

IK-T4812FR-B

4MP Starlight IR Fixed Turret Network Camera



Key Features

- 1/1.8" progressive scan CMOS
- Max. 4MP(2560×1440) @25/30fps resolution
- 2.8 mm / 4 mm fixed lens optional
- Supports face, human, and vehicle detection & capture.
- Intelligent analytics: Intrusion, smart motion detection, single line crossing, double line crossing, loitering, wrong-way detection, area people limit, perimeter detection, and people counting.
- True WDR (120dB), 3D DNR, ROI, Defog, HLC
- Smart IR distance up to 40 m
- Built-in microphone, 1/1 audio input/output, 1/1 alarm input/output
- Built-in microSD card slot
- IP67-rated housing

Specifications

| Camera | |
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| Image Sensor | 1/1.8" Progressive Scan CMOS |
| Max Resolution | 4MP, 2560(H) × 1440(V) |
| 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), 0 Lux with IR on |
| Day & Night | Auto (ICR) |
| Angle Adjustment | Pan: 0° to 355°, Tilt: 0° to 80°, Rotation: 0 to 360° |
| Lens | |
| Lens Type | Fixed lens, Fixed focal |
| Focal Length | 2.8 mm, 4 mm optional |
| Max. Aperture | F1.6 |
| Field of View (FOV) | 2.8 mm: - H: 110.9°, V: 57.5° 4 mm: - H: 88.7°, V: 50.2° |
| Iris | Fixed Iris |
| Illuminator | |
| Type | IR |
| IR wavelength | 850 nm |
| Distance | Up to 40 m (131.2 ft) |
| Control | Auto/Manual |
| Intelligent Analytics | |
| AI Multi-Target | Supports face, human, and vehicle detection & capture |
| Intelligent Analysis | Intrusion detection, smart motion detection, single line crossing, double line crossing, loitering, wrong-way detection, area people limit, and perimeter detection - Supports accurate target classification (human/vehicle) |
| People Counting | Supported |
| Video & Audio | |
| Number of Streams | 3 Streams |
| Resolution | Stream1: 2560×1440, 2304×1296, 1920×1080, 1280×720 Stream2: D1, VGA, CIF Stream3: VGA, CIF, QVGA |
| Frame Rate | Up to 25/30fps |
| Bit Rate Control | CBR/VBR |

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| Bit Rate | Stream1: 200 Kbps to 12 Mbps Stream2: 100 Kbps to 6 Mbps Stream3: 100 Kbps to 3 Mbps |
| Smart Encoding | Supported |
| Region of Interest (ROI) | Off/On (8 Zone, Rectangle) |
| 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, Corridor mode |
| Exposure Mode | Auto, Manual, Shutter priority |
| White Balance | Auto, Tungsten, Fluorescent, Daylight, Shadow, Manual |
| Day/Night Setting | Auto, Day, Night, Timer |
| Noise Reduction | 2D/3D DNR |
| Image Enhancement | HLC, BLC, Defog, WDR |
| Wide Dynamic Range | True WDR (120dB) |
| Privacy Masking | 4 areas |
| Event | |
| Alarm Triggers | IVS, Motion detection, Alarm input, Network alarm, Disk alarm, Day/Night switch alarm, Abnormal sound detection |
| Event Actions | Alarm record, Alarm output, FTP upload, SMTP upload, Snapshot, 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 | <IE11, Chrome, Firefox, Microsoft Edge |
| Security | |
| OS / Firmware Protect | Encrypted firmware, Signed firmware |
| User Authentication | Digest authentication, Prevent brute-force attack |
| 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 / Event Log management |
| Secure Storage | SDcard partition encrypt (AES-256), Secure element |

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| Supply Chain Security | SBOM |
| Interface | |
| Network Interface | 1 × Ethernet (10/100 Base-T), RJ-45 connector |
| Built-in Microphone | Supported |
| Audio Interface | 1ch Input, 1ch Output |
| Alarm Interface | 1ch Input, 1ch Output |
| SD Card Slot | Built-in, up to 256 GB |
| Reset Button | Supported |
| General | |
| Language | English, Chinese, Traditional Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian, Japanese, Korean. Default: English |
| Power Supply | 12 VDC (-15% to +25%) / PoE (802.3af) |
| Power Consumption | Max 5.5 W |
| Operating Temperature | -40°C to 55°C (-40°F to 131°F) |
| Operating Humidity | Less than 95% RH |
| Ingress Protection | IP67 (housing) |
| Certifications | CE-EMC - EN 55032, EN IEC 61000-6-3, EN IEC 61000-3-2, EN 61000-3-3, EN 55035, EN 50130-4 FCC 47 CFR Part 15 Subpart B |
| Material | Aluminum alloy body, Decoration ring: plastic |
| Dimensions | φ118.2 × 93.9 mm (4.65 × 3.7 inch) |
| Net Weight | Approx. 0.55 kg (1.21 lb) |
| DORI Distance (EN62676-4 standard) | |
| Detect | 2.8 mm: 58 m (190.29 ft) 4 mm: 70 m (229.66 ft) |
| Observe | 2.8 mm: 23.2 m (76.12 ft) 4 mm: 28 m (91.86 ft) |
| Recognize | 2.8 mm: 11.6 m (38.06 ft) 4 mm: 14 m (45.93 ft) |
| Identify | 2.8 mm: 5.8 m (19.03 ft) 4 mm: 7 m (22.97 ft) |

Dimensions (mm)



Accessories

Optional:

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| | | | |
| IK-AJ46M Junction Box | IK-AW382A Wall Mount | IK-ACC03 Pendant Cap | IK-AC02 Ceiling Mount |
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| IK-AW01 Wall Mount | IK-AW02 Wall Mount | IK-AP01 Pole Mount | IK-ACR02 Corner Mount |