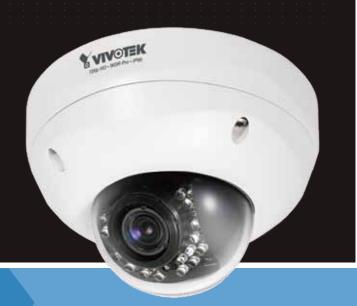# VIVOTEK
BUILT WITH RELIABILITY

Fixed Dome Network Camera
FD8335H

720p HD • P-iris • WDR Pro • Vandal-proof • IP66

VIVOTEK's FD8335H network camera features an HD WDR CMOS sensor to cope with challenging lighting conditions. The WDR feature allows the camera to capture both the dark and bright parts of an image and combines the differences to generate a highly realistic image representative of the original scene, enabling it to provide video quality close to the capabilities of the human eye. This function enables the FD8335H to be widely applicable in high contrast environments such as lobby entrances, parking lots, ATMs, loading areas, and much 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 as well as image quality.

Incorporating an IR-cut filter that can be removed automatically at night and built-in IR illuminators with coverage of up to 20 meters, the FD8335H is an outstanding 24-hour surveillance solution. The vandal-proof and the IP66-rated housing of the FD8335H enables users to easily build a cost-effective IP surveillance system without additional accessories. Its metal vandal-proof housing effectively provides robust protection from vandalism. Meanwhile, the IP66 integrated housing shields the camera from dust and water, allowing it to be applied in the harsh weather conditions of outdoor environments.
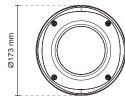
Features

- 1-Megapixel CMOS Sensor
- 30 fps @ 1280x800
- 3 ~ 9 mm Vari-focal, P-iris Lens
- Removable IR-cut Filter for Day & Night Function
- Built-in IR Illuminators, Effective up to 20 Meters
- WDR Pro for Unparalleled Visibility in High Contrast Environments
- Real-time H.264, MPEG-4, and MJPEG Compression (Triple Codec)
- Vandal-proof IK10-rated and Weather-proof IP66-rated Housing
- Built-in 802.3af Compliant PoE
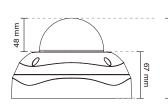- Built-in MicroSD/SDHC Card Slot for On-board Storage

WDR Off

Technical Specifications

System Information

CPU	Multimedia SoC (System-on-Chip)
Flash	16 MB
RAM	128 MB

Camera Features

Image Sensor	1/2.7" Progressive CMOS
Maximum Resolution	1280x800
Lens Type	Vari-focal
Focal Length	f = 3 ~ 9 mm
Aperture	F1.2 (wide), F2.1 (tele)
Iris	P-iris
Field of View	102.68° ~ 35.4° (horizontal)
	61.93° ~ 22.80° (vertical)
	122.56° ~ 41.11° (diagonal)
Shutter Time	1/15 sec. to 1/25,000 sec.
WDR Technology	WDR Pro
Day/Night	Removable IR-cut filter for day & night function
Minimum Illumination	0.8 Lux @ F1.2, 50 IRE (Color)
	0.001 Lux @ F1.2, 50 IRE (B/W)
Pan/tilt/zoom Functionalities	ePTZ: 16x digital zoom (4x on IE plug-in, 4x built-in)
IR Illuminators	Built-in IR illuminators, effective up to 20 meters IR LED*18
On-board Storage	MicroSD/SDHC card slot

Video

Compression	H.264, MJPEG & MPEG-4
Maximum Frame Rate	H.264: 30 fps at 1280x800
	MPEG-4: 30 fps at 1280x800
	MJPEG: 30 fps at 1280x800
Maximum Streams	2 simultaneous streams
S/N Ratio	Above 60.5 dB
TV Line	1235 TVL (Horizontal)
Dynamic Range	110.4 dB
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/output (half duplex)
Compression	GSM-AMR, AAC, G.711
Interface	External microphone input

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	Ver. 1.02

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
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	Focus assist OSD (Network streaming)
Connectors	RJ-45 for Network/PoE connection
	3.5 mm phone jack*2 for audio input/output
	Terminal block*2 for AC 24V power input
	Terminal block*4 for digital input
	Terminal block*2 for digital output
LED Indicator	System power and status indicator
Power Input	24V AC
	IEEE 802.3af PoE Class 3
Power Consumption	Max. 8.0W
Dimensions	Ø: 173 mm x 115 mm
Weight	Net: 1266 g
Casing	Vandal-proof IK10-rated metal housing
	Weather-proof IP66-rated housing
Safety Certifications	CE, LVD, FCC Class A, VCCI, C-Tick
Operating Temperature	-20°C ~ 50°C (-4°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, mounting plate, alignment sticker, ceiling hole template sticker, L-type hex key wrench, silica gel, screws, hex nut, double-sided tape, AV cable, waterproof connector & bushing

Dimensions

Compatible Accessories

Mounting Kits

AM-518
Outdoor dome adapter

Wireless

N600AG
Outdoor wireless access point

N500AG
Outdoor wireless access point

PoE Kits

MS-POE-IJAF
PoE Injector, 802.3af Compliant