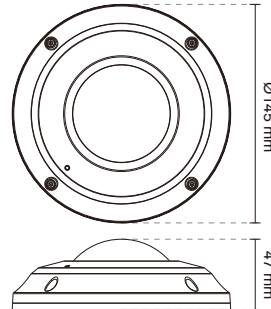
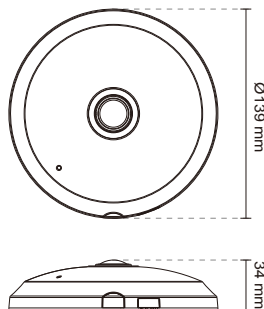


Technical Specifications	
Models	FE8174/74V
System Information	
CPU	Multimedia SoC (System-on-Chip)
Flash	128 MB
RAM	256 MB
Camera Features	
Image Sensor	1/2.5" Progressive CMOS in 2560 x 1920 resolution
Maximum Resolution	1920x1920
Lens Type	Fixed-focal
Focal Length	f = 1.5 mm
Aperture	F2.8
Field of 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	0.03 Lux @ F2.8, 50 IRE (Color) 0.001 Lux @ F2.8, 50 IRE (B/W)
Pan/tilt/zoom Functionalities	ePTZ: 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	15 fps at 1920x1920 30 fps at 1920x1080 In all compression modes
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 counter 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	AAC, G.711, G.726
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/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
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 Network/PoE 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: 145 mm x 47 mm (FE8174V) Ø: 139 mm x 34 mm (FE8174)
Weight	Net: 545 g (FE8174V) Net: 358 g (FE8174)
Casing	Vandal-proof IK10-rated metal housing (FE8174V) Weather-proof IP66-rated housing (FE8174V)
Safety Certifications	CE, LVD, FCC Class A, VCCI, C-Tick, EN50155 (FE8174V), UL
Operating Temperature	Starting Temperature: -25°C ~ 50°C (-13°F ~ 122°F) Working Temperature: -40°C ~ 50°C (-40°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 7/8/9
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, desiccant bag, screw driver, screws pack, I/O cable, mounting bracket, software CD

Dimensions	
• FE8174V	• FE8174
	

Compatible Accessories		
Mounting Kits		
	AM-518 Dome adapter	
	AM-515 NPT adapter (for AM-518)	
Power Adapter		
	AA-221 DC 12V Power Adapter	
PoE Kits		
	POE-IJ-1748NDN PoE injector, 802.3af compliant	
Wireless		
	N600AG Outdoor wireless access point	

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Ver 1.0



Fisheye Network Camera FE8174/74V



5MP • 360° Surround View • IP66 •
Vandal-proof • Pixel Counter

VIVOTEK FE8174/74V is the latest fisheye fixed dome network camera 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 camera is able to provide coverage of wide, open areas, such as airports, shopping malls, parking lots, retail stores, offices and more.

The FE8174/74V 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 counter function helps the user to ensure the image quality of a desired area.

As with all VIVOTEK true day/night cameras, the FE8174/74V features a removable IR-cut filter, maintaining clear images 24 hours a day. FE8174V's IP66-rated housing is designed to help the camera body withstand rain and dust and ensures operation under a multitude of harsh weather conditions; additionally, the vandal-proof IK10-rated housing effectively provides robust protection from physical damage. Together with 802.3af compliant PoE, MicroSD/SDHC/SDXC card slot for on-board storage, EN50155 mobile surveillance and iPad applications, the FE8174/4V 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 FE8174/74V are 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 FE8174/74V can provide an overview of the region from wall to wall.

