

# IK-T7A416FC-B

4MP Smart Dual Light Active Deterrence Turret Network Camera



## Key Features

- 1/1.8" progressive scan CMOS
- Max. 4MP(2688×1520) @25/30fps resolution
- Supports face, human, and vehicle detection & capture.
- Supports human and vehicle attribute detection.
- Intelligent analytics: Intrusion, line-crossing, loitering, wrong-way detection, illegal parking, perimeter detection, smart motion detection, people counting, and human behavior analysis (running, fall, fight).
- True WDR (120dB), 3D DNR, ROI, HLC, BLC, Defog.
- Built-in red and blue warning light, support sound-light warning.
- Built-in IR LED and warm lights, illumination distance up to 30 m.
- Built-in mic and speaker, 1/1 audio in/out, 1/1 alarm in/out.
- Built-in microSD card slot (up to 1 TB).
- IP66 protection

## Specifications

| Camera                |                                                                                                                                                                                                                                                                                                    |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor          | 1/1.8" Progressive Scan CMOS                                                                                                                                                                                                                                                                       |
| Max Resolution        | 4MP, 2688(H) × 1520(V)                                                                                                                                                                                                                                                                             |
| Shutter Speed         | 1/5 to 1/20,000s                                                                                                                                                                                                                                                                                   |
| Min Illumination      | Color: 0.0001 Lux @ (F1.0, AGC ON), 0 Lux with illuminator on                                                                                                                                                                                                                                      |
| Day & Night           | Auto (ICR)                                                                                                                                                                                                                                                                                         |
| Angle Adjustment      | Pan: 0° to 335°, Tilt: 0° to 75°, Rotation: 0° to 360°                                                                                                                                                                                                                                             |
| Lens                  |                                                                                                                                                                                                                                                                                                    |
| Lens Type             | Fixed lens                                                                                                                                                                                                                                                                                         |
| Focal Length          | 2.8 mm                                                                                                                                                                                                                                                                                             |
| Max. Aperture         | F1.0                                                                                                                                                                                                                                                                                               |
| Field of View (FOV)   | H: 111.5°, V: 60.4°                                                                                                                                                                                                                                                                                |
| Iris                  | Fixed Iris                                                                                                                                                                                                                                                                                         |
| Illuminator           |                                                                                                                                                                                                                                                                                                    |
| Type                  | IR, Warm light                                                                                                                                                                                                                                                                                     |
| IR wavelength         | 850 nm                                                                                                                                                                                                                                                                                             |
| Distance              | IR distance up to 30 m (98.4 ft)<br>Warm light distance up to 30 m (98.4 ft)                                                                                                                                                                                                                       |
| Control               | IR mode, White mode, Intelligent mode, None                                                                                                                                                                                                                                                        |
| Intelligent Analytics |                                                                                                                                                                                                                                                                                                    |
| AI Multi-Target       | - Supports face, human, and vehicle detection & capture.<br>- Supports human and vehicle attribute detection.                                                                                                                                                                                      |
| Attribute Extraction  | 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, illegal parking, area people limit, perimeter detection, running detection, fall detection, fight detection.<br>- Supports accurate target classification (human/vehicle) |
| People Counting       | Supported                                                                                                                                                                                                                                                                                          |
| Video & Audio         |                                                                                                                                                                                                                                                                                                    |
| Number of Streams     | 3 Streams                                                                                                                                                                                                                                                                                          |
| Resolution            | Stream1: 2688×1520, 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)          | 8 areas                                                                                                                                           |
| 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                                                                                                       |
| 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 mode, Night mode, Timer                                                                                                                 |
| Noise Reduction                   | 2D/3D DNR                                                                                                                                         |
| Image Enhancement                 | WDR, HLC, BLC, Defog                                                                                                                              |
| 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, FTP upload, SMTP upload, Alarm output, Snapshot, Audible alarm output, White light alarm output, Red and blue light alarm           |
| <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 user levels: Administrator, Operator, Media user                                                                                     |
| Web Viewer                        | <IE11, Chrome, Firefox, Microsoft Edge                                                                                                            |
| <b>Security</b>                   |                                                                                                                                                   |
| OS / Firmware Protect             | Encrypted firmware, Secure boot, 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                                              |

