

# CC9160-H

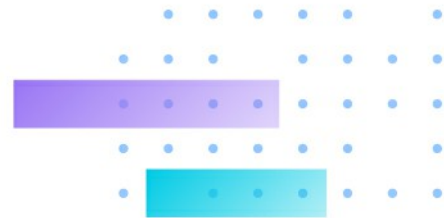
180° Panoramic Network Camera

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2MP • WDR Pro • SNV • 180° Panoramic View • 3DNR • DI/DO

- 2-Megapixel CMOS Sensor
- 180° Horizontal Panoramic View
- Compact, Low-Profile Design
- 30 fps @ 1920x1080
- Smart Stream III to Optimize Bandwidth Efficiency
- WDR Pro 120 dB
- Digital Input, Digital Output, Built-in Microphone
- Trend Micro IoT Security





# Technical Specifications

## System Information

|       |                                 |
|-------|---------------------------------|
| Model | CC9160-H                        |
| CPU   | Multimedia SoC (System-on-Chip) |
| Flash | 256 MB                          |
| RAM   | 512 MB                          |

## Camera Features

|                               |                                                                                              |
|-------------------------------|----------------------------------------------------------------------------------------------|
| Image Sensor                  | 1/2.8" Progressive CMOS                                                                      |
| Max. Resolution               | 1920x1080                                                                                    |
| Lens Type                     | Fixed-focal                                                                                  |
| Focal Length                  | f = 1.66 mm                                                                                  |
| Aperture                      | F1.95                                                                                        |
| Iris Type                     | Fixed Iris                                                                                   |
| Field of View                 | 180° (Horizontal)<br>100° (Vertical)<br>180° (Diagonal)                                      |
| Shutter Time                  | 1/5 sec. to 1/32,000 sec.                                                                    |
| WDR Technology                | WDR Pro                                                                                      |
| Minimum Illumination          | 0.03 lux @ F1.95 (Color)                                                                     |
| Tilt Range                    | 15° with tilt bracket                                                                        |
| Pan/Tilt/Zoom Functionalities | ePTZ: 48x digital zoom (4x on IE plug-in, 12x built-in)                                      |
| Storage                       | Seamless Recording to MicroSD/SDHC/SDXC card and recording to network-attached storage (NAS) |

## Video

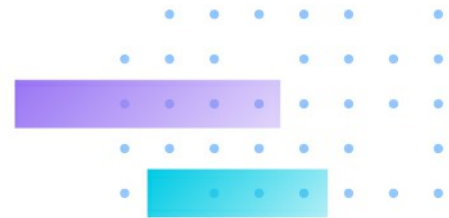
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|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Video Compression  | H.265, H.264, MJPEG                                                                                                                                                                                                                                                                                                                                                                                          |
| Maximum Frame Rate | H.265: 30 fps @ 1920x1080 (WDR Pro on/off)<br>H.264: 30 fps @ 1920x1080 (WDR Pro on/off)<br>MJPEG: 30 fps @ 1920x1080 (WDR Pro on/off)                                                                                                                                                                                                                                                                       |
| Maximum Streams    | 3 video streams (Up to 8 configurable profiles)                                                                                                                                                                                                                                                                                                                                                              |
| S/N Ratio          | 66.2 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), Image settings: white balance, image adjustment (brightness, contrast, saturation, sharpness, gamma curve), defog, 3DNR, HLM, DIS, scene mode (auto, deblur); Exposure: BLC, HLC, exposure control (exposure level, exposure time, gain control), AE speed adjustment, WDR; Privacy mask; Scheduled profile settings |

## Audio

|                   |                     |
|-------------------|---------------------|
| Audio Capability  | One-way Audio       |
| Audio Compression | G.711, G.726        |
| Audio Interface   | Built-in microphone |
| Effective Range   | 5 meters            |

## Network

|           |                                                                                                                                                                                                                 |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Users     | Live viewing for up to 10 clients                                                                                                                                                                               |
| Security  | Access list, digest authentication, HTTPS, IEEE 802.1x, password protection, 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, 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

|                        |                                                                     |
|------------------------|---------------------------------------------------------------------|
| Video Motion Detection | Five-window video motion detection                                  |
| VADP Package           | Trend Micro IoT Security (1-year free trial), VIVOCLOUD, Stratocast |

