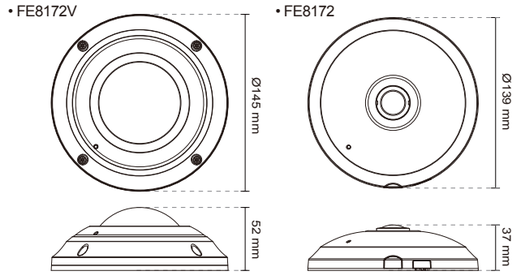
Technical Specifications

Models	SF8172 SF8172V (Vandal-proof)
System Information	
CPU	Multimedia SoC (System-on-Chip)
Flash	128 MB
RAM	128 MB
Camera Features	
Image Sensor	1/2.5" Progressive CMOS in 2560x1920 resolution
Maximum Resolution	1920x1920
Lens Type	Fixed-focal
Focal Length	f = 1.05 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	H.264: 15 fps at 1920x1920 30 fps at 1920x1080 MPEG-4: 15 fps at 1920x1920 30 fps at 1920x1080 MJPEG: 15 fps at 1920x1920 30 fps at 1920x1080
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	GSM-AMR, 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/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	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 12V DC power input Digital input*1 Digital output*1
LED Indicator	System power and status indicator
Power Input	12V DC IEEE 802.3af PoE Class 2
Power Consumption	Max. 5.1 W (12V DC) Max 5.3 W (PoE)
Dimensions	Ø: 145 mm x 52 mm (SF8172V) Ø: 139 mm x 37 mm (SF8172)
Weight	Net: 545g (SF8172V) Net: 358g (SF8172)
Casing	Vandal-proof IK10-rated metal housing (SF8172V) Weather-proof IP66-rated housing (SF8172V)
Safety Certifications	CE, LVD, FCC Class A, VCCI, C-Tick, UL EN50155 (SF8172V)
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.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, VAST CMS (90-day free trial version)
Others	Quick installation guide, warranty card, alignment sticker, desiccant bag, screw driver, screws pack, I/O cable, mounting bracket

Dimensions



Compatible Accessories

Mounting Kits

Ceiling Mount:

AM-51A Dome adapter

AM-517 NPT adapter

AM-114 Pendant head

AM-117 Pendant pipe (40 cm)

Wall Mount:

AM-51A Dome adapter

AM-517 NPT adapter

AM-116 Pendant pipe (20 cm)

AM-212 Wall mount bracket

Power Adapter

AA-221 12V DC Power Adapter

PoE Kits

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

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Ver 1.0

VIVOTEK
BUILT WITH RELIABILITY

Fisheye Network Camera SF8172/72V

5MP • 360° Surround View • Pixel Calculator • Panoramic PTZ

VIVOTEK SF8172/72V 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 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.

As with all VIVOTEK true day/night cameras, the SF8172/72V feature removable IR-cut filters, maintaining clear images 24 hours a day. SF8172V'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 (SF8172V only) and iPad applications, the SF8172/72V are indisputably the top choice for constructing a robust surveillance system with the greatest coverage possible.

Moreover, SF8172/72V are compatible with the VIVOTEK Panoramic PTZ solution. Panoramic PTZ is a groundbreaking new technology developed by VIVOTEK for monitoring open areas with extreme detail. This feature is realized through the synergy of a VIVOTEK megapixel fisheye camera with speed dome camera, and allows users to simultaneously monitor an area overview from a fisheye model while providing the capability for a detailed regional view from a speed dome. Suitable applications for Panoramic PTZ include department stores, station lobbies, airports, parking lots, and any wide open areas where comprehensive video surveillance systems and the capability for extreme video detail are essential.

SUPREME

Panoramic PTZ

• 360° Seamless Surveillance Solution

Illustration

1O - Original surround view from fisheye.
1P - Panoramic view from fisheye.
1R - Regional view from speed dome.

