



SD9394-EHL

Speed Dome Network Camera

8MP 30fps • 32x Optical Zoom • 250M Smart IR • IP66 • NEMA 4X

Technical Specifications

System Information

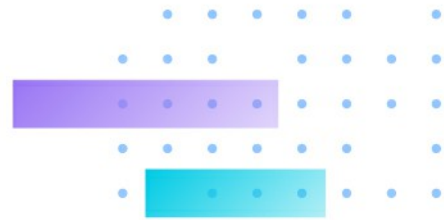
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|-------|---------------------------------|
| Model | SD9394-EHL |
| CPU | Multimedia SoC (System-on-Chip) |
| Flash | 8 GB |
| RAM | 2 GB |

Camera Features

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| Image Sensor | 1/1.8" Progressive CMOS |
| Max. Resolution | 3840x2160 (8MP) |
| Lens Type | 32x Optical Zoom, Auto Focus |
| Focal Length | f = 6.5 ~ 212 mm |
| Aperture | F1.4 ~ F4.9 |
| Iris Type | P-iris |
| Field of View | 63.5° ~ 2.0°(Horizontal) 37.4° ~ 1.1° (Vertical) 70.7° ~ 2.3° (Diagonal) |
| Shutter Time | 1 sec. to 1/100,000 sec. |
| WDR Technology | WDR Pro |
| Day/Night | Yes |
| Removable IR-cut Filter | Yes |
| IR Illuminators | Built-in IR Illuminators up to 250 meters with Smart IR, IR LED*8 |
| Minimum Illumination | 0.02 Lux @ F1.4 (Color) <0.005 Lux @ F1.4 (B/W) 0 lux with IR illumination on |
| Pan Speed | Preset speed: 450°/s |
| Pan Range | 360° endless |
| Tilt Speed | Preset speed: 450°/s |



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| Tilt Range | -20° to 90° (auto flip) |
| Preset Locations | 256 preset locations 128 presets per tour |
| Pan/Tilt/Zoom Functionalities | 32x digital zoom (4x on IE plug-in, 8x built in) Auto Pan mode Auto Patrol mode Mechanical Auto flip |
| Storage | Seamless Recording to MicroSD/SDHC/SDXC card and recording to network-attached storage (NAS) |
| Built-in Installation Aids | Remote focus, remote zoom |
| Video | |
| Video Compression | H.265, H.264, MJPEG |
| Maximum Frame Rate | 30 fps @ 3840x2160 |
| Maximum Streams | 3 video streams (Up to 8 configurable profiles) |
| S/N Ratio | 67 dB |
| Dynamic Range | 120 dB |
| Video Streaming | Adjustable resolution, quality and constant bit rate control, Smart Stream III |
| Image Settings | General settings: video title and time stamp overlay, video orientation (flip, mirror), day/night settings; Illuminators: illuminators, anti-overexposure; Image settings: white balance, image adjustment (brightness, contrast, saturation, sharpness, gamma curve), defog, HLM, 3DNR, EIS, scene mode (auto, deblur); Exposure: BLC, HLC, exposure control (exposure level, iris adjustment, exposure time, gain control, iris mode), AE speed adjustment, WDR; Focus; Privacy mask; Scheduled profile settings; Pixel calculator |
| Audio | |
| Audio Capability | Two-way audio (Full duplex) |
| Audio Compression | G.711, G.726, MPEG-2 AAC-LC |
| Audio Interface | External line input External line output |
| Network | |
| Users | Live viewing for up to 10 clients |
| Security | Access list, Account block, Audit log, Configurable password strength protection, CSRF protection, Digest authentication, HTTPS, IEEE 802.1x, Secure boot, Session timeout, Signed firmware, Trend Micro IoT Security (brute force attack event, cyberattack event, quarantine event), User access log, User account management |
| Protocols | 802.1X, ARP, Bonjour, CIFS/SMB, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IGMPv3, IPv4, IPv6, NTCIP, NTP, PPPoE, QoS (CoS/DSCP), RTSP/RTP/RTCP, SMTP, SNMP, SSL, TCP/IP, TLS 1.2, UDP, UPnP |
| Interface | 10 Base-T/100 Base-TX Ethernet (RJ-45) *It is highly recommended to use standard CAT5e & CAT6 cables which are compliant with the 3P/ETL standard. |
| ONVIF | Profile G, S, T supported, specification available at www.onvif.org |
| AI Analytics | |
| Compute Capability | SoC with built-in hardware deep learning accelerator |
| Vision Object Analytics | Object Detection: People, Vehicle (4-wheeled, 2-wheeled); Attribute Extraction: People (gender, clothing color, bag, hat), Vehicle (bike, bus, car, motorcycle, truck, color); Re-Search Extraction; Path Extraction |
| Application | Deep Learning VCA (Smart Tracking Advanced) Smart Tracking Advanced (Intrusion detection, Loitering detection, Line crossing detection, Face detection, Unattended object detection, Missing object detection) |
| Application available with license | Parking Violation Detection, Restricted Zone Detection Support for more analytic applications and free trial, please visit vivotek.com/video-analytics |
| Solution Integration | |
| Video Motion Detection | Motion Detection (Five-window video motion detection) |
| VADP Package | Trend Micro IOT Security (3-year free trial) |
| Alarm and Event | |
| Event Trigger | Audio detection, camera tampering detection, cybersecurity events (brute force attack event, cyberattack event, quarantine event), digital input, manual trigger, motion detection, periodical trigger, recording notification, SD card life expectancy, smart tracking advanced trigger, system boot, preset reached |



