



# **S** FD9165-HT

Fixed Dome Network Camera



2MP 60 fps • SNV II • WDR Pro II • Smart Stream III •  
Smart IR II • 50M IR • PIR

The FD9165-HT is the new flagship indoor dome network camera from VIVOTEK, equipped with a full HD sensor capable of 1920x1080 resolution at 60 fps. With the most updated VIVOTEK SNV and WDR Pro technology, the FD9165-HT is capable of capturing the highest quality images in both low light and high contrast environments.

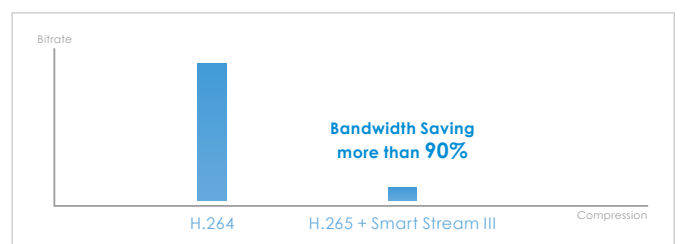
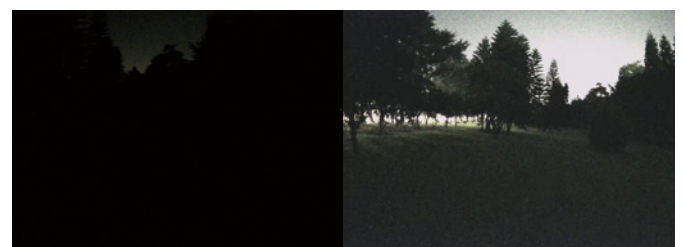
The FD9165-HT also offers the best in night time surveillance technology. By adopting Smart IR II technology from VIVOTEK speed domes, the FD9165-HT IR illuminators now align with the remote focus lens' focus angle to provide the best IR image quality at any lens setting. This feature optimizes IR intensity, reduces IR hotspots, and increases the IR effective range up to 50 meters.

Additionally, the FD9165-HT employs VIVOTEK's Smart Stream III technology and H.265 compression codec, reducing bandwidth more than 90%\* while still maintaining excellent image quality compared to traditional H.264 without smart streaming. Furthermore, the VIVOTEK VADP (VIVOTEK Application Development Platform) allows users to add customized programs for various applications and user scenarios. The FD9165-HT also includes a PIR sensor as well as a built-in microphone, enabling further detection of unexpected events.

\* Depending on scenes

## Key Features

- 60 fps @ 1920x1080
- H.265 Compression Technology
- 4 ~ 9 mm, Remote Focus, P-iris Lens
- Smart Stream III to Optimize Bandwidth Efficiency
- SNV II (Supreme Night Visibility) for Low Light Conditions
- WDR Pro II for Unparalleled Visibility in Extremely Bright and Dark Environments
- Built-in IR Illuminators, Effective up to 50 Meters
- Smart IR II Technology to Avoid Overexposure
- Smart Motion Detection to Reduce False Alarms
- Trend Micro IoT Security



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

## Technical Specifications

Model	FD9165-HT
<b>System Information</b>	
CPU	Multimedia SoC (System-on-Chip)
Flash	128MB
RAM	512MB
<b>Camera Features</b>	
Image Sensor	1/2" Progressive CMOS
Maximum Resolution	1920x1080 (2MP)
Lens Type	Motorized, Vari-focal, Reomte Focus
Focal Length	f = 4 ~ 9 mm (f = 2.8 ~ 11.4 mm, equivalent focal length @ 1/2.8)
Aperture	F1.3 ~ F2.2
Auto-iris	P-iris
Field of View	46° ~ 120° (Horizontal) 26° ~ 60° (Vertical) 53° ~ 152° (Diagonal)
Shutter Time	1/5 sec. to 1/32,000 sec.
WDR Technology	WDR Pro II
Day/Night	Removable IR-cut filter for day & night function
Minimum Illumination	0.01 Lux @ F1.3 (Color), 50IRE 0.002 Lux @ F1.3 (Color), 30IRE <0.005 Lux @ F1.3 (B/W) 0 Lux with IR illumination on
Pan Range	353°
Tilt Range	65°
Rotation Range	180°
Pan/Tilt/Zoom Functionalities	ePTZ: 48x digital zoom (4x on IE plug-in, 12x built-in)
IR Illuminators	Built-in IR illuminators, effective up to 50 meters with Smart IR II, IR LED*4
On-board Storage	Slot type: MicroSD/SDHC/SDXC card slot Seamless Recording
<b>Video</b>	
Compression	H.265, H.264, MJPEG
Maximum Frame Rate	60 fps @ 1920x1080
Maximum Streams	4 simultaneous streams
S/N Ratio	66 dB
Dynamic Range	140 dB
Video Streaming	Adjustable resolution, quality and constant bit rate control, 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, video rotation, 3DNR, DIS, HLC, defog, deblur, metering
<b>Audio</b>	
Audio Capability	Two-way Audio (full-duplex)
Compression	G.711, G.726
Interface	Built-in microphone External microphone input External line output
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>System Integration</b>	
Smart Motion Detection	Five-window video motion detection, people detection, time filter
Smart VCA	Intrusion detection, loitering detection, line crossing detection, unattended object detection, missing object detection, face detection *Please access <a href="http://license.vivotek.com/">http://license.vivotek.com/</a> to get the free trial license.
VADP Package	Trend Micro IoT Security, Deep Learning VCA (Smart Motion Detection, Smart VCA)
<b>Alarm and Event</b>	
Alarm Triggers	Motion detection, manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection, audio detection, PIR detection, shock detection, SD card life expectancy, cybersecurity events (brute force attack event, cyberattack event, quarantine event)
Alarm Events	Event notification via digital output, email, HTTP, FTP, NAS server, SD card File upload via email, HTTP, FTP, NAS server, SD card
<b>General</b>	
Connectors	RJ-45 cable connector for Network/PoE connection Audio input Audio output AC 24V DC 12V Digital input *2 Digital output *2 TV out
LED Indicator	System power and status indicator
Power Input	AC 24V DC 12V IEEE 802.3af PoE Class 0
Power Consumption	Max. 10.7 W
Dimensions	Ø 139 x 104 mm

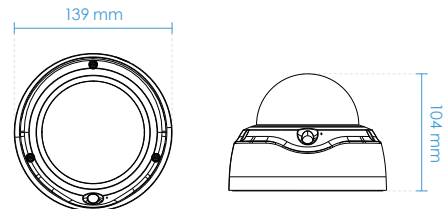
## Technical Specifications

Weight	490 g
Safety Certifications	CE, LVD, FCC Class B, VCCI, C-Tick, UL
Operating Temperature	Starting Temperature: 0°C ~ 50°C (32°F ~ 122°F) Working Temperature (IR off): -10°C ~ 50°C (14°F ~ 122°F) Working Temperature (IR on): -10°C ~ 45°C (14°F ~ 113°F)
Humidity	90%
Warranty	36 months
<b>System Requirements</b>	
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

### Included Accessories

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



## Compatible Accessories

### Mounting Kits

				
AM-105 Ceiling Mount	AM-21A L-shape Bracket	AM-514 Adapting Plate	AM-527 Mounting Adapter	AM-712 Indoor Conduit Box