Technical Specifications

System Information

CPU	Multimedia SoC (System-on-Chip)
Flash	128 MB
RAM	256 MB

Camera Features

Image Sensor	1/2.7" Progressive CMOS
Maximum Resolution	1920x1080
Lens Type	Vari-focal, remote focus
Focal Length	f = 3 ~ 9 mm
Aperture	F1.2 (wide), F2.1 (tele)
Auto-iris	DC-iris
Field of View	38° ~ 104° (horizontal)
	22° ~ 71° (vertical)
	43° ~ 111° (diagonal)
Shutter Time	1/5 sec. to 1/32,000 sec.
WDR Technology	WDR Enhanced
Day/Night	Removable IR-cut filter for day & night function
Minimum Illumination	0.08 Lux @ F1.2, 50 IRE (color)
	0.001 Lux @ F1.2, 50 IRE (B/W)
Pan Range	360°
Tilt Range	180°
Rotation Range	360°
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 15 meters
	IR LED*8
On-board Storage	MicroSD/SDHC/SDXC card slot

Video

Compression	H.264, MJPEG & MPEG-4
Maximum Frame Rate	H.264: 30 fps at 1920x1080
	MPEG-4: 30 fps at 1920x1080
	MJPEG: 30 fps at 1920x1080
Maximum Streams	4 simultaneous streams
S/N Ratio	Above 52 dB
Dynamic Range	55 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 (Full duplex)
Compression	GSM-AMR, AAC, G.711
Interface	External microphone input
	External line 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
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 focus & easy focus
Connectors	RJ-45 for network/PoE connection
	Audio input/output
	AV output
	AC 24V power input
	DC 12V power input
	Digital input*1
	Digital output*1
LED Indicator	System power and status indicator
Power Input	12V DC
	24V AC
	IEEE 802.3af PoE Class 3
Power Consumption	DC 12V: 6.9W
	PoE: 9.3W
	AC 24V: 8.5W
Dimensions	Ø: 173 mm x 115 mm
Weight	Net: 1220 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	Start Temperature: -10°C ~ 50°C (14°F ~ 122°F)
	Working Temperature: -20°C ~ 50°C (-4°F ~ 122°F)
Warranty	36 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, software CD

Dimensions

Ø173 mm
115 mm
67 mm

Compatible Accessories

Mounting Kits

Corner mount
Junction Box
Pendant Mount

Pole Mount
Wall Mount
Adapter

Power Adapter

AA-221
DC 12V
Power Adapter

AA-341
AC 24V
Power Adapter

PoE Kits

POE-IJ-1748NDN
802.3af Compliant
PoE Injector

Others

AI-102
IR illuminators

Distributed by:

Ver 1.0

VIVOTEK
BUILT WITH RELIABILITY

SUPREME
2 MP • Full HD

Fixed Dome Network Camera
FD8363

**Full HD • Smart Focus System •
Smart IR • IP66 • Vandal-proof**

VIVOTEK FD8363 is a professional outdoor dome network camera, offering 2-Megapixel or 1080p Full HD resolution with superb image quality up to 30 fps. As with other true day/night models, the camera comes with a removable IR-cut filter and 15-meter IR illuminators to provide great clarity 24 hours a day. It is especially suitable for monitoring wide open outdoor areas such as building entrances, airports, or applications requiring accurate identification.
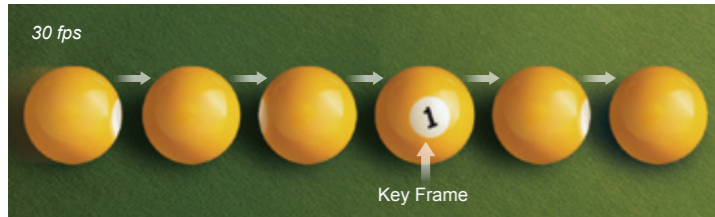
For installers, properly adjusting the focus of a megapixel network camera can be difficult due to the image detail. Thus, VIVOTEK has introduced the revolutionary Smart Focus System, including Easy Focus Button and Remote Focus to make installation and image adjustment easier. VIVOTEK has adopted lenses with a built-in stepper motor that the installer can use to remotely control the focal length and precisely adjust the camera focus, offering hassle-free installation and maintenance.

The IP66-rated housing is designed to help the camera body withstand rain and dust and ensures operation under a multitude of harsh weather conditions, while its metal vandal-proof housing effectively provides robust protection from vandalism. With other advanced features such as WDR enhanced, tamper detection, 802.3af compliant PoE, microSD/SDHC/SDXC card slot for on-board storage, video cropping, and e-PTZ functionality, the FD8363 provides the most robust solution suitable for demanding outdoor environments.
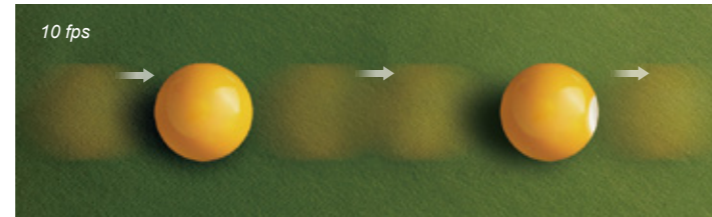
SUPREME

1080p Resolution at Full Frame Rate

The VIVOTEK FD8363 is able to transmit 30 fps @ 1080p with H.264 compression, while conventional megapixel cameras generally only achieve 10 to 15 fps due to hardware limitations. The ability to view and record footage at a full frame rate enables much more effective surveillance.

