



V Series

FD9189-H-V3

5MP Indoor Fixed Dome Camera



Technical Specifications

System Information

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

Camera Specifications

Image Sensor	1/2.8" Progressive CMOS
Max. Resolution	2560x1920 (5MP)
Lens Type	Fixed-focal
Focal Length	f = 2.8 mm
Aperture	F2.0
Iris Type	Fixed iris
Field of View	103.4° (Horizontal) 75.3° (Vertical) 135.2° (Diagonal)
Shutter Time	1/5 sec. to 1/32,000 sec.
WDR Technology	WDR Pro
Day/Night	Yes
Removable IR-cut filter	Yes
Illuminators	Built-in IR illuminators, effective up to 30 meters with Smart IR, IR LED*2
Minimum Illumination	0.055 lux @ F2.0 (Color) 0.005 lux @ F2.0 (B/W) 0 lux with IR illumination on
Pan Range	350°
Tilt Range	80°
Rotation Range	350°
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 @ 2560x1920 (5MP)
Maximum Streams	3 video streams (Up to 8 configurable profiles)
Main Stream	30fps @ 2560x1920,2048x1536,1920x1440,1600x1200,1280x960,800x600,640x480 (4:3) 30fps @ 2560x1440, 1920x1080, 1600x904, 1360x768,1280x720, 640x360 (16:9) 60 fps @ 1920x1080, 1600x904, 1360x768, 1280x720, 640x360 (16:9)
2nd Stream	30fps @ 1920x1440, 1600x1200, 1280x960, 800x600, 640x480 (4:3); 30fps @ 1920x1080, 1600x904, 1360x768, 1280x720, 640x360 (16:9) 60 fps @ 1280x720, 640x360 (16:9)
3rd Stream	30fps @ 1280x960, 800x600, 640x480 (4:3); 30 fps @ 1280x720, 640x360 (16:9); 60 fps @ 1280x720, 640x360 (16:9)
S/N Ratio	55 dB
Dynamic Range	120 dB
Video Streaming	Adjustable resolution, quality and constant bit rate control, Smart Stream III
Image Settings	<p>General settings video title and time stamp overlay, video orientation (flip, mirror, rotation), day/night settings</p> <p>Illuminators illuminators, anti-overexposure, VCA-based Smart IR III</p> <p>Image settings white balance, image adjustment (brightness, contrast, saturation, sharpness, gamma curve), defog, 3DNR, EIS (built-in gyro sensor), scene mode (auto, deblur)</p> <p>Exposure BLC, HLC, exposure control (exposure level, iris adjustment, exposure time, gain control, iris mode), AE speed adjustment, WDR</p> <p>Focus zoom, focus</p> <p>Privacy mask pixel calculator Scheduled profile settings</p>
Display Mode	HDMI output (type D; 1080p/720p @30/25fps(60/50Hz))

Audio	
Audio Capability	Two-way audio (Full duplex)* * Requires AO-014 cable
Compression	G.711, G.726, MPEG-2 AAC-LC
Interface	Built-in microphone External microphone Input* External line output* * Requires AO-014 cable
Effective Range	5 meters

Network	
Users	Live viewing for up to 10 clients

Security	Access list, CSRF protection, digest authentication, HTTPS , IEEE 802.1x, Password protection, secure boot, signed firmware, Trend Micro IoT Security (brute force attack event, cyberattack event, quarantine event), user access log, user account management, Built-in FIPS 140-2 Level 2 certified Trusted Platform Module (TPM)
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	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, M supported, specification available at www.onvif.org

AI Analytics

Compute Capability	SoC with built-in hardware deep learning accelerator
Vision Object Analytics	<p>Object Detection People, Vehicle (4-wheeled, 2-wheeled), Human / Vehicle Bestshot, Path Extraction</p> <p>Attribute Extraction People (gender, clothing color, bag, hat), Vehicle (bike, bus, car, motorcycle, truck, color)</p> <p>Human face Bestshot, Re-Search Extraction</p>
Application	<p>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)</p> <p>Smart VCA - Group 2 Unattended object detection, Missing object detection, Crowd detection</p>
Application available with license	<p>Smart VCA - Group 3 Running detection, Parking Violation Detection, Restricted Zone Detection</p> <p>*Support for more analytic applications and free trial, please visit VIVOTEK website.</p>
RealSight Engine	Smart IR III, Deblur, WDR, White Balance, Exposure Control

Solution Integration

VADP Package	Trend Micro (Default, 3-year free trial)
Video Motion Detection	Motion Detection (Five-window video motion detection)

Alarm and Event

Event Trigger	<p>Audio detection*, camera tampering detection, cybersecurity events (brute force attack event, cyberattack event, quarantine event), digital input*, manual trigger, motion detection, periodical trigger, recording notification, SD card life expectancy, shock detection, system boot</p> <p>* Requires AO-014 cable</p>
Event Action	<p>Event notification via audio clip*, camera link, digital output*, email, HTTP, FTP/SFTP, NAS server, SD card</p> <p>File upload via email, HTTP, FTP/SFTP, NAS server, SD card</p> <p>* Requires AO-014 cable</p>

General

Connectors	<p>RJ-45 cable connector for 10/100 Mbps Network/PoE connection</p> <p>HDMI Output (Type D)</p> <p>Audio line input*</p> <p>Audio line output*</p> <p>Digital input: 1*</p> <p>Digital output: 1*</p> <p>* Requires AO-014 cable</p>
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LED Indicator	System power and status indicator
Power Input	IEEE 802.3af PoE Class 3
Power Consumption	Max. 12.4W/ 9.6W (IR on/off)
Dimensions	ø 120 x 89.6 mm
Weight	370 g
Certifications	<p>EMC CE (EN55032, EN55035 Class A), UKCA (BS EN 55032/BS EN 55035 Class A), FCC (FCC Part 15 Subpart B Class A), RCM (AS/NZS CISPR32 Class A), VCCI (VCCI-CISPR 32 Class A)</p> <p>IC (ICES-003 Issue 7, Class A) Safety UL (UL62368-1), CB (IEC/EN 62368-1, IEC/EN 62368-1, IEC/EN 62471)</p> <p>UKCA (BS EN IEC 62368-1) Environment IA: BIS (IS 13252), BSMI (EMC: CNS 15936, Safety: CNS 15598-1)</p>
Operating Temperature	<p>Starting Temperature: 0°C ~ 40°C (32°F ~ 104°F)</p> <p>Working Temperature: 0°C ~ 45°C (32°F ~ 113°F) (IR off) 0°C ~ 40°C (32°F ~ 104°F) (IR on)</p>
Humidity	90% RH (non-condensing)

System Requirements

Operating System	Microsoft Windows 10/8/7 Mac 10.12 (Chrome only)
Web Browser	Chrome 58.0 or above
Other Players	VLC: 1.1.11 or above

Included Accessories

Packing Contents	Quick installation guide, alignment sticker, screw pack, L-shaped wrench
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DORI (EN 62676-4 Standard)

Detection (25PPM/ 8PPF)	60.4 m (198.1 ft)
Observation (63PPM/ 19PPF)	24.1 m (79.2 ft)
Recognition (125PPM/ 38PPF)	12 m (39.5 ft)
Identification (250PPM/ 76PPF)	6.0 m (19.6 ft)