# VIVOTEK FD9383-HV 2.8mm

Vivotek FD9383-HV 5MP@30FSP Network Security Camera with 2.8mm Lens

## Product Overview

Vivotek FD9383-HV 5MP@30FSP Network Security Camera with 2.8mm Lens




## Specifications

**Overview:**

The 9383 is your gateway to smarter security. As our first AI camera in the C-Series, it boasts an advanced Sony image sensor coupled with STARVIS 2 technology, delivering 2.5x greater dynamic range and light sensitivity. With Smart VCA, and vision object analytics, it's a powerhouse of AI intelligence, making your security solutions simpler, smarter, and safer.

**Features:**

- 30 fps @ 2560x1920
- H.265 Compression Technology with Smart Stream III
- SNV (Supreme Night Visibility) for Low Light Conditions
- WDR Pro for Unparalleled Visibility in Extremely Bright and Dark Environments
- 30M Smart IR III
- Signed Firmware and Secure Boot
- Smart Motion Detection
- Trend Micro IoT Security
- Smart VCA and Vision Object Analytics

**Imaging Performance**
Experience class-leading image performance with the 9383. Its advanced Sony image sensor, combined with STARVIS 2 technology, delivers exceptional clarity and precision. Enjoy a 2.5x increase in dynamic range and light sensitivity, ensuring superior visibility in all lighting conditions. From bright daylight to low-light environments, rest assured that every detail is captured with remarkable clarity.

**Daylight Clarity**
Stunning daytime imagery with vibrant colors and balanced exposure. The 83 series delivers crisp, clear visuals that capture every detail with vivid accuracy, ensuring optimal surveillance performance in any lighting condition.

**Enhanced Visibility in Harsh Lighting**

Superior image quality with WDR technology. Even in challenging scenarios like an office setting with sunlight streaming through the window, the 83 series maintains clear visibility, minimizing glare and shadowing for enhanced detail and accuracy in surveillance footage.

**Nighttime Vision**
Exceptional low-light color performance with sharper, non-overblown imagery around light sources. The 83 series ensures balanced exposure between dark and bright regions, delivering evenly-lit, well-exposed footage with balanced contrast. Enjoy clear and visible images, even within LED backlit displays, for enhanced surveillance effectiveness.

**AI Powerhouse**
Class-leading AI features in our entry-tier series, providing you with advanced analytics and vision object analytics capabilities for unmatched security solutions. Enhance your investigative efficiency with potent data revealed by the 83 series, identifying people and vehicles by their distinctive attributes such as color, gender, and type. Simplify searches and minimize redundant results with precise object tracing.

**Object Detection Performance**
Class-leading AI Processor effortlessly manages over 25 detection objects for advanced AI analytics.

**Smart VCA: AI-Powered Video Analytics on Edge**
Empowers the 83 series to collect more valuable scene awareness data than traditional frame-difference-based video motion detection. Operating as edge-based applications, Smart VCA also minimizes bandwidth and storage usage. Smart VCA is designed to improve efficiency and reduce operators' workloads.

**Vision Object Analytics: AI-Driven Solution**
While AI adoption has presented challenges in installation and configuration for many, the 83 series with VIVOTEK vision object analytics revolutionizes the process, simplifying user judgment through automated investigation.

**Design**
The 83 series is a comprehensive package, meticulously designed with fundamental principles spanning from hardware to software.

**IP66 + IK10**
Weather-resistant and vandal-proof, ensuring durability even in harsh outdoor conditions. Built to withstand extreme weather elements and protect against vandalism, providing reliable security in any environment.

**Specifications:**

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| Specifications | |
|---|---|
| **Product Code** | VIVOTEK FD9383-HV 2.8mm |
| **System Information** | |
| **Model** | FD9383-HV (2.8mm) |
| **CPU** | Multimedia SoC (System-on-Chip) |
| **Flash** | 8 GB |
| **RAM** | 2GB |
| **Camera Features** | |

