

# WV-X35302-F2LM

2MP On-board Compact Dome Network Camera with AI engine

## All-in-one Compact dome camera with AI engine and IR-LED



- 2MP Compact dome camera
- Up to 2 Edge AI analytic apps
- On-board application (EN50155, EN45545 compliant)
- Discreet design
- Wide angle of view (Horizontal 132°)
- Built-in IR-LED (21m/69ft)
- Built-in microphone
- IP66, IK10 certified
- Built-in FIPS 140-2 Level 3 Certified SecureElement (EdgeLock® SE050F NXP® Semiconductors)
- NDAA Compliant



# SPECIFICATIONS

| Camera   |  |
|--|--|
| Image Sensor                                     | Approx.1/2.8 type CMOS image sensor  |
| Scanning Area                                    | 5.57 mm (H) × 3.13 mm (V)<br>{7/32 inches (H) × 1/8 inches (V)}  |
| Minimum Illumination                             | Color : 0.02 lx (30IRE, F2.1, 1/30 s) , Color : 0.03 lx (50IRE, F2.1, 1/30 s)<br>BW : 0.02 lx (50IRE, F2.1, 1/30 s) , BW : 0 lx (50IRE, F2.1, 1/30 s with IR LED)  |
| White Balance                                    | ATW1/ ATW2/ AWC  |
| Maximum shutter                                  | 60 fps/30 fps/15 fps mode: Max.1/10000s to Max.16/30s<br>50 fps/25 fps/12.5 fps mode: Max.1/10000s to Max.16/25s   |
| Intelligent Auto                                 | On / Off   |
| Super Dynamic                                    | On / Off, The level can be set in the range of 0 to 31. *1   |
| Dynamic Range                                    | 144 dB max. (Super Dynamic: On, Level: 31)   |
| Adaptive Black Stretch                           | The level can be set in the range of 0 to 255.   |
| Back Light Compensation/ High Light Compensation | BLC/ HLC/ Off, The level can be set in the range of 0 to 31. (only when Super Dynamic/ Intelligent Auto: Off)  |
| Fog Compensation                                 | On/ Off, The level can be set in the range of 0 to 8.<br>(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<br>Maximum irradiation distance : 21 m {Approx. 69 ft} (30IRE)* , 15 m {Approx. 49 ft} (50IRE)<br>* Converted value   |
| 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 area available  |
| Audio Detection                                  | On/Off   |
| AI Sound Classification                          | Selectable from Gunshot, Yell, Vehicle horn, Glass break   |
| AI Analytics                                     | AI Video Motion Detection, AI Privacy Guard, AI Face Detection, AI People Detection, AI Vehicle Detection, AI Non mask Detection, AI Occupancy Detection, AI Scene Change Detection<br><br>For details :<br><a href="https://i-pro.com/products_and_solutions/en/surveillance/products/analytics-software">https://i-pro.com/products_and_solutions/en/surveillance/products/analytics-software</a><br>3rd party applications are also available.<br><a href="https://i-pro.com/products_and_solutions/en/surveillance/solutions/edge-ai-platform/application-list">https://i-pro.com/products_and_solutions/en/surveillance/solutions/edge-ai-platform/application-list</a> |
| Privacy Zone                                     | On/ Off, up to 8 zones available   |
| VIQS   | On/ Off, up to 8 zones available   |
| Image Rotation                                   | 0° (Off)/ 90°/ 180° (Upside-down)/ 270°  |
| Camera Title (OSD)                               | On/ Off, Up to 40 characters, Up to 2 Lines (alphanumeric characters, marks)   |
| Lens   |  |
| Optical zoom                                     | 1x   |
| Extra zoom                                       | max 3.0 x<br>(1.0-1.5x when resolution is 1280x720)<br>(1.0-3.0x when resolution is 640x360)   |

|                           |                                  |
|---------------------------|----------------------------------|
| Digital (Electronic) zoom | -                                |
| Focal length              | 2.4mm {3/32inches}               |
| Angular Field of View     | Horizontal: 132° , Vertical: 74° |
| Maximum Aperture Ratio    | 1 : 2.1                          |
| Focus range               | 0.5 m {19-11/16 inches} –∞       |
| Aperture range            | F2.1                             |

| DORI                       |                |
|----------------------------|----------------|
| Detect (25ppm / 8ppf)      | 17.1m / 56.1ft |
| Observe (62.5ppm / 19ppf)  | 6.8m / 22.4ft  |
| Recognize (125ppm / 38ppf) | 3.4m / 11.2ft  |
| Identify (250ppm / 76ppf)  | 1.7m / 5.6ft   |

| System on Chip (SoC) |                 |
|----------------------|-----------------|
| System on Chip (SoC) | Ambarella CV25M |

| Adjusting Angle |  |
|-----------------|--|
| Adjusting Angle | Horizontal (PAN) angle: -45°to +45° , Vertical (TILT) angle: 0°to +90°<br>Azimuth (YAW) angle: -90°to +90° |

| Browser GUI               |   |
|---------------------------|---|
| GUI / Setup Menu Language | English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese |
| Browser *2                | Microsoft Edge, Firefox, Google Chrome  |

