



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

Notes CCR/BP Additionals Soc (System-on-Chip) Flash 25946 RAM 12408 Camera Features 112.7° Progressive CMOS Max. Resolution 2560x 1900 (MAP) Lear Type Pixed-Coal Focal Length 6 = 1.45 mm Aparture 72.2° Adac-Iris 1000 (Violizability) Filed of Wise 1000 (Violizability) Shutter Time 15 sec. to 173.200 sec. WORR Sectionacy WOR Reconocy Day, Night Yes Removable Recur Filter Yes Performance 100 Time Spr 22 (Calcer) Mission Filter 100 Time Spr 22 (Calcer) Maximum Humination 201 Time Spr 22 (Calcer) On-board Storage Sind types MerreSDI/SDI-CSDXC card slot Reservable Recurred Filter 201 Time Spr 22 (Spr)	System Information	
	Model	CC9381-HV
RAM 512MB Camer Features Limps Sansor 112.7° Progressive CMOS Max. Resolution 2580x 1300 (SMF) Lens Type Fixed focal Focal Longth f = 1.45 mm Aperture F2.2 Auto-iris Fixed-iris Field of View 180° (Prioritorial) 120° (Vertical) Shutter Time 1.95 sec. to 1/32.00 sec. WOR Technology WDR Pro Day-Night Yee Removable Inct. At Filter Yee Re Riburninators Built-in IR illuminators, effective up to 15 meters with Smart IR Minimum Illumination 0.11 Lix 6g F2.2 (Calory) 0.11 Lix 6g F2.2 (Calory) Minimum Illumination 225° Paym Titl Zoon Functionalities effective up to 15 meters with Smart IR Video 225° Video 225° Paym Titl Zoon Functionalities effect dist Jacom (ax on 1E plug-in, 12x built-in) Video 1255. H. 296, MAJPEG Wideo 1225° 28550x 1200 (WDR Cr) Video 1225° 28550x 1200 (WDR Cr) Maxi	CPU	Multimedia SoC (System-on-Chip)
Image Sensor	Flash	256MB
Image Sensor	RAM	512MB
Max. Resolution 2560x1820 (SMP)	Camera Features	
Lens Type Fixed Lorght Fixed Lorght Fixed Lorght Fixed Lorght Fixed Jame Fixed Lorght Fixed Lorg	Image Sensor	1/2.7" Progressive CMOS
Face Length	Max. Resolution	2560x1920 (5MP)
Aperture F2 2 Auto-iris Fixed-iris Fixed of View 3100′ (Horizontal) 120′ (Verticatal) 120′ (Verticatal	Lens Type	Fixed-focal
Auto-iris Fixed-iris	Focal Length	f = 1.45 mm
Till do f View 180° (Horizontal) 180° (Horizontal) 180° (Horizontal) 180° (Magnas)	Aperture	F2.2
Section 120" (Vertical)	Auto-iris	Fixed-iris
WDR Pro Day/Night Yes Removable IR-cut Filter Yes Yes Removable IR-cut Filter Yes Yes Yes Removable IR-cut Filter Yes	Field of View	120° (Vertical)
Day/Night Yes Removable IR-cut Filter Yes Removable IR-cut Filter Yes RI Illuminators Bullt-in IR illuminators, effective up to 15 meters with Smart IR RI Illuminators 0.01 Lux @ F2.2 (Color) 0.01 Lux @ F2.2 (BW) 0.02 Exempla Storage 25° Pan/Tilit/Zoom Functionalities ePTZ- 48x digital zoom (4x on IE plug-in, 12x built-in) On-board Storage Slot type: MicroSD/SDHC/SDXC card slot Seanless Recording Video Video Video Compression H.265, H.264, MUPEG 1.265 2.05 ps @ 2560x1920 (WDR On) 3.0 fps @ 2560x1920 (WDR On) 3	Shutter Time	1/5 sec. to 1/32,000 sec.
