



# SN-IPS8681WDR-Z40

7-inch 8MP 40x Ultra Starlight IR Network PTZ Camera



## Key Features

- 1/1.8" STARVIS™ CMOS
- Max. 25/30 fps@3840 × 2160
- 40x optical zoom and 16x digital zoom
- Supports detection and capture of faces, humans, and vehicles, along with smoke and flame detection.
- Supports intelligent analysis for intrusion, single / double line crossing, loitering, wrong-way detection, illegal parking, smart motion detection, and people counting
- Auto tracking and perimeter protection based on deep learning
- True WDR, 3D DNR, ICR, Defog and EIS
- Smart IR distance up to 500 m
- IP66

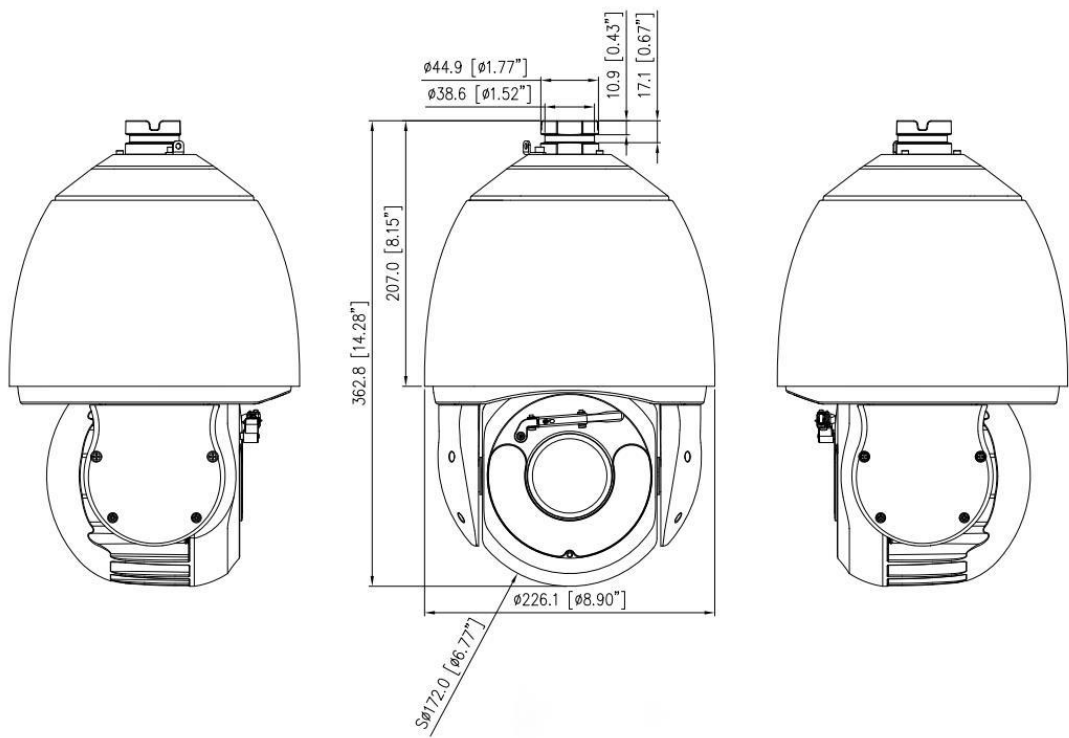
## Specification

| Camera                     |   |
|----------------------------|---|
| Image Sensor               | 1/1.8" Progressive Scan CMOS  |
| Max. Resolution            | 3840(H) × 2160 (V)  |
| Electronic Shutter         | Auto/Manual, 1/5 to 1/20,000s   |
| Min. illumination          | Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0.001 Lux @ (F1.6, AGC ON), 0 Lux with IR on  |
| Day & Night                | Auto (ICR)  |
| Wide Dynamic Range         | True WDR  |
| Wiper                      | Support   |
| Lens                       |   |
| Focal Length               | 6.8 to 272 mm   |
| Max. Aperture              | F1.63 to F4.94  |
| Angle of View              | H: 62.0° to 2.4°, V: 36.6° to 1.3°  |
| Optical Zoom               | 40x   |
| Digital Zoom               | 16x   |
| Iris Control               | Auto/Manual   |
| Focus Control              | Auto/Manual/Semi-automatic  |
| DORI                       |   |
| Detection                  | 140 to 5,600 m (459.32 to 18,372.7 ft)  |
| Observe                    | 56 to 2,240 m (183.73 to 7,349.08 ft)   |
| Recognize                  | 28 to 1,120 m (91.86 to 3,674.54 ft)  |
| Identify                   | 14 to 560 m (45.93 to 1,837.27 ft)  |
| Illuminator                |   |
| Illuminator Type           | IR  |
| Illumination Distance      | IR distance up to 500 m (1,640.4 ft)  |
| Illuminator On/Off Control | Auto/Manual   |
| Intelligent Analytics      |   |
| Multi-Object Detection     | Support face, human, vehicle detection and capture  |
| Smoke and Flame Detection  | Support   |
| Intelligent Analysis       | Intrusion, Single line crossing, Double line crossing, Loitering, Wrong-way detection, Illegal parking, Smart motion detection<br>(support the accurate detection of vehicle and human) |

