VIVOTEK

FD9389-HV/EHV
FD9389-HMV/EHMV
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.
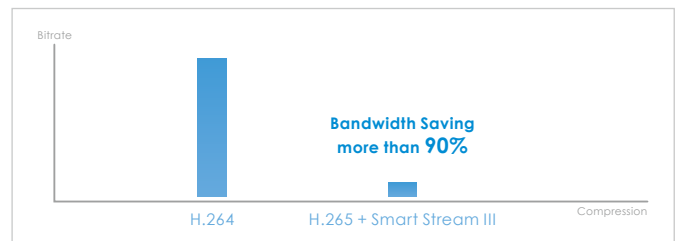
* Depending on scenes

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

Bandwidth Saving
more than **90%**

Bitrate

H.264   H.265 + Smart Stream III   Compression

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

Technical Specifications

Model	FD9389-HV FD9389-EHV FD9389-HMV FD9389-EHMV FD9389-HTV FD9389-EHTV

System Information

CPU	Multimedia SoC (System-on-Chip)
Flash	128MB
RAM	512MB

Camera Features

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°

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

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

Audio

Audio Capability	One-way Audio
Compression	G.711, G.726
Interface	Built-in microphone
Effective Range	5 meters

Network

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 www.onvif.org

Intelligent Video

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	Trend Micro IoT Security, Smart Motion Detection*, Stratocast(support) *Smart Motion Detection is only for FD9389-HV/EHV, FD9389-HTV/EHTV.

Alarm and Event

Technical Specifications

Alarm Triggers	Motion detection, manual trigger, periodical trigger, system boot, recording notification, camera tampering detection, audio detection, SD card life expectancy, shock detection, cybersecurity events (brute force attack event, cyberattack event, quarantine event)
Alarm Events	Event notification via email, HTTP, SMTP, FTP, NAS server and 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*1
LED Indicator	System power and status indicator
Power Input	FD9389-HV/HMV/HTV: IEEE 802.3af PoE Class 0 FD9389-EHV/EHMV/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-EHMV: 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

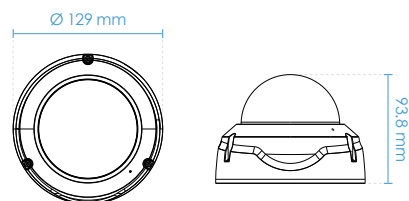|	
Operating Temperature	FD9389-HV/HMV/HTV: Starting Temperature: -10°C ~ 60°C (14°F ~ 140°F) Working Temperature: -30°C ~ 60°C (-22°F ~ 140°F) FD9389-EHV/EHMV/EHTV: Starting Temperature: -40°C ~ 60°C (-40°F ~ 140°F) Working Temperature: -50°C ~ 60°C (-58°F ~ 140°F)
Humidity	90%
Warranty	36 months

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

Dimensions

Compatible Accessories

Mounting Kits			
AM-21A L-shape Bracket	AM-51D Adapting Plate	AM-528 Mounting Adaptor	AM-71B Outdoor Conduit Box

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.