VIVOTEK
BUILT WITH RELIABILITY

Ultra-mini Fixed Dome Network Camera
FD8166

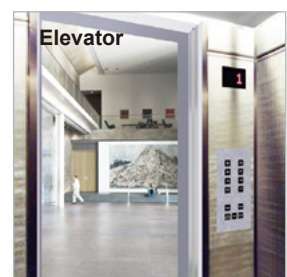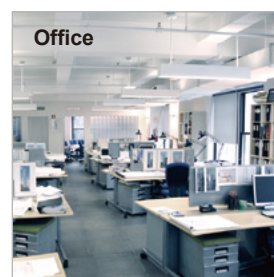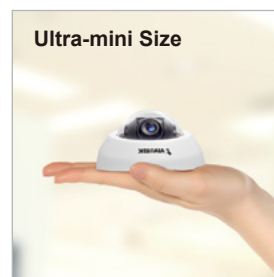## Stylish Design • Easy Installation

VIVOTEK FD8166 is the world's smallest network fixed dome camera. With installation as easy as one-two-three and Power over Ethernet (PoE) functionality, setup time is completed in less than 120 seconds, making installation quick and easy.

The FD8166 features a 2-Megapixel sensor enabling viewing resolution of 1920x1080 at 15 fps, and also supports the industry-standard H.264 compression technology, drastically reducing file sizes and conserving valuable network bandwidth. With MJPEG compatibility also included, video streams can also be transmitted in any of these formats for versatile applications.
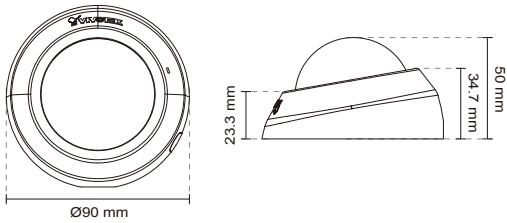
Designed with selectable focal lengths, FD8166 can be used in various environments, including but not limited to offices, elevators, campus, chain stores, boutique stores and health care facilities. At the size of only 90 mm in diameter, VIVOTEK FD8166 is truly an all-in-one surveillance solution that meets a wide variety of needs for indoor surveillance. The package also includes VIVOTEK's 32-channel recording software. With all this and more, the FD8166 is the ideal solution for your surveillance needs.

Features

- 2-Megapixel CMOS Sensor
- 15 fps @ 1920x1080
- Real-time H.264, MJPEG Compression (Dual Codec)
- Built-in IEEE 802.3af Compliant PoE
- Built-in MicroSD/SDHC/SDXC Card Slot for On-board Storage
- Compact and Stylish Design
- Easy Installation

Ultra-mini Size

Retail

Office

Elevator

Technical Specifications

Models	FD8166-F2 (Lens f = 2.8mm) FD8166-F3 (Lens f = 3.6mm) FD8166-F6 (Lens f = 6mm)

System Information

CPU	Multimedia SoC (System-on-Chip)
Flash	16 MB
RAM	256 MB

Camera Features

Image Sensor	1/2.7" Progressive CMOS
Maximum Resolution	1920x1080
Lens Type	Fixed-focal
Focal Length	f = 2.8 mm (FD8166-F2) f = 3.6 mm (FD8166-F3) f = 6 mm (FD8166-F6)
Aperture	F2.0 (FD8166-F2) F1.8 (FD8166-F3) F1.6 (FD8166-F6)
Field of View	FD8166-F2: 121° (horizontal) 68° (vertical) 142° (diagonal) FD8166-F3: 98° (horizontal) 50° (vertical) 111° (diagonal) FD8166-F6 56° (horizontal) 31° (vertical) 64° (diagonal)
Shutter Time	1/5 sec. to 1/32,000 sec.
Minimum Illumination	FD8166-F2: 0.24 Lux, 50 IRE FD8166-F3: 0.14 Lux, 50 IRE FD8166-F6 0.18 Lux, 50 IRE
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	MicroSD/SDHC/SDXC card slot

Video

Compression	H.264 & MJPEG
Maximum Frame Rate	H.264: 15 fps at 1920x1080 30 fps at 1280x720 MJPEG: 15 fps at 1920x1080 30 fps at 1280x720
Maximum Streams	2 simultaneous streams
S/N Ratio	Above 53dB
Video Streaming	Adjustable resolution, quality and bitrate Configurable video cropping for bandwidth saving
Image Settings	Adjustable image size, quality and bit rate Time stamp, text overlay, flip & mirror Configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks Scheduled profile settings

Audio

Audio Capability	Audio input
Compression	G.711
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
Interface	10Base-T/100BaseTX Ethernet (RJ-45) *It is highly recommended to use standard Cat. 5e & Cat. 6 cables which are compliant with the 3P/ETL standard.
ONVIF	Supported, specification available at www.onvif.org

Intelligent Video

Video Motion Detection	Triple-window video motion detection

Alarm and Event

Alarm Triggers	Video motion detection, manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection
Alarm Events	Event notification using HTTP, SMTP, FTP and NAS server File upload via HTTP, SMTP, FTP and NAS server

General

Connectors	RJ-45 for Network/PoE connection Digital input*1
LED Indicator	System power and status indicator
Power Input	IEEE 802.3af PoE Class 1
Power Consumption	Max. 2.9W
Dimensions	Ø: 90 mm x 50 mm
Weight	Net: 144g
Safety Certifications	CE, LVD, FCC Class B, VCCI, C-Tick
Operating Temperature	0°C ~ 50°C (32°F ~ 122°F)
Warranty	24 months

System Requirements

Operating System	Microsoft Windows 7/Vista/XP/2000
Web Browser	Mozilla Firefox 7~10 (streaming only) Internet Explorer 7.x or 8.x
Other Players	VLC: 1.1.11 or above QuickTime: 7 or above

Included Accessories

CD	User's manual, quick installation guide, Installation Wizard 2, ST7501 32-channel recording software
Others	Quick installation guide, warranty card, screws pack, focus kit

Dimensions

Ø90 mm

23.3 mm 34.7 mm 50 mm

Compatible Accessories

PoE Kits

POE-IJ-1748NDN
802.3af Compliant PoE Injector

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