

# IK-EXB186440-R

4MP 40x Explosion-Proof IR Network Camera



## Key Features

- 1/1.8" STARVIS™ CMOS, up to 4MP (2688 × 1520) @ 50/60 fps
- 40x optical zoom, 16x digital zoom
- Supports face, human, and vehicle detection with snapshot capture
- Supports human and vehicle attribute analysis
- Intelligent analytics: Intrusion, smart motion detection, line crossing, loitering, wrong-way detection, area people limit, perimeter detection, illegal parking, running detection, fall detection, fight detection, smoke and flame detection, and people counting.
- True WDR, 3D DNR, ICR, Defog, and EIS
- Smart IR illumination up to 200 m
- Material: 316L Stainless steel, IP68 water resistant, built-in wiper
- ATEX: II 2 G Ex db IIC T6 Gb, Ex II 2 D Ex tb IIIC T80°C Db

## Specifications

| Camera                    |                                                                                                                                                                                                                                                                                                                      |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor              | 1/1.8" Progressive Scan CMOS                                                                                                                                                                                                                                                                                         |
| Max Resolution            | 4MP (2688 × 1520)                                                                                                                                                                                                                                                                                                    |
| Shutter Speed             | 1/5 to 1/20,000s                                                                                                                                                                                                                                                                                                     |
| Min Illumination          | Color: 0.001 Lux @ (F1.6, AGC ON), B/W: 0.0005 Lux @ (F1.6, AGC ON)                                                                                                                                                                                                                                                  |
| Day & Night               | Auto (ICR)                                                                                                                                                                                                                                                                                                           |
| S/N Ratio                 | 55 dB                                                                                                                                                                                                                                                                                                                |
| Lens                      |                                                                                                                                                                                                                                                                                                                      |
| Focal Length              | 6.8–272 mm                                                                                                                                                                                                                                                                                                           |
| Max. Aperture             | F1.63–F4.94                                                                                                                                                                                                                                                                                                          |
| Field of View (FOV)       | H: 62.3°–2.3°, V: 36.9°–1.3°                                                                                                                                                                                                                                                                                         |
| Optical Zoom              | 40×                                                                                                                                                                                                                                                                                                                  |
| Digital Zoom              | 16×                                                                                                                                                                                                                                                                                                                  |
| Iris                      | Auto / Manual                                                                                                                                                                                                                                                                                                        |
| Focus Control             | Auto / Manual                                                                                                                                                                                                                                                                                                        |
| Illuminator               |                                                                                                                                                                                                                                                                                                                      |
| Type                      | IR                                                                                                                                                                                                                                                                                                                   |
| IR wavelength             | 850 nm                                                                                                                                                                                                                                                                                                               |
| Distance                  | Up to 200 m (656.17 ft)                                                                                                                                                                                                                                                                                              |
| Control                   | Auto / Manual                                                                                                                                                                                                                                                                                                        |
| Intelligent Analytics     |                                                                                                                                                                                                                                                                                                                      |
| AI Multi-Target Detection | <ul style="list-style-type: none"> <li>- Supports face, human, and vehicle detection with snapshot capture</li> <li>- Supports human and vehicle attribute analysis</li> <li>- Supports tracking display modes: Full Frame, Four-Corner Frame, and Mosaic</li> </ul>                                                 |
| Attribute Analysis        | Human Attributes: Gender, age, glasses, hat, bag, upper clothing color & style, lower clothing color & style, reflective vest.<br>Vehicle Attributes: Type, color, brand, orientation                                                                                                                                |
| Intelligent Analysis      | Intrusion detection, smart motion detection, single line crossing, double line crossing, loitering, wrong-way detection, area people limit, perimeter detection, illegal parking, running detection, fall detection, fight detection.<br>- Supports alarm triggering based on specified target types (human/vehicle) |
| Smoke and Flame Detection | Supported                                                                                                                                                                                                                                                                                                            |
| People Counting           | Supported                                                                                                                                                                                                                                                                                                            |
| Video & Audio             |                                                                                                                                                                                                                                                                                                                      |

