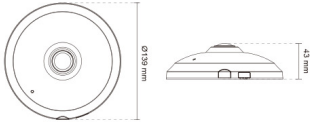








## Technical Specifications

System Information	
CPU	Multimedia SoC (System-on-Chip)
Flash	128 MB
RAM	128 MB
Camera Features	
Image Sensor	1/2.8" Progressive CMOS sensor
Maximum Resolution	1536x1536
Lens Type	Fixed-focal
Focal Length	f = 1.19 mm
Aperture	F2.0
Field of View	180° (horizontal) 180° (vertical) 180° (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	0.2 Lux @ F2.0 (Color) 0.001 Lux @ F2.0 (B/W)
Pan/Tilt/zoom	ePTZ
Functionalities	12x digital zoom (12x on IE plug-in)
On-board Storage	MicroSD/SDHC/SDXC card slot
Video	
Compression	H.264, MJPEG & MPEG-4
Maximum Frame Rate	H.264 15 fps at 1536x1536 MPEG-4 15 fps at 1536x1536 MJPEG 15 fps at 1536x1536
Maximum Streams	3 simultaneous streams
S/N Ratio	Above 62 dB
Dynamic Range	57 dB
Video Streaming	Adjustable resolution, quality and bitrate
Image Settings	Adjustable image size, quality and bit rate Pixel Calculator 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-AHR, AAC, G.711
Interface	Built-in microphone External microphone input
Effective Range	5 meters
Network	
Users	Live viewing for up to 10 clients
Protocols	IPv4, IPv6, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTPT/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>
Intelligent Video	
Video Motion Detection	Five-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	
Connectors	RJ-45 cable connector for NetworkPoE connection Audio input Audio output DC 12V power input Digital input*1 Digital output*1
LED Indicator	System power and status indicator
Power Input	DC 12V IEEE 802.3af PoE Class 2
Power Consumption	Max. 5.1 W (DC 12V) Max. 5.3 W (PoE)
Dimensions	Ø: 138 mm x 43 mm
Weight	Net: 353 g
Safety Certifications	CE, LVD, FCC Class A, VCCI, C-Tick, UL
Operating Temperature	-25°C ~ 50°C (-13°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, alignment sticker, screws pack, I/O cable, software CD

Dimensions	
	

## Compatible Accessories

Mounting Kits		Power Adapter	
 <b>AM-518</b> Dome adapter	 <b>AM-114</b> Pendant head	 <b>AA-221</b> DC 12V power adapter	
 <b>AM-515</b> NPT adapter (for AM-518)	 <b>AM-115</b> Pendant pipe	 <b>POE-IJ-1748NDN</b> PoE injector, 802.3af compliant	

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**VIVOTEK**  
VIVOTEK INC.  
B1, No.192, Lien-Cheng Rd., Chung Ho, New Taipei City, 258, Taiwan, R.O.C.  
T: +886-2-86460292 F: +886-2-42606062 E: sales@vivotek.com

**VIVOTEK USA, INC.**  
2050 Ringwood Avenue, San Jose, CA 95131  
T: 408-773-8888 F: 408-773-8298 E: salesusa@vivotek.com

Ver 1.0



# Fisheye Network Camera

# FE8173



**3MP • 360° Surround View • Pixel Calculator**

VIVOTEK FE8173 is the latest fisheye fixed dome network camera from VIVOTEK, featuring a detailed 3-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 camera is able to provide coverage of wide, open indoor areas, such as airports, shopping malls, train stations, retail stores, offices and more.

The FE8173 offers various display layouts, including original surround view, panoramic view, and regional view for various mounting applications. With the latest cutting-edge image processing capabilities, hemispherical images captured from the fisheye camera can be converted into conventional rectilinear projection for viewing and analysis. In addition, in both the panoramic as well as regional viewing modes, users can utilize the ultra-smooth ePTZ function to easily zoom in and focus on a region of interest (ROI). The new cutting-edge pixel calculator function helps the user to ensure the image quality of a desired area.

As with all VIVOTEK true day/night cameras, the FE8173 features a removable IR-cut filter, maintaining clear images 24 hours a day. Together with 802.3af compliant PoE, MicroSD/SDHC/SDXC card slot for on-board storage, and iViewer app support, the FE8173 is indisputably the top choice for constructing a robust surveillance system with the greatest coverage possible.

