## DS-AS04-IU
## 2 MP AcuSense Fixed Bullet Network Camera

AcuSense



Empowered by deep learning algorithms, Hikvision AcuSense technology brings human and vehicle targets classification alarms to front- and back-end devices. The system focuses on human and vehicle targets, vastly improving alarm efficiency and effectiveness.

Hikvision has been dedicated to develop products with security since established. Hikvision always follows security by design principle and has adopted many methods of security technologies into our product development lifecycle, including terminal security, data security, application security, network security, and privacy protection. In the meantime, the security technologies used by Hikvision are all in compliance with local applicable laws and safety regulations. These security measures could enhance product's cyber security protection capability and protect your devices as well as your data from malicious cyber attacks.

- High quality imaging with 2 MP resolution

- Efficient H.265+ compression technology

- Clear imaging against strong back light due to 120 dB true WDR technology

- Focus on human and vehicle classification based on deep learning

- Built-in microphone for real-time audio security

- Water and dust resistant (IP67)

## ▪ Specification

| Camera | |
|---|---|
| Image Sensor | 1/2.8" Progressive Scan CMOS |
| Max. Resolution | 1920 × 1080 |
| Min. Illumination | Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR |
| Shutter Time | 1/3 s to 1/100,000 s |
| Day ＆ Night | IR cut filter |
| Angle Adjustment | Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360° |
| **Lens** | |
| Lens Type | Fixed focal lens, 2.8, 4, and 6 mm optional |
| Focal Length ＆ FOV | 2.8 mm, horizontal FOV 107°, vertical FOV 57°, diagonal FOV 127° |
| | 4 mm, horizontal FOV 87°, vertical FOV 46°, diagonal FOV 104° |
| | 6 mm, horizontal FOV 54°, vertical FOV 29°, diagonal FOV 63° |
| Lens Mount | M12 |
| Iris Type | Fixed |
| Aperture | F1.6 |
| **DORI** | |
| DORI | 2.8 mm: D: 67 m, O: 26 m, R: 13 m, I: 6 m |
| | 4 mm: D: 80 m, O: 31 m, R: 16 m, I: 8 m |
| | 6 mm: D: 120 m, O: 47 m, R: 24 m, I: 12m |
| **Illuminator** | |
| Supplement Light Type | IR |
| Supplement Light Range | Up to 50 m |
| IR Wavelength | 850 nm |
| **Video** | |
| Main Stream | 50 Hz: 25 fps (1920 × 1080, 1280 × 720) |
| | 60 Hz: 30 fps (1920 × 1080, 1280 × 720) |
| Sub-Stream | 50 Hz: 25 fps (640 × 480, 640 × 360) |
| | 60 Hz: 30 fps (640 × 480, 640 × 360) |
| Third Stream | 50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) |
| | 60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) |
| | *Third stream is supported under certain settings. |
| Video Compression | Main stream: H.265/H.264/H.264+/H.265+ |
| | Sub-stream: H.265/H.264/MJPEG |
| | Third stream: H.265/H.264 |
| Video Bit Rate | 32 Kbps to 8 Mbps |
| H.264 Type | Baseline Profile/Main Profile/High Profile |
| H.265 Type | Main Profile |
| Bit Rate Control | CBR/VBR |
| Scalable Video Coding (SVC) | H.264 and H.265 encoding |
| Region of Interest (ROI) | 5 fixed regions for main stream and sub-stream |
| **Audio** | |
| Audio Compression | G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC |

| Audio Bit Rate | 64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/16 Kbps to 64 Kbps (AAC-LC)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3) |
|---|---|
| Audio Sampling Rate | 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz |
| Environment Noise Filtering | Yes |

**Network**

| | |
|---|---|
| Protocols | TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SNMP, WebSocket, WebSockets |
| Simultaneous Live View | Up to 6 channels |
| API | Open Network Video Interface (Profile S, Profile G), ISAPI, SDK, ISUP |
| User/Host | Up to 32 users. 3 user levels: administrator, operator and user |
| Security | Password protection, complicated password, HTTPS encryption, IP address filter, Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2, WSSE and digest authentication for Open Network Video Interface |
| Network Storage | NAS (NFS, SMB/CIFS), auto network replenishment (ANR)<br>Together with high-end Hikvision memory card, memory card encryption and health detection are supported. |
| Client | iVMS-4200, Hik-Connect, Hik-Central |
| Web Browser | Plug-in required live view: IE 10, IE 11<br>Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+<br>Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+ |

**Image**

| | |
|---|---|
| Image Parameters Switch | Yes |
| Image Settings | Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser |
| Day/Night Switch | Day, Night, Auto, Schedule |
| Wide Dynamic Range (WDR) | 120 dB |
| SNR | ≥ 52 dB |
| Image Enhancement | BLC, HLC, 3D DNR |
| Privacy Mask | Yes |

