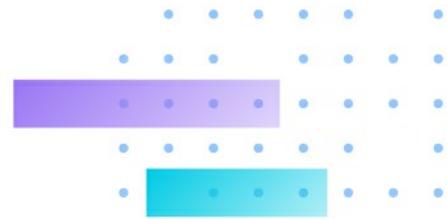# VIVOTEK
A Delta Group Company

S SERIES

FD9365-EHTV-v2

Fixed Dome Network Camera

2MP 60fps • H.265 • SNV II • WDR Pro II • 50M IR • IP67 • IK10 • NEMA 4X

- 60 fps @ 1920x1080
- H.265 Compression Technology with Smart Stream III
- Installation-friendly Design
- Weather-proof IP66, IP67 and Vandal-proof IK10, NEMA 4X-rated Protection
- SNV II (Supreme Night Visibility) for Low Light Conditions
- WDR Pro II for Unparalleled Visibility in Extremely Bright and Dark Environments
- Built-in IR Illuminators up to 50M with Smart IR III
- Signed Firmware and Secure Boot
- Cyber Protection via Trend Micro IoT Security
- Included AI-powered Smart Motion Detection and Smart VCA

NDAA Compliance • TREND MICRO • Stratocast™

Technical Specifications

System Information

Model	FD9365-EHTV-v2
CPU	Multimedia SoC (System-on-Chip)
Flash	8 GB
RAM	2 GB

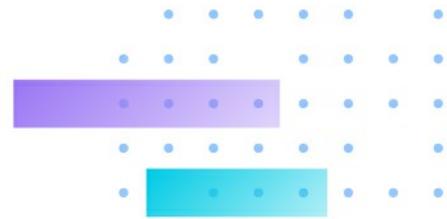## Camera Features

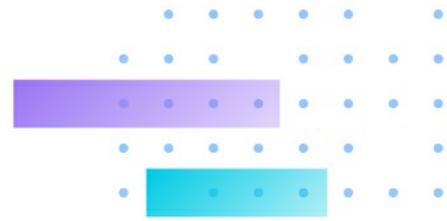|	
Image Sensor	1/2" Progressive CMOS
Max. Resolution	1920x1080 (2MP)
Lens Type	Motorized, Vari-focal, Remote Focus
Focal Length	f = 4 ~ 9 mm (f = 2.8 ~ 11.4 mm, equivalent focal length @ 1/2.8")
Aperture	F1.3 ~ F2.2
Iris Type	P-iris
Field of View	120° ~ 46° (Horizontal) 60° ~ 26° (Vertical) 148° ~ 53° (Diagonal)
Shutter Time	1 sec. to 1/100,000 sec.
WDR Technology	WDR Pro II
Day/Night	Yes
Removable IR-cut Filter	Yes
IR Illuminators	Built-in IR illuminators, effective up to 50 meters with Smart IR II, IR LED*4
Minimum Illumination	0.040 lux @ F1.3 (Color), 50IRE 0.015 lux @ F1.3 (Color), 30IRE <0.005 lux @ F1.3 (B/W) 0 lux with IR illumination on
Pan Range	±175°
Tilt Range	80°
Rotation Range	±175°
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 focus, remote zoom, Micro USB*, pixel calculator *Requires Wi-Fi dongle and Micro USB converter

Video

Video Compression	H.265, H.264, MJPEG
Maximum Frame Rate	60 fps @ 1920x1080
Maximum Streams	3 video streams (Up to 8 configurable profiles)
S/N Ratio	58 dB
Dynamic Range	140 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, Smart IR (target zone); Image settings: white balance, image adjustment (brightness, contrast, saturation, sharpness, gamma curve), defog, 3DNR, LDC, 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; Pixel calculator; Scheduled profile settings

Audio

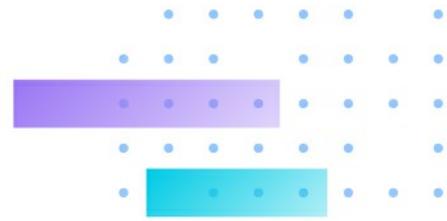|	
Audio Capability	Two-way audio (Full duplex)
Audio Compression	G.711, G.726
Audio Interface	Built-in microphone External microphone input External line output

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, UDP, UPnP
Interface	10 Base-T/100 Base-TX Ethernet *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

Solution Integration

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, running detection
VADP Package	Deep Learning VCA (Smart Motion Detection, Smart VCA, Parking Violation Detection*, Restricted Zone Detection*), Stratocast, Trend Micro IoT Security (3-year free trial) *License required. Please access https://license.vivotek.com/ for free trial license.

