

# IK-T4812FW-B

4MP Full Color Turret Network Camera



## Key Features

- 1/1.8" progressive scan CMOS
- Max. 4MP(2560×1440) @25/30fps resolution
- 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
- Built-in warm lights, illumination distance up to 30m
- Built-in microphone, 1/1 audio input/output, 1/1 alarm input/output
- Built-in microSD card slot
- IP67-rated housing

## Specifications

| Camera                |   |
|-----------------------|---|
| 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: 0.0005 Lux @ (F1.0, AGC ON), 0 Lux with illuminator on   |
| Day & Night           | Fixed filter  |
| 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         | F1.0  |
| Field of View (FOV)   | 2.8 mm:<br>- H: 110.6°, V: 59.8°<br>4 mm:<br>- H: 94.3°, V: 50°   |
| Iris                  | Fixed Iris  |
| Illuminator           |   |
| Type                  | Warm light  |
| Distance              | Up to 30 m (98.4 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.<br>- 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<br>Stream2: D1, VGA, CIF<br>Stream3: VGA, CIF, QVGA  |
| Frame Rate            | Up to 25/30fps  |
| Bit Rate Control      | CBR/VBR   |

|                                   |   |
|-----------------------------------|---|
| Bit Rate                          | Stream1: 200 Kbps to 12 Mbps<br>Stream2: 100 Kbps to 6 Mbps<br>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 $\mu$ -law, RAW_PCM  |
| Audio Bit Rate                    | 64 Kbps (G.711), 128 Kbps (RAW_PCM)   |
| <b>Image</b>                      |   |
| 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   |
| <b>Event</b>                      |   |
| 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   |
| <b>Network</b>                    |   |
| 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  |
| <b>Security</b>                   |   |
| 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  |

|   |  |
|---|--|
| Supply Chain Security                     | SBOM   |
| <b>Interface</b>                          |  |
| 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  |
| <b>General</b>                            |  |
| 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 6 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<br>- EN 55032, EN IEC 61000-6-3, EN IEC 61000-3-2, EN 61000-3-3, EN 55035, EN 50130-4<br>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)  |
| <b>DORI Distance (EN62676-4 standard)</b> |  |
| Detect                                    | 2.8 mm: 56 m (183.73 ft)<br>4 mm: 67 m (219.82 ft)   |
| Observe                                   | 2.8 mm: 22.4 m (73.49 ft)<br>4 mm: 26.8 m (87.93 ft)   |
| Recognize                                 | 2.8 mm: 11.2 m (36.75 ft)<br>4 mm: 13.4 m (43.97 ft)   |
| Identify                                  | 2.8 mm: 5.6 m (18.38 ft)<br>4 mm: 6.7 m (21.98 ft)   |

## Dimensions (mm)



## Accessories

### Optional:

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