



FD9391- EHTV-v2



Fixed Dome Network Camera

4K 30fps • H.265 • SNV • WDR Pro • 50M IR • Smart IR III • Vision Object Analytics • NEMA 4X • -50°C ~ 60°C

Technical Specifications

System Information

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| Model | FD9391-EHTV-v2 |
| CPU | Multimedia SoC (System-on-Chip) |
| Flash | 8 GB |
| RAM | 2 GB |

Camera Features

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| Image Sensor | 1/1.8" Progressive CMOS |
| Max. Resolution | 3840x2160 (8MP) |
| Lens Type | Motorized, Vari-focal, Remote Focus |
| Focal Length | f = 4.4 ~ 10.2 mm (f = 2.8~10.3mm, equivalent focal length @ 1/2.8") |
| Aperture | F1.38 ~ F2.24 |
| Iris Type | P-iris |
| Field of View | 110° ~ 43° (Horizontal) 57° ~ 24° (Vertical) 133° ~ 49° (Diagonal) |
| Shutter Time | 1 sec. to 1/100,000 sec. |
| WDR Technology | WDR Pro |
| Day/Night | Yes |
| Removable IR-cut Filter | Yes |
| IR Illuminators | Built-in IR illuminators, effective up to 50 meters with Smart IR II, IR LED*4 |
| Minimum Illumination | 0.01 lux @ F1.38 (Color) <0.005 lux @ F1.38 (B/W) 0 lux with IR illumination on |
| Pan Range | ±175° |
| Tilt Range | 80° |



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| Rotation Range | ±175° |
| Pan/Tilt/Zoom Functionalities | ePTZ: 48x digital zoom (4x on IE plug-in, 12x built-in) |
| Storage | Seamless Recording to MicroSD/SDHC/SDXC card and recording to network-attached storage (NAS) |
| Built-in Installation Aids | Remote focus, remote zoom, Micro USB*, pixel calculator *Requires Wi-Fi dongle and Micro B converter |
| Video | |
| Video Compression | H.265, H.264, MJPEG |
| Maximum Frame Rate | 30 fps @ 3840x2160 |
| Maximum Streams | 3 video streams (Up to 8 configurable profiles) |
| S/N Ratio | 58 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, rotation), day/night settings; Illuminators: illuminators, Smart IR (target zone); Image settings: white balance, image adjustment (brightness, contrast, saturation, sharpness, gamma curve), defog, 3DNR, LDC, EIS, scene mode (auto, deblur); Exposure: BLC, HLC, exposure control (exposure level, iris adjustment, exposure time, gain control, iris mode), AE speed adjustment, WDR; Focus: zoom, focus; Privacy mask; Pixel calculator; Scheduled profile settings |
| Audio | |
| Audio Capability | Two-way audio (Full duplex) |
| Audio Compression | G.711, G.726 |
| Audio Interface | Built-in microphone External microphone input External line output |
| Effective Range | 5 meters |
| Network | |
| Users | Live viewing for up to 10 clients |
| Security | Access list, CSRF protection, digest authentication, HTTPS, IEEE 802.1x, password protection, secure boot, 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/SFTP, HTTP/HTTPS, ICMP, IGMPv3, IPv4, IPv6, NTP, PPPoE, QoS (CoS/DSCP), RTP/RTSP/RTCP, SMTP, SNMP, SSL, TCP/IP, TLS 1.2, UDP, UPnP |
| Interface | 10 Base-T/100 Base-TX Ethernet *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 |
| AI Analytics | |
| Compute Capability | Built-in CNN acceleration module |
| 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 |
| Event Application | 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, running detection, parking violation detection*, restricted zone detection*) *License required. Please access https://license.vivotek.com/ for free trial license. |
| AI-powered Image Enhancement | Smart IR III |
| Applications | Deep Learning VCA (Smart Motion Detection, Smart VCA) |
| Solution Integration | |
| VADP Package | 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), 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, camera link, digital output, email, HTTP, FTP/SFTP, NAS server, SD card File upload via email, HTTP, FTP/SFTP, NAS server, SD card |



General

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| Connectors | RJ-45 cable connector for 10/100 Mbps PoE network connection Built-in Microphone Audio line input Audio line output DC 12V power input/AC 24V power input Digital input*2 Digital output*2 Micro USB |
| LED Indicator | System power and status indicator |
| Power Input | AC 24V/DC 12V, IEEE 802.3at PoE Class 4 (Power Redundancy) |
| Power Consumption | PoE: Max. 14.25/10.81 W (IR on/off) DC 12V: Max. 14.40/10.96 W (IR on/off) AC 24V: Max. 11.64/8.20 W (IR on/off) |
| Dimensions | ø 174 x 123 mm |
| Weight | 1.39 kg |
| Certifications | EMC: CE (EN 55032/EN 55035 Class B, EN 50121-4), FCC (FCC Part 15 Subpart B Class B), UKCA (BS EN 55032/BS EN 55035 Class B), RCM (AS/NZS CISPR 32 Class B), VCCI (VCCI-CISPR 32 Class B), IC (ICES-003 Issue 7); Safety: UL (UL 62368-1), CB (IEC/EN 62368-1, IEC/EN 60950-22, IEC/EN 62471), LVD, (EN 62368-1), UKCA (BS EN IEC 62368-1); Environment: IK10+ (IEC 62262), IP66/67 (IEC 60529), NEMA (NEMA 250 Type 4X), IEC 60068-2-11, IP6K9K (ISO 20653); IA: BIS (IS 13252), BSMI (EMC: CNS 15936, Safety: CNS 15598-1) |
| Operating Temperature | Starting Temperature: -30°C ~ 60°C (-22°F ~ 140°F) Working Temperature: -50°C ~ 60°C (-58°F ~ 140°F) (IR off) -50°C ~ 50°C (-58°F ~ 122°F) (IR on) |
| Humidity | 98% RH (non-condensing) |
| Warranty | 36 months |

System Requirements

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

Included Accessories

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| Packing Contents | Quick installation guide, product labels, alignment sticker, L-shaped wrench, screw pack, waterproof accessory pack, sunshield, conduit bracket, I/O cable |
| Optional Accessories | Please refer to Accessory Selection Guide |

DORI (EN 62676-4 Standard)

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| Detect (25PPM/ 8PPF) | Wide: 88.7 m (290.9 ft) Tele: 204.5 m (670.8 ft) |
| Observe (63PPM/ 19PPF) | Wide: 35.5 m (116.3 ft) Tele: 81.8 m (268.3 ft) |
| Recognize (125PPM/ 38PPF) | Wide: 17.7 m (58.1 ft) Tele: 40.9 m (134.1 ft) |
| Identify (250PPM/ 76PPF) | Wide: 8.8 m (28.9 ft) Tele: 20.4 m (67.0 ft) |

