



V series **FD9389-HV/EHV**
V series **FD9389-HMV/EH MV**
V series **FD9389-HTV/EHTV**
Fixed Dome Network Camera



5MP 30 fps • 2MP 60 fps • H.265 • 30M IR • WDR Pro • SNV • Smart Stream III • IP66 • IK10

VIVOTEK's FD9389 series is a H.265 outdoor dome network camera equipped with a 5-Megapixel sensor, enabling resolution of 2560 x1920 at 30 fps. Featuring VIVOTEK SNV and WDR Pro technology, the FD9389 series is capable of capturing high-quality imagery in both high-contrast and low-light environments.

The FD9389 series offers various lens options for different user scenarios: fixed focus, manual focus, and remote focus lenses. The camera is equipped with IR illuminators with a 30-meter effective range for better night visibility. To provide reliable coverage in harsh outdoor environments, the FD9389 series is encased in IP66 and IK10 housing.

The FD9389 series comes with VIVOTEK's Smart Stream III technology and H.265 codec support. It is capable of reducing bandwidth consumption to 90%* while maintaining supreme image quality. Additionally, VIVOTEK's VADP (VIVOTEK Application Development Platform) allows users to customize applications for the ever-expanding number of user scenarios in the diversified surveillance market.

* Depending on scenes

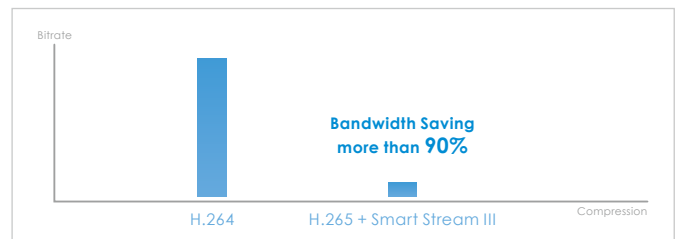
Key Features

- 30 fps @ 2560x1920, 60 fps @ 1920x1080 (WDR Pro on)
- H.265 Compression Technology
- Smart Stream III to Optimize Bandwidth Efficiency
- WDR Pro (120 dB) for Unparalleled Visibility in Extremely Bright and Dark Environments
- SNV (Supreme Night Visibility) for Low Light Conditions
- Built-in IR Illuminators, effective up to 30 Meters
- Smart IR Technology to Avoid Overexposure
- Trend Micro IoT Security within Standard Warranty Period
- Weather-proof IP66-rated and Vandal-proof IK10-rated Housing



Without WDR Pro

With WDR Pro



H.265 + Smart Stream III, Ultra-low Bandwidth

Technical Specifications

Model	FD9389-HV FD9389-EHV FD9389-HMV FD9389-EHVMV FD9389-HTV FD9389-EHTV	Storage	Seamless Recording to MicroSD/SDHC/SDXC card and recording to network-attached storage (NAS)
System Information		Built-in Installation Aids	FD9389-HTV/EHTV: Remote focus, remote zoom
CPU	Multimedia SoC (System-on-Chip)	Video	
Flash	128 MB	Compression	H.265, H.264, MJPEG
RAM	512 MB	Maximum Frame Rate	30 fps @ 2560x1920 60 fps @ 1920x1080
Camera Features		Maximum Streams	3 video streams (Up to 8 configurable profiles)
Image Sensor	1/2.7" Progressive CMOS	S/N Ratio	FD9389-HV/EHV: 54 dB FD9389-HMV/EHVMV: 51 dB FD9389-HTV/EHTV: 55 dB
Max. Resolution	2560x1920 (5MP)	Dynamic Range	120 dB
Lens Type	FD9389-HV/EHV: Fixed-focal FD9389-HMV/EHVMV: Vari-focal, Manual Focus FD9389-HTV/EHTV: Motorized, Vari-focal, Remote Focus	Video Streaming	Adjustable resolution, quality and bitrate, Smart Stream III
Focal Length	FD9389-HV/EHV: f = 2.8 mm FD9389-HMV/EHVMV: f = 2.8 ~ 12mm FD9389-HTV/EHTV: f = 3.7 ~ 7.7mm	Image Settings	General settings: video title and time stamp overlay, video orientation (flip, mirror, rotation), day/night settings; Illuminators: illuminators, anti-overexposure; Image settings: white balance, image adjustment (brightness, contrast, saturation, sharpness, gamma curve), defog, 3DNR, HLM, DIS, scene mode (auto, deblur); Exposure: BLC, HLC, exposure control, AE speed adjustment, WDR; Focus (FD9389-HTV/EHTV): zoom, focus; Privacy mask; Scheduled profile settings
Aperture	FD9389-HV/EHV: F2.0 FD9389-HMV/EHVMV: F1.85 (W) ~ F2.9 (T) FD9389-HTV/EHTV: F1.9 (W) ~ F2.9 (T)	Audio Capability	One-way Audio
Iris type	FD9389-HV/EHV/HTV/EHTV: Fixed iris FD9389-HMV/EHVMV: DC-iris	Compression	G.711, G.726
Field of View	FD9389-HV/EHV: 103° (Horizontal) 76° (Vertical) 134° (Diagonal) FD9389-HMV/EHVMV: 100° ~ 30° (Horizontal) 72° ~ 23° (Vertical) 135° ~ 38° (Diagonal) FD9389-HTV/EHTV: 80° ~ 38° (Horizontal) 60° ~ 29° (Vertical) 101° ~ 48° (Diagonal)	Interface	Built-in microphone
Shutter Time	1/5 sec. to 1/32,000 sec.	Effective Range	5 meters
WDR Technology	WDR Pro	Network	
Day/Night	Yes	Users	Live viewing for up to 10 clients
Removable IR-cut filter	Yes	Security	Access list, digest authentication, HTTPS, IEEE 802.1x, Password protection, signed firmware, Trend Micro IoT Security (brute force attack event, cyberattack event, quarantine event), user access log, user account management
Illuminators	Built-in IR illuminators, effective up to 30 meters with Smart IR, IR LED*4	Protocols	802.1X, ARP, Bonjour, CIFS/SMB, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IGMPv3, IPv4, IPv6, NTP, PPPoE, QoS (CoS/DSCP), RTSP/RTP/RTCP, SMTP, SNMP, SSL, TCP/IP, TLS 1.2, UDP, UPnP
Minimum Illumination	FD9389-HV/EHV: 0.06 lux @ F2.0 (Color) 0.01 lux @ F2.0 (B/W) FD9389-HMV/EHVMV: 0.06 lux @ F1.85 (Color) 0.01 lux @ F1.85 (B/W) FD9389-HTV/EHTV: 0.06 lux @ F1.9 (Color) 0.01 lux @ F1.9 (B/W) 0 lux with IR illumination on	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.
Pan Range	353°	ONVIF	Profile G, S, T supported, specification available at www.onvif.org
Tilt Range	80°	Solution Integration	
Rotation Range	350°	Smart Motion Detection	FD9389-HV/EHV/HTV/EHTV: Five-window video motion detection, people detection, time filter
Pan/Tilt/Zoom Functionalities	ePTZ: 48x digital zoom (4x on IE plug-in, 12x built-in)		

