



FD9387-FR-v2

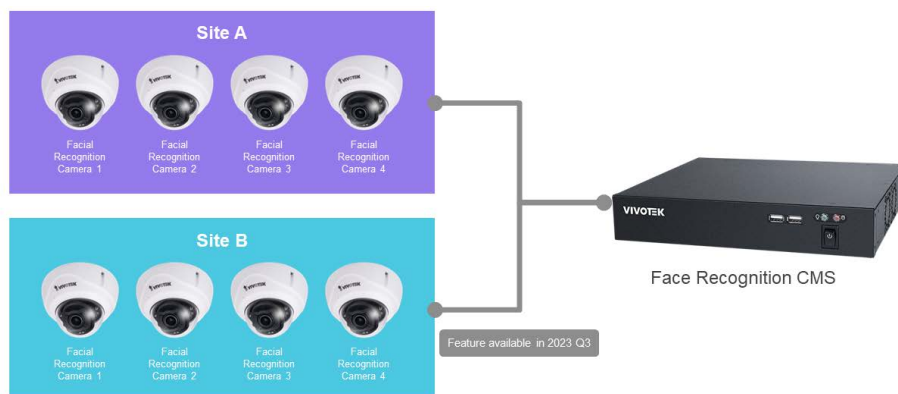
Fixed Dome Facial Recognition Camera

5MP 30fps • Facial Recognition • Up to 10,000 Facial Profiles • SNV • WDR Pro • 50M IR • Smart IR II

- Facial recognition accuracy up to 99%
- Camera stores up to 10,000 profiles
- Automatic stranger detection to reduce friction for management
- Privacy mode to safeguard user privacy and ensures information is not shared without consent
- Event integration with VIVOTEK VAST Security Station, Milestone, Genetec, and March Networks
- Cyber Protection via Trend Micro IoT Security
- WDR Pro for Unparalleled Visibility in Extremely Bright and Dark Environments
- 30 fps @ 2560x1920
- SNV (Supreme Night Visibility) for Low Light Conditions
- Weather-proof IP66, IP67 and Vandal-proof IK10-rated Housing



System Architecture



Key Features

10,000 Faces on the edge

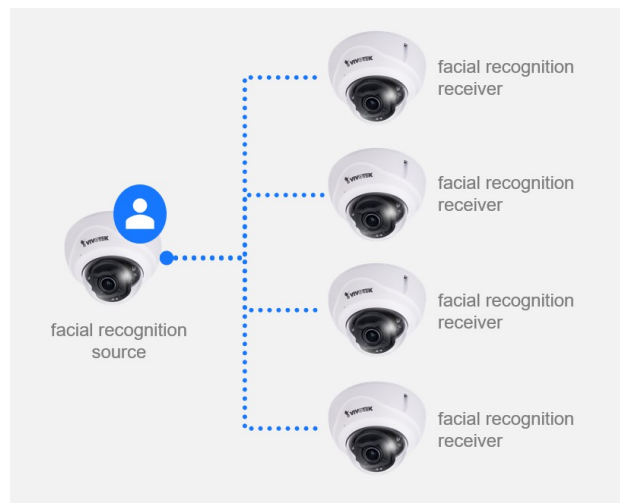
With 99% facial recognition accuracy, the FD9387-FR-v2 is a powerful tool for accurate facial detection and person of interest control across multiple locations. The camera itself can hold up to 10,000 facial profiles.



Serverless facial recognition infrastructure up to 5 cameras

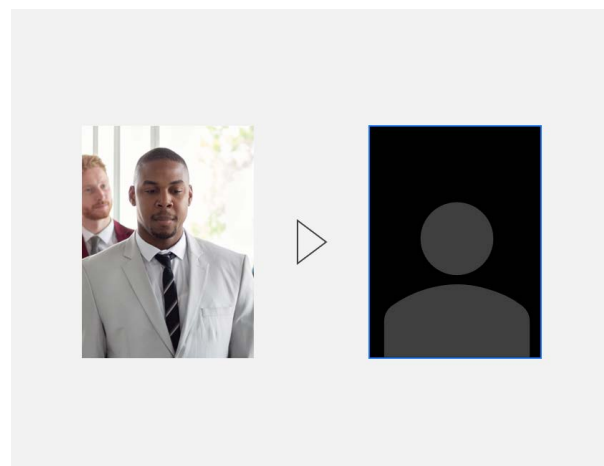
FD9387-FR-v2 can operate fully without middleware or FTP server, this reduces the operational overhead and allows you to focus on your core business functions.

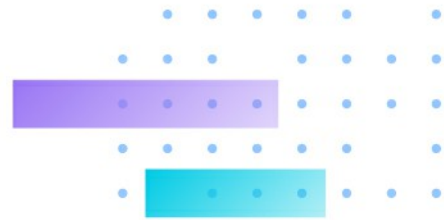
With a single FD9387-FR-v2, you can store up to 10,000 facial profiles in a serverless architecture. You only need to manage and maintain the database in one camera, and it will automatically synchronize with other facial recognition cameras.



Privacy mode

For enterprise or privacy sensitive region, this protects personal privacy and refrain from sending snapshots of person of interest (POI). Instead, user can choose to hide POI information on the web or disable picture sharing with third-party systems. This helps to safeguard user privacy and ensures that sensitive information is not shared without their consent.





