VIVOTEK

FD8166A

C series

Ultra-mini Fixed Dome Network Camera

2MP · 30 fps · Stylish Design · Easy Installation · Smart Stream II · SNV · 3DNR · WDR Enhanced · Defog · VIVOCloud

VIVOTEK's FD8166A is an ultra-mini fixed dome network camera with a tiny diameter of only 90 mm. Due to its compact and intelligent design and affordable price, the FD8166A is an ideal indoor surveillance solution that suits a wide variety of applications, such as retail, office, or boutiques, or to monitor elevators or other public areas.

Equipped with a 2 megapixel Full HD sensor enabling viewing resolution of 1920x1080 at 30 fps, the FD8166A is capable of capturing high-definition images whether in high contrast or low light environments by deploying WDR and SNV technology. When combined with VIVOTEK's Smart Stream II technology, the FD8166A can reduce both bandwidth and storage consumption by up to 50%* while retaining the same superb image quality as a Full HD camera.

As an all-in-one camera, the FD8166A is designed for easy installation and equipped with Power over Ethernet (PoE) functionality, making setup both quick and simple. The FD8166A is also completely compatible with VIVOTEK's free 32-channel recording software. With all of these benefits and more, the FD8166A is a sure bet to fulfill your surveillance needs.

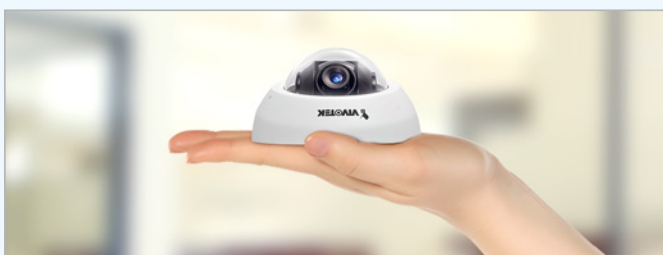* Depending on scene being monitored.

Key Features

- · 2-Megapixel CMOS Sensor
- · 30 fps @ 1920x1080
- · Real-time H.264, MJPEG Compression (Dual Codec)
- · SNV (Supreme Night Visibility) for Low Light Conditions
- · Smart Stream II to Optimize Bandwidth Efficiency
- · WDR Enhancement for Unparalleled Visibility in Extremely Bright and Dark Environments
- · 3D Noise Reduction
- · Built-in IEEE 802.3af Compliant PoE
- · Built-in MicroSD/SDHC/SDXC Card Slot for On-board Storage
- · Defog
- · Compact and Stylish Design
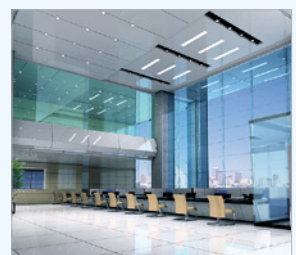- · Easy Installation
- · VIVOCloud Mobile App

Retail

Office

Ultra-mini Size

Boutique

Bank

Technical Specifications

Model	FD8166A
System Information	
CPU	Multimedia SoC (System-on-Chip)
Flash	128MB
RAM	256MB
Camera Features	
Image Sensor	1/2.8" Progressive CMOS
Maximum Resolution	1920x1080 (2MP)
Lens Type	Fixed-focal
Focal Length	f = 2.8 mm
Aperture	F1.8
Field of View	113˚ (Horizontal) 63˚ (Vertical) 136˚ (Diagonal)
Shutter Time	1/5 sec. to 1/32000 sec.
WDR Technology	WDR Enhanced
Minimum Illumination	0.05 Lux @ F1.8
Pan Range	45˚
Tilt Range	33˚ ~ 90˚
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.264 & MJPEG
Maximum Frame Rate	30 fps @ 1920x1080 In both compression
Maximum Streams	4 simultaneous streams
S/N Ratio	47 dB
Dynamic Range	70 dB
Video Streaming	Adjustable resolution, quality and bitrate Smart Stream II
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, 3D noise reduction, video rotation, defog
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	IPv4, IPv6, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE, CoS, QoS, SNMP, 802.1X, UDP, ICMP, ARP, SSL, TLS, CIFS/SMB
Interface	10 Base-T/100 BaseTX 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	
Video Motion Detection	Five-window video motion detection
Alarm and Event	
Alarm Triggers	Motion detection, manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection, audio detection
Alarm Events	Event notification using HTTP, SMTP, FTP, NAS server and MicroSD card File upload via HTTP, SMTP, FTP, NAS server and MicroSD card
General	
Connectors	RJ-45 cable connector for 10/100Mpbs Network/PoE connection Digital input*1
LED Indicator	System power and status indicator
Power Input	IEEE 802.3af PoE Class 1
Power Consumption	Max. 3 W
Dimensions	Ø 90 x 50 mm
Weight	144 g
Safety Certifications	CE, LVD, FCC Class B, 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	24 months
System Requirements	
Operating System	Microsoft Windows 8/7
Web Browser	Internet Explorer 10/11 Chrome version 58.0.3029 or above
Other Players	VLC: 1.1.11 or above Quicktime: 7 or above
Included Accessories	
Others	Quick installation guide, warranty card, screws pack, focus kit

Dimensions

Ø90 mm

23.3 mm

34.7 mm

50 mm

Cloud-based Solution

Stratocast™