

WV-S1136

The new Standard by i-PRO video surveillance

Full HD Indoor Box Network Camera with AI engine

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.

- Full HD 1080p
- Intelligent Auto (with AI Engine)
- Super Dynamic 144dB
- Color night vision (0.006 to 0.008 lx)
- Smart Coding (with AI Engine)
- Onvif Profile G / S / T

Industry examples

- Public safety (City / Road / Highway / Port)
- Transportation (Airport / Train / Subway)
- Retail / Bank / Education / Hospital / Building



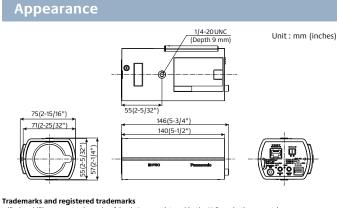




Lens not included

Specifications

| Camera | Image Sensor | Approx. 1/2.8 type CMOS image sensor |
|---------|--|---|
| camera | Minimum Illumination | Color : 0.006 lx (30IRE, F1.2, 1/30s) ^{*1} |
| | | Color : 0.008 lx (50IRE, F1.2, 1/30s) |
| | | BW : 0.004 lx (50IRE, F1.2, 1/30s) |
| | White Balance | ATW1/ ATW2/ AWC |
| | Shutter Speed | [60fps mode] 1/60 Fix to 1/10000 Fix, [30fps/15fps mode] 1/30 Fix to 1/10000 Fix |
| | shutter speed | [50fps mode] 1/50 Fix to 1/10000 Fix, [55fps/12.5fps mode] 1/55 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 / Auto1 (Normal) / Auto2 (IR Light) / Auto3 (SCC) |
| | 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 back focus / Manual / Adjusting method (Auto / Preset / Fix) |
| Browser | Camera Control | Brightness, AUX On / Off |
| GUI | Audio | Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High |
| | | Audio Output : On / Off Volume adjustment : Low / Middle / High |
| | GUI / Setup Menu Language | English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese |
| | Browser *4 | Microsoft Edge, Firefox, Google Chrome |
| Network | Network IF | 10Base-T / 100Base-TX, RJ45 connector |
| | Resolution | [16:9 mode (60 fps mode)] ^{*2} , [16:9 mode (30 fps mode)], |
| | H.265/ H.264/ JPEG (MJPEG) | [16:9 mode (50 fps mode)]"2, [16:9 mode (25 fps mode)] |
| | | 1920x1080, 1280x720, 640x360, 320x180 |
| | | [4:3 mode (30 fps mode)], [4:3 mode (25 fps mode)] 1280x960, VGA, QVGA |
| | | |
| | | |
| | | [4:3 mode (15 fps mode)], [4:3 mode (12.5 fps mode)] |
| | H 265/ Transmission Mode | 2048x1536*5, 1280x960, VGA, QVGA |
| | H.265/ Transmission Mode | 2048x1536 ⁺⁵ , 1280x960, VGA, QVGA Constant bit rate / VBR / Frame rate / Best effort |
| | H.264 ^{*6} Transmission Type | 2048x1536 ¹⁵ , 1280x960, VGA, QVGA Constant bit rate / VBR / Frame rate / Best effort Unicast port (AUTO) / Unicast port (MANUAL) / Multicast |
| | H.264 ^{*6} Transmission Type JPEG Image Quality | 2048x1536 ¹⁵ , 1280x960, VGA, QVGA Constant bit rate / VBR / Frame rate / Best effort Unicast port (AUTO) / Unicast port (MANUAL) / Multicast 10 steps |
| | H.264 ^{*6} Transmission Type | 2048x1536 ¹⁵ , 1280x960, VGA, QVGA Constant bit rate / VBR / Frame rate / Best effort Unicast port (AUTO) / Unicast port (MANUAL) / Multicast 10 steps GOP (Group of pictures control): |
| | H.264 ^{*6} Transmission Type JPEG Image Quality | 2048x1536'5, 1280x960, VGA, QVGA Constant bit rate / VBR / Frame rate / Best effort Unicast port (AUTO) / Unicast port (MANUAL) / Multicast 10 steps GOP (Group of pictures control): Off / Low (Variable GOP 1s-8s) / Mid (Variable GOP 4s-16s) / |
| | H.264 ^{*6} Transmission Type JPEG Image Quality | 2048x1536 ¹⁵ , 1280x960, VGA, QVGA Constant bit rate / VBR / Frame rate / Best effort Unicast port (AUTO) / Unicast port (MANUAL) / Multicast 10 steps GOP (Group of pictures control): Off / Low (Variable GOP 1s-8s) / Mid (Variable GOP 4s-16s) / Advanced (Fixed GOP 60s w/1s key-frame) / |
| | H.264 ^{*6} Transmission Type JPEG Image Quality | 2048x1536 ¹⁵ , 1280x960, VGA, QVGA Constant bit rate / VBR / Frame rate / Best effort Unicast port (AUTO) / Unicast port (MANUAL) / Multicast 10 steps GOP (Group of pictures control): Off / Low (Variable GOP 15-85) / Mid (Variable GOP 4s-16s) / Advanced (Fixed GOP 60s w/ls key-frame)/ Frame rate control (Variable GOP 4s-16s with frame rate control) |
| | H.264 ^{*6} Transmission Type JPEG Image Quality | 2048x1536 ¹⁵ , 1280x960, VGA, QVGA Constant bit rate / VBR / Frame rate / Best effort Unicast port (AUTO) / Unicast port (MANUAL) / Multicast 10 steps GOP (Group of pictures control): Off / Low (Variable GOP is-8s) / Mid (Variable GOP 4s-16s) / Advanced (Fixed GOP GOS 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. |
| | H.264 ¹⁶ Transmission Type JPEG Image Quality Smart Coding | 2048x1536 ¹⁵ , 1280x960, VGA, QVGA Constant bit rate / VBR / Frame rate / Best effort Unicast port (AUTO) / Unicast port (MANUAL) / Multicast 10 steps GOP (Group of pictures control): Off / Low (Variable GOP 15-85) / Mid (Variable GOP 4s-16s) / Advanced[Fixed GOP 60s w] /s 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 |
| | H.264 ^{*6} Transmission Type JPEG Image Quality | 2048x1536 ¹⁵ , 1280x960, VGA, QVGA Constant bit rate / VBR / Frame rate / Best effort Unicast port (AUTO) / Unicast port (MANUAL) / Multicast 10 steps COP (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 G.726 (ADPCM) : 16 kbps / 32 kbps |
| | H.264 ¹⁶ Transmission Type JPEG Image Quality Smart Coding | 2048x1536 ¹⁵ , 1280x960, VGA, QVGA Constant bit rate / VBR / Frame rate / Best effort Unicast port (AUTO) / Unicast port (MANUAL) / Multicast 10 steps GOP (Group of pictures control): Off / Low (Variable GOP for Ses) / 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 G.726 (ADPCM) : 16 kbps / 32 kbps G.711 : 64 kbps |
| | H.264 ^{*6} Transmission Type JPEG Image Quality Smart Coding Audio Compression | 2048x1536 ¹⁵ , 1280x960, VGA, QVGA Constant bit rate / VBR / Frame rate / Best effort Unicast port (AUTO) / Unicast port (MANUAL) / Multicast 10 steps GOP (Group of pictures control): Off / Low (Variable GOP 15-83) / Mid (Variable GOP 4s-16s) / Advanced[Fixed GOP 60s w]'ts 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 G.726 (ADPCM) : 16 kbps / 32 kbps G.711 :: 64 kbps / 96 kbps / 128 kbps |
| | H.264 ¹⁶ Transmission Type JPEG Image Quality Smart Coding | 2048x1536 ¹⁵ , 1280x960, VGA, QVGA Constant bit rate / VBR / Frame rate / Best effort Unicast port (AUTO) / Unicast port (MANUAL) / Multicast 10 steps GOP (Group of pictures control): Off / Low (Variable GOP 15-85) / Mid (Variable GOP 4s-16s) / Advanced (Fixed GOP 60s w/1 skey-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 G.726 (ADPCM) : 16 kbps / 32 kbps G.711 : 64 kbps |