Removable IR-cut Filter IR Illuminators Built-in IR illuminators, effective up to 15 meters with Smart IR O. 11 Luc @ F.2.2 (Color) O. Luc With IR Illuminators on Tilt Range 425* Par/Tilt/Zoom Functionalities ePTZ: 48x digital zoom (4x on IE plug-in, 12x built-in) On-board Storage Slot type: McroSD/SDHC/SDXC card slot Seamless Recording Video Video Video Compression H. 285, H. 284, MUPEG H. 286. 20 fps @ 2560x1920 (WDR On) 30 fps @ 2560x1920 (WDR Off) H. 266: 20 fps @ 2560x1920 (WDR Off) H. 266: 20 fps @ 2560x1920 (WDR Off) H. 266: 20 fps @ 2560x1920 (WDR Off) Maximum Streams 3 simultaneous streams Siv Ratio 62 dB Dynamic Range 120 dB Video Streaming Adjustable resolution, quality and bit rate control, Smart Stream III Image Settings Adjustable resolution, quality and bit rate control, Smart Stream III Image Settings Audio Audio Audio Compression 5 meters Protocols Siver Viewing for up to 10 clients Built-in microphone Effective Range 5 meters Live viewing for up to 10 clients BOLY, ARP, CIFS/SMB, Cos., DDNS, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IGMP, IGMP, IFMP, HTPP, HTTPS, ICMP, IGMP, IGMP, IGMP, IFMP, HTTP, HTTPS, ICMP, IGMP, IGMP, IFMP, HTPP, PPPOE, Coss, RTSP/RTIP/RTCP, SMIP, SMIP, SSI, TCPIP, TLS, IUDP, IEMP, IGMP, ISMP, PPPOE, Coss, RTSP/RTIP/RTCP, SMIP, SMIP, SSI, TCPIP, TLS, IUDP, ISMP, PPOE, Coss, RTSP/RTIP/RTCP, SMIP, SSII, TCPIP, TLS, IUDP, ISMP, PPOE, Coss, RTSP/RTIP/RTCP, SMIP, SSII, TCPIP, TLS, IUDP, ISMP, SSI	WDR Technology	WDR Pro
R. Illuminators Built-in IR Illuminators, effective up to 15 meters with Smart IR On 11 Luc @ F2.2 (Color) On Luc @ F2.2 (Color) On Luc @ F2.2 (EMPY) On Luc with IR Illuminators on Tilt Range 257 Pan/Tilt/Zoom Functionalities ePTZ: 48x digital zoom (4x on IE plug-in, 12x built-in) Ch-board Storage Silt type: MerosDI/SDHC/SDXC card slot Seamless Recording Video Video Video Wideo Compression H. 265, H.264, MUPEG H. 265 D1 ps @ 2560x1920 (WDR Ch) D3 ps @ 2560x1920 (WDR Ch) D4 ps @ 2560x1920 (WDR Ch) D5 ps @ 2560x1920 (WDR Ch) D5 ps @ 2560x1920 (WDR Ch) D5 ps @ 2560x1920 (WDR Ch) D6 ps @ 2560x1920 (WDR Ch) D7 ps @ 2560x1920 (WDR Ch) D7 ps @ 2560x1920 (WDR Ch) D8 ps @ 2560x1920 (WDR Ch) D9 ps @ 2560x1920 (WDR Ch) D8 ps @ 2560x1920 (WDR Ch) D9 ps @ 2560x1920	Day/Night	Yes
Mnimum Illumination 0.11 Lux @ F2.2 (Color) 0.01 Lux (Sept. 22.2 (En/W) 0.01 Lux (Sept	Removable IR-cut Filter	Yes
Mnimum Illumination 0.01 Lux (With IR Illuminators on 0.02 Lux (With IR Illuminators on 0.03 Lux (With IR Illuminators on 0.04 Lux (With IR Illuminators on 0.05 Lux (With IR Illuminators 0.05 Lux (With IR Il	IR Illuminators	Built-in IR illuminators, effective up to 15 meters with Smart IR
Pan/Till/Zoom Functionalities ePTZ: 48x digital zoom (4x on IE plug-in, 12x built-in) On-board Storage Slot type: McroSD/SDHC/SDXC card slot Seamless Recording Video Video Video Compression H.265, H.264, MJPEG H.265: 20 fps @ 2560x1920 (WDR On) 30 fps @ 2560x1920 (WDR On) 40 f	Minimum Illumination	0.01 Lux @ F2.2 (B/W)
On-board Storage Slot type: McroSD/SDHC/SDXC card slot Seamless Recording Video Video Compression H.265, H.264, MJPEG H.265: 20 fps @ 2560x1920 (WDR On) 30 fps @ 2560x1920 (WDR On) 40 fps @ 2560x1920 (WDR On) 50 fps @ 256	Tilt Range	±25°
Video Compression H. 265, H. 264, MJPEG H. 265 Lo 1 ps @ 2560x1920 (WDR On) 30 lps @ 2560x1920 (WDR On) 40 ps @ 2560x1920 (WDR	Pan/Tilt/Zoom Functionalities	ePTZ: 48x digital zoom (4x on IE plug-in, 12x built-in)
H.265, H.264, MJPEG	On-board Storage	
