



**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

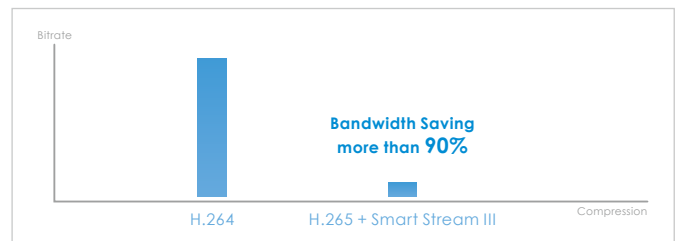
### Key Features

- 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-EHMV* FD9389-HTV* FD9389-EHTV* *Available by project request	Pan/Tilt/Zoom Functionalities	ePTZ: 48x digital zoom (4x on IE plug-in, 12x built-in)
		On-board Storage	Slot type: MicroSD/SDHC/SDXC card slot Seamless Recording
<b>System Information</b>			
CPU	Multimedia SoC (System-on-Chip)		
Flash	128MB		
RAM	512MB		
<b>Camera Features</b>			
Image Sensor	1/2.7" Progressive CMOS		
Max. Resolution	2560x1920 (5MP)		
Lens Type	FD9389-HV/EHV: Fixed-focal FD9389-HMV/EHMV: Vari-focal, Manual Focus FD9389-HTV/EHTV: Motorized, Vari-focal, Remote Focus		
Focal Length	FD9389-HV/EHV: f = 2.8 mm FD9389-HMV/EHMV: f = 2.8 ~ 12 mm FD9389-HTV/EHTV: f = 3.7 ~ 7.7 mm		
Aperture	FD9389-HV/EHV: F2.0 FD9389-HMV/EHMV: F1.85 ~ F2.9 FD9389-HTV/EHTV: F1.9 ~ F2.9		
Iris type	FD9389-HV/EHV/HTV/EHTV: Fixed-iris FD9389-HMV/EHMV: DC-iris		
Field of View	FD9389-HV/EHV: 103° (Horizontal) 76° (Vertical) 134° (Diagonal) FD9389-HMV/EHMV: 30° ~ 100° (Horizontal) 23° ~ 72° (Vertical) 38° ~ 135° (Diagonal) FD9389-HTV/EHTV: 38° ~ 80° (Horizontal) 29° ~ 60° (Vertical) 48° ~ 101° (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 30 meters with Smart IR, IR LED*4		
Minimum Illumination	FD9389-HV/EHV: 0.06 Lux @ F2.0 (Color) 0.01 Lux @ F2.0 (B/W) 0 Lux with IR illumination on FD9389-HMV/EHMV: 0.06 Lux @ F1.85 (Color) 0.01 Lux @ F1.85 (B/W) 0 Lux with IR illumination on FD9389-HTV/EHTV: 0.06 Lux @ F1.9 (Color) 0.01 Lux @ F1.9 (B/W) 0 Lux with IR illumination on		
Pan Range	353°		
Tilt Range	80°		
Rotation Range	350°		
		Video	
		Compression	H.265, H.264, MJPEG
		Maximum Frame Rate	30 fps @ 2560x1920 60 fps @ 1920x1080
		Maximum Streams	3 simultaneous streams
		S/N Ratio	FD9389-HV/EHV: 54 dB FD9389-HMV/EHMV: 51 dB FD9389-HTV/EHTV: 55 dB
		Dynamic Range	120 dB
		Video Streaming	Adjustable resolution, quality and bitrate, Smart Stream III
		Image Settings	Time stamp, text overlay, flip & mirror; Configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks; Scheduled profile settings, HLC, defog, 3DNR, DIS, video rotation
		<b>Audio</b>	
		Audio Capability	One-way Audio
		Compression	G.711, G.726
		Interface	Built-in microphone
		Effective Range	5 meters
		<b>Network</b>	
		Users	Live viewing for up to 10 clients
		Protocols	802.1X, ARP, CIFS/SMB, CoS, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IGMP, IPv4, IPv6, NTP, PPPoE, QoS, RTSP/RTP/RTCP, SMTP, SNMP, SSL, TCP/IP, TLS, 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	Supported, specification available at <a href="http://www.onvif.org">www.onvif.org</a>
		<b>Intelligent Video</b>	
		Smart Motion Detection	FD9389-HV/EHV/HTV/EHTV: Five-window video motion detection, people detection, time filter
		Video Motion Detection	FD9389-HMV/EHMV: Five-window video motion detection
		VCA	Standard VCA (optional) *Including line crossing detection, field detection, loitering detection
		VADP Package	Genetec Package, Trend Micro IoT Security, Smart Motion Detection*, Stratocast(support) *Smart Motion Detection is only for FD9389-HV/EHV, FD9389-HTV/EHTV.
		<b>Alarm and Event</b>	

## Technical Specifications

Alarm Triggers	Motion detection, manual trigger, periodical trigger, system boot, recording notification, camera tampering detection, audio detection, MicroSD card life expectancy, shock detection, cybersecurity events (block brute force attack, block cyber attack, quarantine event)
Alarm Events	Event notification using HTTP, SMTP, FTP, NAS server and MicroSD card File upload via HTTP, SMTP, FTP, NAS server and MicroSD card
<b>General</b>	
Connectors	RJ-45 cable connector for Network 10/100 Mbps PoE connection*1
LED Indicator	System power and status indicator
Power Input	FD9389-HV/HMV/HTV: IEEE 802.3af PoE Class 0 FD9389-EHV/EHVMV/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-EHVMV: 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 93.8 mm
Weight	610 g
Casing	IP66, IK10

Safety Certifications	CE, FCC Class A, UL, LVD, VCCI, C-Tick
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/EHVMV/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

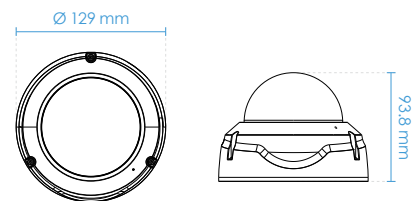
### System Requirements

Operating System	Microsoft Windows 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 QuickTime: 7 or above

### Included Accessories

Others	Quick installation guide, alignment sticker, screw pack
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### Dimensions



## Compatible Accessories

### Mounting Kits



AM-21A  
L-shape Bracket



AM-528  
Mounting Adaptor

## 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

\*Available by project request