







SD9161-H-v2

Speed Dome Network Camera

2MP 60fps • 10x Zoom • Vision Object Analytics • Smart Tracking Advanced • WDR Pro • Smart Stream III • EIS

Technical Specifications

System Information

| Model | SD9161-H-v2 |
|-------------------------|---|
| CPU | Multimedia SoC (System-on-Chip) |
| Flash | 8 GB |
| RAM | 2 GB |
| Camera Features | |
| Image Sensor | 1/2.8" Progressive CMOS |
| Max. Resolution | 1920x1080 (2MP) |
| Lens Type | 10x Optical Zoom, Auto Focus |
| Focal Length | f = 5.1 ~ 51 mm |
| Aperture | F1.6 ~ F1.8 |
| Iris Type | DC-iris |
| Field of View | 55.2° ~ 7.1° (Horizontal) 31.8° ~ 4.1° (Vertical) 62.4° ~ 8.1° (Diagonal) |
| Shutter Time | 1/8 sec. to 1/30,000 sec. |
| WDR Technology | WDR Pro |
| Day/Night | Yes |
| Removable IR-cut Filter | Yes |
| Minimum Illumination | 0.14 lux @ F1.6 (Color) 0.005 lux @ F1.6 (B/W) |
| Pan Speed | 0.05° ~ 360°/s |
| Pan Range | 360° endless |
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| Tilt Speed | 0.05° ~ 360°/s |
| Tilt Speed Tilt Range | 0.05° ~ 360°/s 180° |



| 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 |
| Storage | Seamless Recording to MicroSD/SDHC/SDXC card and recording to network-attached storage (NAS) |
| Video | |
| Video Compression | H.265, H.264, MJPEG |
| Maximum Frame Rate | 60 fps @ 1920x1080 |
| Maximum Streams | 3 video streams (Up to 8 configurable profiles) |
| S/N Ratio | 73 dB |
| Dynamic Range | 100 dB |
| Video Streaming | Adjustable resolution, quality and constant bitrate control, Smart Stream III |
| Image Settings | General settings: video title and time stamp overlay, video orientation (flip, mirror), day/night settings; Illuminators: external illuminators; Image settings: white balance, image adjustment (brightness, contrast, saturation, sharpness), defog, 3DNR, EIS; Exposure: HLC exposure control (exposure level, iris adjustment, exposure time, gain control), 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 microphone input External line output |
| Network | |
| Users | Live viewing for up to 10 clients |
| Security | Access list, digest authentication, HTTPS, IEEE 802.1x, Password protection, secure boot, 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, IGMP-IPv4, IPv6, NTCIP, NTP, PPPoE, QoS (CoS/DSCP), RTSP/RTP/RTCP, SMTP, SNMP, SSITCP/IP, TLS 1.2, UDP, UPnP |
| Interface | 10 Base-T/100 BaseTX 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 |
| Al 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 Motion Detection (Five-window video motion detection, People detection, Vehicle detection, Time filter), Smart Tracking Advanced, Smart VCA (Intrusion detection, Loitering detection, Line crossing detection, Face detection, Unattended object detection, Missing object detection) |
| Solution Integration | |
| VADP Package | Stratocast, 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, VADP |
| Event Action | Event notification via audio clip, camera link, digital output, email, HTTP, FTP, NAS server, SD card File upload via email, HTTP, FTP, NAS server, SD card; trigger track, trigger patrol, move preset |
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| Connectors | RJ-45 cable connector for 10/100Mbps Network/PoE connection Audio line input Audio line output AC/DC 24V power input Digital input *2 Digital output *1 |
|----------------------------|---|
| LED Indicator | System power and status indicator |
| Power Input | AC 24V, DC 24V, IEEE 802.3at PoE Class 4 (Simultaneous Power Redundancy Supported) |
| Power Consumption | PoE Max: 17W AC/DC 24V Max: 17W |
| Dimensions | Ø 172 x 157 mm |
| Weight | 1 kg |
| Certifications | EMC: CE (EN 55032 Class A, EN55035), UKCA (BS EN 55032 Class A, BS EN 55035), FCC (FCC Part 15 Subpart B Class A), IC (ICES-003 Issue7:2020 Class A), RCM (AS/NZS CISPR 32 Class A), VCCI (VCCI-CISPR 32 Class A); Safety: UKCA (BS EN 62368-1:2020+A11:2020), UL (UL 62368-1), CB (IEC/EN 62368-1); IA: BIS (IS 13252), BSMI |
| Operating Temperature | -10°C ~ 55°C (14°F ~ 131°F) Working Temperature: -10°C ~ 55°C (14°F ~ 131°F) |
| Humidity | 90% RH (non-condensing) |
| Warranty | 36 months |
| System Requirements | |
| 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 | |
| Packing Contents | Indoor pendant mount, quick installation guide, alignment sticker, L-wrench, power cable |
| DORI (EN 62676-4 Standard) | |
| Detect (25PPW 8PPF) | Wide: 76.9 m (252.2 ft) Tele: 587.7 m (1928.1 ft) |
| Observe (63PPM/ 19PPF) | Wide: 30.5 m (100 ft) Tele: 233.2 m (765.1 ft) |
| Recognize (125PPW 38PPF) | Wide: 15.8 m (51.8 ft) Tele: 117.5 m (385.5 ft) |
| Identify (250PPM/ 76PPF) | Wide: 7.9 m (25.9 ft) Tele: 58.0 m (190.3 ft) |
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