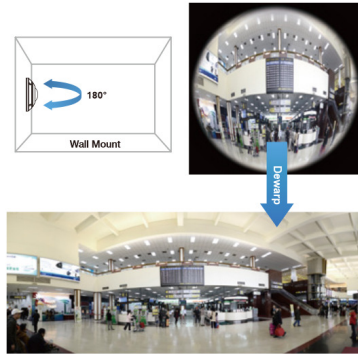
**SUPREME**

### Comprehensive Overview without Blind Spots

With a wide-angle field of view, the FE8173 is able to capture 180° panoramic or 360° surround views without blind spots, effectively reducing the need for other cameras as well as physical maintenance.

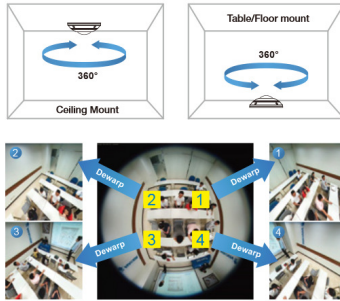
#### • 180° Panoramic View

The FE8173 can provide an overview of the region from wall to wall.



#### • 360° Surround View

When mounted on the ceiling, the FE8173 can monitor all four corners of a room. Any moving object in the room will be captured at all times. The viewer would be able to keep a track of suspicious objects without missing critical information.



#### Dewarp

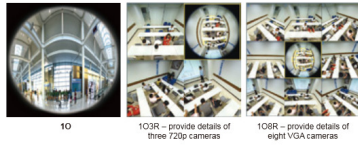
Optical distortion is unavoidable for ultra wide-angle and fisheye lenses. The hemispherical images captured from the fisheye camera are convex, especially the image borders; however, software allows the image to be dewarped and remapped into conventional rectangular projection using an integrated plug-in for specific viewing and analysis.

### Image Capture with Greater Data Efficiency

#### • Flexible Display Mode

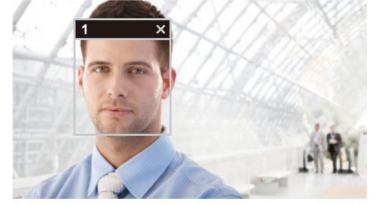
The overview image captured by the FE8173 can be tailored in various ways according to specific applications. The FE8173 offers multiple types of display layouts in the web browser interface, including 1O, 1O3R, 1O8R, 1P, 2P, 1P2R, 1P3R, 1R, 4R and 4R PRO.

The following diagrams show several of the display modes:



#### • Pixel Calculator

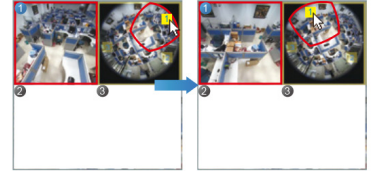
The pixel calculator helps the installer to easily ensure that the camera installation fulfills the pixel resolution required in an application. By using the tool to draw up to 3 windows on the video screen around the areas of interest, the installer can properly place and adjust the camera view to capture the detail required.



#### • ePTZ

The FE8173 provides electronic pan/tilt/zoom functions, allowing users to move to a target region in the viewing window without a mechanical movement. In a "panoramic view" and a "regional view", users can utilize the ultra-smooth ePTZ function to easily focus on a region of interest (ROI) using the mouse wheel. Compared to the conventional mechanical PTZ, the ePTZ feature offers zero-wait operation through client-side control. In addition, with a high-end dewarping algorithm (plug-in), the ePTZ on the FE8173 responds swiftly and seamlessly to user's control.

In 4R PRO mode, the four viewing windows will rotate synchronously while clicking or dragging one of the windows.



ePTZ in 1O3R Mode

#### Clear Images 24/7

The FE8173 delivers day & night functionality with a built-in removable IR-cut filter. By day, the IR-cut filter screens out infrared light to reduce color distortion. At night, the filter is removed to accept infrared light for higher lighting efficiency.



## FE8173 | Fisheye Network Camera

- 15 fps @ 1536x1536
- 1.19 mm Fisheye Lens for 180° Panoramic View and 360° Surround View
- Removable IR-cut Filter for Day & Night Function
- Real-time H.264, MPEG-4, and MJPEG Compression (Triple Codec)
- WDR Enhancement for Unparalleled Visibility in Extremely Bright or Dark Environments
- ePTZ for Data Efficiency
- Built-in 802.3af Compliant PoE
- Built-in MicroSD/SDHC/SDXC Card Slot for On-board Storage
- Pixel Calculator for Image Clarity Measurement