H.265: 20 fps @ 2560x1920 (WDR On) 30 fps @ 2560x1920 (WDR Off) H.264: 20 fps @ 2560x1920 (WDR On) 25 fps @ 2560x1920 (WDR On) 25 fps @ 2560x1920 (WDR Off) MPEG: 20 fps @ 2560x1920 (WDR On) 20 fps @	Video	
### Addio Capability Audio Interface Effective Range Effective Range Live viewing for up to 10 clients ### Augus 2550x1920 (WDR On) 20 fps @ 2560x1920 (WDR On) 21 fps @ 2560x1920 (WDR On) 22 fps @ 2560x1920 (WDR On) 23 fps @ 2560x1920 (WDR On) 24 fps @ 2560x1920 (WDR On) 25 fps @ 2560x1920 (WDR On) 26 fps @ 2560x1920 (WDR On) 26 fps @ 2560x1920 (WDR On) 27 fps @ 2560x1920 (WDR On) 28 fps @ 2560x1920 (WDR On) 29 fps @ 2560x1920 (WDR On) 20 fps @ 2560x1920 (WDR On) 2	Video Compression	H.265, H.264, MJPEG
S/N Ratio Dynamic Range 120 dB Video Streaming Adjustable resolution, quality and bit rate control, Smart Stream III Time stamp, text overlay, flip and mirror, scheduled profile settings, configurable brightness/contrast/saturation/sharpness, white balance, exposure control, gain, backlight compensation, privacy masks, defog, 3DNR, pixel calculator 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 802.1X, ARP, CIFS/SMB, CoS, DDNS, DHCP, DNS, FTP, HTTP, ICMP, IGMP, IPV4, IPV6, NTP, PPPoE, QoS, RTSP/RTP/RTCP, SMTP, SNMP, SSL, TCP/IP, TLS, UDP, IPV4, IPV6, NTP, PPPoE, QoS, RTSP/RTP/RTCP, SMTP, SNMP, SSL, TCP/IP, TLS, UDP,	Maximum Frame Rate	20 fps @ 2560x1920 (WDR On) 30 fps @ 2560x1920 (WDR Off) H.264: 20 fps @ 2560x1920 (WDR On) 25 fps @ 2560x1920 (WDR Off) MJPEG: 20 fps @ 2560x1920 (WDR On)
Dynamic Range 120 dB Video Streaming Adjustable resolution, quality and bit rate control, Smart Stream III Time stamp, text overlay, flip and mirror, scheduled profile settings, configurable brightness/contrast/saturation/sharpness, white balance, exposure control, gain, backlight compensation, privacy masks, defog, 3DNR, pixel calculator 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 802.1X, ARP, CIFS/SMB, CoS, DDNS, DHCP, DNS, FTP, HTTPS, ICMP, IGMP, IPV4, IPV6, NTP, PPP0E, QoS, RTSP/RTP/RTCP, SMTP, SNMP, SSL, TCP/IP, TLS, UDP,	Maximum Streams	3 simultaneous streams
Video Streaming Adjustable resolution, quality and bit rate control, Smart Stream III Image Settings Time stamp, text overlay, flip and mirror, scheduled profile settings, configurable brightness/contrast/saturation/sharpness, white balance, exposure control, gain, backlight compensation, privacy masks, defog, 3DNR, pixel calculator 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 802.1X, ARP, CIFS/SMB, CoS, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IGMP, IPv4, IPv6, NTP, PPP6E, QoS, RTSP/RTP/RTCP, SMTP, SNMP, SSL, TCP/IP, TLS, UDP, IPv4, IPv6, NTP, PPP6E, QoS, RTSP/RTP/RTCP, SMTP, SNMP, SSL, TCP/IP, TLS, UDP,	S/N Ratio	62 dB
Time stamp, text overlay, flip and mirror, scheduled profile settings, configurable brightness/contrast/saturation/sharpness, white balance, exposure control, gain, backlight compensation, privacy masks, defog, 3DNR, pixel calculator 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 802.1X, ARP, CIFS/SMB, CoS, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IGMP, IPV4, IPV6, NTP, PPPDE, QoS, RTSP/RTP/RTCP, SMTP, SNMP, SSL, TCP/IP, TLS, UDP,	Dynamic Range	120 dB
Image Settings brightness/contrast/saturation/sharpness, white balance, exposure control, gain, backlight compensation, privacy masks, def og, 3DNR, pixel calculator 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 802.1X, ARP, CIFS/SMB, CoS, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IGMP, IPV4, IPV6, NTP, PPPDE, QoS, RTSP/RTP/RTCP, SMTP, SNMP, SSL, TCP/IP, TLS, UDP,	Video Streaming	Adjustable resolution, quality and bit rate control, Smart Stream III
