



FE8181/81V

Fisheye Network Camera

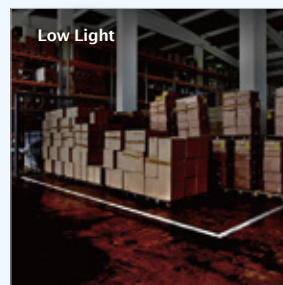
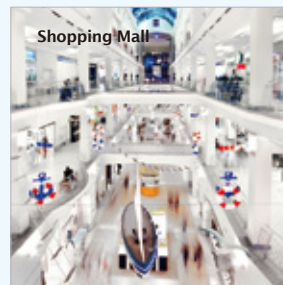
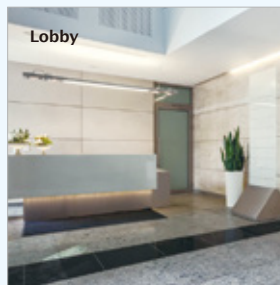
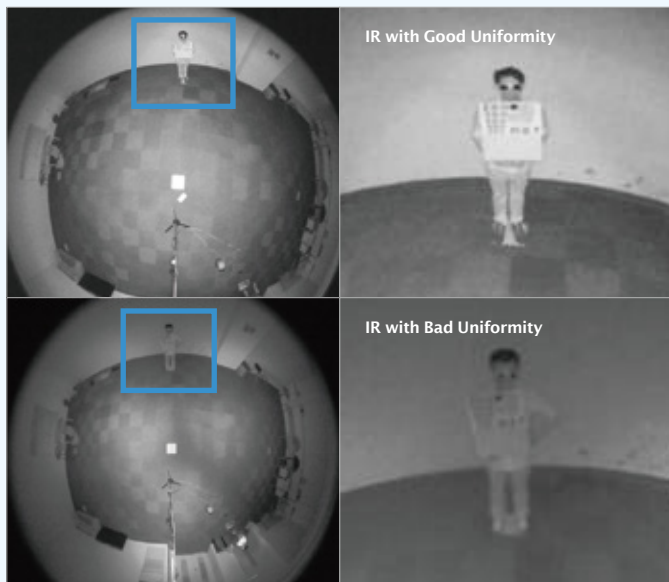
5MP · 360° Surround View · 360° 10 Meter IR · Smart IR · 3DNR · IP66 · IK10 · Pixel Calculator

VIVOTEK FE8181/81V are the latest fisheye fixed dome network cameras from VIVOTEK, featuring a detailed 5-Megapixel resolution sensor with superb image quality. Equipped with a fisheye lens for 180° panoramic view (wall mount) or 360° surround view (ceiling/floor/table mount) without blind spots, the cameras are able to provide coverage of wide, open areas, such as airports, shopping malls, parking lots, retail stores, offices and more.

The FE8181/81V, true day/night cameras, feature a removable IR-cut filter, maintaining clear images 24 hours a day, with built-in IR LEDs enabling the camera to provide uniformly 360° surround illumination for clear viewing up to 10 meters, even in completely dark environments.

Key Features

- 5-Megapixel CMOS Sensor
- 30 fps @ 1080p Full HD
- 1.5 mm Fisheye Lens for 180° Panoramic View and 360° Surround View
- Removable IR-cut Filter for Day & Night Function
- EN50155 Compliance for Professional Mobile Surveillance (FE8181V)
- Real-time H.264, MPEG-4, and MJPEG Compression (Triple Codec)
- WDR Enhancement for Unparalleled Visibility in Extremely Bright and Dark Environments
- Vandal-proof IK10-rated and Weather-proof IP66-rated Housing (FE8181V)
- ePTZ for Data Efficiency
- Built-in 802.3at Compliant PoE
- Built-in MicroSD/SDHC/SDXC Card Slot for On-board Storage
- Pixel Calculator for Image Clarity Measurement
- Support Local Dewarping