|                          |                                                                                                                                |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Number of Streams        | 3 Streams                                                                                                                      |
| Resolution               | Stream 1: 2688 × 1520, 2560 × 1440, 2304 × 1296, 1920 × 1080, 1280 × 720<br>Stream 2: D1, VGA, CIF<br>Stream 3: VGA, CIF, QVGA |
| Frame Rate               | Up to 50/60 fps                                                                                                                |
| Bit Rate Control         | CBR/VBR                                                                                                                        |
| Bit Rate                 | Stream 1: 200 Kbps to 16 Mbps<br>Stream 2: 100 Kbps to 6 Mbps<br>Stream 3: 100 Kbps to 3 Mbps                                  |
| Smart Encoding           | Supported                                                                                                                      |
| Region of Interest (ROI) | Up to 8 zones                                                                                                                  |
| Audio Compression        | G.711 A-law, G.711 μ-law, RAW_PCM                                                                                              |
| Audio Bit Rate           | 64 kbps (G.711), 128 kbps (RAW_PCM)                                                                                            |

### Image

|                    |                                                        |
|--------------------|--------------------------------------------------------|
| Image Adjustment   | Brightness, Sharpness, Contrast, Saturation adjustable |
| Scene Mode         | Indoor, Outdoor, Mirror                                |
| Exposure Mode      | Auto, Manual, Shutter priority, Iris priority          |
| White Balance      | Auto, Tungsten, Fluorescent, Daylight, Shadow, Manual  |
| Day/Night Setting  | Auto, Day mode, Night mode, Timer                      |
| Noise Reduction    | 2D/3D DNR                                              |
| Image Enhancement  | HLC, BLC, Defog, WDR, Anti-shake                       |
| Wide Dynamic Range | True WDR (120 dB)                                      |
| Privacy Masking    | Up to 8 zones                                          |

### Event

|                |                                                                                                                 |
|----------------|-----------------------------------------------------------------------------------------------------------------|
| Alarm Triggers | IVS, Motion detection, Alarm input, Network alarm, Disk alarm, Day/Night switch alarm, Abnormal sound detection |
| Event Actions  | Alarm record, FTP upload, Email notification, Snapshot, Alarm output, Audible alarm output                      |

### Network

|                                   |                                                                                                                                                   |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Protocols                         | IPv4/IPv6, HTTP/HTTPS, DNS, DDNS, DHCP, PPPoE, RTSP/ RTCP/RTP, TCP/UDP, NTP, ARP, UPnP, FTP, SMTP, QoS, ICMP, IGMP, SMTP, 802.1x, SNMP, Multicast |
| Application Programming Interface | ONVIF (Profile S/T/G/M), SDK, CGI                                                                                                                 |
| Max Concurrent Streams            | 10 channels                                                                                                                                       |
| User/Host Level                   | 32+ users, 3 levels: Administrator, Operator, Media user                                                                                          |
| Web Viewer                        | Chrome, Firefox, Microsoft Edge, IE11 or earlier                                                                                                  |

### Security

|                       |                                                      |
|-----------------------|------------------------------------------------------|
| OS / Firmware Protect | Encrypted firmware, Secure boot, Signed firmware     |
| User Authentication   | Digest authentication, Brute-force attack protection |

|                        |                                      |
|------------------------|--------------------------------------|
| Network Authentication | IEEE 802.1X (EAP-TLS)                |
| Secure Communication   | HTTPS, WSS (WebSocket Secure), SRTP  |
| Access Control         | IP-based access control, Auto logout |
| Data Protect           | Encryption credentials               |
| Audit                  | Access, system, and event logs       |
| Secure Storage         | AES-256 encrypted SD card storage    |
| Supply Chain Security  | SBOM                                 |

## Interface

|                   |                                                                                                                     |
|-------------------|---------------------------------------------------------------------------------------------------------------------|
| Network Interface | 1 × RJ45 10/100 Mbps Ethernet port                                                                                  |
| Audio Interface   | 1 input, 1 output                                                                                                   |
| Alarm Interface   | 2 inputs, 1 output                                                                                                  |
| RS-485            | 1 × RS-485                                                                                                          |
| CVBS Output       | 1 × BNC                                                                                                             |
| SD Card Slot      | Built-in microSD card slot (up to 1 TB)<br>*Memory card must be factory pre-installed and is not field-installable. |
| Reset Button      | Supported                                                                                                           |

