



# Fixed Dome Network Camera FD8171



3MP • 20M IR • Smart IR • Smart Stream •  
3DNR • Smart Focus System

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.

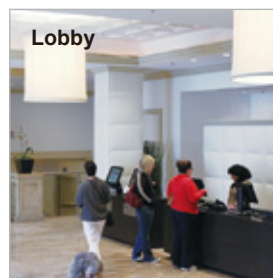
Featuring 3D Noise Reduction Technology, it enables the FD8171 to capture clear, polished video under low-light conditions, which also helps to reduce bandwidth from sensor noise. Combined WDR Enhanced technology, users can identify image details in extremely bright as well as dark environments.

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



## Technical Specifications

Model	FD8171	<b>Intelligent Video</b>	Video Motion Detection	Triple-window video motion detection
<b>System Information</b>		<b>Alarm and Event</b>	Alarm Triggers	Video motion detection, manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection, audio detection
CPU	Multimedia SoC (System-on-Chip)	Alarm Events	Alarm Events	Event notification using digital output, HTTP, SMTP, FTP and NAS server File upload via HTTP, SMTP, FTP and NAS server
Flash	256 MB	<b>General</b>	Smart Focus System	Remote focal & focus control Focus assist button and OSD
RAM	512 MB	Connectors	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
<b>Camera Features</b>		LED Indicator	LED Indicator	System power and status indicator
Image Sensor	1/2.8" Progressive CMOS	Power Input	Power Input	DC12V/AC24V IEEE 802.3af PoE Class 3
Maximum Resolution	2048x1536	Power Consumption	Power Consumption	Max. 10.92W (DC 12V) Max. 12.25W (AC 24V) Max. 12.95W (PoE)
Lens Type	Vari-focal, remote focus	Dimensions	Dimensions	Ø: 157 mm x 109 mm
Focal Length	f = 3 ~ 10 mm	Weight	Weight	Net: 758g
Aperture	F1.3 ~ F2.5	Safety Certifications	Safety Certifications	CE, LVD, FCC Class B, VCCI, C-Tick, UL
Auto-iris	P-iris/DC-iris (Reserved)	Operating Temperature	Operating Temperature	Starting Temperature: -10°C ~ 50°C Working Temperature: -20°C ~ 50°C
Field of View	31° ~ 91° (horizontal) 24° ~ 68° (vertical) 39° ~ 117° (diagonal)	Warranty	Warranty	24 months
Shutter Time	1/5 sec. to 1/8000 sec.	<b>System Requirements</b>	Operating System	Microsoft Windows 7/Vista/XP/2000
WDR Technology	WDR Enhanced	Web Browser	Web Browser	Mozilla Firefox 7~10 (Streaming only) Internet Explorer 7/8/9/10
Day/Night	Removable IR-cut filter for day & night function Smart IR Technology to Avoid Overexposure	Other Players	Other Players	VLC: 1.1.11 or above Quicktime: 7 or above
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)	<b>Included Accessories</b>	CD	User's manual, quick installation guide, Installation Wizard 2, ST7501 32-channel recording software
Pan/tilt/zoom Functionalities	ePTZ: 48x digital zoom (4x on IE plug-in, 12x built in)	Others	Others	Quick installation guide, alignment sticker, desiccant bag, DC connector, screws, AV cable, software CD
IR Illuminators	Built-in IR illuminators, effective up to 20 meters IR LED*15, with Smart IR Technology	<b>Dimensions</b>		
On-board Storage	MicroSD/SDHC/SDXC card slot			
<b>Video</b>				
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			
<b>Audio</b>				
Audio Capability	Two-way audio (full duplex)			
Compression	GSM-AMR, AAC, G.711			
Interface	External microphone input Audio output			
<b>Network</b>				
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 <a href="http://www.onvif.org">www.onvif.org</a>			

## Compatible Accessories

### PoE Kits



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

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