* 5 Used by super resolution techniques
*6 Transmission for 4 streams can be individually set.
*7 When recording audio on a microSD memory card, only use AAC-LC (Advanced Audio 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

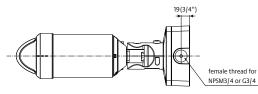








Mounted state after construction



female thread for conduit

Unit : mm (inches)

https://security.panasonic.com/products_technology/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://security.panasonic.com/i-pro-application-platform/application-list/

Optional Accessories

Mount Bracket





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

Trademarks and registered trademarks

- iPad and iPhone are trademarks of Apple Inc., registered in the U.S. and other countries.

- Android is a trademark of Google LLC.

- 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. - Panasonic i-PRO Sensing Solutions 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.

Panasonic

Panasonic Corporation

Panasonic i-PRO Sensing Solutions Co., Ltd.

https://ipro.panasonic.com https://security.panasonic.com https://www.linkedin.com/company/i-pro-sensing-solutions-co-ltd/ (2A-300A)

AI Vehicle Detection

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

Al 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.