



**V Series**

# CC9391-HV

8MP IR Compact Panoramic AI Camera



## Technical Specifications

System Information	
CPU	Multimedia SoC (System-on-Chip)
Flash	8 GB
RAM	2GB

  

Camera Specifications	
Image Sensor	1/1.8" Progressive CMOS
Max. Resolution	3840x2160 (4K/8MP)
Lens Type	Fixed-focal
Focal Length	f = 2.53mm
Aperture	F2.4
Iris Type	Fixed Iris
Field of View	180° (Horizontal) 103° (Vertical) 180° (Diagonal)
Shutter Time	1 sec. to 1/100,000 sec.
WDR Technology	WDR Pro
Day/Night	Yes
Removable IR-cut filter	Yes
Illuminators	Built-in IR illuminators up to 20 meters with Smart IR , IR LED*4
Minimum Illumination	0.08 lux (Color, 30IRE) 0.005lux (B/W 30IRE) 0 lux with IR Illuminators on
Tilt Range	±20°
Pan/Tilt/Zoom Functionalities	ePTZ: 48x digital zoom (4x on IE plug-in,12x built in)
Storage	Seamless Recording to MicroSD/SDHC/SDXC card (1TB Capacity Supported) and recording to network-attached storage (NAS)
Built-in Installation Aids	Pixel calculator

Video	
Compression	H.265, H.264, MJPEG
Maximum Frame Rate	30 fps @ 3840x2160
Maximum Streams	3 video streams (Up to 8 configurable profiles)
S/N Ratio	62 dB
Dynamic Range	120 dB
Video Streaming	Adjustable resolution, quality and constrained bit rate control, Smart Stream III
Image Settings	<p>General settings video settings, video orientation (flip, mirror, rotation), day/night settings, smart image</p> <p>Overlay settings Illuminators illuminators, anti-overexposure</p> <p>Image settings white balance, image adjustment (brightness, contrast, saturation, sharpness, gamma curve), defog, 3DNR, HLM, scene mode (auto)</p> <p>Exposure exposure strategy (measurement window, metering mode)</p> <p>exposure control (exposure level, exposure time, gain control), image sharpener for motion blur, AE speed adjustment, WDR Privacy mask Pixel calculator Scheduled profile settings</p>

Audio	
Audio Capability	One-way Audio
Compression	G.711, G.726, MPEG-2 AAC-LC
Interface	Built-in microphone
Effective Range	5 meters

Network	
Users	Live viewing for up to 10 clients
Security	Access list, Account block , Audit log, Configurable password strength protection, CSRF protection, Digest authentication, HTTPS , IEEE 802.1x, Secure boot, Session timeout, 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/SFTP, HTTP, HTTPS, ICMP, IGMPv3, IPv4, IPv6, NTP, PPPoE, QoS (CoS/DSCP), RTSP/RTP/RTCP, SMTP, SNMP, SSL, TCP/IP, TLS 1.2/1.3, UDP, UPnP
Interface	10Base-T/100 BaseTX Ethernet (RJ-45) *It is highly recommended to use standard Cat. 5e & Cat. 6 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>

AI 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 Motion Detection, Smart VCA) Smart Motion Detection (Five-window video motion detection, People detection, Vehicle detection, Time filter), Smart VCA (Intrusion detection, Loitering detection, Line crossing detection, Unattended object detection, Missing object detection, Face detection, Crowd detection)
Application available with license	Running detection, Parking Violation Detection, Restricted Zone Detection Support for more analytic applications and free trial, please visit <a href="http://vivotek.com/video-analytics">vivotek.com/video-analytics</a>

Solution Integration	
VADP Package	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), manual trigger, motion detection, periodical trigger, recording notification, SD card life expectancy, shock detection, system boot, video loss, video restoration
Event Action	Event notification via audio clip, camera link, email, HTTP, FTP/SFTP, NAS server, SD card File upload via email, HTTP, FTP/SFTP, NAS server, SD card

General	
Connectors	RJ-45 cable connector for 10/100 Mbps Network/PoE connection
LED Indicator	System power and status indicator
Power Input	IEEE 802.3af PoE Class 0
Power Consumption	Max. 10.83W/7.5W (IR on/off)
Dimensions	160 x 72 x 60 mm
Weight	492 g
Certifications	EMC CE (EN 55032 Class A, EN 55035), UKCA (BS EN 55032: 2015 +A11: 2020, BS EN 55035: 2017 +A11: 2020), FCC (FCC Part 15 Subpart B Class A), RCM (AS/NZS CISPR 32 Class A), VCCI (VCCI-CISPR 32 Class A), ICES-003 Issue 7
	Safety UL (UL 62368-1), CB (IEC/EN 62368-1 including annex Y, IEC/EN 62471)
	Environment IK10 (IEC 60529), IP66 (IEC 60529)
Operating Temperature	IA BIS (IS 13252), BSMI (EMC: CNS 15936, Safety: CNS 15598-1)
	Starting Temperature: -10°C ~ 55°C (14°F~ 131°F) Working Temperature: -30°C ~ 55°C (-22°F~ 131°F)(IR on) -30°C ~ 60°C (-22°F~ 140°F)(IR off)
Humidity	98% RH (non-condensing)

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, sunshield
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## DORI (EN 62676-4 Standard)

Detection (25PPM/ 8PPF)	51.5 m (168.9 ft)
Observation (63PPM/ 19PPF)	20.6 m (67.5 ft)
Recognition (125PPM/ 38PPF)	10.3 m (33.7 ft)
Identification (250PPM/ 76PPF)	5.1 m (16.7 ft)