VIVOTEK
BUILT WITH RELIABILITY

Fixed Dome Network Camera
FD8371V/71EV

3MP • 1080p 60 fps • Smart IR • Smart Stream • Smart Focus • SNV

VIVOTEK FD8371V/71EV are professional outdoor dome network cameras offering 30 fps @ 3-Megapixel or 60 fps @ 1080p resolution with superb image quality.

As professional day/night cameras, FD8371V/71EV feature a Smart IR technology which provides the excellent ability of anti-overexposure and noise reduction to adjust the IR lighting intensity instantly based on environmental lighting change.

Featuring 3D Noise Reduction Technology, it enables the FD8371V/71EV to capture clear, polished video under low-light conditions, which also helps to reduce bandwidth from sensor noise. By combining with WDR Enhanced technology, users can identify image details in extremely bright as well as dark environments.
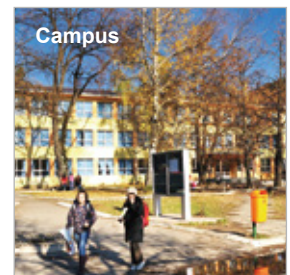
The FD8371V/71EV also feature Smart Stream Technology, which can be used to optimize resolution on a desired object or area to maximize bandwidth usage.

The FD8371V/71EV come 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. For installers, properly adjusting the focus of a megapixel network camera can be difficult due to the image detail. Thus, VIVOTEK has introduced the Smart Focus System to make installation and adjustment easier by allowing for remote focus and zoom adjustment.

The IP66-rated housing is designed to help the camera body withstand rain and dust and high pressure water jets from any direction while IK10-rated housing provide the protection against the vandal act and impact. Additionally, the wide temperature range further enhances the FD8371EV's performance and reliability in extremely cold or warm weather.

Features

- 3-Megapixel CMOS Sensor
- 30 fps @ 2048x1536; 60fps @ 1920x1080
- Motorized, P-iris Lens & DC-iris
- 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
- -50°C ~ 50°C Wide Temperature Range for Extreme Weather Conditions (FD8371EV)
- Real-time H.264, MPEG-4, and MJPEG Compression (Triple Codec)
- Smart Focus System for Remote and Precise Focus Adjustment
- Two-way Audio
- Weather-proof IP66-rated and Vandal-proof IK10-rated Housing
- Built-in 802.3af Compliant PoE
- Built-in MicroSD/SDHC/SDXC Card Slot for On-board Storage
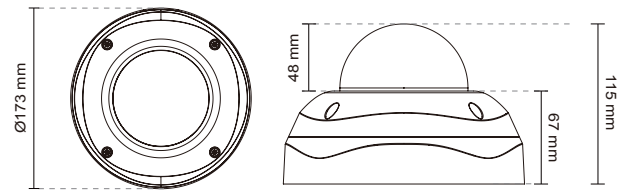- Supreme Night Visibility

Desert Area

Campus

Arctic Weather

Train Station

Technical Specifications

Model	FD8371V/71EV

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 ~ 10mm
Aperture	F1.3 ~ F2.5
Auto-iris	P-iris / DC-iris (Reserved)
Field of View	32° ~ 99° (Horizontal)
	24° ~ 72° (Vertical)
	40° ~ 128° (Diagonal)
Shutter Time	1/5 sec. to 1/8000 sec.
Physical Adjustment of Camera Angel	Pan: 348°, Tilt: 65°, Rotation: 350°
WDR Technology	WDR Enhanced
Day/Night	Removable IR-cut filter for day & night function
	Smart IR Technology to Avoid Overexposure
Minimum Illumination	0.1 Lux @ F1.3 (Color)
	0.001 Lux @ F1.3 (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

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	59 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, G.726
Interface	External microphone input and 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 cable connector for Network/PoE connection
	Audio input
	Audio output
	AC 24V power input/DC 12V power input
	Digital input*1
	Digital output*1
	Analog video output
LED Indicator	System power and status indicator
Power Input	24V AC
	12V DC
	IEEE 802.3af PoE Class 3
Power Consumption	FD8371V:
	Max. 10.92 W (DC 12V)
	Max. 12.25 W (AC 24V)
	Max. 12.95 W (PoE)
	FD8371EV:
	Max. 28 W (DC 12V)
	Max. 34 W (AC 24V)
	Max. 12.95 W (PoE)
Dimensions	Ø: 173 mm x 115 mm
Weight	Net: 1,240 g
Casing	Weather-proof IP66-rated housing
	Vandal-proof IK10-rated housing
Safety Certifications	CE, LVD, FCC Class A, VCCI, C-Tick, UL, KCC
Operating Temperature	FD8371V:
	Starting Temperature: -10°C ~ 50°C (14°F ~ 122°F)
	Working Temperature: -20°C ~ 50°C (-4°F ~ 122°F)
	FD8371EV:
	Starting Temperature: -40°C ~ 50°C (-40°F ~ 122°F) (PoE: -10°C ~ 50°C)
	Working Temperature: -50°C ~ 50°C (-58°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, alignment sticker, mounting plate, L-type hex key wrench, desiccant bag, DC connector, screws, hex nut, double-sided Tape, AV cable, waterproof connector, bushing, software CD

Dimensions

Compatible Accessories

Mounting Kits

AM-214
L shape bracket

AM-518
Outdoor Dome Adaptor

PoE Kits

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