



FE9191



FE9391-EV

Fisheye Network Camera



IMMERVISION
enables®

H.265 • 12MP • 360° Panomorph View • WDR Pro • PPTZ •
360° 20M IR • Smart IR II • Smart Stream III • IP66 • IK10 • EN50155

VIVOTEK's FE9191 and FE9391-EV are the next generation of market-leading 12-Megapixel 360° panomorph network cameras, both featuring a detailed 12-Megapixel CMOS sensor which guarantees superb image quality. Utilizing the latest in panomorph lens technology for 180° panoramic view (wall mount) or 360° surround view (ceiling/wall mount) with zero blind spots, these cameras are able to provide comprehensive coverage of open areas such as airports, shopping malls, parking lots, retail stores, offices and more.

The FE9191 and FE9391-EV (IP66, IK10 rated) are the successors to FE8191 and FE8391-V in the VIVOTEK 360° surround view family. Both new models are equipped with a removable IR-cut filter and WDR Pro technology, allowing the cameras to maintain optimal image quality around the clock for unparalleled visibility under high-contrast lighting environments. 3D Noise Reduction technology enables the cameras to capture clear, polished video under low-light conditions. The FE9191 and FE9391-EV's

use of the latest in panomorph lens technology has led to much improved image quality with a huge drop in edge distortion. The FE9391-EV is also updated with the latest in IR illumination, VIVOTEK's Smart IR II technology with Adaptive IR. Adaptive IR enables the FE9391-EV's IR illuminators to adjust to the scene together or individually to provide the best possible IR image, reducing glaring hotspots and/or underexposed dark spots.

The FE9191 and FE9391-EV also now include a new wave of advanced Video Content Analyses (VCA) - Smart 360 VCA, including intrusion detection, crowd detection, and loitering detection. These features are the next steps in elevating surveillance cameras from image capturing devices to advanced notification instruments, allowing users to see more in smarter ways.

Key Features

- 12-Megapixel CMOS Sensor
- Real-time H.265, H.264 and MJPEG Compression (Triple Codec)
- 30 fps @ 2816x2816
- 1.29 mm Panomorph Lens for 180° Panoramic View and 360° Surround View
- Removable IR-cut Filter for Day & Night Function
- 360° 20M IR with Smart IR II (FE9391-EV)
- WDR Pro (120dB) to Provide Extreme Visibility in High Light Contrast Scenes
- Panoramic PTZ Function with Speed Dome Camera for Monitoring Detailed Regional View
- Trend Micro IoT Security within Standard Warranty Period
- Smart Motion Detection to Reduce False Alarms
- Smart 360 VCA (Intrusion Detection, Crowd Detection, Loitering Detection)
- ePTZ for Data Efficiency
- Support Client Side Dewarping
- Pixel Calculator for Image Clarity Measurement
- Vandal-proof IK10-rated and Weather-proof IP66-rated Housing (FE9391-EV)



With Smart IR



With Smart IR II (FE9391-EV)

