









Fisheye Network Camera

12MP • 360° Fisheye • WDR Pro • Smart Stream III • Smart VCA • IK10

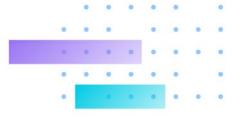
## **Technical Specifications**

## System Information

oystem mormation	
Model	FE9191-H-v2
CPU	Multimedia SoC (System-on-Chip)
Flash	8 GB
RAM	2 GB
Camera Features	
mage Sensor	1/2.3" Progressive CMOS in 4056x3040
Max. Resolution	2944x2944
Lens Type	Fixed-focal
Focal Length	f = 1.22 mm
Aperture	F2.0
ris Type	Fixed iris
Field of View	180° (Horizontal) 180° (Vertical) 180° (Diagonal)
Shutter Time	1/5 sec. to 1/32,000 sec.
NDR Technology	WDR Pro
Day/Night	Yes
Removable IR-cut Filter	Yes
Minimum Illumination	0.1 lux @ F2.0 (Color) <0.005 lux @ F2.0 (B/W)
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 @ 2944x2944 (WDR off)
	20 fps @ 2944x2944 (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: 10 Fisheye, 1P Panoramic, 2P Two Panoramics, 1R One Region, 4R Four Regions, 103R One Fisheye Three Regions, 108R One Fisheye Eight Regions Wall mounted: 10 Fisheye, 1P Panoramic, 1R One Region, 4R Four Regions, 1P2R One Panoramic Two Regions, 1P3R One Panoramic Three Regions, 103R, One Fisheye Three Regions
	Local Dewarping Ceiling mounted: 10 Fisheye, 1P Panoramic, 2P Two Panoramics, 1R One Region, 4R Four Regions Wall mounted: 10 Fisheye, 1P Panoramic, 1R One Region, 4R Four Regions
Audio	
Audio Capability	Two-way Audio (full duplex)
Audio Compression	G.711, G.726
Audio Interface	Built-in microphone
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 (RJ-45) *It is highly recommended to use standard CAT5e & CAT6 cables which are compliant with the 3P/ETL standard.
ONVIF	Profile G, S, T supported, specification available at www.onvif.org
Al Analytics	
Compute Capability	SoC with built-in hardware deep learning accelerator
Vision Object Analytics	Object Detection: people, vehicle (4-wheeled, 2-wheeled); Attribute Extraction: people (gender, color, bag, hat), vehicle (bike, bus, car, motorcycle, truck, color); Re-Search Extraction; Path Extraction
Application	Deep Learning VCA (Smart Motion Detection, Smart VCA) Smart Motion Detection (Five-window video motion detection, People detection, Vehicle detection, Time filter), Smart VCA (Intrusion detection, Loitering detection, Line crossing detection, Unattended object detection, Missing object detection, Face detection, Crowd detection
Application available with license	Running detection, Parking Violation Detection, Restricted Zone Detection Support for more analytic applications and free trial, please visit vivotek.com/video-analytics
Solution Integration	
Applications	Stratocast, 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), manual trigger, motion detection, periodical trigger, recording notification, SD card life expectancy, shock detection, system boot
Event Action	Event notification via audio clip*, email, HTTP, FTP, NAS server, SD card File upload via email, HTTP, FTP, NAS server, SD card, Camera link