**Interface**

| | |
|---|---|
| Ethernet Interface | 1 RJ45 10 M/100 M self-adaptive Ethernet port |
| On-Board Storage | Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 512 GB |
| Built-in Microphone | Yes |
| Reset Key | Yes |

**Event**

| | |
|---|---|
| Basic Event | Motion detection (support alarm triggering by specified target types (human and vehicle)),video tampering alarm,exception |
| Smart Event | unattended baggage detection,object removal detection |
| Linkage | Upload to FTP/memory card/NAS, notify surveillance center, trigger recording, trigger capture, send email |

**Deep Learning Function**

| | |
|---|---|
| Perimeter Protection | Line crossing, intrusion, region entrance, region exiting<br>Support alarm triggering by specified target types (human and vehicle) |

| General | |
|---|---|
| Power | 12 VDC ± 25%, reverse polarity protection, 0.5 A, max. 6 W, Ø5.5 mm coaxial power plug<br>PoE: IEEE 802.3af, 36 V to 57 V, Class 3, 0.2 A to 0.13 A, max. 7 W |
| Material | Aluminum alloy body<br>IR cover: plastic |
| Dimension | Ø70 mm × 161.7 mm (Ø2.8" × 6.4") |
| Package Dimension | 216 mm × 121 mm × 118 mm (8.6" × 4.8" × 4.7") |
| Weight | Approx. 490 g (1.1 lb.) |
| With Package Weight | Approx. 724 g (1.6 lb.) |
| Storage Conditions | -30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing) |
| Startup and Operating Conditions | -30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing) |
| Language | 33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian |
| General Function | Anti-banding, heartbeat, password reset via email, pixel counter |
| **Approval** | |
| EMC | FCC (47 CFR Part 15, Subpart B);<br>CE-EMC (EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014);<br>RCM (AS/NZS CISPR 32: 2015);<br>IC (ICES-003: Issue 6, 2016);<br>KC (KN 32: 2015, KN 35: 2015) |
| Safety | UL (UL 60950-1);<br>CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013);<br>CE-LVD (EN 60950-1:2005 + Am 1:2009 + Am 2:2013);<br>BIS (IS 13252(Part 1):2010+A1:2013+A2:2015);<br>LOA (IEC/EN 60950-1) |
| Environment | CE-RoHS (2011/65/EU);<br>WEEE (2012/19/EU);<br>Reach (Regulation (EC) No 1907/2006) |
| Protection | IP67 (IEC 60529-2013) |

## ▪ Typical Application

Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

This model has NO SPECIFIC PROTECTION.

| Level | Description |
|---|---|
| Top-level protection | Hikvision products at this level are equipped for use in areas where professional anti-corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more. |
| Moderate protection | Hikvision products at this level are equipped for use in |

| | areas with moderate anti-corrosion demands. Typical application scenarios include coastal areas about 2 kilometers (1.24 miles) away from coastlines, as well as areas affected by acid rain. |
|---|---|
| No specific protection | Hikvision products at this level are equipped for use in areas where no specific anti-corrosion protection is needed. |

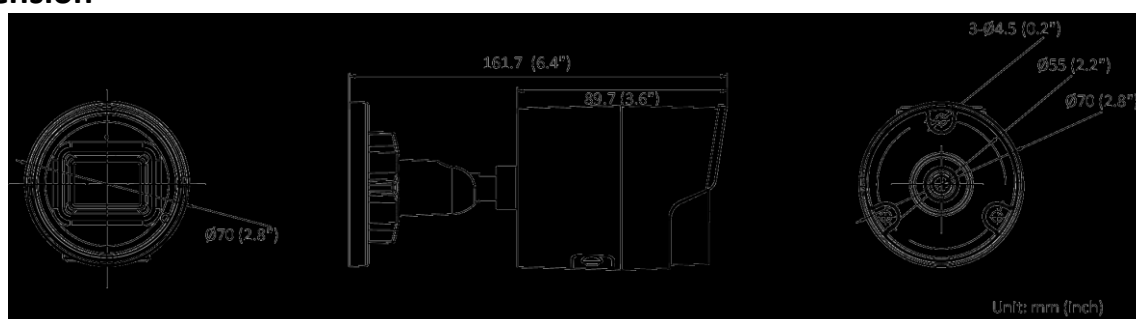## ▪ Available Model

DS-AS04-IU(2.8mm)

DS-AS04-IU(4mm)

DS-AS04-IU(6mm)

## ▪ Dimension



## ▪ Accessory

## ▪ Optional

| DS-1275ZJ-SUS<br>Vertical pole mount | DS-1276ZJ-SUS<br>Corner mount | DS-1280ZJ-XS<br>Junction box |
|---|---|---|
|  |  |  |

# HIKVISION

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