



## C Series

# FD9383-HTV

5MP Outdoor Fixed Dome AI  
Camera



## Technical Specifications

### System Information

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

### Camera Specifications

Image Sensor	1/2.8" Progressive CMOS
Max. Resolution	2560x1920 (5MP)
Lens Type	Motorized, Vari-focal, Remote Focus
Focal Length	f = 2.8 ~ 12mm
Aperture	F1.6 ~ F3.3
Iris Type	DC-iris
Field of View	95.4° ~ 28.7° (Horizontal) 68.8° ~ 21.5° (Vertical) 129.6° ~ 35.9°(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 Illuminator up to 30 meters with Smart IR, IR LED*2
Minimum Illumination	0.04 lux @ F1.6 (Color) 0.005 lux @ F1.6 (B/W) 0 lux with IR illumination on
Pan Range	353°
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	Remote focus, remote zoom, pixel calculator

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	59 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/smart IR</p> <p>Image settings white balance, image adjustment (brightness, contrast, saturation, sharpness, gamma curve), defog, 3DNR</p> <p>Exposure BLC, HLC, exposure control (exposure level, exposure time, gain control), Image sharpener for motion blur, AE speed adjustment, WDR</p> <p>Focus zoom, focus</p> <p>Privacy mask Pixel calculator Scheduled profile settings</p>

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

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 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	<p>Object Detection People, Vehicle (4-wheeled, 2-wheeled)</p> <p>Attribute Extraction People (gender, clothing color, bag, hat), Vehicle (bike, bus, car, motorcycle, truck, color)</p> <p>Re-Search Extraction Path Extraction</p>
Application	<p>Deep Learning VCA (Smart Motion Detection, Smart VCA)</p> <p>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>
Application available with license	<p>Unattended object detection, Missing object detection, Crowd detection, Running detection, Parking Violation Detection, Restricted Zone Detection</p> <p>Support for more analytic applications and free trial, please visit <a href="http://vivotek.com/video-analytics">vivotek.com/video-analytics</a></p>

## Solution Integration

VADP Package	Trend Micro (Default, 1-year free trial)
Video Motion Detection	Motion Detection (Five-window video motion detection)

## 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
Event Action	<p>Event notification via camera link, email, HTTP, FTP/SFTP, NAS server, SD card</p> <p>File upload via email, HTTP, FTP/SFTP, NAS server, SD card</p>

## 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 3
Power Consumption	Max. 9.7 W/ 7.2 W (IR on/off)
Dimensions	ø133.7mm x 103.8mm
Weight	850 g

Certifications	<p>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)</p> <p>Environment IK10 (IEC 62262), IP66 (IEC 60529)</p> <p>IA BIS (IS 13252), BSMI (EMC: CNS 15936, Safety: CNS 15598-1)</p>
Operating Temperature	<p>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)</p>
Humidity	90%

## System Requirements

Operating System	Microsoft Windows 10/8/7 Mac 10.12 (Chrome only)
Web Browser	Chrome 58.0 or above Internet Explorer 11
Other Players	VLC: 1.1.11 or above

## Included Accessories

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

Detection (25PPM/ 8PPF)	Wide: 67.0 m (219.9 ft) Tele: 205.7 m (674.8 ft)
Observation (63PPM/ 19PPF)	Wide: 26.7 m (87.5 ft) Tele: 81.6 m (267.8 ft)
Recognition (125PPM/ 38PPF)	Wide: 13.3 m (43.7 ft) Tele: 41.0 m (134.4 ft)
Identification (250PPM/ 76PPF)	Wide: 6.6 m (21.7 ft) Tele: 20.5 m (67.1 ft)