

FE9391-EV-V2-M12

Fisheye Network Camera

12MP • Fisheye • WDR Pro • Invisible IR • Smart IR II • Smart Stream III • EN50155

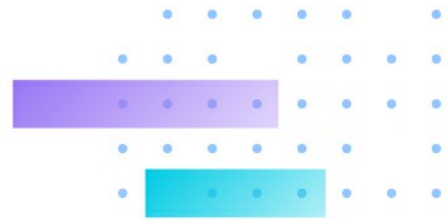
Technical Specifications

System Information

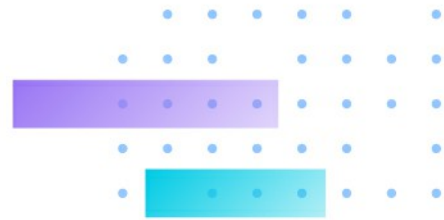
Model	FE9391-EV-V2-M12
CPU	Multimedia SoC (System-on-Chip)
Flash	8 GB
RAM	2 GB

Camera Features

Image Sensor	1/2.3" Progressive CMOS in 4056x3040
Max. Resolution	2816x2816
Lens Type	Fixed-focal
Focal Length	f = 1.18 mm
Aperture	F2.18
Iris Type	Fixed-iris
Field of View	180° ± 5° (Horizontal) 180° ± 5° (Vertical)
Shutter Time	1/5 sec. to 1/32,000 sec.
WDR Technology	WDR Pro
Day/Night	Yes
Removable IR-cut Filter	Yes
IR Illuminators	Built-in 940nm IR illuminators, effective up to 5 meters with Smart IR II, IR LED*4
Minimum Illumination	0.1 lux @ F2.18 (Color) < 0.005 lux @ F2.18 (B/W) 0 lux with IR illumination on
Pan/Tilt/Zoom Functionalities	ePTZ: 12x digital zoom (12x on IE plug-in)
Storage	Seamless Recording to MicroSD/SDHC/SDXC card and recording to network-attached storage (NAS)



Built-in Installation Aids	Pixel calculator
Video	
Video Compression	H.265, H.264, MJPEG
Maximum Frame Rate	30 fps @ 2816x2816 (WDR off) 20 fps @ 2816x2816 (WDR on)
Maximum Streams	3 video streams (up to 8 configurable profiles)
S/N Ratio	56.9 dB
Dynamic Range	120 dB
Video Streaming	Adjustable resolution, quality and constant bit rate control, Smart Stream III
Image Settings	General settings: video title and time stamp overlay, video orientation (flip, mirror), day/night settings; anti-overexposure; Image settings: white balance, image adjustment (brightness, contrast, saturation, sharpness, gamma curve), defog, 3DNR; Exposure: BLC, exposure control, AE speed adjustment, WDR; Privacy mask; Scheduled profile settings; Pixel calculator
Display Mode	Client Dewarping Ceiling mounted: 1O Fisheye*, 1P Panoramic*, 2P Two Panoramics, 1R One Region*, 4R Four Regions, 1O3R One Fisheye Three Regions, 1O8R One Fisheye Eight Regions Wall mounted: 1O Fisheye*, 1P Panoramic*, 1R One Region*, 4R Four Regions, 1P2R One Panoramic Two Regions, 1P3R One Panoramic Three Regions, 1O3R, One Fisheye Three Regions * Available only by Plug-in free browser Local Dewarping Ceiling mounted: 1O Fisheye, 1P Panoramic, 2P Two Panoramics, 1R One Region, 4R Four Regions Wall mounted: 1O Fisheye, 1P Panoramic, 1R One Region, 4R Four Regions
Display Resolution	1O : 2816x2816, 2560x2560, 2048x2048, 1920x1920, 1536x1536, 1280x1280, 1024x1024, 768x768 Local Dewarp Mode 1P: 2816x704, 2560x640, 2048x512, 1920x480, 1536x384 2P: 2816x2816, 2560x2560, 2048x2048, 1920x1920, 1536x1536 1R: 1408x1408, 1280x1280, 1024x1024, 960x960, 768x768 4R: 2816x2816, 2560x2560, 2048x2048, 1920x1920, 1536x1536
Audio	
Audio Capability	Two-way Audio (full duplex) * * Requires optional cable
Audio Compression	G.711, G.726, MPEG-2 AAC-LC
Audio Interface	Built-in microphone External microphone input* External line output* *Requires optional cable
Effective Range	5 meters
Network	
Users	Live viewing for up to 10 clients
Security	Access list, Account block , Audit log, Configurable password strength protection, CSRF protection, Digest authentication, HTTPS , IEEE 802.1x, Secure boot, Session timeout, Signed firmware, Trend Micro IoT Security (Brute force attack event, Cyberattack event, Quarantine event), User access log, User account management
Protocols	802.1X, ARP, Bonjour, CIFS/SMB, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IGMPv3, IPv4, IPv6, NTP, PPPoE, QoS (CoS/DSCP), RTSP/RTP/RTCP, SMTP, SNMP, SSL, TCP/IP, TLS 1.2, UDP, UPnP
Interface	10 Base-T/100 Base-TX Ethernet (M12, Female, 4pin D-coded)
ONVIF	Profile G, S, T supported, specification available at www.onvif.org
AI Analytics	
Compute Capability	Built-in CNN acceleration module
Event Application	Smart Motion Detecion (Five-window video motion detection, people detection, time filter)
Solution Integration	
Applications	Trend Micro IoT Security (3-year free trial)
Alarm and Event	
Event Trigger	Audio detection, camera tampering detection, cybersecurity events (brute force attack event, cyberattack event, quarantine event), digital input, manual trigger, motion detection, periodical trigger, recording notification, SD card life expectancy, shock detection, system boot



