

WV-S22500-V3L

Preliminary

New S-series wide lineup high resolution network camera with AI engine

5MP Vandal Resistant Indoor Dome Network Camera

The 5MP/6MP/4K varifocal lens model, a high-resolution network camera will be added to the lineup of the well-established new S series.

Equipped with an AI processor, it can run up to three AI analytics applications (AI apps) simultaneously, which significantly improve the detection rate of people and vehicles and can be used in a wide range of surveillance scenes.

It realizes high-quality and clearer images even in low-light and wide-range shooting scenes. With the released of total 34 models, including fixed focus, black body, smoke dome, and derivative models such as heavy salt damage resistant models, to support a wide variety of security monitoring applications.

3 AI Apps operation at same time

- Up to 3 Al apps can be operated at the same time from the wide variety.
 Using Al processor which identifies object as people or vehicle, it will reduce false alarm compared to conventional model.
 As result, it can be used many industries.

High image quality / High compression

- Our original smart coding technology compatible with H.264 and H.265 delivers high-resolution video at high image quality and low bit rate. Achieved useful images by combining with highly visible images by the intelligent auto (iA) function.

Easy setting and installation

- Easy Kitting Package enabling installers to configure cameras easily while keeping the unit in the box.
- The grommet on the outdoor model can reduce the time and effort required for installation.
- User-friendly GUI (setting while watching Live view, etc.) allows you to set comfortably.

iCT tool allows you to set multiple cameras, apps, and recorders all at once, reducing the camera setting time.

High security

- Equipped with FIPS 140-2 level 3 certified hardware in addition to the digital certificate issued by a third party organization (Global Sign).

Key i-PRO Spec.

- 5MP
- Intelligent Auto (with AI Engine)
- Super Dynamic 132dB
- Color night vision (0.05 to 0.07 lx)
- Smart Coding (with Al Engine)
- Built-in IR LED
- Vandal Resistant
- ONVIF $^{\otimes}$ Profile G / M / S / T *ONVIF is a trademark of ONVIF, Inc.

Industry examples

- Airport (Passport control / Security checkpoint / Ticket counter)
- Retail / Bank / Education / Hospital / Building