Certifications     RJ-45 cable connector for 10/100 Mbps Network/POE connection       LED Indicator     System power and status indicator       Power Input     IEEE 802.3 af POE Class 0       Power Consumption     Max. 9 W       Dimensions     o 150 x 68.2 mm       Weight     701 g       Certifications     CEE (IN 56032 Class B) (CC (ICC) Class B) (ICC) (CC) CC) Part 15 Subpart B Class B) (RCM (IAS)(IZC) CE) (ICC) CC) (ICC) CC) Part 15 Subpart B Class B) (RCM (IAS)(IZC) CE) (ICC) (ICC) Part 15 Subpart B Class B) (RCM (IAS)(IZC) CE) (ICC) (ICC) (ICC) (ICC) Part 15 Subpart B Class B) (RCM (IAS)(IZC) CE) (ICC) (IC		
LED Indicator   System power and status indicator     Power Input   IEEE 802.3af PoE Class 0     Power Consumption   Max. 9 W     Dimensions   ø 150 x 68.2 mm     Weight   701 g     Exerct Scott Sco	General	
Power InputIEEE 802. 3af PoE Class 0Power ConsumptionMax. 9 WDimensionsø 150 x 68.2 mmWeight701 gCertificationsEMC: CE (EN 55032 Class B, EN 55035), FCC (FCC Part 15 Subpart B Class B), RCM (AS/NZS CISFR32 Class B), VCCI (VCCI-CISFR 32 Class B), VCCA (6S EN 55032/015+A11: 2020), IEE SEN 550352/015+A12: 2020, IEE SEN 55032: 2015+A11: 2020, IEE SEN 15032: 2015+A11: 2010; IEE SEN 15032:	Connectors	RJ-45 cable connector for 10/100 Mbps Network/PoE connection
Prover Consumption     Max. 9 W       Dimensions     a 150 x 68.2 mm       Weight     701 g       BMC: CE (EN 55032 Class B, EN 55035), FCC (FCC Part 15 Subpart B Class B), RCM (AS/NZS CISPR32 Class B), VCCI (VCC)-CISPR 32 Class B), UKCA (BS EN 55032:2015+A11: 2020, BS EN 55032:2017+A11: 2020, BS EN EC 62268-1:2020+A11: 2020, ICES-003 Issue 7 BSMI (EMC: CNS 13438, Safety: CNS 14336-1) Safety: UL (UL2288-1) CO (IEC/EN 62368-1, IEC/EN 60950-22, IEC/EN 62471); BS (SI 12252) BSMI (EMC: CNS 13438, Safety: CNS 14336-1) "K10 (Metal Housing)       Operating Temperature     Starting Temperature: -0° C - 50°C (14"F ~122"F) Working Temperature: -0° C - 50°C (14"F ~122"F)       Humidity     90% RH (non-condensing)       System Requirements     Chrome 58.0 or above Internet Explorer 11       Other Players     VLC: 1.1.11 or above       Included Accessories     VLC: 1.1.11 or above       Packing Contents     Quick installation guide, alignment sticker, screw pack, mounting bracket       DDRI (EN 62676-4 Standard)     Uci installation guide, alignment sticker, screw pack, mounting bracket       DDRI (EN 62676-4 Standard)     215 m (41 ft)       Observe (63PPMV 19PPF)     6.3 m (20.7 ft)	LED Indicator	System power and status indicator
Dimensions     e 150 x 66.2 mm       Weight     701 g       EMC: CE (EN 55032 Class B, EN 55035),FCC (FCC Part 15 Subpart B Class B),RCM (AS/NZS CISPR32 Class B),UCCI (VCC)-CISPR 32 Class B),UCA (BS EN 55032:015+A11: 2020, DS EN 55035:2017+A11: 2020, DS EN IEC 62068-1:2020+A11: 2020, DS EN 15035:2015+A11: 2020, DS EN IEC 62068-1:2020+A11: 2020, DS (IEC/EN 62368-1, IEC/EN 60950-22, IEC/EN 62471); Li (LI22368-1) CB (IEC/EN 6236-1, IEC/EN 62361; LI (LI22368-1) CB (IEC/EN 62367-1, IEC/EN 62476-1) Starting Temperature: -10° C - 50° C (14° F -122° F) Working Temperature: -10° C - 50° C (14° F -122° F) Working Temperature: -10° C - 50° C (14° F -122° F) Working Temperature: -10° C - 50° C (14° F -122° F) Working Temperature: -10° C - 50° C (14° F -122° F) Working Temperature: -10° C - 50° C (14° F -122° F) Working Temperature: -10° C - 50° C (14° F -122° F) Working Temperature: -10° C - 50° C (14° F -122° F) Working Temperature: -10° C - 50° C (14° F -122° F) Working Temperature: -10° C - 50° C (14° F -122° F) Working Temperature: -10° C - 50° C (14° F -122° F) Working Temperature: -10° C - 50° C (14° F -122° F) Working Temperature: -10° C - 50° C (14° F -122° F) Working Temperature: -10° C - 50° C (14° F -122° F) Working Temperature: -10° C - 50° C (14° F -122° F) Working Temperature: -10° C - 50° C (14° F -122° F) Working Temperature: -1	Power Input	IEEE 802.3af PoE Class 0