Alarm and Event

Event Trigger	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
Event Action	Event notification via audio clip, camera link, digital output, 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 PoE network connection Built-in Microphone Audio line input Audio line output DC 12V power input/AC 24V power input Digital input*2 Digital output*2 Micro USB
LED Indicator	System power and status indicator
Power Input	AC 24V/DC 12V, IEEE 802.3at PoE Class 4 (Power Redundancy)
Power Consumption	PoE: Max. 13.11/9.67 W (IR on/off) DC 12V: Max. 14.00/10.56 W (IR on/off) AC 24V: Max. 10.79/7.35 W (IR on/off)
Dimensions	ø 174 x 123 mm
Weight	1.38 kg
Certifications	EMC: CE (EN 55032/EN 55035 Class B, EN 50121-4), FCC (FCC Part 15 Subpart B Class B), UKCA (BS EN 55032/BS EN 55035 Class B), RCM (AS/NZS CISPR 32 Class B), VCCI (VCCI-CISPR 32 Class B), IC (ICES-003 Issue 7); Safety: UL (UL 62368-1), CB (IEC/EN 62368-1, IEC/EN 60950-22, IEC/EN 62471), LVD, (EN 62368-1), UKCA (BS EN IEC 62368-1); Environment: IK10+ (IEC 62262), IP66/67 (IEC 60529), NEMA (NEMA 250 Type 4X), IEC 60068-2-11, IP6K9K (ISO 20653); IA: BIS (EMC: CNS 15936, Safety: CNS 15598-1)
Operating Temperature	Starting Temperature: -30°C ~ 60°C (-22°F ~ 140°F) Working Temperature: -50°C ~ 60°C (-58°F ~ 140°F) (IR off) -50°C ~ 50°C (-58°F ~ 122°F) (IR on)
Humidity	98% 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
Other Players	VLC: 1.1.11 or above

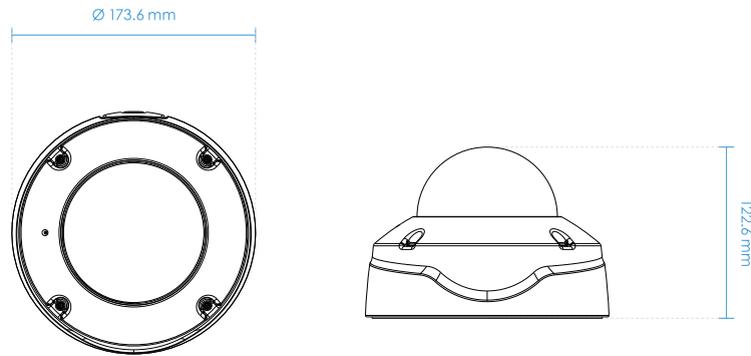## Included Accessories

Packing Contents	Quick installation guide, product labels, alignment sticker, L-shaped wrench, screw pack, waterproof accessory pack, sunshield, conduit bracket, I/O cable

DORI (EN 62676-4 Standard)

Detect (25PPM/ 8PPF)	Wide: 42.5 m (139.3 ft) Tele: 96 m (315.1 ft)
Observe (63PPM/ 19PPF)	Wide: 17 m (55.7 ft) Tele: 38.4 m (126.0 ft)
Recognize (125PPM/ 38PPF)	Wide: 8.4 m (27.7 ft) Tele: 19.2 m (63.0 ft)
Identify (250PPM/ 76PPF)	Wide: 4.1 m (13.6 ft) Tele: 9.6 m (31.4 ft)

Dimensions

Ø 173.6 mm

122.6 mm

Compatible Accessories

Mounting Kits

AM-520 (v 05)
Mounting Adapter