# SUNELL

# SN-IPS8641WDL-Z40

## 7-inch 4MP 40x Starlight Laser PTZ Network Camera

### Key Features

- 1/1.8" 4MP STARVIS™ CMOS

- 40x optical zoom and 16x digital zoom

- Support face, human and vehicle detection and capture

- Support smoke & fire detection as well as smart motion detection

- Auto tracking and perimeter protection based on deep learning

- Intelligent analysis: intrusion, single line crossing, double line crossing, loitering, wrong-way, illegal parking and people counting

- True WDR, 3D DNR, ICR, HLC, BLC, Defog and EIS

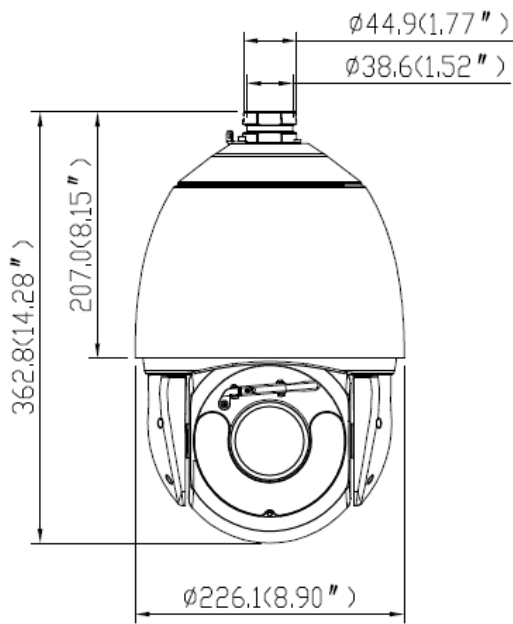- Laser illumination distance up to 600m

- IP66

# Specification

## Camera

| | |
|---|---|
| Image Sensor | 1/1.8" Progressive Scan CMOS |
| Max. Resolution | 2592(H) × 1520(V) |
| Min. illumination | Color: 0.001 Lux @ (F1.5, AGC ON), B/W: 0.0001 Lux @ (F1.5, AGC ON), 0 Lux with IR |
| Electronic Shutter | Auto/Manual, 1/5 to 1/20,000s |
| Day & Night | Auto (ICR) |
| Wiper | Support |

## Lens

| | |
|---|---|
| Focal Length | 6.8 to 251 mm, 40x optical zoom |
| Aperture | F1.5 to F4.8 |
| Angle of View | H: 60.7° to 2.33°, V: 36.8° to 1.38° |
| Zoom Speed | Approx. 2.5s |
| Iris Control | Auto/Manual |
| Focus Control | Auto/Manual/Semi-automatic |
| Digital Zoom | 16x |

## DORI Distance

| Lens | Detect | Observe | Recognize | Identify |
|---|---|---|---|---|
| 6.8 mm | 100 m (328.1 ft) | 40 m (131.2 ft) | 20 m (65.6 ft) | 10 m (32.8 ft) |
| 251 mm | 4,000 m (13,123.4 ft) | 1,600 m (5,249.3 ft) | 800 m (2,624.6 ft) | 400 m (1,312.3 ft) |

## Illuminator

| | |
|---|---|
| Illuminator Type | IR + Laser |
| Illumination Distance | Up to 600m (1,968.5ft) |
| Illuminator On/Off Control | Auto/Manual |

## PTZ

| | |
|---|---|
| Pan/Tilt Range | Pan: 0° to 360° endless, Tilt: -10° to +90° |
| 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. |
| **Video** | |
| Streaming Capability | 3 Streams |
| Stream/Frame Rate | Stream1: 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: 200kbps to 16Mbps<br>Stream2: 100kbps to 6Mbps<br>Stream3: 100kbps to 3Mbps |
| Smart Encoder | Support |
| Region of Interest (ROI) | Support |
| **Audio** | |
| Audio Compression | G.711, RAW_PCM |
| Audio Bit Rate | 64Kbps (G.711), 128Kbps (RAW_PCM) |
| **Image** | |
| Image Adjustment | Brightness, Sharpness, Contrast, Saturation |
| 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, EIS |
| Wide Dynamic Range | True WDR |
| S/N Ratio | 50dB |
| Privacy Masking | Support 40 zones, mask color configurable |
| **Smart Function** | |
| Basic Event | Motion detection alarm, I/O alarm, Disk alarm, Network alarm |
| Multi-Object Detection | Support face, human, vehicle detection and capture |

| | |
|---|---|
| Intelligent Analysis | Intrusion, Single line crossing, Double line crossing, Loitering, Wrong-way, Illegal parking, Smart motion detection<br>(support the accurate detection of vehicle and human) |
| Smoke & Fire Detection | Support |
| People Counting | Support |
| Smart Tracking | Support |
| **Network** | |
| Protocols | IPv4, IPv6, TCP/IP, HTTP, HTTPS, RTSP/RTP/RTCP, IGMP/Multicast, SMTP, DHCP, NTP, DNS, DDNS, QoS, SNMP, 802.1X, UDP, ICMP, ARP, TLS |
| Interoperability | ONVIF, SDK, CGI |
| Streaming Method | Multicast |
| Max. User Access | 10 Users |
| Web Viewer | <IE11, Chrome, Firefox, Microsoft Edge |
| Language | English, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian. Default: English |
| **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 |
| CVBS Interface | Support |
| SD Card Slot | Built-in, up to 1TB |
| **Electrical** | |
| Power Supply | 24VAC/36VDC/PoE++ (IEEE 802.3bt), Standard Equipped: 36VDC |
| Power Consumption | Less than 45 W |
| Operating Temperature | -40°C to 60°C (-40°F to 140 °F) |
| Operating Humidity | Less than 90% RH |
| Ingress Protection | IP66, TVS4000V |
| Certifications | CE/FCC |
| Casing | Metal |
| Dimensions | φ226 × 362.8mm (φ8.9 × 14.28 inch) |
| Net Weight | 5.5 Kg (12.13 lb) |

# Dimensions (mm)



Ø44.9(1.77")
Ø38.6(1.52")
207.0(8.15")
362.8(14.28")
Ø226.1(8.90")

# Accessories

**Optional：**

| | | | |
|---|---|---|---|
| SN-CBK506B<br>Wall Bracket | SN-BK348A<br>Ceiling Bracket | SN-BK605<br>Corner Mount | SN-BK604B<br>Pole Mount |
| SN-BK367<br>Junction Box | SN-BK355<br>Wall Bracket | SN-BK358<br>Corner Mount | SN-BK359<br>Pole Mount |