For example, if a person or object of interest passes quickly through the camera's field of view during an event, a 10 fps frame rate might mean only a single frame with the target is captured, while the FD8363 would capture three frames, providing a fuller record of the event and more reliable identification of the target.
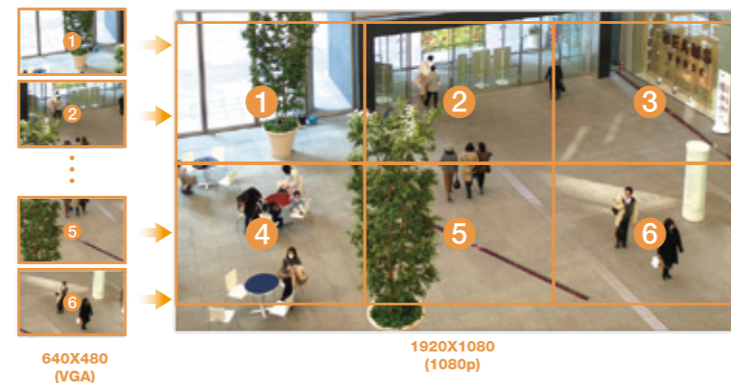
30 fps

Key Frame

10 fps

Wide Coverage, Exceptional Details

Compatible with the HDTV (16:9) standard, the FD8363 provides surveillance coverage for an area up to six times larger than possible with a VGA camera, significantly reducing the number of cameras required.

The FD8363 is especially well suited to monitor broad spaces such as shopping mall, airport, and hotel lobby, etc. In addition, it is excellent for applications requiring accurate recognition for post-content analysis, such as the identification of people or license plates.

640X480
(VGA)

4:3   16:9

640X480
(VGA)

1920X1080
(1080p)

Consistent Surveillance Performance

• Adapted for High-contrast Lighting Conditions

When a camera is used in a high contrast, backlight, glare, or light reflective environment such as a building entrance, ATM, or window, a subject may appear dark and unrecognizable. WDR Enhanced technology compensates for the unbalanced lighting, restoring detail throughout the field of view, so as to give user unparalleled visibility to identify images.

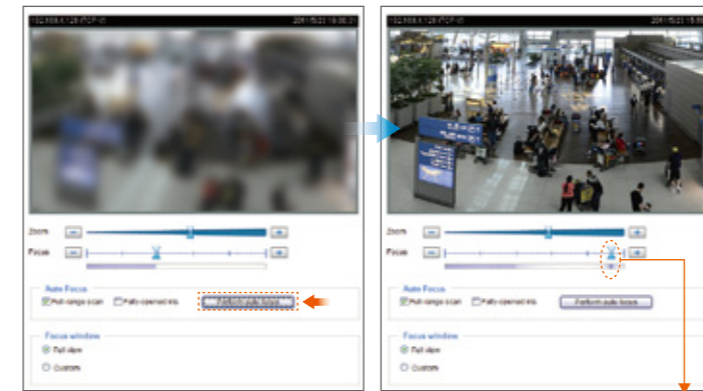With WDR Enhanced   Without WDR Enhanced

• Smart IR

When the Smart IR function is enabled, the camera automatically adjusts the IR lighting intensity in order to avoid overexposure in night mode and is highly beneficial in capturing usable video when the object of interest is close to the camera and IR LEDs.

Smart IR enabled; distance: 3M   Smart IR disabled; distance: 3M
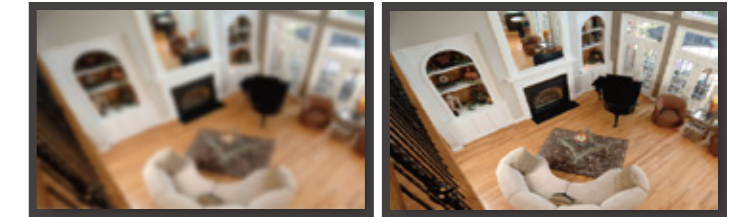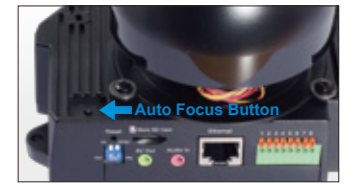
Smart Focus System

• Remote Focus

To facilitate easier installation and adjustment, the FD8363 has adopted a lens with a built-in stepper motor that the installer can use to remotely control the focal length and precisely adjust the camera focus via the configuration webpage.

Best Focus

• Easy Focus

The installer can also easily adjust the focus by pushing the auto focus button on camera body. The lens module will automatically adjust the focus to the best value, offering hassle-free installation and maintenance.

Auto Focus Button

Enhanced Security

• Vandal-proof IK10-rated Housing

Equipped with a protective housing, the FD8363 are secured from vandalism, making it suitable for high-risk environments. The metal base and polycarbonate cover enable the FD8363 to withstand high impacts, thereby ensuring functional operation at all times.

Vandal-proof housing

• IP66-rated Housing

The weather-proof IP66-rated housing provides protection from dust and moisture, allowing the FD8363 to operate outdoors without any worries.

IP66

FD8363 | Fixed Dome Network Camera

- 2-Megapixel CMOS Sensor
- 30 fps @ 1920x1080
- 3 ~ 9 mm Motorized, DC-iris Lens
- Removable IR-cut Filter for Day & Night Function
- Built-in IR Illuminators, Effective up to 15 Meters
- Built-in Smart IR to Avoid Overexposure
- WDR Enhancement for Unparalleled Visibility in High Contrast Environments
- Real-time H.264, MPEG-4, and MJPEG Compression (Triple Codec)
- Smart Focus System for Remote and Easy Focus Adjustment
- Vandal-proof IK10-rated and Weather-proof IP66-rated Housing
- Built-in 802.3af Compliant PoE
- Built-in MicroSD/SDHC/SDXC Card Slot for On-board Storage

Onvif