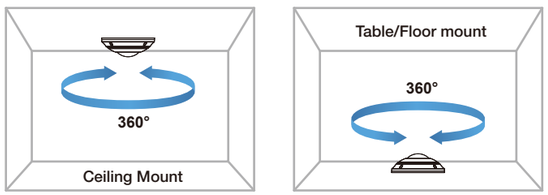
Panoramic PTZ integrates a VIVOTEK fisheye camera with a speed dome camera, allowing users to simultaneously monitor an overview from a fisheye camera and a detailed regional view from a speed dome camera.
*Compatible camera list please refer to VIVOTEK website
*90-day free trial VAST CMS is included in the software CD.
*VAST version: 1.7.7.0 or above

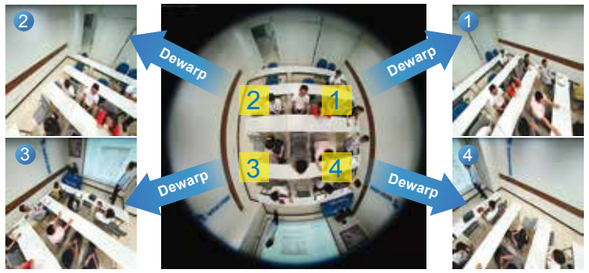
Comprehensive Overview without Blind Spots

With a wide-angle field of view, the SF8172/72V are able to capture 360° surround views without blind spots, effectively reducing the need for other cameras as well as physical maintenance.

• 360° Surround View

When mounted on the ceiling, the SF8172/72V 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.

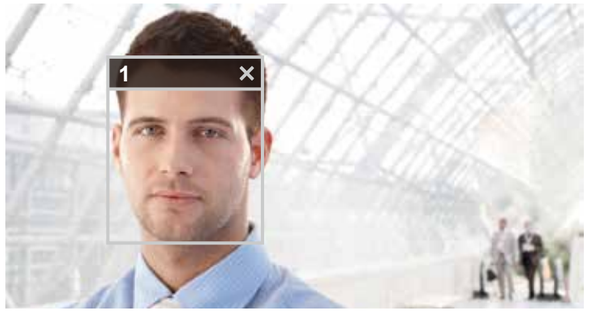




Dewarp
Optical distortion is unavoidable for ultra wide-angle and fisheye lenses. The hemispherical images captured from the fisheye camera are convex, especially the image borders; however, software allows the image to be dewarped and remapped into conventional rectilinear projection using an integrated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

• Pixel Calculator

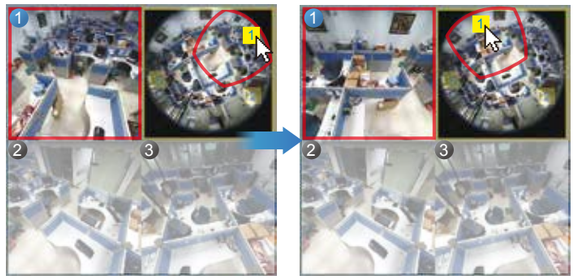
The pixel calculator helps the installer to easily ensure that the camera installation fulfills the pixel resolution required in an application. By using the tool to draw up to 3 windows on the video screen around the areas of interest, the installer can properly place and adjust the camera view to capture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



• ePTZ

The SF8172/72V 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 SF8172/72V 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 SF8172/72V 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.

Day | Night

Reliability in Demanding Environments (SF8172V Only)

• Vandal-proof IK10-rated Housing

Equipped with a protective housing, the SF8172V is protected from vandalism, making it suitable for high-risk environments. The metal base and polycarbonate cover enable the SF8172V 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 SF8172V 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 SF8172V to operate in the outdoor setting under a multitude of weather conditions.

SF8172/72V | Fisheye Network Camera

- 5-Megapixel CMOS Sensor
- 30 fps @ 1080p Full HD
- 1.05 mm Fisheye Lens for 360° Surround View
- Panoramic PTZ Compatible
- Removable IR-cut Filter for Day & Night Function
- EN50155 Compliance for Professional Mobile Surveillance (SF8172V)
- 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 (SF8172V)
- 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

• SF8172
• SF8172V

ONVIF