



V series **FD9189-H**
V series **FD9189-HM**
V series **FD9189-HT**

Fixed Dome Network Camera



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

VIVOTEK's FD9189 series is a H.265 indoor 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 FD9189 series is capable of capturing high-quality imagery in both high-contrast and low-light environments.

The FD9189 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.

The FD9189 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

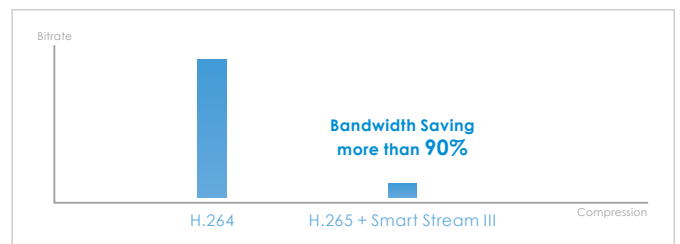
Key Features

- 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
- Built-in MicroSD/SDHC/SDXC Card Slot for On-board Storage



Without WDR Pro

With WDR Pro

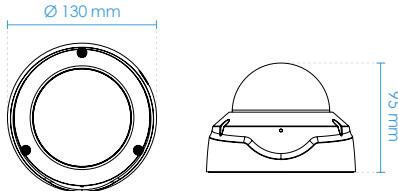


H.265 + Smart Stream III, Ultra-low Bandwidth

Technical Specifications

Model	FD9189-H FD9189-HM FD9189-HT	Storage	Seamless Recording to MicroSD/SDHC/SDXC card and recording to network-attached storage (NAS)
System Information		Built-in Installation Aids	FD9189-HT: 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	FD9189-H: 54 dB FD9189-HM: 51 dB FD9189-HT: 55 dB
Max. Resolution	2560x1920 (5MP)	Dynamic Range	120 dB
Lens Type	FD9189-H: Fixed-focal FD9189-HM: Vari-focal, Manual Focus FD9189-HT: Motorized, Vari-focal, Remote Focus	Video Streaming	Adjustable resolution, quality and bitrate, Smart Stream III
Focal Length	FD9189-H: f = 2.8 mm FD9189-HM: f = 2.8 ~ 12 mm FD9189-HT: f = 3.7 ~ 7.7 mm	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 (FD9189-HT): zoom, focus; Privacy mask; Scheduled profile settings
Aperture	FD9189-H: F2.0 FD9189-HM: F1.85 ~ F2.9 FD9189-HT: F1.9 ~ F2.9		
Iris type	FD9189-H/HT: Fixed iris FD9189-HM: DC-iris	Audio	
Field of View	FD9189-H: 103° (Horizontal) 76° (Vertical) 134° (Diagonal) FD9189-HM: 100° ~ 30° (Horizontal) 72° ~ 23° (Vertical) 135° ~ 38° (Diagonal) FD9189-HT: 80° ~ 38° (Horizontal) 60° ~ 29° (Vertical) 101° ~ 48° (Diagonal)	Audio Capability	One-way Audio
Shutter Time	1/5 sec. to 1/32,000 sec.	Compression	G.711, G.726
WDR Technology	WDR Pro	Interface	Built-in microphone
Day/Night	Yes	Effective Range	5 meters
Removable IR-cut filter	Yes	Network	
Illuminators	Built-in IR illuminators, effective up to 30 meters with Smart IR, IR LED*4	Users	Live viewing for up to 10 clients
Minimum Illumination	FD9189-H: 0.06 lux @ F2.0 (Color) 0.01 lux @ F2.0 (B/W) 0 lux with IR illumination on FD9189-HM: 0.06 lux @ F1.85 (Color) 0.01 lux @ F1.85 (B/W) 0 lux with IR illumination on FD9189-HT: 0.06 lux @ F1.9 (Color) 0.01 lux @ F1.9 (B/W) 0 lux with IR illumination on	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
Pan Range	353°	Protocols	802.1X, ARP, Bonjour, CIFS/SMB, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IGMPv3, IPv4, IPv6, NTP, PPPoE, QoS (CoS/DSCP), RTSP/RTMP/RTCP, SMTP, SNMP, SSL, TCP/IP, TLS 1.2, UDP, UPnP
Tilt Range	80°	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.
Rotation Range	350°	ONVIF	Profile G, S, T supported, specification available at www.onvif.org
Pan/Tilt/Zoom Functionalities	ePTZ: 48x digital zoom (4x on IE plug-in, 12x built-in)	Solution Integration	
		Smart Motion Detection	FD9189-H/HT: Five-window video motion detection, people detection, time filter
		Video Motion Detection	FD9189-HM: Five-window video motion detection

Technical Specifications

Smart VCA	Intrusion detection, loitering detection, line crossing detection, unattended object detection, missing object detection, face detection, crowd detection, running detection	Dimensions	Ø 130 x 95 mm
VADP Package	Deep Learning VCA (*Smart Motion Detection, Smart VCA), Trend Micro IoT Security (3-year free trial) *Smart Motion Detection is only for FD9189-H, FD9189-HT.	Weight	360 g
Alarm and Event		Certifications	EMC: CE (EN 55032 Class B, EN 55024), 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); IA: BIS (IS 13252) for FD9189-H
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	Humidity	90%
Event Action	"Event notification via email, HTTP, FTP, NAS server, SD card File upload via email, HTTP, FTP, NAS server, SD card"	Warranty	36 months
General		System Requirements	
Connectors	RJ-45 cable connector for Network 10/100 Mbps PoE connection	Operating System	Microsoft Windows 10/8/7 Mac 10.12 (Chrome only)
LED Indicator	System power and status indicator	Web Browser	Chrome 58.0 or above Internet Explorer 10/11
Power Input	IEEE 802.3af PoE Class 0	Other Players	VLC: 1.1.11 or above
Power Consumption	FD9189-H: Max. 8.7 W (IR on) Max. 5.7 W (IR off) FD9189-HM: Max. 8.3 W (IR on) Max. 5.3 W (IR off) FD9189-HT: Max. 8.7 W (IR on) Max. 5.7 W (IR off)	Included Accessories	
		Packing Contents	Quick installation guide, alignment sticker, screw pack
		Dimensions	
			

Compatible Accessories

Mounting Kits		
 <p>AM-21A L-shape Bracket</p>	 <p>AM-51D Adapting Plate</p>	 <p>AM-528 Mounting Adaptor</p>

Ordering Information

Model	Description	Part Number
FD9189-H	5MP, 30fps, 2.8mm, 30M IR, Smart Stream III, -10°C ~ 50°C	100207100G
FD9189-HM*	5MP, 30fps, 2.8~12mm, 30M IR, Smart Stream III, -10°C ~ 50°C	100207200G
FD9189-HT*	5MP, 30fps, 3.7~7.7mm, 30M IR, Smart Stream III, -10°C ~ 50°C	100207300G

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



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