Technical Specifications

System Information

Model	FD9387-FR-v2
CPU	Multimedia SoC (System-on-Chip)
Flash	eMMC 1GB
RAM	DDR4 2GB

Camera Features

Image Sensor	1/2.8" Progressive CMOS
Max. Resolution	2560x1920 (5MP)
Lens Type	Motorized, Vari-focal, Remote Focus
Focal Length	f = 2.7 ~ 13.5 mm
Aperture	F1.4 ~ F2.8
Iris Type	P-iris
Field of View	95° ~ 30° (Horizontal) 70° ~ 23° (Vertical) 128° ~ 38° (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 illuminators, effective up to 50 meters with Smart IR II, IR LED*4
Minimum Illumination	0.075 lux @ F1.4 (Color) <0.01 lux @ F1.4 (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/SDKC card (1TB capacity supported) and recording to network-attached storage (NAS)
Built-in Installation Aids	Remote focus, remote zoom

Video

Video Compression	H.265, H.264, MJPEG
Maximum Frame Rate	30 fps @ 2560x1920 (WDR Pro on)
Maximum Streams	3 video streams (Up to 9 configurable profiles)
S/N Ratio	61 dB
Dynamic Range	120 dB
Video Streaming	Adjustable resolution, quality and bit rate control, Smart Stream II

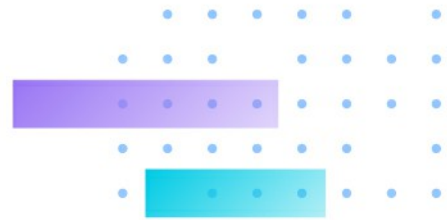
Image Settings	General settings: video title and time stamp overlay, video orientation (flip, mirror, rotation), day/night settings; Illuminators: illuminators, anti-overexposure, Smart IR II; Image settings: white balance, image adjustment (brightness, contrast, saturation, sharpness, gamma curve), defog, 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
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Audio

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

Network

Users	Live viewing for up to 10 clients
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Security	Access list, 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 (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

Alarm and Event

Event Trigger	Audio detection, camera tampering detection, cybersecurity events (brute force attack event, cyberattack event, quarantine event), digital input, manual trigger, 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

General

Connectors	RJ-45 cable connector for 10/100 Mbps PoE network connection Audio line input Audio line output DC 12V power input/AC 24V power input Digital input*2 Digital output*1
LED Indicator	System power and status indicator
Power Input	AC 24V/DC 12V, IEEE 802.3at PoE Class 4 (Power Redundancy)
Power Consumption	DC12V: Max 23/18W (IR ON/OFF) Max Current: 1.92A PoE Max: 22.5W/18W (IR ON/OFF) 42.5-57.0V Max Current: 0.53A-0.4A AC24V Max: 21W/16W (IR ON/OFF) Max Current: 1.4A
Dimensions	Ø 155 x 103.2 mm
Weight	909 g
Certifications	EMC: CE (EN 55032 Class A, EN 55035), FCC (FCC Part 15 Subpart B Class A), UKCA (BS EN 55032:2015+A11: 2020, BS EN 55035:2017+A11:2020, BS EN IEC 62368-1:2020+A11:2020), RCM (AS/NZS CISPR 32 Class A), VCCI (VCCI-CISPR 32 Class A), ICES-003 Issue 7; Safety: UL (UL 62368-1), CB (IEC/EN 62368-1, IEC/EN 60950-22, IEC/EN 62471); Environment: IK10 (IEC 62262), IP66/67 (IEC 60529), IA: BIS (IS 13252), BSMI (EMC: CNS 13438, Safety: CNS 14336-1)
Operating Temperature	Starting Temperature: -30°C ~ 60°C (14°F ~ 140°F) Working Temperature: -30°C ~ 60°C (-22°F ~ 140°F) (IR off) -30°C ~ 50°C (-22°F ~ 122°F) (IR on)
Humidity	98% RH (non-condensing)

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

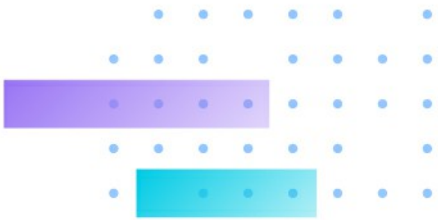
Included Accessories

Packing Contents	Quick installation guide, alignment sticker, L-shaped wrench, screw pack, waterproof accessory pack
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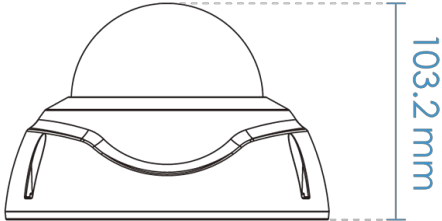
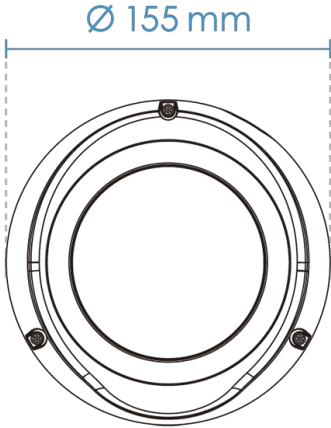
Technical Specifications - Application

Facial Recognition

Performance	Up to 99% accuracy; supports recognition with mask; gender and age estimation; privacy mode.
Numbers of face captures	30 faces per second
Profile database	Up to 10,000 profiles
Automatic create profile for stranger	Yes
Integration	ONVIF profile S event push; HTTP/HTTPS Push in JSON format.



Dimensions



Compatible Accessories

Mounting Kits



AM-21A
L-shape Bracket

Mounting Kits



AM-51C
Adapting Plate

Mounting Kits



AM-525
Mounting Adapter

Mounting Kits



AM-713
Conduit Box (IP66)

