



FD9383-HV

Fixed Dome Network Camera

5MP 30 fps • WDR Pro • Smart VCA • IP66/IK10

Technical Specifications

System Information

Model	FD9383-HV (2.8mm) FD9383-HV (3.6mm)
CPU	Multimedia SoC (System-on-Chip)
Flash	8 GB
RAM	2 GB

Camera Features

Image Sensor	1/2.8" Progressive CMOS
Max. Resolution	2560x1920 (5MP)
Lens Type	Fixed-focal
Focal Length	FD9383-HV (2.8mm): f = 2.8 mm FD9383-HV (3.6mm): f = 3.6 mm
Aperture	F2.0
Iris Type	Fixed iris
Field of View	FD9383-HV (2.8mm): 103.4° (Horizontal) 75.3° (Vertical) 135.2° (Diagonal) FD9383-HV (3.6mm): 79.6° (Horizontal) 57.8° (Vertical) 105.8° (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 Illuminator 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	75°
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

Video Compression	H.265, H.264, MJPEG
Maximum Frame Rate	30 fps @ 2560x1920
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, 640x480 (4:3); 30fps @ 1920x1080, 1600x904, 1360x768, 1280x720, 640x360 (16:9) 60 fps @ 1920x1080, 1600x904, 1360x768, 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	FD9383-HV (2.8mm): 58 dB FD9383-HV (3.6mm): 56 dB
Dynamic Range	120 dB
Video Streaming	Adjustable resolution, quality and constant 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/smart IR; Image settings: white balance, image adjustment (brightness, contrast, saturation, sharpness, gamma curve), defog, 3DNR; Exposure: BLC, HLC, exposure control (exposure level, exposure time, gain control), Image sharpener for motion blur, AE speed adjustment, WDR; Privacy mask; Pixel calculator; Scheduled profile settings

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
Protocols	802.1X, ARP, Bonjour, CIFS/SMB, DDNS, DHCP, DNS, FTP/SFTP, HTTP, HTTPS, ICMP, IGMPv3, IPv4, IPv6, NTCIP, 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 supported, specification available at www.onvif.org

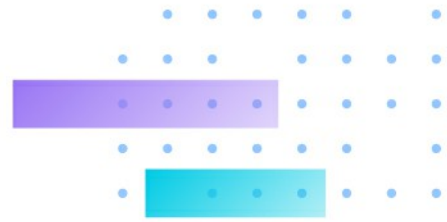
AI Analytics

Compute Capability	SoC with built-in hardware deep learning accelerator
Vision Object Analytics	Object Detection: People, Vehicle (4-wheeled, 2-wheeled); 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, Face detection)
Application available with license	Unattended object detection, Missing object detection, Crowd detection, Running detection, Parking Violation Detection, Restricted Zone Detection Support for more analytic applications and free trial, please visit vivotek.com/video-analytics

Solution Integration

Applications	Trend Micro (Default, 1-year free trial)
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Alarm and Event



Event Trigger	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
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Event Action	Event notification via camera link, email, HTTP, FTP/SFTP, NAS server, SD card File upload via email, HTTP, FTP/SFTP, NAS server, SD card
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General

Connectors	RJ-45 cable connector for 10/100 Mbps Network/PoE connection
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LED Indicator	System power and status indicator
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Power Input	IEEE 802.3af PoE Class 3
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Power Consumption	Max. 8.5 W/ 6.0 W (IR on/off)
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Dimensions	Ø 117.2 x 89.6 mm
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Weight	550 g
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Certifications	EMC: CE (EN 55032/EN 55035 Class A), UKCA (BS EN 55032/BS EN 55035 Class A), FCC (FCC Part 15 Subpart B Class A), RCM (AS/NZS CISPR 32 Class A), VCCI (VCCI-CISPR 32 Class A), IC (ICES-003 Issue 7, Class A) Safety: UL (UL 62368-1), CB (IEC/EN 62368-1, IEC/EN 60950-22, IEC/EN 62471), LVD (IEC/EN 62368-1), UKCA (BS EN 62368-1); Environment: IK10 (IEC 62262), IP66 (IEC 60529); IA: BIS (IS 13252), BSMI (EMC: CNS 15936, Safety: CNS 15598-1)
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Operating Temperature	Starting Temperature: -10°C ~ 50°C (-14°F ~ 122°F) Working Temperature: -30°C ~ 55°C (-22°F ~ 131°F) (IR off) -30°C ~ 50°C (-22°F ~ 122°F) (IR on)
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Humidity	90%
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System Requirements

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

Packing Contents	Quick installation guide, alignment sticker, screw pack, cable gland
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DORI (EN 62676-4 Standard)

Detect (25PPM/ 8PPF)	FD9383-HV (2.8mm): 60.4 m (198.1 ft) FD9383-HV (3.6mm): 78.3 m (256.8 ft)
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Observe (63PPM/ 19PPF)	FD9383-HV (2.8mm): 24.1 m (79.2 ft) FD9383-HV (3.6mm): 31.3 m (102.7 ft)
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Recognize (125PPM/ 38PPF)	FD9383-HV (2.8mm): 12 m (39.5 ft) FD9383-HV (3.6mm): 15.6 m (51.3 ft)
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Identify (250PPM/ 76PPF)	FD9383-HV (2.8mm): 6.0 m (19.6 ft) FD9383-HV (3.6mm): 7.8 m (25.5 ft)
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