Weight     701 g       EMC: CC (EN 55032 Class B, LN 55035), FCC (FCC Part 15 Subpart B Class B), RCM (ASV/S2S CISPR32 Class B), VCC (IVCCI-CISPR 32 Class B), VCA (IS EN 55032.2015+A11: 2020, BS EN 55035:2017+A11:2020, BS EN IEC 62388-1:2020+A11:2020, ICES-003 Issue 7 BSMI (EMC: CNS 13438, Safety: CNS 14336-1) safety: UL (UL62388-1), IEC/EN 62388-1, IEC/EN 60950-22, IEC/EN 62471); IA: IA: IA: IA: IA: IA: IA: IA: IA: IA:	Power Consumption	Max. 9 W
EMC:   EMC:     CE (EN 55032 Class B, EN 55035), FCC (FCC Part 15 Subpart B Class B), RCM (AS/N2S Class B), VCC1, (VCCI-CISPR 32 Class B), UKCA, (BS EN 55032,2015+A11: 2020, BS EN 55035,2017+A11:2020, BS EN 1EG 62368-1:020+A11:2020), ICES-003 Issue 7 BSMI (EMC: CNS 13438, Safety: CNS 14336-1)     Safety:   UL (LL62368-1)     Certifications   Safety:     Operating Temperature   Kisting Temperature: 0°C ~ 50°C (32°F ~122°F)     Working Temperature:   Vorking Temperature: -10°C ~ 50°C (14°F ~122°F)     Humidity   90% RH (non-condensing)     System Requirements   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     DRI (EN 62676-4 Standard)   Ucik installation guide, alignment sticker, screw pack, mounting bracket     DORI (EN 62676-4 Standard)   31.5 m (103.3 ft)     Deserve (63PPM/ 19PPF)   31.5 m (41 ft)     Recognize (125PPM 38PPF)   6.3 m (20.7 ft)	Dimensions	ø 150 x 68.2 mm
CertificationsCE [EN 55032 Class B, EN 55032 f.CC (FC C Part 15 Subpart B Class B), RCM (AS/N2S ClisPR32 Class B), UCC (VCC-CISPR 32 Class B), UKCA (BS 55032 01345411: 2020), ICES-003 Issue 7 BSMI (EMC: CNS 13438, Safety: CNS 14336-1) Safety: UL (UL62368-1), IEC/EN 60950-22, IEC/EN 62471); L3 BIS (IS 13252) BSMI [EMC: CNS 14336-1)Operating TemperatureStarting Temperature: 0°C ~ 50°C (12°F ~122°F) Working Temperature: -10°C ~ 50°C (14°F ~122°F)Operating SystemMicrosoft Windows 10/8/7 Mac 10.12 (Chrome only)System RequirementsChrome 58.0 or above Internet Explorer 11Other PlayersVLC: 1.1.11 or aboveInternet Explorer 11 Other PlayersQuick installation guide, alignment sticker, screw pack, mounting bracketDORI (EN 62676-4 Standard)31.5 m (103.3 ft)Obesrve (63PPM/ 19PPF)6.3 m (20.7 ft)	Weight	701 g
Operating temperature     Working Temperature: -10° C ~ 50° C (14° F ~122° F)       Humidity     90% RH (non-condensing)       System Requirements     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     Quick installation guide, alignment sticker, screw pack, mounting bracket       DORI (EN 62676-4 Standard)     31.5 m (103.3 ft)       Detect (25PPM / 8PPF)     31.5 m (41 ft)       Observe (63PPM/ 19PPF)     6.3 m (20.7 ft)	Certifications	CE (EN 55032 Class B, EN 55035),FCC (FCC Part 15 Subpart B Class B),RCM (AS/NZS CISPR32 Class B),VCCI (VCCI-CISPR 32 Class B),UKCA (BS EN 55035:2015+A11: 2020, BS EN 55035:2017+A11:2020, BS EN IEC 62368-1:2020+A11:2020),ICES-003 Issue 7 BSMI (EMC: CNS 13438, Safety: CNS 14336-1) Safety: UL (UL62368-1) CB (IEC/EN 62368-1, IEC/EN 60950-22, IEC/EN 62471); IA: BIS (IS 13252) BSMI (EMC: CNS 13438, Safety: CNS 14336-1)
