VIVOTEK
BUILT WITH RELIABILITY

Fixed Dome Network Camera
FD8171

VIVOTEK FD8171 is a professional indoor dome network camera offering 30 fps @ 3-Megapixel or 60 fps @ 1080p resolution with superb image quality. As a professional day/night camera, FD8171 adopts a Smart IR technology which prevents overexposure and provides noise reduction to adjust the IR lighting intensity instantaneously based on the changes of lights in the ambient environment.
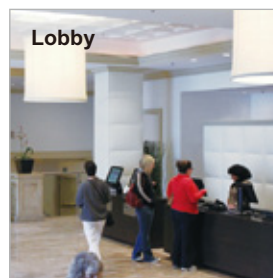
Featuring 3D Noise Reduction Technology, it enables the FD8171 to capture clear, polished video under low-light conditions, which also helps to reduce bandwidth from sensor noise. Combined WDR Enhanced technology, users can identify image details in extremely bright as well as dark environments.

In addition, FD8171 implements Smart Stream Technology, which allows users to set region of interests (ROIs) for improved clarity without raising the bitrate so as to optimize storage and bandwidth efficiency.

To provide top-notch image quality, FD8171 also comes with a P-iris lens, which controls the iris with extreme precision with its built-in stepper motor. By using software controls, the lens maintains the iris opening at an optimal level at all times, resulting in superior sharpness and depth of field as well as image quality. Furthermore, for installers, properly adjusting the focus of a megapixel network camera can be difficult due to the image detail. Thus, FD8171 is also designed with VIVOTEK's Smart Focus System to make installation and adjustment easier by allowing remote focus and zoom adjustment.

Features

- 3-Megapixel CMOS Sensor
- 30 fps @ 2048x1536
- Motorized, P-iris Lens & DC-iris
- Removable IR-cut Filter for Day & Night Function
- Built-in IR Illuminators, Effective up to 20 Meters
- Smart IR Technology to Avoid Overexposure
- Smart Stream to Optimize Bandwidth Efficiency
- 3D Noise Reduction for Low-light Conditions
- Real-time H.264, MPEG-4, and MJPEG Compression
- WDR Enhanced for Unparalleled Visibility in Extremely Bright or Dark Environments
- Smart Focus System for Remote and Precise Focus Adjustment
- Two-way Audio
- Built-in 802.3af Compliant PoE
- Built-in MicroSD/SDHC/SDXC Card Slot for On-board Storage

Lobby

Parking Lot

Retail

Low light

Technical Specifications

Model	FD8171

System Information

CPU	Multimedia SoC (System-on-Chip)
Flash	256 MB
RAM	512 MB

Camera Features

Image Sensor	1/2.8" Progressive CMOS
Maximum Resolution	2048x1536
Lens Type	Vari-focal, remote focus
Focal Length	f = 3 ~ 10 mm
Aperture	F1.3 ~ F2.5
Auto-iris	P-iris/DC-iris (Reserved)
Field of View	31° ~ 91° (horizontal)
	24° ~ 68° (vertical)
	39° ~ 117° (diagonal)
Shutter Time	1/5 sec. to 1/8000 sec.
WDR Technology	WDR Enhanced
Day/Night	Removable IR-cut filter for day & night function
	Smart IR Technology to Avoid Overexposure
Minimum Illumination	0.33 Lux @ F1.3, 50 IRE (Color @1/30 sec)
	0.05 Lux @ F1.3, 50 IRE (Color@1/5 sec)
	0.001 Lux @ F1.3, 50 IRE (B/W)
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 20 meters
	IR LED*15, with Smart IR Technology
On-board Storage	MicroSD/SDHC/SDXC card slot

Video

Compression	H.264, MJPEG & MPEG-4
Maximum Frame Rate	H.264:
	30 fps at 2048x1536
	60 fps at 1920x1080
	MPEG-4:
	30 fps at 2048x1536
	50 fps at 1920x1080
	MJPEG:
	30 fps at 2048x1536
	60 fps at 1920x1080
Maximum Streams	4 simultaneous streams
S/N Ratio	58 dB
Dynamic Range	60 db
Video Streaming	Adjustable resolution, quality and bitrate
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, 3D Noise Reduction, smart stream

Audio

Audio Capability	Two-way audio (full duplex)
Compression	GSM-AMR, AAC, G.711
Interface	External microphone input
	Audio output

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/100 BaseTX Ethernet (RJ-45)
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, audio detection
Alarm Events	Event notification using digital output, HTTP, SMTP, FTP and NAS server
	File upload via HTTP, SMTP, FTP and NAS server

General

Smart Focus System	Remote focal & focus control
	Focus assist button and OSD
Connectors	RJ-45 for Network/PoE connection
	Audio input/output
	AC 24V/DC 12V power input
	Digital input*1
	Digital output*1
	Analog video output
LED Indicator	System power and status indicator
Power Input	DC12V/AC24V
	IEEE 802.3af PoE Class 3
Power Consumption	Max. 10.92W (DC 12V)
	Max. 12.25W (AC 24V)
	Max. 12.95W (PoE)
Dimensions	Ø: 157 mm x 109 mm
Weight	Net: 758g
Safety Certifications	CE, LVD, FCC Class B, VCCI, C-Tick, UL
Operating Temperature	Starting Temperature: -10°C ~ 50°C
	Working Temperature: -20°C ~ 50°C
Warranty	24 months

System Requirements

Operating System	Microsoft Windows 7/Vista/XP/2000
Web Browser	Mozilla Firefox 7~10 (Streaming only)
	Internet Explorer 7/8/9/10
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, alignment sticker, desiccant bag, DC connector, screws, AV cable, software CD

Dimensions

Compatible Accessories

PoE Kits

POE-IJ-1748NDN
PoE injector, 802.3af compliant