Technical Specifications

Video Motion Detection	FD9389-HMV/EHMY: Five-window video motion detection
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), Trend Micro IoT Security (3-year free trial) *Smart Motion Detection is only for FD9389-HV/EHV, FD9389-HTV/EHTV.

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	Event notification via email, HTTP, FTP, NAS server, SD card File upload via email, HTTP, FTP, NAS server, SD card

General

Connectors	RJ-45 cable connector for Network 10/100 Mbps PoE connection
LED Indicator	System power and status indicator
Power Input	FD9389-HV/HMV/HTV: IEEE 802.3af PoE Class 0 FD9389-EHV/EHMY/EHTV: IEEE 802.3at PoE Class 4
Power Consumption	FD9389-HV: Max. 8.7 W (IR on) Max. 5.7 W (IR off) FD9389-EHV: Max. 21.8 W (Heater on) Max. 8.7 W (Heater off) FD9389-HMV: Max. 8.3 W (IR on) Max. 5.3 W (IR off) FD9389-EHMY: Max. 21.4 W (Heater on) Max. 8.3 W (Heater off) FD9389-HTV: Max. 10.45 W (IR on) Max. 7.45 W (IR off) FD9389-EHTV: Max. 23.55 W (Heater on) Max. 10.45 W (Heater off)

Dimensions	Ø 129 x 94 mm
Weight	610 g
Certifications	EMC: CE (EN55032 Class B, EN55024, EN61000-3), FCC (FCC Part 15 Subpart B Class B), RCM (AS/NZS CISPR 32), VCCI (VCCI-CISPR 32 Class B); 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) for FD9389-HV
Operating Temperature	FD9389-HV/HMV/HTV: Starting Temperature: -10°C ~ 60°C (14°F ~ 140°F) Working Temperature: -30°C ~ 60°C (-22°F ~ 140°F) FD9389-EHV/EHMY/EHTV: Starting Temperature: -40°C ~ 60°C (-40°F ~ 140°F) Working Temperature: -50°C ~ 60°C (-58°F ~ 140°F)
Humidity	90%
Warranty	36 months

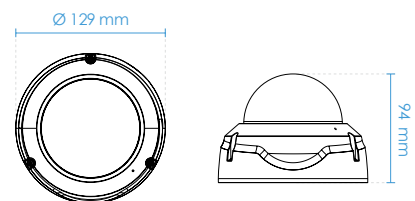
System Requirements

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

Included Accessories





Packing Contents	Quick installation guide, alignment sticker, screw pack
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Dimensions



Compatible Accessories

Mounting Kits

 <p>AM-21A L-shape Bracket</p>	 <p>AM-51D Adapting Plate</p>	 <p>AM-528 Mounting Adaptor</p>	 <p>AM-71B Outdoor Conduit Box</p>
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Ordering Information

Model	Description	Part Number
FD9389-HV	5MP, 30fps, 2.8mm, 30M IR, Smart Stream III, -30°C ~ 60°C	100208000G
FD9389-HMV*	5MP, 30fps, 2.8~12mm, 30M IR, Smart Stream III, -30°C ~ 60°C	100208100G
FD9389-HTV*	5MP, 30fps, 3.7~7.7mm, 30M IR, Smart Stream III, -30°C ~ 60°C	100208200G
FD9389-EHV*	5MP, 30fps, 2.8mm, 30M IR, Smart Stream III, -50°C ~ 60°C	100207700G
FD9389-EHMV*	5MP, 30fps, 2.8~12mm, 30M IR, Smart Stream III, -50°C ~ 60°C	100207800G
FD9389-EHTV*	5MP, 30fps, 3.7~7.7mm, 30M IR, Smart Stream III, -50°C ~ 60°C	100207900G
FD9389-HV (w/ cable)*	5MP, 30fps, 2.8mm, 30M IR, Smart Stream III, -30°C ~ 60°C, w/ cable	100207400G
FD9389-HMV (w/ cable)*	5MP, 30fps, 2.8~12mm, 30M IR, Smart Stream III, -30°C ~ 60°C, w/ cable	100207500G
FD9389-HTV (w/ cable)*	5MP, 30fps, 3.7~7.7mm, 30M IR, Smart Stream III, -30°C ~ 60°C, w/ cable	100207600G

*The stock levels may vary by region. Please contact your local sales representative for further inquiry.