



# FD8173-H

Fixed Dome Network Camera

3MP · 20M IR · Smart Stream · Smart Focus System · PIR ·  
Smart IR · WDR Pro · 3DNR

VIVOTEK's FD8173-H network camera features a 3-Megapixel WDR CMOS sensor to cope with challenging lighting conditions. The WDR Pro feature allows the camera to capture both the dark and bright areas of an image and combine the differences to generate a highly realistic representation of the original scene. This feature enables the camera to provide video quality very close to the capabilities of the human eye. The FD8173-H can be deployed widely in high contrast environments such as lobby entrances, hotel alleys and more. The P-iris lens controls the iris with extreme precision; with its built-in stepper motor, it maintains the iris opening at an optimal level at all times, resulting in superior image clarity and depth of field.

## Key Features

- 3-Megapixel CMOS Sensor
- 20 fps @ 2048x1536
- Motorized, P-iris Lens
- Smart IR Technology to Avoid Overexposure
- Built-in IR Illuminators, Effective up to 20 Meters
- PIR
- Smart Stream
- 3D Noise Reduction
- Built-in MicroSD/SDHC/SDXC Card Slot for On-board Storage
- WDR Pro for Unparalleled Visibility in Extremely Bright and Dark Environments
- Smart Focus System for Remote and Precise Focus Adjustment
- Two-way Audio



With WDR Pro

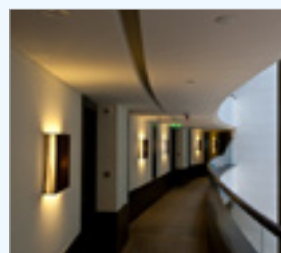
Without WDR Pro



Retail



Office



Hotel



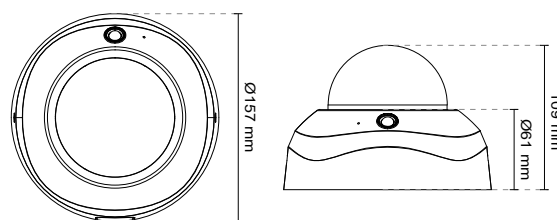
Bank

## Technical Specifications

Model	FD8173-H
<b>System Information</b>	
CPU	Multimedia SoC (System-on-Chip)
Flash	128 MB
RAM	256 MB
<b>Camera Features</b>	
Image Sensor	1/3 " Progressive CMOS
Maximum Resolution	2048x1536
Lens Type	Vari-focal, remote focus
Focal Length	f = 2.8 ~ 12 mm
Aperture	F1.8 ~ F2.85
Auto-iris	P-iris
Field of View	29.7° ~ 82.6° (Horizontal) 22.4° ~ 61.9° (Vertical) 37.6° ~ 108.7° (Diagonal)
Shutter Time	1/5 sec. to 1/32,000 sec.
WDR Technology	WDR Pro
Day/Night	Removable IR-cut filter for day & night function Smart IR Technology to Avoid Overexposure
Minimum Illumination	0.33 Lux @ F1.8 (Color) 0.001 Lux @ F1.8 (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*4 with Smart IR Technology
On-board Storage	MicroSD/SDHC/SDXC card slot
<b>Video</b>	
Compression	H.264, MJPEG
Maximum Frame Rate	H.264: 20 fps @ 2048x1536 30 fps @ 1920x1080 MJPEG: 20 fps @ 2048x1536 30 fps @ 1920x1080
Maximum Streams	3 simultaneous streams
S/N Ratio	Above 62 dB
Dynamic Range	100 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 Seamless recording, new text on video, SD recording 1HR
<b>Audio</b>	
Audio Capability	Audio input/output (full duplex)
Compression	AAC, G.711, G.726
Interface	Internal microphone input External 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>
<b>Intelligent Video</b>	
Video Motion Detection	Triple-window video motion detection
<b>Alarm and Event</b>	
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
<b>General</b>	
Smart Focus System	Remote focus
Connectors	RJ-45 for Network/PoE connection Audio input Audio output AC 24V power input DC 12V power input Digital input*1 Digital output*1
LED Indicator	System power and status indicator
Power Input	DC 12V AC 24V IEEE 802.3af PoE Class 3
Power Consumption	DC 12V: Max.11 W AC 24V: Max.12.5 W PoE: Max. 11 W
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 (14°F~ 122°F) Working Temperature: -20°C ~ 50°C (-4°F~ 122°F)
Warranty	36 months
<b>System Requirements</b>	
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
<b>Included Accessories</b>	
CD	User's manual, quick installation guide, Installation Wizard 2, free ST7501 32-channel VMS
Others	Quick installation guide, warranty card, alignment sticker, desiccant bag, waterproof connector

## Dimensions



## Compatible Accessories

### Mounting Kits



**AM-215**  
L Shape Bracket



**AM-712**  
Conduit Box

All specifications are subject to change without notice. Copyright © VIVOTEK INC. All rights reserved.

Distributed by:



**VIVOTEK INC.**  
6F, No.192, Lien-Cheng Rd., Chung-Ho,  
New Taipei City, 235, Taiwan, R.O.C.  
T: +886-2-82455282 F: +886-2-82455532  
E: [sales@vivotek.com](mailto:sales@vivotek.com)

**VIVOTEK USA**  
2050 Ringwood Avenue,  
San Jose, CA 95131  
T: 408-773-8686 F: 408-773-8298  
E: [salesusa@vivotek.com](mailto:salesusa@vivotek.com)

**VIVOTEK Europe**  
Randstad 22-133, 1316BW Almere,  
The Netherlands  
T: +31(0)36-5298-434  
E: [saleseurope@vivotek.com](mailto:saleseurope@vivotek.com)

Ver. 4