## Alarm and Event

|               |                                                                                                                                                                                                                                                                      |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Event Trigger | Audio detection, camera tampering detection, cybersecurity events (brute force attack event, cyberattack event, quarantine event), manual trigger, motion detection, periodical trigger, recording notification, SD card life expectancy, system boot, digital input |
| Event Action  | Event notification via email, HTTP, FTP, NAS server, SD card, push notification, digital output<br>File upload via email, HTTP, FTP, NAS server, SD card                                                                                                             |

## General

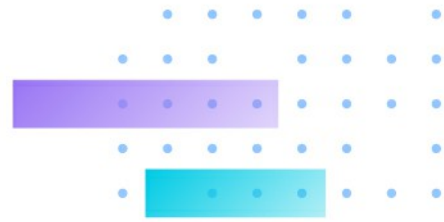
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|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Connectors            | RJ-45 cable connector for 10/100Mbps Network/PoE connection<br>Digital input<br>Digital output                                                                                                                                                                                                                                                                      |
| LED Indicator         | System power and status indicator                                                                                                                                                                                                                                                                                                                                   |
| Power Input           | IEEE 802.3af PoE Class 2                                                                                                                                                                                                                                                                                                                                            |
| Power Consumption     | Max. 5 W                                                                                                                                                                                                                                                                                                                                                            |
| Dimensions            | 120 (H) x 52 (W) x 39 (D) mm (Body only)<br>147 (H) x 61 (W) x 41 (D) mm (w/ Bracket)                                                                                                                                                                                                                                                                               |
| Weight                | 81 g (camera body)<br>127 g (w/ bracket)                                                                                                                                                                                                                                                                                                                            |
| Certifications        | EMC: CE (EN 55032 Class B, EN 55035), FCC (FCC Part 15 Subpart B Class B), UKCA (BS EN 55032: 2015 +A11: 2020), RCM (AS/NZS CISPR 32 Class B), VCCI (VCCI-CISPR 32 Class B); Safety: UL (UL 62368-1), CB (IEC/EN 62368-1, IEC/EN 60950-22, IEC/EN 62471), UKCA (BS EN IEC 62368-1: 2020 +A11: 2020); IA: BIS (IS 13252), BSMI (EMC: CNS 13438, Safety: CNS 14336-1) |
| Operating Temperature | Starting Temperature: 0°C ~ 45°C (32°F~ 113°F)<br>Working Temperature: -10°C ~ 45°C (14°F~ 113°F)                                                                                                                                                                                                                                                                   |
| Humidity              | 90% RH (non-condensing)                                                                                                                                                                                                                                                                                                                                             |

## System Requirements

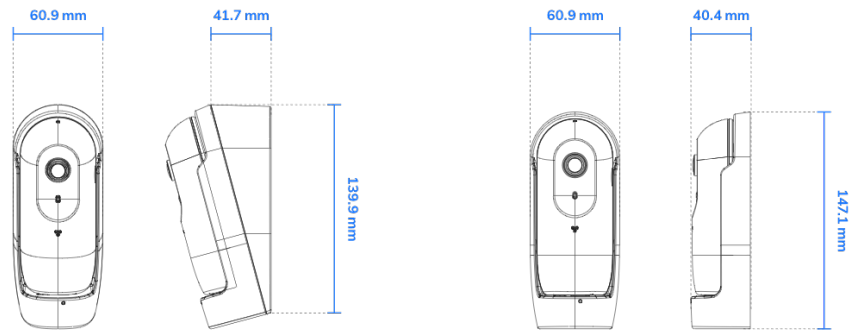
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|------------------|-----------------------------------------------------|
| Operating System | Microsoft Windows 10/8/7<br>Mac 10.12 (Chrome only) |
| Web Browser      | Chrome 58.0 or above<br>Internet Explorer 10/11     |
| Other Players    | VLC: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

## Included Accessories

|                  |                                                                      |
|------------------|----------------------------------------------------------------------|
| Packing Contents | Quick installation guide, mounting bracket, tilt bracket, screw pack |
|------------------|----------------------------------------------------------------------|



## Dimensions



**VIVOTEK**