Technical Specifications

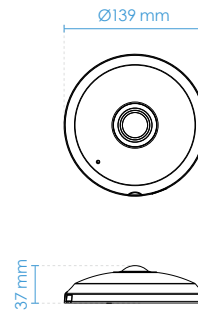
Model	FE9191: 12MP 360° Panomorph Camera FE9391-EV: 12MP 360° Panomorph Camera, 360° 20M IR, IP66, IK10, EN50155	Interface	Built-in microphone External microphone input External line output
System Information		Effective Range	5 meters
CPU	Multimedia SoC (System-on-Chip)	Network	
Flash	256MB	Users	Live viewing for up to 10 clients
RAM	1GB	Protocols	IPv4, IPv6, TCP/IP, HTTP, HTTPS, UPnP, RTSP/ RTP/RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE, CoS, QoS, SNMP, 802.1X, SSL/ TLS, ARP, CIFS/SMB
Camera Features		Interface	10 Base-T/100 Base-TX/1000 Base-T Ethernet (RJ-45) *It is highly recommended to use standard CAT5e & CAT6 cables which are compliant with the 3P/ETL standard.
Image Sensor	1/1.7" Progressive CMOS in 4000x3000	ONVIF	Supported, specification available at www.onvif.org
Maximum Resolution	2816x2816	Intelligent Video	
Lens Type	Fixed-focal	Smart Motion Detection	Five-window video motion detection, people detection, time filter
Focal Length	f = 1.29 mm	Smart 360 VCA	Intrusion detection, crowd detection, loitering detection
Aperture	F2.2	VADP Package	Genetec Package, Trend Micro IoT Security, Smart Motion Detection, Amazon Kinesis Video Streams
Field of View	180° (horizontal) 180° (vertical) 180° (diagonal)	Alarm and Event	
Shutter Time	1/5 sec. to 1/16,000 sec.	Alarm Triggers	Motion detection, manual trigger, digital input, periodical trigger, system boot, recording notification, camera tampering detection, audio detection, MicroSD card life expectancy, cybersecurity events (block brute force attack, block cyber attack, quarantine event)
WDR Technology	WDR Pro	Alarm Events	Event notification using digital output, HTTP, SMTP, FTP, NAS server and MicroSD card File upload via HTTP, SMTP, FTP, NAS server and MicroSD card
Day/Night	Removable IR-cut filter for day & night function	General	
Minimum Illumination	0.18 Lux @ F2.2 (Color) <0.001 Lux @ F2.2 (B/W)	Connectors	RJ-45 cable connector for 10/100/1000Mbps Network/PoE connection Audio input *1 Audio output *1 DC 12V Power input Digital input *1 Digital output *1
Pan/Tilt/Zoom Functionalities	ePTZ: 12x digital zoom (12x on IE plug-in)	LED Indicator	System power and status indicator
IR Illuminators	FE9391-EV: Built-in IR illuminators, effective up to 20 meters with Smart IR II	Power Input	FE9191: DC12V, PoE 802.3af Class 2 FE9391-EV: DC12V, PoE 802.3at Class 4
On-board Storage	Slot type: MicroSD/SDHC/SDXC card slot Seamless Recording	Power Consumption	FE9191: Max. 6.49 W FE9391-EV: Max. 25 W
Video		Dimensions	FE9191: Ø 139 x 37 mm FE9391-EV: Ø 160 x 62 mm
Compression	H.265, H.264, MJPEG	Weight	FE9191: 345 g FE9391-EV: 846 g
Maximum Frame Rate	30 fps @ 2816x2816	Casing	FE9391-EV: IP66, IK10
Maximum Streams	4 Simultaneous Streams	Safety Certifications	FE9191: CE, LVD, VCCI, C-Tick, UL, FCC Class B FE9391-EV: CE, LVD, VCCI, C-Tick, UL, FCC Class A, EN50155
S/N Ratio	42.9 dB		
Dynamic Range	120 dB		
Video Streaming	Adjustable resolution, quality and bitrate, configurable video cropping for bandwidth saving, Smart Stream III		
Image Settings	Adjustable image size, quality and bit rate, time stamp, text overlay, flip & mirror, scheduled profile settings, configurable brightness/contrast/saturation/sharpness, pixel calculator, 3D-Noise reduction, white balance, exposure control, gain, backlight compensation, privacy masks, defog		
Audio			
Audio Capability	Two-way audio (full duplex)		
Compression	G.711, G.726		

Technical Specifications

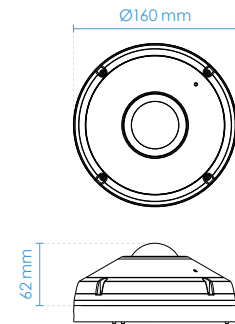
Operating Temperature	FE9191: Starting Temperature: 0°C ~ 50°C (32°F ~ 122°F) Working Temperature: -10°C ~ 50°C (14°F ~ 122°F) FE9391-EV: Starting Temperature: -25°C ~ 50°C (-13°F ~ 122°F) Working Temperature: -40°C ~ 50°C (-40°F ~ 122°F)
Humidity	90%
Warranty	36 months
System Requirements	
Operating System	Microsoft Windows 8/7
Web Browser	Internet Explorer 10/11
Other Players	VLC: 1.1.11 or above QuickTime: 7 or above
Included Accessories	
Others	Quick installation guide, warranty card, alignment sticker, desiccant bag, screw driver, screws pack, mounting bracket, I/O cable (Cable not included in North America)

Dimensions

• FE9191







• FE9391-EV



Compatible Accessories

Mounting Kits

 <p>AM-520 Dome adapter</p>	 <p>AM-116/AM-117 Pendant pipe (20cm/40cm)</p>	 <p>AM-114/AM-118 Pendant head</p>	 <p>AM-514 Adapter ring (for FE9191)</p>
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