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 802.1X, ARP, CIFS/SMB, CoS, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IGMP, IPV4, IPV6, NTP, PPPDE, QoS, RTSP/RTP/RTCP, SMTP, SNMP, SSL, TCP/IP, TLS, UDP,	Image Settings	brightness/contrast/saturation/sharpness, white balance, exposure control, gain,
Audio Compression G.711, G.726 Audio Interface Built-in microphone Effective Range 5 meters Network Users Live viewing for up to 10 clients 802.1X, ARP, CIFS/SMB, CoS, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IGMP, IPV4, IPV6, NTP, PPPOE, QoS, RTSP/RTP/RTCP, SMTP, SNMP, SSL, TCP/IP, TLS, UDP, IPV4, IPV6, NTP, PPPOE, QoS, RTSP/RTP/RTCP, SMTP, SNMP, SSL, TCP/IP, TLS, UDP,	Audio	
Audio Interface Effective Range 5 meters Network Users Live viewing for up to 10 clients 802.1X, ARP, CIFS/SMB, CoS, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IGMP, Protocols 1Pv4, IPv6, NTP, PPPoE, QoS, RTSP/RTP/RTCP, SMTP, SNMP, SSL, TCP/IP, TLS, UDP,	Audio Capability	One-way Audio
Effective Range 5 meters Network Users Live viewing for up to 10 clients 802.1X, ARP, CIFS/SMB, Cos, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IGMP, Protocols 1Pv4, IPv6, NTP, PPPoE, QoS, RTSP/RTP/RTCP, SMTP, SNMP, SSL, TCP/IP, TLS, UDP,	Audio Compression	G.711, G.726
Network Users Live viewing for up to 10 clients 802.1X, ARP, CIFS/SMB, CoS, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IGMP, Protocols 1Pv4, IPv6, NTP, PPPoE, QoS, RTSP/RTP/RTCP, SMTP, SNMP, SSL, TCP/IP, TLS, UDP,	Audio Interface	Built-in microphone
Users Live viewing for up to 10 clients 802.1X, ARP, CIFS/SMB, CoS, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IGMP, Protocols 1Pv4, IPv6, NTP, PPPoE, QoS, RTSP/RTP/RTCP, SMTP, SNMP, SSL, TCP/IP, TLS, UDP,	Effective Range	5 meters
802.1X, ARP, CIFS/SMB, CoS, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IGMP, Protocols 1Pv4, IPv6, NTP, PPPoE, QoS, RTSP/RTP/RTCP, SMTP, SNMP, SSL, TCP/IP, TLS, UDP,	Network	
Protocols IPv4, IPv6, NTP, PPPoE, QoS, RTSP/RTP/RTCP, SMTP, SNMP, SSL, TCP/IP, TLS, UDP,	Users	Live viewing for up to 10 clients
	Protocols	IPv4, IPv6, NTP, PPPoE, QoS, RTSP/RTP/RTCP, SMTP, SNMP, SSL, TCP/IP, TLS, UDP,

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	Supported, specification available at www.onvif.org
Solution Integration	
Video Motion Detection	Five-window video motion detection
VADP Package	Genetec Package, Trend Micro IoT Security
Alarm and Event	
Alarm Triggers	Motion detection, manual trigger, periodical trigger, system boot, recording notification, camera tampering detection, audio detection, SD card life expectancy, cybersecurity events (brute force attack event, cyberattack event and quarantine event)
Alarm Events	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. 6.7 W
Dimensions	159.9 x 71.92 x 60.2 mm (Dome to rear panel), 39.2 mm (Flat to rear panel)
Weight	492 g
Casing	IP66, IK10
Safety Certifications	CE, LVD, FCC Class B, VCCI, C-Tick, UL
Operating Temperature	Starting Temperature: -10°C ~ 50°C (14°F~ 122°F) Working Temperature: -20°C ~ 50°C (-4°F~ 122°F)
Humidity	90%
Warranty	24 months
System Requirements	
Operating System	Microsoft Windows 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 QuickTime: 7 or above
Included Accessories	
Others	Quick installation guide, warranty card, mounting bracket, tilt bracket, screw pack

Dimensions





