# VIVOTEK



## S series
# SD9364-EHL
## Speed Dome Network Camera

**1080p HD · 30x Zoom · 150M IR · NEMA 4X · IP66 · Defog · -40°C ~ 55°C · EIS · 95W PoH/PoE**

VIVOTEK's SD9364-EHL is a brand-new professional speed dome camera with 150 M IR, specifically designed for wide open areas even in total darkness. The SD9364-EHL is equipped with high-performance H.265/H.264/MJPEG compression technology and extra-smooth video quality with up to 150 M IR illumination, providing superb low-light imagery with an adjustable Zoom Lens, and clearly enhanced resolution for any moving object at night-time. In addition, the SD9364-EHL also adopts VIVOTEK latest IR technology, VAIR (Vari-Angle IR), which provides up to 150 meter IR illumination with smooth vari-angle adjustment, broad coverage of FOV and highly uniform IR intensity while avoiding hot-spot issues.

Offering 1080p Full HD resolution and adopting a 30x optical zoom lens and purpose-designed VAIR (Vari-Angle IR), the SD9364-EHL is able to capture fine details at top-notch quality, no matter what time of day or night. Further strengthening this cameras performance in the field, IP66- and NEMA 4X-rated housing protects the camera body against rain, dust and corrosion and allows for a wide operating temperature range of between -40°C and 55°C. This robust housing ensures operation even under extreme weather conditions and hazardous environments and makes the SD9364-EHL ideally placed to monitor wide open indoor/outdoor spaces such as airports, highways and parking lots where high-level reliability and precision are always required.
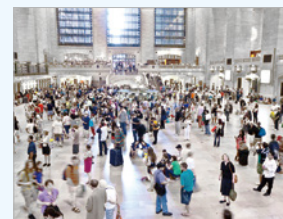
As with all VIVOTEK true day/night cameras, the SD9364-EHL features a removable IR-cut filter, maintaining clear images 24 hours a day. And with added audio detection, by recognizing increases or decreases in ambient noise, an additional layer of intrusion detection is ensured. Finally, other advanced features such as SD/SDHC/SDXC card slot, 95W PoH/PoE support and 60 fps high quality video, guarantee that the SD9364-EHL is the very best choice for the most demanding outdoor surveillance applications.

## Key Features

- Real-time H.265, H.264 and MJPEG Compression (Triple Codec)
- 1080p HD CMOS Sensor
- 60 fps @ 1080p Full HD
- 30x Zoom Lens, 150 M IR
- VAIR (Vari-Angle IR)
- Removable IR-cut Filter for Day & Night Function
- 360° Continuous Pan and 220° Tilt
- WDR Pro for Unparalleled Visibility in High Contrast Environments
- Weather-proof IP66-rated and NEMA4X Housing
- -40°C ~ 55°C Wide Temperature Range for Extreme Weather Conditions
- Audio Detection for Instant Alerts
- Auto Tracking for Moving Objects
- Smart Stream II to Optimize Bandwidth Efficiency
- 3D Privacy Masks for Additional Protection
- Built-in SD/SDHC/SDXC Card Slot for On-board Storage
- Defog
- EIS



Campus



Station



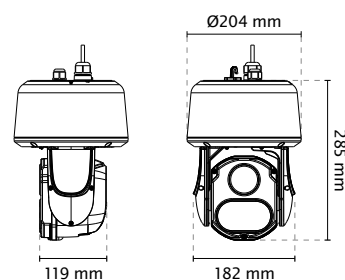Without VAIR



With VAIR



Airport



Port

## Technical Specifications

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

### System Information

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

### Camera Features

| | |
|---|---|
| Image Sensor | 1/3" Progressive CMOS |
| Maximum Resolution | 1920x1080 (2MP) |
| Lens Type | 30x Optical Zoom, Auto Focus |
| Focal Length | f = 4.3~129 mm (30x zoom) |
| Aperture | F1.6 ~ F4.7 |
| Auto-iris | DC-iris |
| Field of View | 2.3˚ ~ 64˚ (Horizontal)<br>1.3˚ ~ 36˚ (Vertical)<br>2.6˚ ~ 73˚ (Diagonal) |
| Shutter Time | 1/1 sec. to 1/32,000 sec. |
| WDR Technology | WDR Pro |
| Day/Night | Removable IR-cut filter for day & night function |
| Minimum Illumination | 0.42Lux @ F1.6 (Color)<br>0.001Lux @ F1.6 (B/W) |
| Pan Speed | 0.05˚ ~ 450˚ / sec |
| Pan Range | 360 endless |
| Tilt Speed | 0.05˚ ~ 450˚ / sec |
| Tilt Range | 220˚ (-110˚ ~ +110˚) |
| Preset Locations | 256 preset locations<br>128 presets per tour |
| Pan/Tilt/Zoom Functionalities | 48x digital zoom (4x on IE plug-in, 12x built-in)<br>Auto pan mode<br>Auto patrol mode |
| IR Illuminators | 150 m |
| On-board Storage | Slot type: SD/SDHC/SDXC card slot<br>Seamless Recording |

