Manuals+ — User Manuals Simplified.

VIVOTEK Fixed Dome Network Camera User Manual

VIVOTEK 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

Contents

Key Features

- 30 fps @ 2560×1920, 60 fps @ 1920×1080 (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
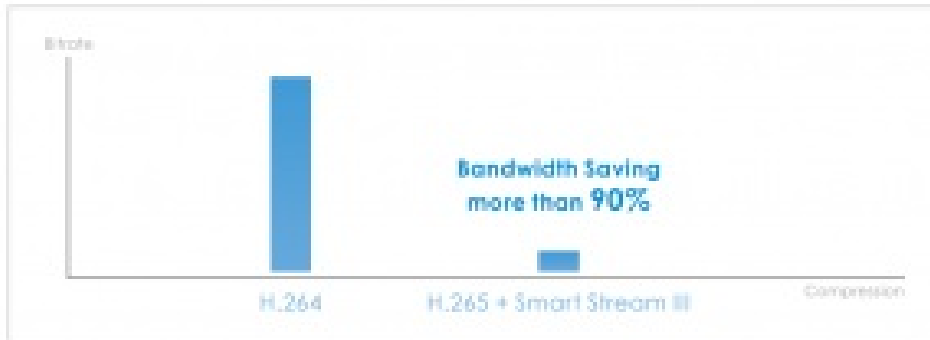
H.265 + Smart Stream III, Ultra-low Bandwidth

Technical Specifications

Model	FD9189-H FD9189-HM FD9189-HT

System Information

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

Camera Features

Image Sensor	1/2.7″ Progressive CMOS
Max. Resolution	2560×1920 (5MP)
Lens Type	FD9189-H: Fixed-focal FD9189-HM: Vari-focal, Manual Focus FD9189-HT: Motorized, Vari-focal, Remote Focus

Focal Length	FD9189-H: f = 2.8 mm FD9189-HM: f = 2.8 ~ 12 mm FD9189-HT: f = 3.7 ~ 7.7 mm
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
Field of View	FD9189-H: 103° (Horizontal) 76° (Vertical) 134° (Diagonal) FD9189-HM: 30° ~ 100° (Horizontal) 23° ~ 72° (Vertical) 38° ~ 135° (Diagonal) FD9189-HT: 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 Illuminator	Built-in IR illuminators, effective up to 30 meters with Smart IR, IR LED*4

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
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 @ 2560×1920 60 fps @ 1920×1080
Maximum Streams	3 simultaneous streams
S/N Ratio	FD9189-H: 54 dB FD9189-HM: 51 dB FD9189-HT: 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	FD9189-H/HT: Five-window video motion detection, people detection, time filter
Video Motion Detection	FD9189-HM: 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 FD9189-H, FD9189-HT.

Alarm and Event

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	IEEE 802.3af PoE Class 0
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)
Dimensions	Ø 130 x 95.3 mm
Weight	360 g
Safety Certifications	CE, FCC Class B, UL, LVD, VCCI, C-Tick
Operating Temperature	Starting Temperature: 0°C ~ 50°C (32°F ~ 122°F) Working Temperature: -10°C ~ 50°C (14°F ~ 122°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

Ø 130 mm

95.3 mm
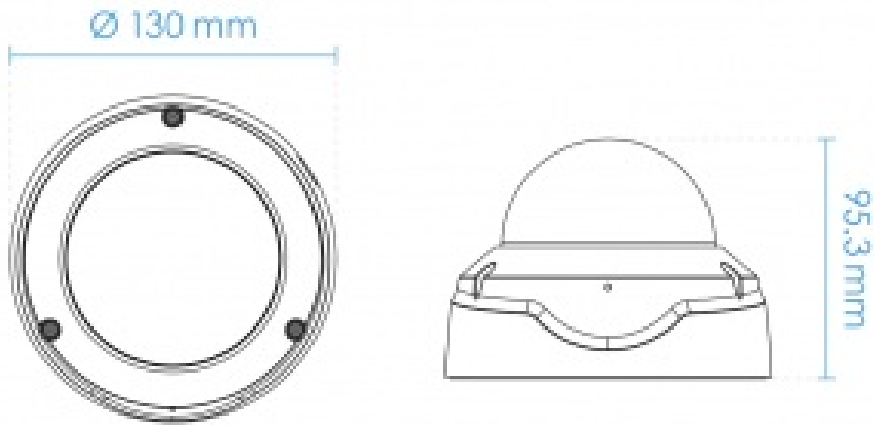
Compatible Accessories

AM-21A
L-shape Bracket

AM-51D
Adapting Plate

AM-528
Mounting Adaptor

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

Documents / Resources

VIVOTEK Fixed Dome Network Camera [pdf] User Manual
FD9189-H, FD9189-HM, FD9189-HT, Fixed Dome Network Camera

References

- ○ **Home - ONVIF**
- **V :: VIVOTEK ::**
- **Vivotek FD9189-HT 5MP Fixed Dome Camera**

Manuals+,