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|--------------|---|
| Event Action | Event notification via audio clip, camera link, digital output, email, HTTP, FTP/SFTP, NAS server, SD card, push notification File upload via email, HTTP, FTP/SFTP, NAS server, SD card |
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General

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| Connectors | RJ-45 cable connector for 10/100 Mbps PoE network connection Audio line input Audio line output DC 48V power input AC 24V power input Digital input*2 Digital output*1 RS-485*1 |
| LED Indicator | System power and status indicator |
| Power Input | AC 24V, DC48V, IEEE 802.3 bt Class 6 PoE (Simultaneous Power Redundancy Supported) |
| Power Consumption | PoE Max: 51W/26W (IR on/off) DC 48V Max: 51W/26W (IR on/off) AC 24V Max: 51W/26W (IR on/off) |
| Dimensions | 256 x 336 mm |
| Weight | 7.3 kg |
| Certifications | EMC: CE (EN 55032 Class A, EN55035, EN50121-4), UKCA (BS EN 55032: 2015 +A11: 2020 , BS EN 55035: 2017), FCC (FCC Part 15 Subpart B Class A), IC (ICES-003:2020 Issue7, Class A), RCM (AS/NZS CISPR 32 Class A), VCCI (VCCI-CISPR 32 Class A); Safety: UKCA (BS EN 62368-1:2014+A11:2017), UL (UL 62368-1), CB (IEC/EN 62368-1, IEC/EN 60950-22, IEC/EN 62471); Environment: IK10 (IEC 62262), IP66 (IEC 60529), NEMA (NEMA 250 Type 4X); IA: BIS (IS 13252), BSMI |
| Operating Temperature | Starting Temperature: -40°C ~ 55°C (-40°F ~ 131°F) Working Temperature: -40°C ~ 55°C (-40°F ~ 131°F) (IR off) -40°C ~ 50°C (-40°F ~ 122°F) (IR on) |
| Humidity | 98% RH (non-condensing) |

System Requirements

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

Included Accessories

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| Packing Contents | Wall mount bracket, Screw pack, Screws and anchors, T10 and T25 L-wrench, Waterproof round cap, Quick installation guide, Terminal blocks (for DI/DO audio, AC/DC/GND wires, RS485), Ground wire |
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DORI (EN 62676-4 Standard)

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|---------------------------|---|
| Detect (25PPM/ 8PPF) | Wide: 130.2 m (427.2 ft) Tele: 4774.6 m (15664.7 ft) |
| Observe (63PPM/ 19PPF) | Wide: 51.8 m (170.1 ft) Tele: 1527.9 m (5012.7 ft) |
| Recognize (125PPM/ 38PPF) | Wide: 25.9m (85 ft) Tele: 848.8 m (2784.8 ft) |
| Identify (250PPM/ 76PPF) | Wide: 12.9 m (42.4 ft) Tele: 424.4 m (1392.4 ft) |