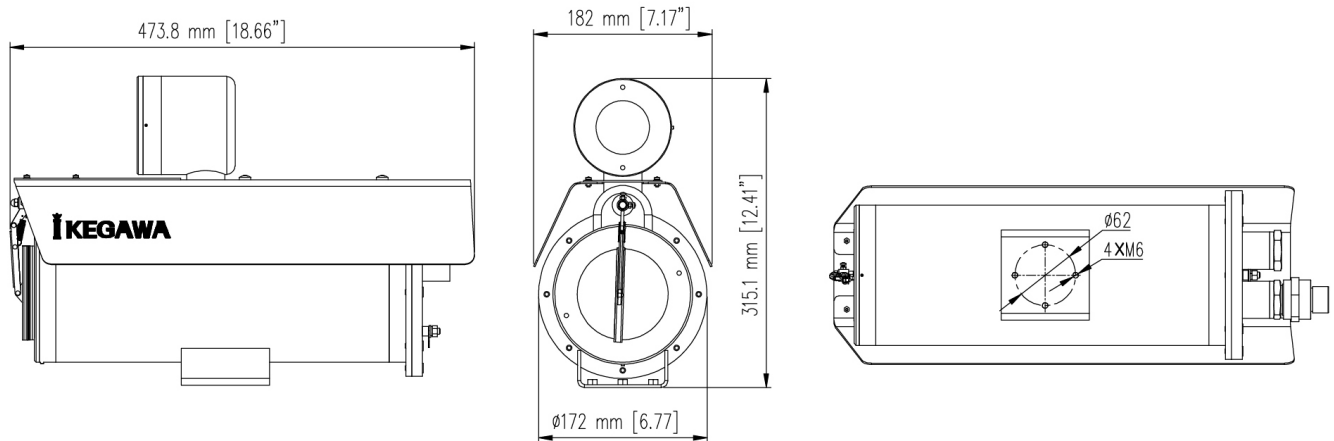
## General

|                       |                                                                                                                                                    |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Language              | English, Chinese, Traditional Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian, Japanese, Korean. Default: English |
| Power Supply          | 100–240 VAC                                                                                                                                        |
| Power Consumption     | ≤ 40 W                                                                                                                                             |
| Operating Temperature | -40 °C to 60 °C (-40 °F to 140 °F)                                                                                                                 |
| Operating Humidity    | ≤ 95% RH (Non-condensing)                                                                                                                          |
| Ingress Protection    | IP68                                                                                                                                               |
| Wiper                 | Supported                                                                                                                                          |
| Cable Entry           | M25 × 1.5                                                                                                                                          |
| Certifications        | ATEX: II 2GD Ex db IIC T6 Gb / Ex tb IIIC T80°C Db;<br>IECEX: Ex db IIC T6 Gb / Ex tb IIIC T80°C Db                                                |
| Material              | SUS316L                                                                                                                                            |
| Dimensions            | 473.8 × 182 × 315.1 mm (18.66 × 7.17 × 12.41 in)                                                                                                   |
| Net Weight            | Approx. 15 kg (33.31 lb)                                                                                                                           |

## DORI Distance (EN 62676-4 standard)

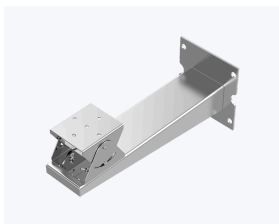
|           |                            |
|-----------|----------------------------|
| Detect    | 95–5,600 m (312–18,373 ft) |
| Observe   | 38–1,520 m (125–4,987 ft)  |
| Recognize | 19–760 m (62–2,493 ft)     |
| Identify  | 9.5–380 m (31–1,247 ft)    |

## Dimensions (mm)

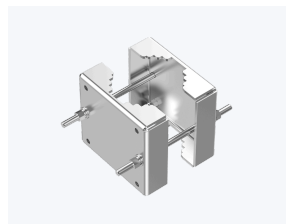


## Accessories

### Optional:



IK-AW401  
Wall Mount Bracket



IK-AP406  
Pole Mount Bracket



IK-ACR407  
Corner Mount Bracket



IK-EXJ200(-F)  
Explosion-proof Junction Box



IK-EXJ150(-N)  
Explosion-proof Junction Box



IK-EXW10L  
Washing Tank