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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.

| Network | 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, |
| | | ICMP, ARP, IEEE 802.1X, DiffServ, SRTP |
| | No. of Simultaneous Users | Up to 14 users (Depends on network conditions) |
| | SDXC/SDHC/SD | H.265 / H.264 recording : |
| | Memory Card (Option) | Manual REC / Alarm REC (Pre/Post) / Schedule REC / Backup upon network failure |
| | | 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 |
| Alarm | Alarm Source | 3 terminals input, VMD alarm, Command alarm, Audio detection alarm |
| | Alarm Actions | SDXC/SDHC/SD memory recording, E-mail notification, |
| | | HTTP alarm notification Indication on browser, |
| | | Panasonic alarm protocol output |
| Input/ | Monitor Output | VBS : 1.0 V [p-p] / 75 Q, composite, Pin jack |
| Output | (for adjustment) | An NTSC or PAL signal can be outputted from camera |
| | Audio input | 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 | ø3.5 mm stereo mini jack (monaural output) |
| | | Output impedance : Approx. 600 Ω (unbalanced) |
| | | Output level : -20 dBV |
| | External I/O Terminals | 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 : DC12 V 480 mA, Approx. 5.8 W |
| | Power Consumption | PoE (IEEE802.3af compliant)Device : DC48 V 130 mA, Approx. 6.3 W (Class 2 device) |
| | Ambient Operating | -10 °C to +50 °C (14 °F to 122 °F) |
| | Temperature | |
| | Ambient Operating Humidity | 10 to 90 % (no condensation) |
| | Dimensions | 75 mm (W) x 57 mm (H) x 146 mm (D) |
| | | {2-15/16 inches (W) x 2-1/4 inches (H) x 5-3/4 inches (D)} |
| | | (excluding lens / power cord plug) |
| | Mass (approx.) | 370 g { 0.82 ibs.} |
| | Finish | Main body : PC / ABS resin (i-PRO white) |

*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. *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).

AI Analytics applications

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)

Al Privacy Guard

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

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.

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.

3rd party applications are also available.

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

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