## Interface

|                     |                                               |
|---------------------|-----------------------------------------------|
| Network Interface   | 1 × Ethernet (10/100 Base-T), RJ-45 connector |
| Built-in Microphone | Supported                                     |
| Built-in Speaker    | Supported                                     |
| Audio Interface     | 1 × Input; 1 × Output                         |
| Alarm Interface     | 1 × Input; 1 × Output                         |
| SD Card Slot        | Built-in microSD card slot, up to 1 TB        |
| Reset Button        | Supported                                     |

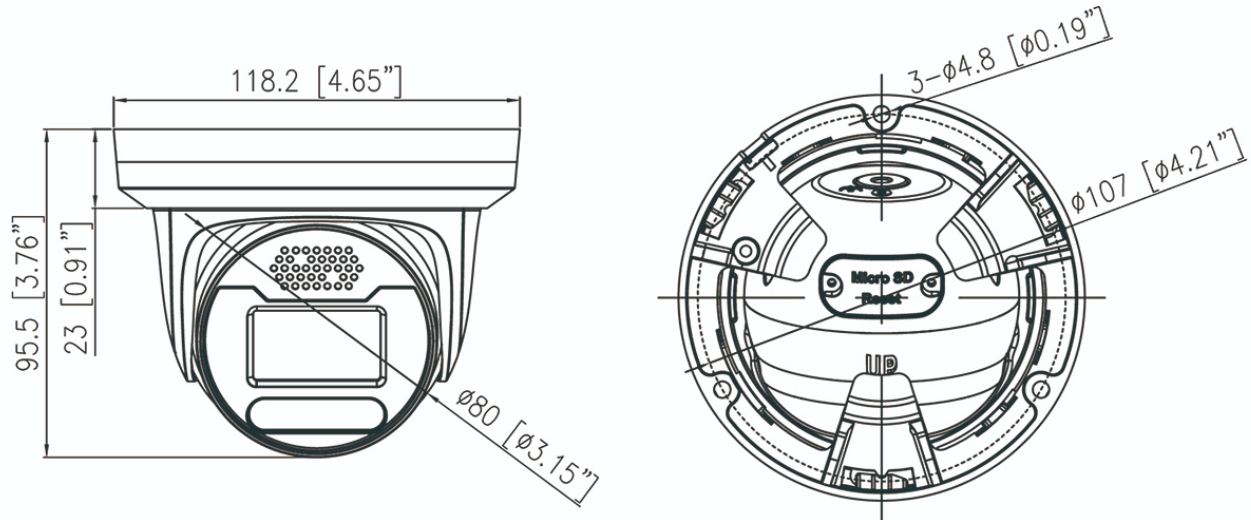
## General

|                       |                                                                                                                                                    |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 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     | Typical: 2.3 W (12VDC); approx. 2.9 W (PoE)<br>Max (with IR/Warm Light + Speaker + Red/Blue Lights on): 8.3 W (12 VDC); approx. 10.4 W (PoE)       |
| Operating Temperature | -30°C to 60°C (-22°F to 140°F )                                                                                                                    |
| Operating Humidity    | Less than 95% RH                                                                                                                                   |
| Ingress Protection    | IP66                                                                                                                                               |
| Certifications        | CE-EMC<br>- EN 55032, EN IEC 61000-6-4, 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 × 95.5 mm (φ4.65 × 3.76 inch)                                                                                                               |
| Net Weight            | Approx. 545 g (1.2 lb)                                                                                                                             |

## DORI Distance (EN62676-4 standard)

|           |                  |
|-----------|------------------|
| Detect    | 56 m (183.7 ft)  |
| Observe   | 22.4 m (73.5 ft) |
| Recognize | 11.2 m (36.8 ft) |
| Identify  | 5.6 m (18.4 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                                                              |