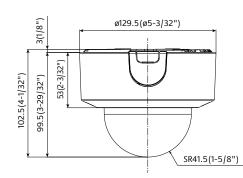


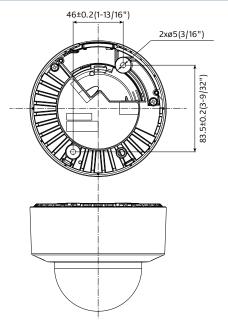
Specifications

| · | | tions | A 1/2 0 b CMOC : | | |
|-----------|----------------------------------|--------------------|--|--|--|
| Camera | Image Se | | Approx. 1/2.8 type CMOS image sensor | | |
| | Minimum Illumination | | Color : 0.05 lx (30IRE, F1.5, 1/30s) *1 | | |
| | M/hita Dalassa | | Color: 0.07 k (50IRE, F.I.5, 1/30s) BW: 0.04 k (50IRE, F.I.5, 1/30s) BW: 0 k (50IRE, F.I.5, 1/30s) BW: 0 k (50IRE, F.I.5, 1/30s) ATWT / ATWZ / AWC | | |
| | | | | | |
| | | | | | |
| | White Balance Shutter Speed | | • • | | |
| | | | [30fps/15fps mode] 1/30 Fix to 1/10000 Fix [25fps/12.5fps mode] 1/25 Fix to 1/10000 Fix On / Off | | |
| | | | | | |
| | Intelligent Auto Super Dynamic*2 | | On / Off, The level can be set in the range of 0 to 31. | | |
| | Dynamic Range | | Max.132 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) / Off | | |
| | High light compensation | | (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, | | |
| | Digital Noise Reduction | | Maximum irradiation distance : 40 m {Approx. 131 ft} (30IRE) "1 30 m {Approx. 98 ft} (50IRE) The level can be set in the range of 0 to 255. | | |
| | | | | | |
| | | | | | |
| | Video Motion Detection (VMD) | | On / Off, 4 areas available | | |
| | Scene Change Detection (SCD) | | On / Off, 1 areas available | | |
| | Audio Detection | | On / Off | | |
| | Al Sound Classification | | Gunshot, Yell, Vehicle horn, Glass break | | |
| | Al Analytics | | Yes | | |
| | Privacy 2 | | 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 | | 3.1 x (Motorized zoom / Motorized Focus) | | |
| | Extra zoom | | 3.1x - 9.3x (when resolution is 853 x 480) | | |
| | Focal length | | 2.9 - 9 mm {1/8 inches - 11/32 inches} | | |
| | Angular Field of View | | [16:9 mode] Horizontal: 33° (TELE) - 105° (WIDE), Vertical: 19° (TELE) - 56° (WIDE) | | |
| | | | [4:3 mode] Horizontal: 33° (TELE) - 105° (WIDE), Vertical: 25° (TELE) - 76° (WIDE) | | |
| | Maximum Aperture Ratio | | 1: 1.3 (WIDE) - 1: 2.5 (TELE) | | |
| | Focus range | | 0.3 m {11-13/16 inches} - ∞ | | |
| DORI | Detect (25ppm / 8ppf) | | Wide: 47.1 m / 154.7 ft, Tele: 207.4 m / 680.5 ft | | |
| | | (62.5ppm / 19ppf) | Wide: 18.9 m / 61.9 ft, Tele: 83.0 m / 272.2 ft | | |
| | Recogniz | e (125ppm / 38ppf) | Wide: 9.4 m / 30.9 ft, Tele: 41.5 m / 136.1 ft | | |
| | Identify | (250ppm / 76ppf) | Wide: 4.7 m / 15.5 ft, Tele: 20.7 m / 68.1 ft | | |
| Adjusting | | | Horizontal : -240 to +120°, Vertical : -30 to +85°, Yaw : ±100° | | |
| 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 | on | [16:9 mode (30 fps mode)][16:9 mode (25 fps mode)] | | |
| | H.265/ H.264/ JPEG (MJPEG) | | 3072x1728/2560x1440/1920x1080/1280x720/640x360/320x180 | | |
| | | | [4:3 mode (30 fps mode)][4:3 mode (25 fps mode)] | | |
| | | | 3072x2304/2560x1920/1280x960/800x600/VGA/400x300/320x240 | | |
| | H.265/ | Transmission Mode | Constant bit rate / VBR / Frame rate / Best effort | | |
| | H.264*6 | Transmission Type | Unicast port (AUTO) / Unicast port (MANUAL) / Multicast | | |
| | | Image Quality | 10 steps | | |
| | 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 | | |