### Video

| | |
|---|---|
| Compression | H265, H264, MJPEG |
| Maximum Frame Rate | 60 fps @ 1920x1080<br>In all compression mode |
| Maximum Streams | 4 simultaneous streams |
| S/N Ratio | 53.64 dB |
| Dynamic Range | 110 dB |
| Video Streaming | Adjustable resolution, quality and bitrate<br>Smart Stream II |
| Image Settings | Adjustable image size, quality and bit rate<br>Time stamp, text overlay, flip & mirror<br>Configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks (Up to 24)<br>Scheduled profile settings, defog, 3DNR, EIS |

### Audio

| | |
|---|---|
| Audio Capability | Audio input/output (full duplex) |
| Compression | G.711, G.726 |
| Interface | External microphone input<br>External line output |

### Network

| | |
|---|---|
| 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/1000 Base-T 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

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

### Alarm and Event

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|---|---|
| Alarm Triggers | Manual trigger, periodical trigger, system boot, recording notification, camera tampering detection, audio detection, motion detection |
| Alarm Events | Event notification using digital output, HTTP, SMTP, FTP and NAS server<br>File upload via HTTP, SMTP, FTP and NAS server |

### General

| | |
|---|---|
| Connectors | RJ-45 cable connector for Network/10/100/1000Mbps PoE connection<br>Audio input<br>Audio output<br>DC 48V power input<br>Digital input*4<br>Digital output*2<br>RS-485 for PTZ control (PelcoD protocol, Baud rate 2400) |
| LED Indicator | System power and status indicator |
| Power Input | 95W PoH/PoE<br>DC 48V |
| Power Consumption | Max. 87 W (Heater on)<br>Max. 39 W (Heater off) |
| Dimensions | Ø: 204 mm x 317.6 mm |
| Weight | Net: 6030 g |
| Casing | Weather-proof IP66- and NEMA 4X-rated housing |
| Safety Certifications | CE, FCC Class A, VCCI, C-tick, NEMA 4X, UL |
| Operating Temperature | -40˚C ~ 55˚C (-40˚F ~ 131˚F) |
| Humidity | 90% |
| Warranty | 36 months |

### System Requirements

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|---|---|
| Operating System | Microsoft Windows 8/7/Vista/XP/2000 |
| Web Browser | Mozilla Firefox 7~43 (streaming only)<br>Internet Explorer 7/8/9/10/11 |
| Other Players | VLC: 1.1.11 or above<br>Quicktime: 7 or above |

### Included Accessories

| | |
|---|---|
| CD | User's manual, quick installation guide, Installation Wizard 2, VAST 32-CH software |
| Others | Wall mount bracket, screws, waterproof connectors, terminal blocks, quick installation guide, warranty card, alignment sticker, ground wire, T25 stardriver, software CD, desiccant bags, AM-220 wall mount bracket, AO-003 I/O cable |

### Dimensions



Ø204 mm

285 mm

119 mm    182 mm

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## Compatible Accessories

| Mounting Kits | Cabinet | | | | Others |
|---|---|---|---|---|---|
| **AM-529**<br>Mounting Adapter | **AT-CAS-001**<br>Cabinet for Speed dome, IP66, IK10, NEMA 4X | **AT-CAB-002**<br>Cabinet for HLG Power Supply | **AT-SUN-002**<br>Sunshield | **AT-SWH-001**<br>Power Safety Kit | **Joystick**<br>USB Joystick |

### PoE Kit/Power Adapter

#### Application Temperature

**-40°C to 70°C (-40°F to 158°F)**

**PoE Solution**

**AW-IHS-0200/0201**
Industrial Media Converter

**+**

**HLG-120H-48**
Industrial 48VDC/120W Power Supply, IP67

**AW-IHH-0100**
Industrial 1xGE 95W PoH/ PoE Injector

**+**

**HLG-120H-54**
Industrial 54VDC/120W Power Supply, IP67

**AW-IHH-0200**
Industrial 1xGE 95W PoH/ PoE + 1x SFP GE Switch

**+**

**HLG-120H-54**
Industrial 54VDC/120W Power Supply, IP67

**DC 48V Power Adapter**

**HLG-120H-48**
Industrial 48VDC/120W Power Supply, IP67

**-20°C to 30°C (-4°F to 86°F)**

**PoE Solution**

**AP-GIC-010A-095**
95W PoH/PoE

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**VIVOTEK INC.**