System Requirements   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   Quick installation guide, alignment sticker, screw pack, mounting bracket     DORI (EN 62676-4 Standard)   31.5 m (103.3 ft)     Observe (63PPM/ 19PPF)   12.5 m (41 ft)     Recognize (125PPW 38PPF)   6.3 m (20.7 ft)	Operating Temperature	
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: 1.1.1 or above     Included Accessories   Quick installation guide, alignment sticker, screw pack, mounting bracket     DORI (EN 62676-4 Standard)   Quick installation guide, alignment sticker, screw pack, mounting bracket     Detect (25PPW 8PPF)   31.5 m (103.3 ft)     Observe (63PPM/ 19PPF)   12.5 m (41 ft)     Recognize (125PPM 38PPF)   6.3 m (20.7 ft)	Humidity	90% RH (non-condensing)
Operating System     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     Quick installation guide, alignment sticker, screw pack, mounting bracket       DORI (EN 62676-4 Standard)     Quick installation guide, alignment sticker, screw pack, mounting bracket       Detect (25PPW 8PPF)     31.5 m (103.3 ft)       Observe (63PPM/ 19PPF)     12.5 m (41 ft)       Recognize (125PPM 38PPF)     6.3 m (20.7 ft)	System Requirements	
Web Browser     Internet Explorer 11       Other Players     VLC: 1.1.11 or above       Included Accessories     Quick installation guide, alignment sticker, screw pack, mounting bracket       Packing Contents     Quick installation guide, alignment sticker, screw pack, mounting bracket       DORI (EN 62676-4 Standard)     31.5 m (103.3 ft)       Detect (25PPW 8PPF)     31.5 m (41 ft)       Observe (63PPM/ 19PPF)     6.3 m (20.7 ft)	Operating System	
Included Accessories   Quick installation guide, alignment sticker, screw pack, mounting bracket     Packing Contents   Quick installation guide, alignment sticker, screw pack, mounting bracket     DORI (EN 62676-4 Standard)   31.5 m (103.3 ft)     Detect (25PPW 8PPF)   31.5 m (41 ft)     Observe (63PPM/ 19PPF)   6.3 m (20.7 ft)	Web Browser	
Packing Contents Quick installation guide, alignment sticker, screw pack, mounting bracket   DORI (EN 62676-4 Standard) 31.5 m (103.3 ft)   Detect (25PPW 8PPF) 31.5 m (103.3 ft)   Observe (63PPM/ 19PPF) 12.5 m (41 ft)   Recognize (125PPW 38PPF) 6.3 m (20.7 ft)	Other Players	VLC: 1.1.11 or above
DORI (EN 62676-4 Standard)       Detect (25PPW 8PPF)     31.5 m (103.3 ft)       Observe (63PPM/ 19PPF)     12.5 m (41 ft)       Recognize (125PPM 38PPF)     6.3 m (20.7 ft)	Included Accessories	
Detect (25PPW 8PPF)     31.5 m (103.3 ft)       Observe (63PPM/ 19PPF)     12.5 m (41 ft)       Recognize (125PPW 38PPF)     6.3 m (20.7 ft)	Packing Contents	Quick installation guide, alignment sticker, screw pack, mounting bracket
Observe (63PPM/ 19PPF)     12.5 m (41 ft)       Recognize (125PPM 38PPF)     6.3 m (20.7 ft)	DORI (EN 62676-4 Standard)	
Recognize (125PPW 38PPF) 6.3 m (20.7 ft)	Detect (25PPW 8PPF)	31.5 m (103.3 ft)
	Observe (63PPM/ 19PPF)	12.5 m (41 ft)
dentify (250PPM/ 76PPF) 3.1 m (10.2 ft)	Recognize (125PPW 38PPF)	6.3 m (20.7 ft)
	Identify (250PPM/ 76PPF)	3.1 m (10.2 ft)