| Network | 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) IPV6: TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, SMTP, DNS, NTP, SNMPV1/v2/v3 DHCPv6, RTP, MLD, ICMP, ARP, IEEE 802.1X, DiffServ, SFTP, MQTT, LLDI IPV4: TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, RTSP, RTP, RTP/RTCP, MTP, DHCP, DNS, DDNS, NTP, SNMPv1/v2/v3, UPPP, IGMP, ICMP, ARP, IEEE 802.1X, DiffServ, SRTP, STP, MQTT, LLDP | | |
| | | | | |
| | Supported Protocol | | | |
| | No. of Simultaneous Users | Up to 14 users (Depends on network conditions) | | |
| | SDXC/SDHC/SD | H.265 / H.264 recording : | | |
| | Memory Card | Manual REC / Alarm REC (Pre/Post) / Schedule REC / Backup upon network failure JPEG recording: Manual REC / Alarm REC (Pre/Post) / Backup upon network failure Compatible SDXC/SDHC/SD Memory Card: microSDXC memory card: 64 GB, 128 GB, 256 GB, 512 GB microSDHC memory card: 4 GB, 8 GB, 16 GB, 32 GB microSDHC memory card: 4 CB. | | |
| | | | | |
| | | | | |
| | Mobile Terminal Compatibility | iPad, iPhone(iOS 8.0 or later), Android™ terminals | | |
| | ONVIF® Profile | G/M/S/T | | |
| Alarm | Alarm Source | 3 terminals input, VMD alarm, Command alarm, Audio detection alarm | | |
| | Alarm Actions | SDXC/SDHC/SD memory recording, E-mail notification, | | |
| | | HTTP alarm notification Indication on browser. | | |
| | | TCP alarm notification output | | |
| Input/ | Monitor Output | VBS : 1.0 V [p-p] / 75 Ω, composite, Pin jack | | |
| Output | (for adjustment) | An NTSC or PAL signal can be outputted from camera | | |
| | Audio input | ø3.5 mm stereo mini jack | | |
| | For microphone input : | Recommended applicable microphone : Plug-in power type | | |
| | | (Sensitivity of microphone : -51 dB to -38 dB (0 dB=1 V/Pa, 1 kHz)) | | |
| | | Input impedance : Approx. 2 kΩ (unbalanced) | | |
| | | Supply voltage : 2.5 V ±0.5 V | | |
| | For line input : | Input level : Approx10 dBV | | |
| | Audio Output | ø3.5 mm stereo mini jack (monaural output) | | |
| | nadio 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) (x' 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 | | |
| Genera. | FMC | FCC (Part15 ClassA), ICES-003 ClassA, EN55032 ClassA, EN55035 | | |
| | Power Source and | DC power supply: DC12 V 1.0 A, Approx. 12.0 W | | |
| | Power Consumption | PoE (IEEE802.3af compliant) Device: DC48 V 240 mA, Approx. 11.5 W (Class 0 device) | | |
| | Ambient Operating | -10 °C to +50 °C (14 °F to 122 °F) | | |
| | Temperature | (Power On range: 0 °C to 50 °C{32°F to 122 °F}) | | |
| | Shock Resistance | IK10 (IEC 62262) | | |
| | Ambient Operating Humidity | 10 to 90 % (no condensation) | | |
| | Dimensions | ø129.5 mm x 102.5 mm (H) {ø5-3/32 inches x 4-1/32 inches (H)} | | |
| | | Dome radius 41.5 mm {1-5/8 inches} | | |
| | Mass (approx.) | 800 q {1.77 lbs.} | | |
| | Finish | Main body : Aluminum die cast, i-PRO white | | |
| | | Dome cover : Polycarbonate resin, Clear | | |

Appearance





Unit: mm (inches)

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 <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).

Al Analytics applications

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

Al Video Motion Detection (Al-VMD)

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

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.

Al 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

Al 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.

Al Occupancy Detection

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

Optional Accessories

Mount Bracket / Other

| | WALL | | POLE | CORNER HAI | | GING |
|-------------|--|--|---|---|---|--|
| | 1 | 2 | 1 | 1 | 1 | 2 |
| combination | Wall Mount Bracket WV-QWL501-W (i-PRO white) | Wall Mount Bracket WV-QWL500-W (i-PRO white) | Pole Mount Bracket WV-QPL500-W (i-PRO white) | Corner Mount Bracket WV-QCN500-W (i-PRO white) | Ceiling Mount Bracket WV-QCL501-W (i-PRO white) | Ceiling Mount Bracket WV-QCL100-W '1 (i-PRO white) |
| | 0. | | | | | |
| | Mount Bracket WV-QSR501-W (i-PRO white) | Adapter Box WV-QJB500-W (i-PRO white) | Wall Mount Bracket WV-QWL500-W (i-PRO white) (+ WV-QJB500-W) | Wall Mount Bracket WV-QWL500-W (i-PRO white) (+ WV-QJB500-W) | Mount Bracket WV-QSR501-W (i-PRO white) | |
| | 4 | "If needed. | + 0 | + 0 | 4 | 3rd.parties pipe |

^{*1:} It's possible to be used on the camera side and ceiling side. If used on both side, 2pieces are required.

| | CEII | OTHER | | |
|-------------|---|--------------------------------|--|--|
| | CEIL | OTHER | | |
| combination | 1 | 2 | 1 | |
| | Ceiling Mount Bracket (Embedded) WV-QEM100-W (i-PRO white) | Ceiling Mount Bracket WV-Q105A | Attachment pipe (For 3rd party bracket) WV-QAT500-W (i-PRO white) | |
| | | | Mount Bracket WV-QSR501-W (i-PRO white) | |
| | | | | |
| | | | 3rd.parties pipe | |

Dome Cover



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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.

