

DS-2XV6A86G0-LIZH(R)SY(316L) 8 MP Gantry Crane Varifocal Anti-Corrosion Network Camera

DarkFighter ✦



- High quality imaging with 8 MP resolution
- Supports low latency, camera decoding with a delay as low as 150 ms
- Expansive night view with up to 50 m white light distance and 80 m IR distance
- Excellent low-light performance via DarkFighter technology
- Clear imaging against strong back light due to 120 dB true WDR technology
- Easy installation with Power over Ethernet (PoE) technology and 9 to 36 VDC power input
- Supports Hikvision Embedded Open Platform (HEOP) with 8 TOPS computing power and importing third party applications
- A built-in wiper(-R) removes water and dust on the screen and ensures clear images when the camera is used in dusty or damp environments
- 316L stainless steel enclosure, protecting cameras to be used in corrosive environments, providing reliability and longevity compared to standard cameras
- Water and dust resistant (IP68)

▪ Specification

| Camera | |
|-----------------------------|---|
| Image Sensor | 1/1.8" Progressive Scan CMOS |
| Max. Resolution | 3840 × 2160 |
| Min. Illumination | Color: 0.002 Lux @ (F1.2, AGC ON), 0 Lux with light, B/W: 0.0002 Lux @ (F1.2, AGC ON), B/W: 0 Lux with IR |
| Shutter Time | 1 s to 1/100,000 s |
| Day & Night | IR cut filter |
| Angle Adjustment | Pan: -15° to 15°, tilt: -120° to 45° |
| Lens | |
| Focus | Auto, Semi-auto, Manual |
| Focal Length & FOV | 2.8 to 12 mm, horizontal FOV 104° to 41.2°, vertical FOV 54.2° to 23.1°, diagonal FOV 126.5° to 47.3° 8 to 32 mm, horizontal FOV 41.8° to 15°, vertical FOV 22.9° to 8.5°, diagonal FOV 48.7° to 17.1° |
| Iris Type | Auto-iris |
| Aperture | 2.8 to 12 mm: Max. F1.47, 8 to 32 mm: Max. F1.7 |
| Illuminator | |
| Supplement Light Type | IR, White Light |
| Supplement Light Range | 2.8 to 12 mm: IR: up to 50 m, White Light: up to 30 m 8 to 32 mm: IR: up to 80 m, White Light: up to 50 m |
| HEOP | |
| Open Resources | System memory: 150 MB Smart RAM: 1800 MB Flash: 3200 MB |
| Computing Power | 8 TOPS |
| Deep Learning Structure | Caffe, PyTorch, TensorFlow |
| Programming Language | C, C++ |
| Video | |
| Main Stream | 50 Hz: 50 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280 × 720) 60 Hz: 60 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280 × 720) |
| Sub-Stream | 50 Hz: 25 fps (704 × 576, 640 × 480) 60 Hz: 30 fps (704 × 576, 640 × 480) |
| Video Compression | Main stream: H.265/H.264/H.265+/H.264+ Sub-stream: H.265/H.264/MJPEG Third stream: H.265/H.264 |
| Video Bit Rate | 32 Kbps to 32 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 |
| Target Cropping | Yes |
| Audio | |
| Environment Noise Filtering | Yes |
| Audio Sampling Rate | 8 kHz/16 kHz/32 kHz/48 kHz |

