# VIVOTEK

## S series

# SD9364-EHL-v2
## Speed Dome Network Camera

### 1080p 60 fps • 30x Zoom • 150M IR • IP66 • IK10 • NEMA 4X • -50°C ~ 55°C

The SD9364-EHL-v2 is the latest professional speed dome camera from VIVOTEK, specifically designed to enhance low light surveillance in large coverage areas. Equipped with 150M IR illuminators and a 30x optical zoom lens, the SD9364-EHL-v2 provides a superb low light image in the most challenging situations. The SD9364-EHL-v2 also adopts VIVOTEK's Smart IR II technology, which provides smooth vari-angle adjustment of the IR illuminators, allowing broad coverage FOV and highly uniform IR intensity while avoiding hot-spots traditionally associated with IR illumination.

The SD9364-EHL-v2 is the PTZ surveillance camera with IR Illumination to utilize H.265 compression technology. When combined with VIVOTEK's Smart Stream II technology users can obtain bandwidth savings of up to 80%* compared to traditional H.264. By combining 1080p full HD resolution with H.265, IR illuminators, Smart IR II, WDR, and 30x optical zoom, the SD9364-EHL-v2 is able to capture fine details at top-notch quality, 24 hours a day, 7 days a week.

VIVOTEK further strengthened the camera performance with an IP66- and NEMA 4X-rated housing to protect the camera against rain, dust, and corrosion. The SD9364-EHL-v2 has a wide operating temperature range from -50°C to 55°C, ensuring continuous operation under the most extreme weather conditions and hazardous environments. This makes the SD9364-EHL-v2 ideally suited to monitor wide open spaces such as ports, highways, cities, and parking lots where high-level precision is required.

* Depending on scene.

## Key Features

- Real-time H.265, H.264 and MJPEG Compression (Triple Codec)
- 60 fps @ 1080p Full HD
- 30x Zoom Lens
- 150M IR with Smart IR II (Vari-Angle IR)
- WDR Pro for Unparalleled Visibility in High Contrast Environments
- Weather-proof IP66, Vandal-proof IK10 and NEMA 4X-rated Housing
- -50°C ~ 55°C Wide Temperature Range for Extreme Weather Conditions (AC 24V/ PoH)
- Smart Stream II to Optimize Bandwidth Efficiency
- EIS (Electronic Image Stabilization) to Control Image Stability
- Power Redundant Supported

Without Smart IR II

With Smart IR II

# Technical Specifications

| | |
|---|---|
| Model | SD9364-EHL-v2 |

## System Information

| | |
|---|---|
| CPU | Multimedia SoC (System-on-Chip) |
| Flash | 128MB |
| RAM | 512MB |

## Camera Features

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|---|---|
| Image Sensor | 1/3" Progressive CMOS |
| Max. Resolution | 1920x1080 |
| Lens Type | 30x Optical Zoom, Auto Focus |
| Focal Length | f = 4.3 ~ 129 mm (30x zoom) |
| Aperture | F1.6 ~ F4.7 |
| Iris type | DC-iris |
| Field of View | 2° ~ 59° (Horizontal)<br>2° ~ 45° (Vertical)<br>3° ~ 71° (Diagonal) |
| Shutter Time | 1/8 sec. to 1/30,000 sec. |
| WDR Technology | WDR Pro |
| Minimum Illumination | 0.42 Lux @ F1.6 (Color)<br>0.01 Lux @ F1.6 (B/W)<br>0 Lux with IR illumination on |
| Day/Night | Removable IR-cut filter for day & night function |
| Pan Speed | 0.1° ~ 300° / sec. |
| Pan Range | 360° endless |
| Tilt Speed | 0.1° ~ 300° / sec. |
| Tilt Range | 220° (-110° ~ +110°) |
| Preset Locations | 256 preset locations<br>128 presets per tour |
| Pan/Tilt/Zoom Functionalities | 128x digital zoom (4x on IE plug-in, 32x built-in), Auto pan mode, Auto patrol mode |
| IR Illuminators | Built-in IR Illuminators up to 150 meters with Smart IR II, IR LED*2 |
| On-board Storage | Slot type: MicroSD/SDHC/SDXC card slot<br>Seamless Recording |

## Video

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|---|---|
| Compression | H265, H264, MJPEG |
| Maximum Frame Rate | H.265 & H.264: 60 fps @ 1920x1080<br>MJPEG: 30 fps @ 1920x1080 |
| Maximum Streams | 4 simultaneous streams |
| S/N Ratio | 54 dB |

| | |
|---|---|
| Dynamic Range | 110 dB |
| Video Streaming | Adjustable resolution, quality and bitrate; Smart Stream II |
| Image Settings | Adjustable image size, quality and bit rate; Time stamp, text overlay, flip & mirror; Configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks (Up to 24); Scheduled profile settings, defog, 3DNR, EIS, HLC |

## Audio

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|---|---|
| Audio Capability | Two-way Audio |
| Compression | G.711, G.726 |
| Interface | External microphone input<br>External line output |