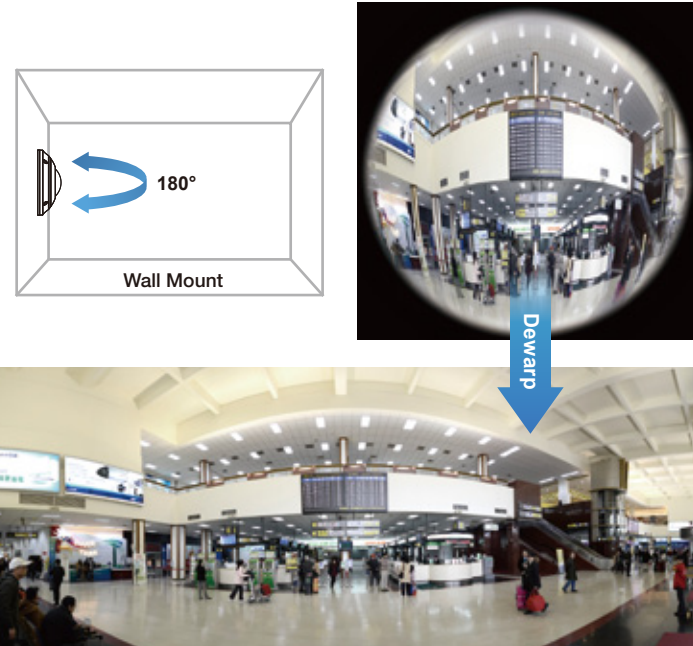
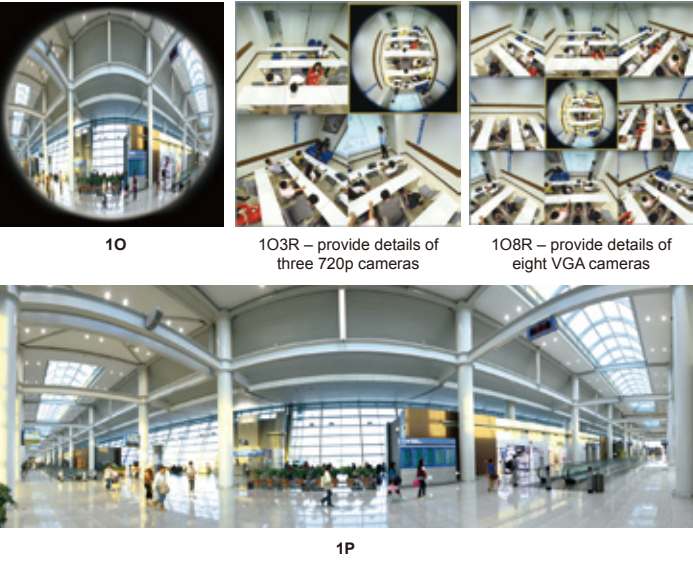


Image Capture with Greater Data Efficiency

• Flexible Display Mode

The overview image captured by the FE8174/74V can be tailored in various ways according to specific applications. The FE8174/74V offer 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:

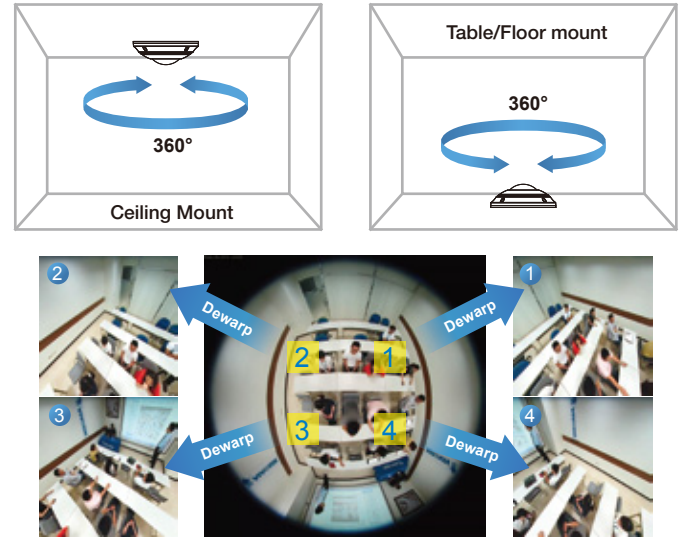


• O – Original Surround View
• P – Panoramic View
• R – Regional View

The “1O” refers to the original image without processing. For legal purposes, keeping the raw data can be very important and necessary for forensic experts to conduct analysis during the examination process.