Technical Specifications

Model	FE8181/81V	Intelligent Video	
System Information		Video Motion Detection	Five-window video motion detection
CPU	Multimedia SoC (System-on-Chip)	Alarm and Event	
Flash	128 MB	Alarm Triggers	Video motion detection, manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection
RAM	256 MB	Alarm Events	Event notification using digital output, HTTP, SMTP, FTP and NAS server File upload via HTTP, SMTP, FTP and NAS server
Camera Features		General	
Image Sensor	1/2.5" Progressive CMOS in 2560 x 1920 resolution	Connectors	RJ-45 cable connector for Network/PoE connection Audio input Audio output DC 12V power input Digital input*1 Digital output*1
Maximum Resolution	1920x1920	LED Indicator	System power and status indicator
Lens Type	Fixed-focal	Power Input	DC 12V IEEE 802.3at PoE Class 4
Focal Length	f = 1.5 mm	Power Consumption	Max. 22 W (DC 12V) Max. 23 W (PoE+)
Aperture	F2.8	Dimensions	Ø160 x 39 mm (FE8181) Ø160 x 51 mm (FE8181V)
Field of View	180° (Horizontal) 180° (Vertical) 180° (Diagonal)	Weight	589 g (FE8181) 794 g (FE8181V)
Shutter Time	1/5 sec. to 1/32,000 sec.	Casing	Vandal-proof IK10-rated metal housing (FE8181V) Weather-proof IP66-rated housing (FE8181V)
WDR Technology	WDR Enhanced	Safety Certifications	CE, LVD, FCC Class A (FE8181V), FCC Class B (FE8181), VCCI, C-Tick, UL, EN50155(FE8181V)
Day/Night	Removable IR-cut filter for day & night function	Operating Temperature	Starting Temperature: -25°C ~ 50°C (-13°F ~ 122°F) Working Temperature: -40°C ~ 50°C (-40°F ~ 122°F)
Minimum Illumination	0.6 Lux @ F2.8 (Color) 0.01 Lux @ F2.8 (B/W) 0 Lux @ IR LED ON	Warranty	36 months
Preset Locations	20	System Requirements	
Pan/tilt/zoom Functionalities	ePTZ: 12x digital zoom (12x on IE plug-in)	Operating System	Microsoft Windows 7/Vista/XP/2000
IR Illuminators	Built-in IR illuminators, effective up to 10 meters IR LED*6	Web Browser	Mozilla Firefox 7~10 (streaming only) Internet Explorer 7.x, 8.x, 9.x, 10.x
On-board Storage	MicroSD/SDHC/SDXC card slot	Other Players	VLC: 1.1.11 or above Quicktime: 7 or above
Video		Included Accessories	
Compression	H.264, MJPEG & MPEG-4	CD	User's manual, quick installation guide, Installation Wizard 2, ST7501 32-channel, VAST CMS (90-day free trial version), Calibration Tool
Maximum Frame Rate	15 fps at 1920x1920 30 fps at 1920x1080 In all compression modes	Others	Quick installation guide, warranty card, alignment sticker, desiccant bag, screw driver, screws pack, I/O cable, mounting bracket, software CD
Maximum Streams	3 simultaneous streams	Dimensions	
S/N Ratio	Above 50 dB	<div> <div> FE8181 <div> </div> </div> <div> FE8181V <div> </div> </div> </div>	
Dynamic Range	Above 60 dB		
Video Streaming	Adjustable resolution, quality and bitrate Configurable video cropping for bandwidth saving		
Image Settings	Time stamp, text overlay, flip & mirror, scheduled profile settings, configurable brightness/contrast/saturation/sharpness, white balance, exposure control, gain, backlight compensation, privacy masks, pixel calculator, 3D-Noise reduction		
Audio			
Audio Capability	Audio input/output (full duplex)		
Compression	AAC, G.711, G.726		
Interface	Built-in microphone External microphone input External line output		
Effective Range	5 meters		
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, UDP, ICMP		
Interface	10Base-T/100 BaseTX Ethernet (RJ-45)		
ONVIF	Supported, specification available at www.onvif.org		

Compatible Accessories

Mounting Kits



AM-51A
Dome adapter



AM-116
Pendant pipe



AM-114
Pendant head



AM-515
NPT adapter (for AM-518)

Power Adapter



AA-221
DC 12V Power Adapter

PoE Kits



AP3001
PoE Plus Injector



AW-FED-0500
4-port Unmanaged
PoE Switch

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

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

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

Ver 1.5