| Network                                 |   |
|---|---|
| Network IF                              | 10BASE-T/100BASE-TX, M12 connector  |
| Resolution                              | [16:9 mode(60 fps mode/ 30 fps mode/ 50 fps mode/ 25 fps mode)]<br>1920x1080 /1280x720 / 640x360 / 320x180<br>[4:3 mode(30 fps mode/ 25 fps mode)] 1280x960 / 640x360 / 320x180<br>[4:3 mode(15 fps mode/ 12.5 fps mode)] 2048x1536 / 1280x960 / 640x360 / 320x180  |
| H.265/H.264 Transmission Mode / Type *3 | [Transmission Mode] Constant bit rate / VBR / Frame rate / Best effort<br>[Transmission Type] Unicast port (AUTO) / Unicast port (MANUAL) / Multicast   |
| JPEG                                    | [Image Quality] 10 steps  |
| Smart Coding                            | [GOP(Group of pictures) control]<br>Off/ Low (Variable GOP 1s-8s)/ Mid (Variable GOP 4s-16s)/ Advanced (Fixed GOP 60 seconds with 1 second Key frame)/ Frame rate control (Variable GOP 4s-16s with frame rate control)<br>*Advanced and Frame rate control are only available with H.265.<br>[Smart VIQS] On(High)/On(Low)/Off<br>[Smart P-picture control] On/Off |
| Audio Compression                       | G.726 (ADPCM): 32 kbps/16 kbps , G.711: 64 kbps , AAC-LC: 64kbps/96kbps/128kbps *4  |
| 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, LLDP, FTP, SFTP, MQTT<br>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, LLDP, FTP, SFTP, MQTT                        |
| No. of Simultaneous Users               | Up to 14 users (Depends on network conditions)  |
| Secure                                  | FIPS 140-2 level 3 (NXPR EdgeLock® SE050F), Device Certificate GlobalSign® pre-installed, HTTPS, User authentication, Digest authentication, Host authentication, IEEE802.1X, System log, Image transmission log, Brute-force protection, Alteration detection  |
| SDXC/SDHC/SD Memory Card (Option)       | microSDXC memory card: 64 GB,128 GB,256 GB,512 GB<br>microSDHC memory card: 4 GB,8 GB,16 GB,32 GB , microSD memory card: 2 GB   |
| Mobile Terminal Compatibility           | iPad / iPhone (iOS 8.0 or later), Android™ mobile terminals   |

| Alarm         |  |
|---------------|--|
| Alarm Actions | SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarm notification Indication on browser, TCP alarm notification output |

| General                       |  |
|-------------------------------|--|
| Safety                        | UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1  |
| EMC                           | FCC (Part15 ClassA), ICES-003 ClassA, EN55032 ClassA, EN55035                                      |
| Power Source                  | PoE (IEEE802.3af Compliant, alternative A)   |
| Power Consumption             | PoE DC 48V: 180mA / approx. 8.6W (Class 0 device)  |
| Ambient Operating Temperature | -40 °C to +60 °C {-40 °F to 140 °F}<br>(Power On range: -20 °C to +60 °C {-4 °F to 140 °F})        |
| Ambient Operating Humidity    | 10 % to 100 % (no condensation)  |
| Water and Dust Resistance     | IP66 (IEC 60529), Type 4X (UL50E), NEMA 4X compliant   |
| Shock Resistance              | IK10 (IEC 62262)   |
| Railway Application           | EN45545 compliant, EN50155-TX  |
| Wind Resistance               | Up to 40 m/s {approx. 89 mph}  |
| Dimensions                    | 109 mm (W) x 53 mm (H) x119 mm (D)<br>{4-19/64inches (W) x 2-3/32 inches (H) x 4-11/16 inches (D)} |
| Mass (approx.)                | approx. 475g {1.05 lbs}  |
| Finish                        | Main body: Aluminum die cast, i-PRO white<br>Front panel: PC resin, Clear                          |
| Other                         | Tamper-resistant enclosure *5  |

## NOTES

\*1 When 60 fps or 50 fps is selected, the Super Dynamic function is automatically set to off.

\*2 For information on the operation verification of the web browsers, refer to our support website <Control No.: C0132>.

\*3 Transmission for 4 streams can be individually set.

\*4 When recording audio on an SD memory card, only use AAC-LC (Advanced Audio Coding - Low Complexity) .

\*5 Component that has a structure on which the screws that are accessible after installation cannot be screwed or unscrewed using an ordinary screwdriver.

### 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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## OPTIONAL ACCESSORIES

Select a compatible accessory

[Accessory Selector \(i-pro.com\)](https://i-pro.com/Accessory_Selector).



WV-QAT502-W  
Gangbox Adapter



WV-QCN500-W  
Mount Bracket



WV-QJB500-W  
Mount Bracket



WV-QJB502A-W  
Mount Bracket



WV-QPL500-W  
Mount Bracket



WV-QWL500-W  
Mount Bracket



WV-CW6SA  
Dome Cover

車載モデル  
In-vehicle model

