

# HIKVISION®

## HiWatch Series

### HWI-D120HA 2 MP Fixed Dome Network Camera



- High quality imaging with 2 MP resolution
- Support Human and Vehicle Detection
- Water and dust resistant (IP67) and vandal resistant (IK10)
- Efficient H.265+ compression technology to save bandwidth and storage
- Easy installation with Power over Ethernet (PoE) technology

## ▪ Specification

| Camera                   |                                                                                                                                                                                                                        |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor             | 1/2.9" Progressive Scan CMOS                                                                                                                                                                                           |
| Max. Resolution          | 1920 × 1080                                                                                                                                                                                                            |
| Shutter Time             | 1/3 s to 1/100,000 s                                                                                                                                                                                                   |
| Min. Illumination        | Color: 0.01 Lux @(F2.0, AGC ON), B/W: 0 Lux with IR                                                                                                                                                                    |
| Day & Night              | IR cut filter                                                                                                                                                                                                          |
| Angle Adjustment         | Pan: 0° to 355°, tilt: 0° to 75°                                                                                                                                                                                       |
| Lens                     |                                                                                                                                                                                                                        |
| Lens Type                | Fixed focal lens, 2.8 and 4 mm optional                                                                                                                                                                                |
| Focal Length & FOV       | 2.8 mm, horizontal FOV 104°, vertical FOV 58°, diagonal FOV 123°<br>4 mm, horizontal FOV 81°, vertical FOV 43°, diagonal FOV 96°                                                                                       |
| Lens Mount               | M12                                                                                                                                                                                                                    |
| Iris Type                | Fixed                                                                                                                                                                                                                  |
| Aperture                 | F2.0                                                                                                                                                                                                                   |
| DORI                     |                                                                                                                                                                                                                        |
| DORI                     | 2.8 mm, D: 42 m, O: 16 m, R: 8 m, I: 4 m<br>4 mm, D: 57 m, O: 22 m, R: 11 m, I: 5 m                                                                                                                                    |
| Illuminator              |                                                                                                                                                                                                                        |
| Supplement Light Type    | IR                                                                                                                                                                                                                     |
| Supplement Light Range   | Up to 30 m                                                                                                                                                                                                             |
| Smart Supplement Light   | Yes                                                                                                                                                                                                                    |
| IR Wavelength            | 850 nm                                                                                                                                                                                                                 |
| Video                    |                                                                                                                                                                                                                        |
| Main Stream              | 50 Hz: 25 fps (1920 × 1080, 1280 × 720)<br>60 Hz: 30 fps (1920 × 1080, 1280 × 720)                                                                                                                                     |
| Sub-Stream               | 50 Hz: 25 fps (640 × 480, 640 × 360)<br>60 Hz: 30 fps (640 × 480, 640 × 360)                                                                                                                                           |
| Video Compression        | Main stream: H.265+/H.265/H.264+/H.264<br>Sub-stream: H.265/H.264/MJPEG                                                                                                                                                |
| 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                                                                                                                                                                                                                |
| Region of Interest (ROI) | 1 fixed region for main stream                                                                                                                                                                                         |
| Network                  |                                                                                                                                                                                                                        |
| Security                 | Password protection, complicated password, watermark, basic and digest authentication for HTTP, WSSE and digest authentication for Open Network Video Interface, security audit log, host authentication (MAC address) |
| Simultaneous Live View   | Up to 6 channels                                                                                                                                                                                                       |
| API                      | Open Network Video Interface (Profile S, Profile T), ISAPI, SDK                                                                                                                                                        |
| Protocols                | TCP/IP, ICMP, DHCP, DNS, HTTP, RTP, RTSP, NTP, IGMP, IPv6, UDP, QoS, FTP, SMTP                                                                                                                                         |
| User/Host                | Up to 32 users<br>3 user levels: administrator, operator, and user                                                                                                                                                     |
| Client                   | iVMS-4200, Hik-Connect                                                                                                                                                                                                 |