• 360° Surround View

When mounted on the ceiling, the FE8174/74V 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.

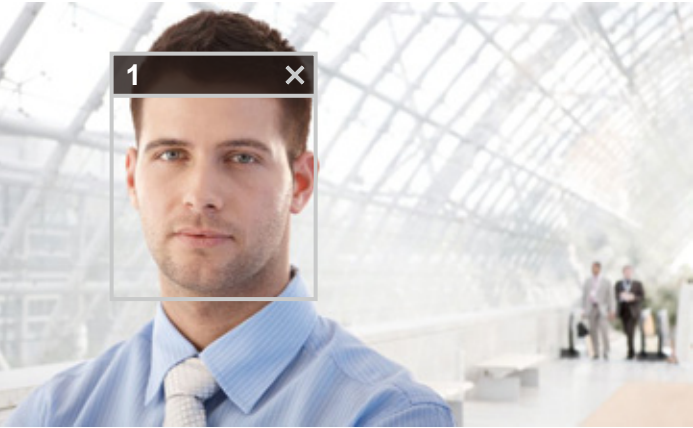


Dewarp

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 rectilinear projection using an integrated plug-in for specific viewing and analysis.

• Pixel Calculator

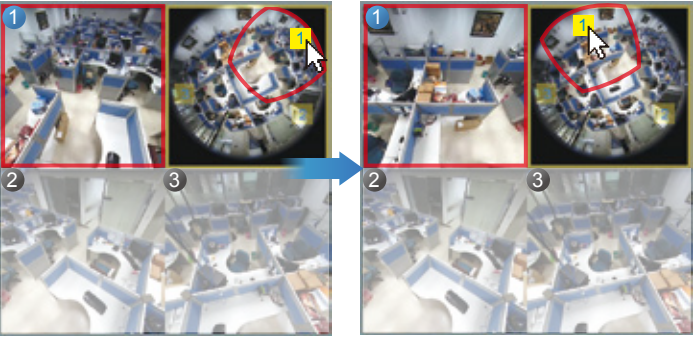
The pixel calculator helps the installer to easily ensure that the camera installation fulfills the pixel resolution required in an application. By using the tool to draw up to 3 windows on the video screen around the areas of interest, the installer can properly place and adjust the camera view to capture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



• ePTZ

The FE8174/74V provide 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 FE8174/74V respond 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 FE8174/74V deliver 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.



Reliability in Demanding Environments (FE8174V Only)

• Vandal-proof IK10-rated Housing

Equipped with a protective housing, the FE8174V is protected from vandalism, making it suitable for high-risk environments. The metal base and polycarbonate cover enable the FE8174V to withstand high impacts, thereby ensuring functional operation at all times.



• EN50155 Compliance

With resistance to an extended working temperature range of -40°C to 50°C, the FE8174V is compliant with the EN50155 standard for electronic equipments operating in railway vehicles. It also meets the EN50155’s shock and vibration requirements to provide high reliability and rugged performance during movement.



• IP66-rated Housing

The weather-proof IP66-rated housing provides protection from dust and water, allowing the FE8174V to operate in the outdoor setting under a multitude of weather conditions.



FE8174/74V | Fisheye Network Camera

- 5-Megapixel CMOS Sensor
- 30 fps @ 1080p Full HD
- 1.1 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 (FE8174V)
- Real-time H.264, MPEG-4, and MJPEG Compression (Triple Codec)
- WDR Enhancement for Unparalleled Visibility in Extremely Bright or Dark Environments
- Vandal-proof IK10-rated and Weather-proof IP66-rated Housing (FE8174V)
- ePTZ for Data Efficiency
- Built-in 802.3af Compliant PoE
- Built-in MicroSD/SDHC/SDXC Card Slot for On-board Storage
- Pixel Counter for Image Clarity Measurement
- Support Local or Client Side Dewarping

