



## V Series

# SD9161-H

2MP PTZ Network Camera



## Technical Specifications

### System Information

|       |                                 |
|-------|---------------------------------|
| CPU   | Multimedia SoC (System-on-Chip) |
| Flash | 128 MB                          |
| RAM   | 256 MB                          |

### Camera Specifications

|                         |   |
|-------------------------|---|
| Image Sensor            | 1/3" Progressive CMOS   |
| Max. Resolution         | 1920x1080 (2MP)   |
| Lens Type               | 10x Optical Zoom, Auto Focus  |
| Focal Length            | 5.1~51mm (10x zoom)   |
| Aperture                | F1.6~1.8  |
| Iris Type               | DC-Iris   |
| Field of View           | 54° ~ 4.9° (Horizontal)<br>31° ~ 4° (Vertical)<br>68° ~ 6.7° (Diagonal) |
| Shutter Time            | 1/8 sec. to 1/30,000 sec.   |
| WDR Technology          | WDR Pro   |
| Removable IR-cut filter | Yes   |
| Minimum Illumination    | 0.2 lux @ F1.6 (Color)<br>0.01 lux @ F1.6 (B/W)                         |
| Pan Speed               | 0.05° ~ 360° /sec   |
| Pan Range               | 360° endless  |
| Tilt Speed              | 0.05° ~ 360° /sec   |
| Tilt Range              | 180°  |
| Preset Location         | 256 preset locations<br>128 presets per tour                            |

|                               |   |
|-------------------------------|---|
| Pan/Tilt/Zoom Functionalities | 32x digital zoom (4x on IE plug-in, 8x built-in)<br>Auto Pan mode<br>Auto Patrol mode                                 |
| Storage                       | Seamless Recording to MicroSD/SDHC/SDXC card (1TB capacity supported) and recording to network-attached storage (NAS) |
| Built-in Installation Aids    | Remote focus, remote zoom   |

| Video              |   |
|--------------------|---|
| Compression        | H265, H264, MJPEG   |
| Maximum Frame Rate | 30 fps @ 1920x1080  |
| Maximum Streams    | 4 video streams (Up to 9 configurable profiles)   |
| S/N Ratio          | 50 dB   |
| Dynamic Range      | 100 dB  |
| Video Streaming    | Adjustable resolution, quality and constrained bit rate control, Smart Stream II  |
| Image Settings     | Time stamp, text overlay, flip & mirror; configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks (Up to 24 for speed dome); scheduled profile settings, defog, 3DNR, EIS |

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

| Network   |   |
|-----------|---|
| Users     | Live viewing for up to 10 clients   |
| Security  | Access list, CSRF protection, Digest authentication, HTTPS, IEEE 802.1x, 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/SFTP, 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)<br>*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 <a href="http://www.onvif.org">www.onvif.org</a>  |

| 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, system boot |
| Event Action    | Event notification via audio clip, digital output, email, HTTP, FTP, NAS server, SD card, push notification<br>File upload via email, HTTP, FTP, NAS server, SD card   |

| General               |   |
|-----------------------|---|
| Connectors            | RJ-45 cable connector for 10/100Mbps Network/PoE connection<br>Audio line input*<br>Audio line output*<br>AC/DC 24V power input<br>Digital input*4*<br>Digital output*2*<br><br>* Requires AO-003 cable |
| LED Indicator         | System power and status indicator   |
| Power Input           | AC 24V, DC 24V, IEEE 802.3at PoE Class 4<br>(Simultaneous Power Redundancy Supported)   |
| Power Consumption     | PoE<br>Max: 15W<br>AC/DC 24V<br>Max: 15W  |
| Dimensions            | ø 172 x 157 mm  |
| Weight                | 1 kg  |
| Certifications        | EMC: CE, LVD, FCC Class A, VCCI<br>Safety: UL   |
| Operating Temperature | Starting Temperature:<br>-10°C ~ 55°C (14°F ~ 131°F)<br>Working Temperature:<br>-10°C ~ 55°C (14°F ~ 131°F)   |
| Humidity              | 90% RH (non-condensing)   |

| System Requirements |   |
|---------------------|---|
| Operating System    | Microsoft Windows 10/8/7<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                                |

| Included Accessories |  |
|----------------------|--|
| Packing Contents     | Indoor pendant mount, quick installation guide, alignment sticker, L-wrench, power cable |