|                          |   |
|--------------------------|---|
| People Counting          | Support   |
| Smart Tracking           | Support   |
| <b>PTZ</b>               |   |
| Pan/Tilt Range           | Pan: 0° to 360° endless, Tilt: -10° to +90° (auto-flip)   |
| Pan Speed                | Pan speed: 0.1° to 300°/s, preset speed: 300°/s   |
| Tilt Speed               | Tilt speed: 0.1° to 300°/s, preset speed: 300°/s  |
| Presets                  | 400   |
| Patrol Scan              | 6 Track, 12 Scan, 12 Patrol (up to 32 presets each patrol)  |
| Power-Off Memory         | Support   |
| 3D Positioning           | Support   |
| PTZ Status Display       | Support   |
| Idle Motion              | The time can be set (1-240 minutes), and functions such as preset positions, patrols, scans, and tracks can be run.                             |
| <b>Video and Audio</b>   |   |
| Streaming Capability     | 3 Streams   |
| Stream/Frame Rate        | Stream1: 3840×2160, 2592×1520, 2304×1296, 1920×1080, 1280×720 @25/30fps<br>Stream2: D1, VGA, CIF @25/30fps<br>Stream3: VGA, CIF, QVGA @25/30fps |
| Bit Rate Control         | CBR/VBR   |
| Bit Rate                 | Stream1: 200 kbps to 16 Mbps<br>Stream2: 100 kbps to 6 Mbps<br>Stream3: 100 kbps to 3 Mbps  |
| Smart Encoder            | Support   |
| Region of Interest (ROI) | Support   |
| Audio Compression        | G.711 A-law, G.711 μ-law, RAW_PCM   |
| Audio Bit Rate           | 64 kbps (G.711), 128 kbps (RAW_PCM)   |
| <b>Image</b>             |   |
| Image Adjustment         | Brightness, Sharpness, Contrast, Saturation adjustable  |
| Mirror                   | Support   |
| Exposure Mode            | Auto/Manual   |
| White Balance            | Auto/Manual   |
| Day/Night Setting        | Auto, Day, Night, Time  |
| Noise Reduction          | 2D/3D DNR   |
| Image Enhancement        | HLC, BLC, Defog, WDR, Anti-shake  |
| Privacy Masking          | Support 40 zones, mask color configurable   |

| Event                 |   |
|-----------------------|---|
| Alarm Triggers        | IVS, Motion detection, Alarm input, Network alarm, Disk alarm, Abnormal sound detection   |
| Alarm Events          | Alarm record, Alarm output, FTP upload, SMTP upload, Audible alarm output   |
| Network               |   |
| 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   |
| Interoperability      | ONVIF (Profile S/T/G/M), SDK, CGI   |
| User/Host Level       | Up to 10 users, 3 levels: Administrator, Operator, Media user   |
| Security              | IP address filter, encrypted HTTPS, Illegal login lock, IEEE 802.1x   |
| Web Viewer            | <IE11, Chrome, Firefox, Microsoft Edge  |
| Interface             |   |
| Network Interface     | 1 Ethernet (10/100 Base-T) RJ-45 Connector  |
| Audio Interface       | 1ch Input, 1ch Output   |
| Alarm Interface       | 7ch Input, 2ch Output   |
| RS-485                | Support   |
| BNC Interface         | 1 BNC (CVBS output)   |
| SD Card Slot          | Built-in, up to 1 TB  |
| General               |   |
| Language              | English, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian. Default: English   |
| Power Supply          | 24VAC/36VDC/PoE++ (802.3bt), Standard Equipped: 36VDC   |
| Power Consumption     | Less than 48 W  |
| Operating Temperature | -40°C to 60°C (-40°F to 140 °F)   |
| Operating Humidity    | Less than 90% RH  |
| Ingress Protection    | IP66  |
| Certifications        | CE-EMC (EN 55032:2015+A1:2020, EN IEC 61000-6-3:2021, EN IEC 61000-3-2:2019+A12021, EN 61000-3-3:2013+A2:2021, EN 55035:2017+A11:2020, EN 50130-4:2011+A1:2014)<br>CE-LVD (EN 62368-1:2014+A11:2017)<br>FCC (FCC 47 CFR 15, Subpart B, ANSI C63.4-2014) |
| Material              | Metal   |
| Dimensions            | φ226.1 × 362.8 mm (φ8.9 × 14.28 inch)   |
| Net Weight            | 5.5 kg (12.13 lb)   |

Dimensions (mm)



Accessories

Optional:



SN-CBK506B  
Wall Bracket



SN-BK348A  
Ceiling Bracket



SN-BK605  
Corner Mount



SN-BK604B  
Pole Mount



SN-BK367  
Junction Box



SN-BK355  
Wall Bracket



SN-BK358  
Corner Mount



SN-BK359  
Pole Mount