## Network

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|---|---|
| Users | Live viewing for up to 10 clients |
| Protocols | IPv4, IPv6, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE, CoS, QoS, SNMP, 802.1X, UDP, ICMP, ARP, SSL, TLS, NTCIP |
| Interface | 10 Base-T/100 Base-TX Ethernet (RJ-45)<br>*It is highly recommended to use standard CAT5e & CAT6 cables which are compliant with the 3P/ETL standard. |
| ONVIF | Supported, specification available at www.onvif.org |

## Intelligent Video

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|---|---|
| Video Motion Detection | Five-window video motion detection |
| Auto-Tracking | Auto-tracking on moving object |

## Alarm and Event

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|---|---|
| Alarm Triggers | Motion detection, manual trigger, digital input, periodical trigger, system boot, recording notification, audio detection, SD card life expectancy, camera tampering detection |
| Alarm Events | Event notification using digital output, HTTP, SMTP, FTP, NAS server and MicroSD card<br>File upload via HTTP, SMTP, FTP, NAS server and MicroSD card |

## General

| | |
|---|---|
| Connectors | RJ-45 cable connector for Network 10/100 Mbps PoE connection*1<br>Audio input*1<br>Audio output*1<br>AC/DC 24V power input*1<br>Digital input*4<br>Digital output*2<br>RS-485 for PTZ control (PelcoD protocol, Baud rate 2400)*1 |
| LED Indicator | System power and status indicator |
| Power Input | PoH/PoE (95W)<br>AC/DC 24V |

# Technical Specifications

| | |
|---|---|
| Power Consumption | PoH/PoE (95W):<br>Max. 70 W (Heater on)<br>Max. 51 W (Heater off)<br>AC/DC 24V:<br>Max. 63 W (Heater on)<br>Max. 45 W (Heater off) |
| Dimensions | 237 x 364 mm |
| Weight | 7.1 kg (with bracket)<br>5.7 kg (without bracket) |
| Casing | IP66, IK10, NEMA 4X |
| Safety Certifications | CE, FCC Class A, VCCI, C-Tick, NEMA 4X, UL |
| Operating Temperature | Starting Temperature:<br>-40°C ~ 55°C (-40°F ~ 131°F)<br>Working Temperature:<br>-40°C ~ 55°C (-40°F ~ 131°F),<br>DC 24V power input<br>-50°C ~ 55°C (-58°F ~ 131°F),<br>AC 24V/ PoH(95W) power input |
| Humidity | 98% |
| Warranty | 36 months |

### System Requirements

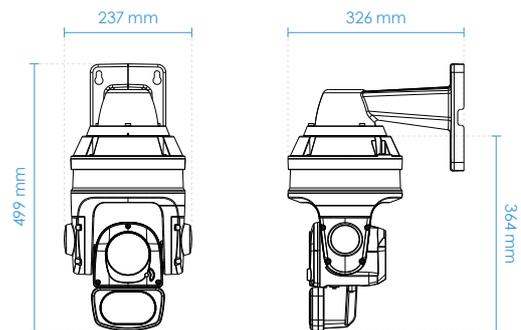| | |
|---|---|
| Operating System | Microsoft Windows 8/7<br>Mac 10.12 (Chrome only) |
| Web Browser | Chrome 58.0 or above<br>Internet Explorer 10/11 |
| Other Players | VLC: 1.1.11 or above<br>Quicktime: 7 or above |

### Included Accessories

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|---|---|
| Others | Wall mount bracket, I/O cable, screws, waterproof connectors, terminal blocks, quick installation guide, warranty card, alignment sticker, ground wire, T25 stardriver, desiccant bags |

### Dimensions



237 mm  326 mm  499 mm  364 mm

# Compatible Accessories

| Mounting Kits | | Others | | |
|---|---|---|---|---|
| AM-220<br>Wall Mount Bracket | AM-529<br>Mounting Adapter | AJ-001<br>USB Joystick | AJ-002<br>USB Joystick | AO-007<br>I/O Combo Cable |

### Cabinet

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|---|---|---|---|---|
| AT-CAS-001<br>Cabinet for Speed Dome | AT-CAB-002<br>Cabinet for HLG Power Supply | AT-SUN-002<br>Sunshield | AT-SWH-000<br>Power Safety Kit | → |

### PoE Kit/Power Adapter

| 24VAC | | | 24VDC |
|---|---|---|---|
| AA-341<br>AC 24V 3.5A Power Adapter | AA-351<br>Outdoor Power Box, 24VAC/144W, IP67, IK10 | AA-352<br>Outdoor Power Box, 24VAC/144W, IP67, IK10 | HLG-120H-24<br>Industrial 24VDC/120W Power Supply, IP67 |

# Compatible Accessories

## 95W PoH/PoE

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|---|---|---|---|---|---|
| **AW-IHH-0100**<br>Industrial 1xGE 95W PoH/PoE Injector | **+** | **HLG-120H-54**<br>Industrial 54VDC/120W Power Supply, IP67 | **AW-IHH-0200**<br>Industrial 1xGE 95W PoH/PoE + 1x SFP GE Switch | **+** | **HLG-120H-54**<br>Industrial 54VDC/120W Power Supply, IP67 |
| **AP-GIC-011A-095**<br>1xGE 95W PoH/PoE Injector with Surge Protection 12KV | | **AP-GIC-015B-095**<br>Outdoor 1xGE 95W PoH/PoE Injector with Surge Protection 12KV, IP67, IK10 | | | |