| | |
|--------------------------|--|
| Audio Compression | G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/AAC-LC/MP3 |
| Audio Bit Rate | 64 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3) |
| Audio Type | Mono sound |
| Network | |
| Security | Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for Open Network Video Interface, RTP/RTSP over HTTPS, control timeout settings, security audit log, TLS 1.2, TLS 1.3, host authentication (MAC address) |
| Simultaneous Live View | Up to 20 channels |
| API | ONVIF, ISAPI, SDK, ISUP |
| Protocols | TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, WebSocket, WebSockets |
| User/Host | Up to 32 users 3 user levels: administrator, operator, and user |
| Network Storage | NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR), 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, Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+, Safari 11+, Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+ |
| Image | |
| Image Settings | Rotate mode, saturation, brightness, contrast, sharpness, white balance, AGC, adjustable by client software or web browser |
| Wide Dynamic Range (WDR) | 120 dB |
| Image Stabilization | EIS |
| Picture Overlay | LOGO picture can be overlaid on video with 128 × 128 24 bit bmp format. |
| Day/Night Switch | Day, Night, Auto, Schedule, Alarm Trigger |
| Image Enhancement | BLC, HLC, 3D DNR, Defog |
| Image Parameters Switch | Yes |
| SNR | ≥ 52 dB |
| Privacy Mask | 8 programmable polygon privacy masks |
| Interface | |
| Video Output | 1 Vp-p Composite Output (75 Ω/CVBS) (Only for debugging) |
| Ethernet Interface | 1 1000 M self-adaptive Ethernet port, 8-core M12 aviation plug |
| On-Board Storage | Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 512 GB |
| Audio | 1 input (line in), max. input amplitude: 3.3 Vpp, input impedance: 1 KΩ, interface type: non-equilibrium 1 output (line out), max. output amplitude: 3.3 Vpp, output impedance: 100 Ω, interface type: non-equilibrium |
| Alarm | 1 input, 1 output (max. 12 VDC, 30 mA) |
| RS-485 | 1 RS-485 (Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive) |

| Event | |
|----------------------------------|---|
| Basic Event | Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error) |
| Smart Event | Scene change detection, audio exception detection, defocus detection, unattended baggage detection, object removal detection |
| Linkage | Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, trigger capture |
| Deep Learning Function | |
| Perimeter Protection | Line crossing, intrusion, region entrance, region exiting Support alarm triggering by specified target types (human and vehicle) |
| Dynamic Area Protection | <ol style="list-style-type: none"> 1. Supports person detection while the camera is in motion 2. Max. detectable targets: 64 3. For 2 MP/4 MP/8 MP resolutions, when target size ranges between 32 × 32/32 × 32/32 × 32 and 64 × 64/128 × 128/256 × 256, select High Mode 4. For 2 MP/4 MP/8 MP resolutions, when target size ≥64 × 64/128 × 128/256 × 256, select Low Mode |
| General | |
| Power | 9 to 36 VDC, 2.65 A to 0.65 A, max. 24 W, two-core terminal block, reverse polarity protection, PoE: IEEE 802.3at, 42.5 V to 57 V, 0.56 A to 0.42 A, Class 4 |
| Material | 316L and anti-corrosion coating |
| Dimension | 199.7 mm × 201.9 mm × 209.2 mm (7.9" × 8" × 8.2") |
| Package Dimension | 340 mm × 298 mm × 290 mm (13.4" × 11.7" × 11.4") |
| Weight | Approx. 3000 g (6.61 lb.) |
| With Package Weight | Approx. 4000 g (8.82 lb.) |
| Storage Conditions | -40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing) |
| Startup and Operating Conditions | -40 °C to 60 °C (-40 °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 |
| Wiper | -R: Yes |
| General Function | Anti-banding, heartbeat, mirror, flash log, password reset via email, pixel counter |
| Approval | |
| EMC | CE-EMC: EN 55032:2015+A1:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A1:2019+A2:2021 |
| Safety | CB: IEC 62368-1:2014 |
| Protection | IP68: IEC 60529:1989+AMD1:1999+AMD2:2013 |
| Anti-Corrosion Protection | NEMA 4X (NEMA 250-2018) |
| Transport Certification | IATA Dangerous Goods Regulations, Dangerous Goods List, International Maritime Dangerous Goods Code, Railway Dangerous Goods List |

▪ 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 TOP-LEVEL 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

