



V Series

IP9181-HT-V2 (2.8-8.5 mm)

5MP Box Network Camera



Technical Specifications

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

Camera Specifications	
Image Sensor	1/2.8" Progressive CMOS
Max. Resolution	2560x1920 (4:3) 2880x1632 (16:9)
Lens Type	Vari-focal, Remote Focus, i-CS
Focal Length	f = 2.8 ~ 8.5 mm
Aperture	F1.2
Iris Type	DC-iris, P-iris, i-CS
Field of View	106.8° ~ 36.4° (Horizontal) 77.4° ~ 27.3° (Vertical) 143.1° ~ 45.6° (Diagonal)
Shutter Time	1/1 sec. to 1/100,000 sec.
WDR Technology	WDR Pro
Day/Night	Yes
Removable IR-cut filter	Yes
Minimum Illumination	0.01 lux @ F1.2 (Color) 0.005 lux @ F1.2 (B/W)
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)
Built-in Installation Aids	Remote back focus, BNC (CVBS)

Video	
Compression	H.265, H.264, MJPEG
Maximum Frame Rate	30 fps @ 2560x1920 (WDR on) 30 fps @ 2880x1632 (WDR on)
Maximum Streams	3 simultaneous streams (Up to 8 configurable profiles)
Main Stream	30 fps @ 2560x1920, 1600x1200, 1280x960, 640x480 (4:3); 30 fps @ 2880x1632, 2688x1520, 2560x1440, 1920x1080, 1280x720, 1360x768, 640x360 (16:9); 60 fps @ 1920x1080, 1600x904, 1360x768, 1280x720, 640x360 (16:9)
2nd Stream	30 fps @ 2560x1920, 1600x1200, 1280x960, 640x480 (4:3); 30 fps @ 2880x1632, 2688x1520, 2560x1440, 1920x1080, 1280x720, 1360x768, 640x360 (16:9); 60 fps @ 1920x1080, 1600x904, 1360x768, 1280x720, 640x360 (16:9)
3rd Stream	30 fps @ 1280x960, 640x480 (4:3); 30 fps @ 1280x720, 640x360 (16:9); 60 fps @ 1280x720, 640x360 (16:9)
S/N Ratio	60 dB
Dynamic Range	120 dB
Video Streaming	Adjustable resolution, quality and constrained bit rate control, Smart Stream III
Image Settings	General settings video title and time stamp overlay, video orientation (flip, mirror, rotation), day/night settings Illuminators illuminators, anti-overexposure Image settings white balance, image adjustment (brightness, contrast, saturation, sharpness, gamma curve), defog, LDC, HLM, 3DNR, EIS*, scene mode (auto, deblur) Exposure BLC, HLC, exposure control (exposure level, iris adjustment, exposure time, gain control, iris mode), AE speed adjustment, WDR Focus zoom, focus Privacy mask Scheduled profile settings

Audio	
Audio Capability	Two-way Audio
Compression	G.711, G.726, MPEG-2 AAC-LC
Interface	External microphone input External line output

Network	
Users	Live viewing for up to 10 clients
Security	Access list, Account block, Audit log, Session timeout, Configurable password strength protection, Digest authentication, CSRF protection, HTTPS, IEEE 802.1x, Secure boot, Signed firmware, Trend Micro IoT Security (brute force attack event, cyberattack event), User access log, User account management
Protocols	802.1X, ARP, Bonjour, CIFS/SMB, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IGMPv3, IPv4, IPv6, NTP, PPPoE, QoS (CoS/DSCP), RTSP/RTP/RTCP, SFTP, SMTP, SNMP, SSL, TCP/IP, TLS 1.2, UDP, UPnP
Interface	10BASE-T/100BASE-TX/1000BASE-T 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, M supported, specification available at www.onvif.org

AI Analytics	
Compute Capability	SoC with built-in hardware deep learning accelerator
Vision Object Analytics	Object Detection: People Vehicle (4-wheeled, 2-wheeled) Human / Vehicle Bestshot Attribute Extraction: People (gender, clothing color, bag, hat) Path Extraction Vehicle (bike, bus, car, motorcycle, truck, color) Human face Bestshot Re-Search Extraction
Applications	Deep Learning VCA (Smart Motion Detection, Smart VCA) Smart VCA - Group 1 Smart Motion Detection (Five-window video motion detection, People detection, Vehicle detection, Time filter), Smart VCA (Intrusion detection, Loitering detection, Line crossing detection, Face detection) Smart VCA - Group 2 Unattended object detection, Missing object detection, Crowd detection
Application available with license	Smart VCA - Group 3 Parking Violation Detection, Restricted Zone Detection *Support for more analytic applications and free trial, please visit VIVOTEK website.

Solution Integration	
VADP Package	Trend Micro IoT Security (Default 3 years)

Alarm and Event	
Event Trigger	Motion detection, Camera tampering detection, Audio detection, Digital input, Manual trigger, Periodical trigger, System boot, Recording notification, SD card life expectancy, Shock detection, Casing open detection, Cybersecurity events (brute force attack event, cyberattack event)
Event Action	Event notification via email, HTTP, FTP/SFTP, NAS server, SD card, digital output, audio clip, camera link File upload via email, HTTP, FTP/SFTP, NAS server, SD card

General	
Supported P/T/Z	DynaDome/SmartDome, Pelco D, Pelco P, Lilin, Samsung scc643 and customized
Connectors	RJ-45 cable connector for 10/100/1000 Mbps Network/PoE connection Audio input Audio output AC 24V power input *1 DC 12V power input *1 Digital input *2 Digital output *2 (DO+: 12V, 50mA; DO-: 30V, Open Drain, 1A) RS-485 *1 BNC *1
LED Indicator	System power and status indicator
Power Input	AC 24V, DC 12V, IEEE 802.3af PoE Class 0
Power Consumption	DC 12V: Max. 8.88W AC 24V: Max. 17W PoE: Max. 10W
Dimensions	155 (D) x 70 (W) x 61 (H) mm (w/o lens) 210 (D) x 70 (W) x 66 (H) mm (w/ lens)
Weight	680 g (w/o lens) 790 g (w/ lens)
Certifications	CE, LVD, FCC Class B, VCCI, C-Tick, UL/CUL, BIS, BSMI

Operating Temperature	Starting Temperature: 0°C ~ 50°C (32°F ~ 122°F) Working Temperature: -10°C ~ 60°C (14°F ~ 140°F)
Humidity	90% RH (non-condensing)
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, screw pack, lens
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DORI (EN 62676-4 Standard)

Detection (25PPM/ 8PPF)	Wide: 72.3 m (237.2 ft) Tele: 174.7 m (573.2 ft)
Observation (63PPM/ 19PPF)	Wide: 28.7 m (94.2 ft) Tele: 69.3 m (227.4 ft)
Recognition (125PPM/ 38PPF)	Wide: 14.5 m (47.6 ft) Tele: 34.9 m (114.5 ft)
Identification (250PPM/ 76PPF)	Wide: 7.2 m (23.6 ft) Tele: 17.5 m (57.4 ft)