|                                  |                                                                                                                               |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Web Browser                      | Plug-in required live view: IE 10, IE 11<br>Local service: Chrome 57.0+, Firefox 52.0+                                        |
| <b>Image</b>                     |                                                                                                                               |
| Wide Dynamic Range (WDR)         | Digital WDR                                                                                                                   |
| SNR                              | ≥ 52 dB                                                                                                                       |
| Day/Night Switch                 | Day, Night, Auto, Schedule                                                                                                    |
| Image Enhancement                | BLC, HLC, 3D DNR                                                                                                              |
| Image Settings                   | Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance, adjustable by client software or web browser   |
| Privacy Mask                     | 4 programmable polygon privacy masks                                                                                          |
| <b>Interface</b>                 |                                                                                                                               |
| Ethernet Interface               | 1 RJ45 10 M/100 M self-adaptive Ethernet port                                                                                 |
| <b>Event</b>                     |                                                                                                                               |
| Basic Event                      | Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, exception   |
| Linkage                          | Upload to FTP, notify surveillance center, trigger capture, send email                                                        |
| <b>General</b>                   |                                                                                                                               |
| Power                            | 12 VDC ± 25%, 0.4 A, max. 5 W, Ø5.5 mm coaxial power plug<br>PoE: 802.3af, Class 3, 36 V to 57 V, 0.2 A to 0.15 A, max. 6.5 W |
| Material                         | Metal & Plastic                                                                                                               |
| Dimension                        | Ø110.8 mm × 84.7 mm (4.4" × 3.3")                                                                                             |
| Package Dimension                | 134 mm × 134 mm × 108 mm (5.3" × 5.3" × 4.3")                                                                                 |
| Weight                           | Approx. 520 g (1.1 lb.)                                                                                                       |
| With Package Weight              | Approx. 720 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                         | English, Ukrainian                                                                                                            |
| General Function                 | Heartbeat, anti-banding, mirror, password protection, password reset via email                                                |
| <b>Approval</b>                  |                                                                                                                               |
| EMC                              | CE-EMC: EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3:2013+A1:2019, EN 50130-4: 2011+A1: 2014                               |
| Safety                           | CE-LVD: EN 62368-1:2014/A11:2017                                                                                              |
| Environment                      | CE-RoHS: 2011/65/EU<br>WEEE: 2012/19/EU<br>Reach: Regulation (EC) No 1907/2006                                                |
| Protection                       | IP67: IEC 60529-2013, IK10: IEC 62262:2002                                                                                    |

## ▪ 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.

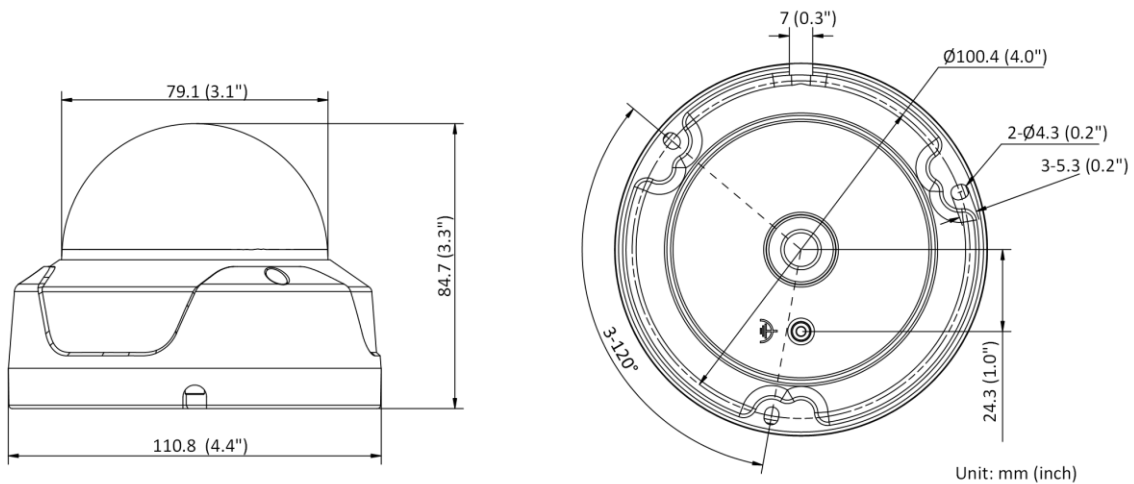
| Level                | Description                                                                                                                                                                                      |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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**

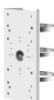




HWI-D120HA (2.8/4 mm)

▪ **Dimension**



▪ **Accessory**

▪ **Optional**

| DS-1276ZJ-SUS<br>Corner Mount                                                      | DS-1275ZJ-SUS<br>Vertical Pole Mount                                               | DS-1272ZJ-110B<br>Wall Mount                                                       | DS-1259ZJ<br>Inclined Ceiling Mount                                                | DS-1250ZJ<br>Rain Shade                                                             |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|   |   |   |  |  |
| DS-1271ZJ-110<br>Pendant Mount                                                     | DS-1280ZJ-DM18<br>Junction Box                                                     | DS-1272ZJ-110<br>Wall Mount                                                        |                                                                                    |                                                                                     |
|  |  |  |                                                                                    |                                                                                     |

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