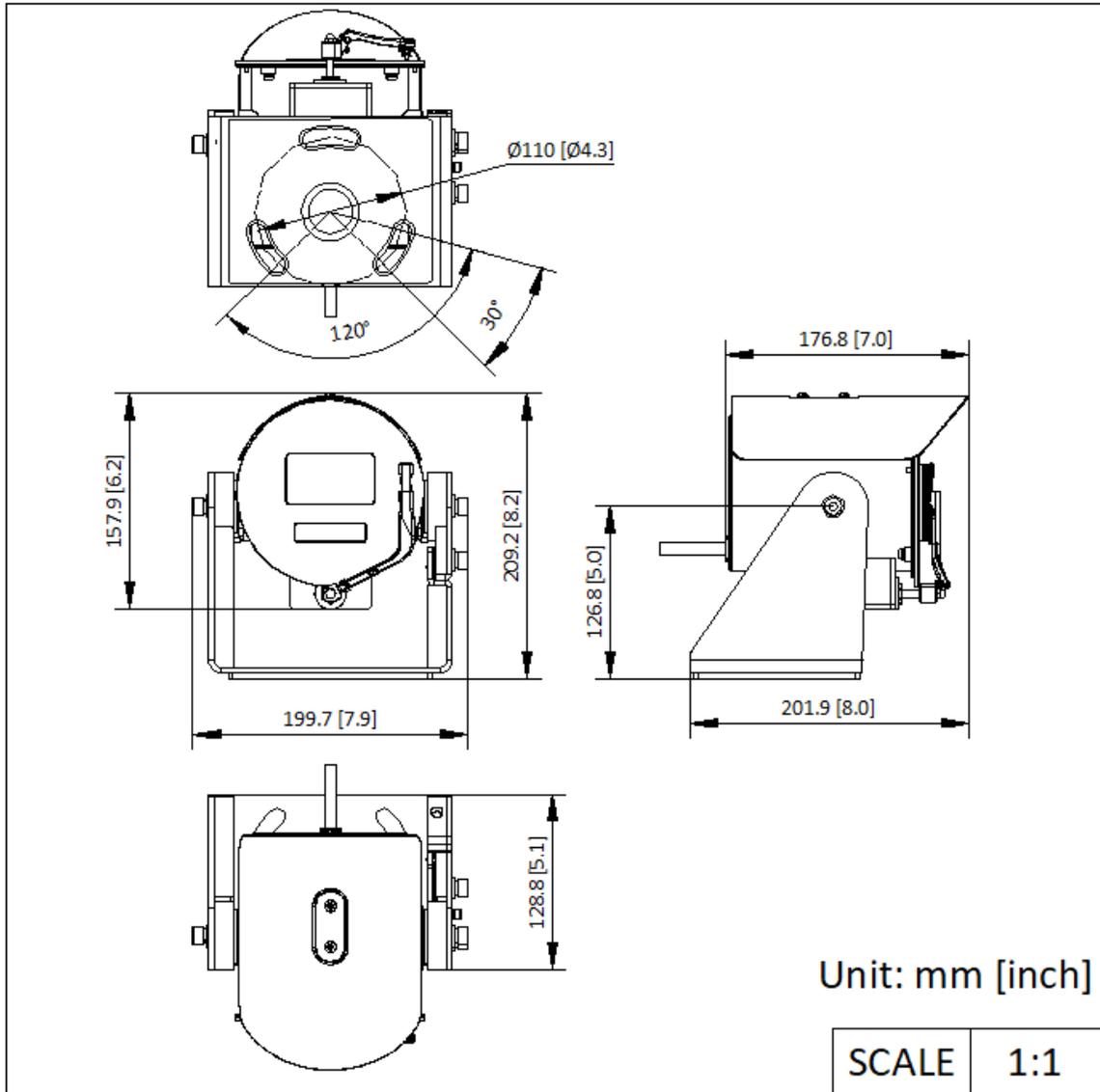
DS-2XV6A86G0-LIZHRSY(316L)(2.8-12)O-STD

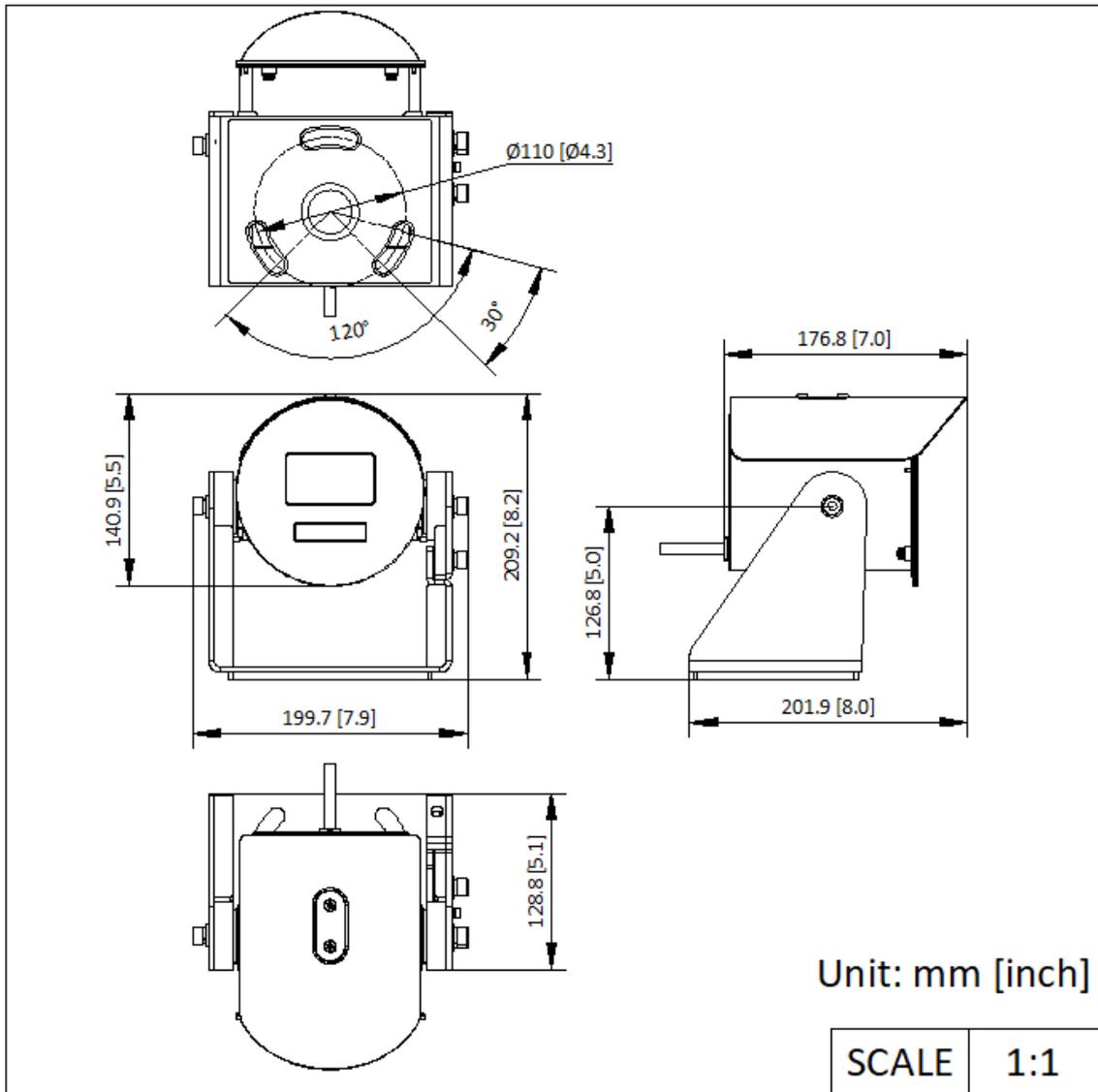
DS-2XV6A86G0-LIZHRSY(316L)(8-32mm)O-STD

DS-2XV6A86G0-LIZHSY(316L)(2.8-12mm)O-STD

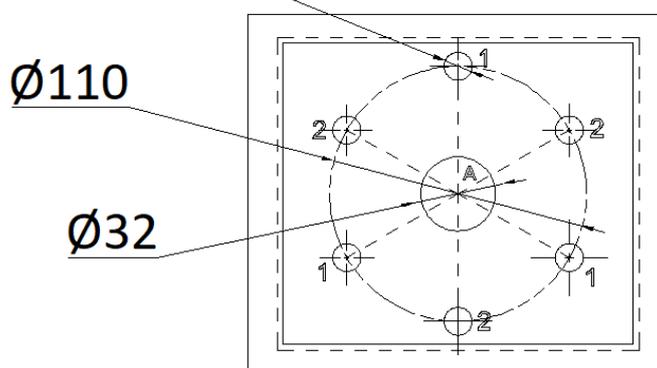
DS-2XV6A86G0-LIZHSY(316L)(8-32mm)

▪ Dimension





6- $\varnothing 12$ EQS



Hole position description:

Hole A: Threading hole, opening as required.

Hole 1 and hole 2: two groups of equipment installation holes. It is recommended to open all the holes and select the hole position for installation as required.

See Far, Go Further



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