VIVOTEK

C series

FD9166-HN

Fixed Dome Network Camera

H.265 • 2MP • WDR Pro • 10M Invisible IR • Smart Stream III • PoE • Compact Design

- H.265 Compression Technology
- 30 fps @1920x1080
- WDR Pro for Unparalleled Visibility in High Contrast Environments
- Smart Stream III to Optimize Bandwidth Efficiency
- Built-in 940nm Invisible IR Illuminators up to 10 Meters
- Built-in 802.3af Compliant PoE
- Build-in MicroSD/SDHC/SDXC Card Slot for On-board Storage
- Video Rotation for Corridor Scenario
- Compact and Stylish Design

TREND MICRO

aws qualified device

Technical Specifications

System Information

Model	FD9166-HN(2.8mm) FD9166-HN(3.6mm)
CPU	Multimedia SoC (System-on-Chip)
Flash	128MB
RAM	256MB

Camera Features

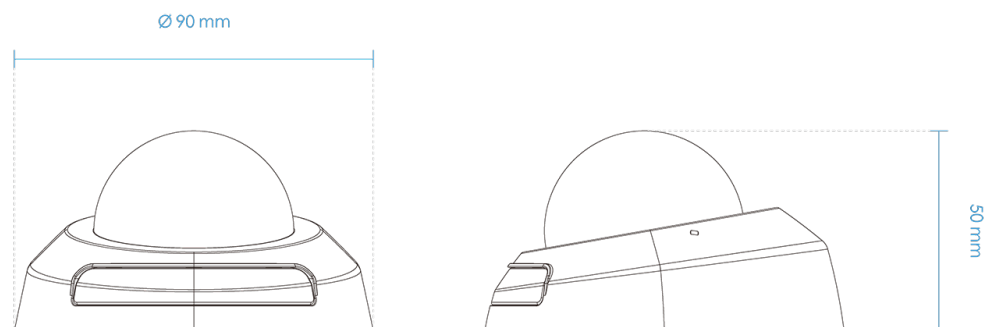|	
Image Sensor	1/2.9" Progressive CMOS
Max. Resolution	1920x1080 (2MP)
Lens Type	Fixed-focal
Focal Length	FD9166-HN(2.8mm): f = 2.8 mm FD9166-HN(3.6mm): f = 3.6 mm
Aperture	FD9166-HN(2.8mm): F1.8 FD9166-HN(3.6mm): F2.0
Auto-iris	Fixed-iris
Field of View	FD9166-HN(2.8mm): 109° (Horizontal) 59° (Vertical) 129° (Diagonal) FD9166-HN(3.6mm): 89° (Horizontal) 47° (Vertical) 105° (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 940nm IR illuminators, effective up to 10 meters with Smart IR, IR LED*4
Minimum Illumination	FD9166-HN(2.8mm): 0.07 Lux @ F1.8 (Color) 0.01 Lux @ F1.8 (B/W) 0 Lux with IR illumination on FD9166-HN(3.6mm): 0.16 Lux @ F2.0 (Color) 0.01 Lux @ F2.0 (B/W) 0 Lux with IR illumination on
Pan Range	±30°
Tilt Range	90°
Rotation Range	±180°
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

Video Compression	H.265, H264, MJPEG
Maximum Frame Rate	30 fps @ 1920x1080
Maximum Streams	3 simultaneous streams
S/N Ratio	FD9166-HN(2.8mm): 68 dB FD9166-HN(3.6mm:): 66 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, 3DNR, video rotation, defog

Audio

Audio Capability	One-way Audio
Audio Compression	G.711, G.726
Audio 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

Solution Integration

Video Motion Detection	Five-window video motion detection
VADP Package	Trend Micro IoT Security, Stratocast

Alarm and Event

Alarm Triggers	Motion detection, manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection, audio detection, SD card life expectancy, cybersecurity events (brute force attack event, cyberattack event, quarantine event)
Alarm Events	Event notification via email, HTTP, FTP, NAS server, SD card File upload via email, HTTP, FTP, NAS server, SD card

General

Connectors	RJ-45 cable connector for 10/100Mbps Network/PoE connection*1 Digital input*1(30V, 1A)
LED Indicator	System power and status indicator
Power Input	IEEE 802.3af PoE Class 2
Power Consumption	Max. 5.5 W (IR on) Max. 2.8 W (IR off)
Dimensions	90 x 50 mm
Weight	150 g
Safety Certifications	CE, LVD, FCC Class B, VCCI, C-Tick, UL
Operating Temperature	Starting Temperature: 0°C ~ 40°C(32°F~ 104°F) Working Temperature: -10°C ~ 55°C(14°F~ 131°F)(IR off) -10°C ~ 50°C(14°F~ 122°F)(IR on)
Humidity	90%
Warranty	24 months

System Requirements

Operating System	Microsoft Windows 8/7 Mac 10.12 (Chrome only)
Web Browser	Chrome 58.0 or above Internet Explorer 11
Other Players	VLC: 1.1.11 or above

Included Accessories

Others	Quick installation guide, screwdriver, alignment sticker, desiccant bag

Dimensions

∅ 90 mm

50 mm

Compatible Accessories

Mounting Kits	**Mounting Kits**
AM-21B	AM-51E
L-shape Bracket	Adapting Plate

Mounting Kits
AM-52B
Mounting Adapter