Event Action	Event notification via audio clip*, digital output, email, HTTP, FTP, NAS server, SD card File upload via email, HTTP, FTP, NAS server, SD card, Camera link
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General

Connectors	M12 4pin D-coded, Female connector for 10/100 Mbps PoE network connection Audio input* Audio output* DC 12V power input* Digital input* *Requires optional cable
LED Indicator	System power and status indicator
Power Input	IEEE 802.3at PoE Class 4
Power Consumption	Max. 18 W/9.55 W (IR on/off)
Dimensions	Ø 160 x 61.7 mm
Weight	Approx. 930g
Certifications	EMC: CE (EN 55032, EN 55035 Class A), FCC (FCC Part 15 Subpart B Class A), ICES-003 Issue 07, RCM (AS/NZS CISPR 32 Class A), VCCI (VCCI-CISPR 32 Class A), EMV06; Safety: UL (UL 62368-1), CB (IEC/EN 62368-1, IEC/EN 60950-22, IEC/EN 62471); Environment: IK10 (IEC 62262), IP66/67 (IEC 60529), NEMA (NEMA 250 Type 4X); Railway: EN 50155: 2021 (OT4/ST1), EN 50121-3-2:2016, EN 60068-2-1:2007, EN 60068-2-2:2007, EN 61373:2010, EN 45545-2, IEC 60571 Ed 3.0, IEC 62236-3-2 Ed 3.0, EN50121-4:2016; Vehicles: ECE R118, E-Mark BI: BSMI (EMC: CNS 13438, Safety: CNS 14336-1)
Operating Temperature	Starting Temperature: -40°C ~ 70°C (-40°F ~ 158°F) Working Temperature: -40°C ~ 70°C (-40°F ~ 158°F) (IR off) -40°C ~ 60°C (-40°F ~ 140°F) (IR on)
Humidity	98% RH (non-condensing)

System Requirements

Operating System	Microsoft Windows 10/8/7 Mac 10.12 (Chrome only)
Web Browser	Chrome 58.0 or above Internet Explorer 11
Other Players	VLC: 1.1.11 or above

Included Accessories

Packing Contents	Quick installation guide, alignment sticker, screw pack, desiccant bag
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DORI (EN 62676-4 Standard)

Detect (25PPM/ 8PPF)	30.3 m (99.4 ft)
Observe (63PPM/ 19PPF)	12.0 m (39.4 ft)
Recognize (125PPM/ 38PPF)	6.1 m (20.0 ft)
Identify (250PPM/ 76PPF)	3.0 m (9.8 ft)

