



# CC9381-HV

180° Panoramic Network Camera

## 5MP • WDR Pro • SNV • 180° Panoramic View • 15M IR • IK10 • IP66 • 3DNR • Anti-Ligature

- H.265 Compression Technology
- 5-Megapixel CMOS Sensor
- 20 fps @ 2560x1920 (WDR On), 30 fps @ 2560x1920 (WDR Off)
- 180° Horizontal Panoramic View
- 180° IR Illuminators up to 15 Meters
- WDR Pro (120 dB) to Provide Extreme Visibility in High Light Contrast Scenes
- SNV (Supreme Night Visibility) for Low Light Conditions
- Smart Stream III to Optimize Bandwidth Efficiency
- Trend Micro IoT Security
- Weather-proof IP66-rated and Vandal-proof IK10-rated Housing
- ±25° Tilt Lens
- Built-in Microphone
- Anti-Ligature Design







### **Technical Specifications**

#### **System Information**

- Cystem morniation	
Model	CC9381-HV
CPU	Multimedia SoC (System-on-Chip)
Flash	256 MB
RAM	512 MB
Camera Features	
Image Sensor	1/2.7" Progressive CMOS
Max. Resolution	2560x1920 (5MP)
Lens Type	Fixed-focal
Focal Length	f = 1.45 mm
Aperture	F2.2
Auto-iris	Fixed iris
Field of View	180° (Horizontal) 120° (Vertical) 180° (Diagonal)
Shutter Time	1/5 sec. to 1/32,000 sec.
WDR Technology	WDR Pro
Day/Night	Yes
Removable IR-cut Filter	Yes
IR Illuminators	Built-in IR illuminators, effective up to 15 meters with Smart IR, IR LED*4
Minimum Illumination	0.11 lux @ F2.2 (Color) 0.01 lux @ F2.2 (B/W) 0 lux with IR Illuminators on
Tilt Range	±25°
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	
Video Compression	H.265, H.264, MJPEG
	H.265, H.264, MJPEG H.265: 20 fps/30 fps @ 2560x1920 (WDR Pro on/off) H.264: 20 fps/25 fps @ 2560x1920 (WDR Pro on/off) MJPEG: 20 fps/20 fps @ 2560x1920 (WDR Pro on/off)
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Video Compression  Maximum Frame Rate  Maximum Streams  S/N Ratio  Dy namic Range  Video Streaming  Image Settings  Audio  Audio Capability	H.265: 20 fps/30 fps @ 2560x1920 (WDR Pro on/off) H.264: 20 fps/25 fps @ 2560x1920 (WDR Pro on/off) MJPEG: 20 fps/20 fps @ 2560x1920 (WDR Pro on/off)  3 video streams (Up to 8 configurable profiles)  62 dB  120 dB  Adjustable resolution, quality and bit rate control, Smart Stream III  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, 3DNR, HLM, DIS, scene mode (auto, deblur); Exposure: BLC, HLC, exposure control (exposure level, iris adjustment, exposure time, gain control, iris mode), AE speed adjustment, WDR; Privacy mask; Scheduled profile settings  One-way Audio
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Video Compression  Maximum Frame Rate  Maximum Streams  S/N Ratio  Dy namic Range  Video Streaming  Image Settings  Audio  Audio Capability  Audio Compression  Audio Interface	H.265: 20 fps/30 fps @ 2560x1920 (WDR Pro on/off) H.264: 20 fps/25 fps @ 2560x1920 (WDR Pro on/off) MJPEG: 20 fps/20 fps @ 2560x1920 (WDR Pro on/off)  3 video streams (Up to 8 configurable profiles)  62 dB  120 dB  Adjustable resolution, quality and bit rate control, Smart Stream III  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, 3DNR, HLM, DIS, scene mode (auto, deblur); Exposure: BLC, HLC, exposure control (exposure level, iris adjustment, exposure time, gain control, iris mode), AE speed adjustment, WDR; Privacy mask; Scheduled profile settings  One-way Audio  G.711, G.726  Built-in microphone
Video Compression  Maximum Frame Rate  Maximum Streams  S/N Ratio  Dy namic Range  Video Streaming  Image Settings  Audio  Audio Capability  Audio Compression  Audio Interface  Effective Range	H.265: 20 fps/30 fps @ 2560x1920 (WDR Pro on/off) H.264: 20 fps/25 fps @ 2560x1920 (WDR Pro on/off) MJPEG: 20 fps/20 fps @ 2560x1920 (WDR Pro on/off)  3 video streams (Up to 8 configurable profiles)  62 dB  120 dB  Adjustable resolution, quality and bit rate control, Smart Stream III  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, 3DNR, HLM, DIS, scene mode (auto, deblur); Exposure: BLC, HLC, exposure control (exposure level, iris adjustment, exposure time, gain control, iris mode), AE speed adjustment, WDR; Privacy mask; Scheduled profile settings  One-way Audio  G.711, G.726  Built-in microphone
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Video Compression  Maximum Frame Rate  Maximum Streams  S/N Ratio  Dynamic Range  Video Streaming  Image Settings  Audio  Audio Capability  Audio Compression  Audio Interface  Effective Range  Network  Users	H.265: 20 fps/30 fps @ 2560x1920 (WDR Pro on/off) H.264: 20 fps/25 fps @ 2560x1920 (WDR Pro on/off) MJPEG: 20 fps/20 fps @ 2560x1920 (WDR Pro on/off)  3 video streams (Up to 8 configurable profiles)  62 dB  120 dB  Adjustable resolution, quality and bit rate control, Smart Stream III  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, 3DNR, HLM, DIS, scene mode (auto, deblur); Exposure: BLC, HLC, exposure control (exposure level, iris adjustment, exposure time, gain control, iris mode), AE speed adjustment, WDR; Privacy mask; Scheduled profile settings  One-way Audio  G.711, G.726  Built-in microphone  5 meters  Live viewing for up to 10 clients  Access list, digest authentication, HTTPS, IEEE 802.1x, password protection, signed firmware, Trend Micro IoT Security (brute force attack event, cyberattack event, quarantine)

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
Solution Integration	
Video Motion Detection	Five-window video motion detection
VADP Package	Trend Micro IoT Security (1-year free trial), VIVOCloud
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, shock detection, system boot
Event Action	Event notification via email, HTTP, FTP, NAS server, SD card File upload via email, HTTP, FTP, NAS server, SD card
General	
Connectors	RJ-45 cable connector for 10/100Mpbs Network/PoE connection
LED Indicator	System power and status indicator
Power Input	IEEE 802.3af PoE Class 0
Power Consumption	Max. 9.12 W/5.37 W (IR on/off)
Dimensions	$159.9 \ x \ 71.92 \ x \ 60.2 \ mm$ (Dome to rear panel), $39.2 \ mm$ (Flat to rear panel)
Weight	492 g
Certifications	EMC: CE (EN55032 Class B, EN55024), FCC (FCC Part 15 Subpart B Class B), RCM (AS/NZS CISPR 32 Class B), VCCI (VCCI-CISPR 32 Class B); Safety: UL (UL62368-1), CB (IEC/EN 62368-1, IEC/EN 60950-22, IEC/EN 62471); Environment: IK10 (IEC 62262), IP66 (IEC 60529); IA: BIS (IS 13252)
Operating Temperature	Starting Temperature: -10°C ~ 50°C (14°F~ 122°F) Working Temperature: -30°C ~ 50°C (-22°F~ 122°F)
Humidity	90%
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	Quick installation guide, mounting bracket, tilt bracket, screw pack

### **Dimensions**