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|---|---|
| **Image Sensor** | 1/2.8" Progressive CMOS |
| **Max. Resolution** | 2560x1920 (5MP) |
| **Lens Type** | Fixed-focal |
| **Focal Length** | FD9383-HV (2.8mm): f = 2.8 mm |
| **Aperture** | F2.0 |
| **Auto-iris** | Fixed iris |
| **Field of View** | FD9383-HV (2.8mm): |
| | 103.4 degrees (Horizontal) |
| | 75.3 degrees (Vertical) |
| | 135.2 degrees (Diagonal) |
| **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 IR illuminators, effective up to 30 meters with Smart IR II, IR LED*2 |
| **Minimum Illumination** | 0.055 lux @ F2.0 (Color) |
| | 0.005 lux @ F2.0 (B/W) |
| | 0 lux with IR illumination on |
| **Pan Range** | 350 degrees |
| **Tilt Range** | 75 degrees |
| **Rotation Range** | 350 degrees |
| **Pan/Tilt/Zoom Functionalities** | ePTZ: 48x digital zoom (4x on IE plug-in, 12x built-in) |
| **On-board Storage** | Seamless Recording to MicroSD/SDHC/SDKC card (1TB capacity supported) 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 @ 2560x1920 |
| **Maximum Streams** | 3 video streams (Up to 8 configurable profiles) |
| **Main Stream** | 30fps @2560x1920, 2048x1536, 1920x1440, 1600x1200, 1280x960, 800x600, 640x480 (4:3) |
| | 30fps @ 2560x1440, 1920x1080, 1600x904, 1360x768, 1280x720, 640x360 (16:9) |
| | 60 fps @ 1920x1080, 1600x904, 1360x768, 1280x720, 640x360 (16:9) |
| **2nd Stream** | 30fps @ 1920x1440, 1600x1200, 1280x960, 640x480 (4:3); |
| | 30fps @ 1920x1080, 1600x904, 1360x768, 1280x720, 640x360 (16:9) |
| | 60 fps @ 1920x1080, 1600x904, 1360x768, 1280x720, 640x360 (16:9) |

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|---|---|
| **3rd Stream** | 30fps @ 1280x960, 800x600, 640x480 (4:3); |
| | 30 fps @ 1280x720, 640x360 (16:9); |
| | 60 fps @ 1280x720, 640x360 (16:9) |
| **S/N Ratio** | FD9383-HV (2.8mm): 58 dB |
| | FD9383-HV (3.6mm): 56 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, anti-overexposure/smart IR; Image settings: white balance, image adjustment (brightness, contrast, saturation, sharpness, gamma curve), defog, 3DNR; Exposure: BLC, HLC, exposure control (exposure level, exposure time, gain control), Image sharpener for motion blur, AE speed adjustment, WDR; Privacy mask; Pixel calculator; Scheduled profile settings |
| **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, NTCIP, NTP, PPPoE, QoS (CoS/DSCP), RTSP/RTP/RTCP, SMTP, SNMP, SSL, TCP/IP, TLS 1.2/1.3, 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 |
| **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, clothing 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, Face detection) |
| **Application available with license** | Unattended object detection, Missing object detection, Crowd detection, Running detection, Parking Violation Detection, Restricted Zone Detection |
| | Support for more analytic applications and free trial |
| | please visit vivotek.com/video-analytics |
| **Applications** | Trend Micro (Default, 1-year free trial) |
| **Alarm and Event** | |
| **Event Triggers** | 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 |

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| **Events Action** | Event notification via camera link, email, HTTP, FTP/SFTP, NAS server, SD card |
| | File upload via email, HTTP, FTP/SFTP, NAS server, SD card |
| **General** | |
| **Connectors** | RJ-45 cable connector for 10/100 Mbps Network/PoE connection |
| **LED Indicator** | System power and status indicator |
| **Power Input** | IEEE 802.3af PoE Class 3 |
| **Power Consumption** | Max. 8.5 W/ 6.0 W (IR on/off) |
| **Dimensions** | Ø 117.2 x 89.6 mm |
| **Weight** | 550 g |
| **Safety Certifications** | EMC: |
| | CE (EN 55032/EN 55035 Class A), UKCA (BS EN 55032/BS EN 55035 Class A), FCC (FCC Part 15 Subpart B Class A), RCM (AS/NZS CISPR 32 Class A), VCCI (VCCI-CISPR 32 Class A), IC (ICES-003 Issue 7, Class A) |
| | Safety: |
| | UL (UL 62368-1), CB (IEC/EN 62368-1, IEC/EN 60950-22, IEC/EN 62471), LVD (IEC/EN 62368-1), UKCA (BS EN 62368-1); |
| | Environment: |
| | IK10 (IEC 62262), IP66 (IEC 60529); IA: BIS (IS 13252), BSMI (EMC: CNS 15936, Safety: CNS 15598-1) |
| **Operating Temperature** | Starting Temperature: |
| | -10 degreesC ~ 50 degreesC (-14 degreesF ~ 122 degreesF) |
| | Working Temperature: |
| | -30 degreesC ~ 55 degreesC (-22 degreesF ~ 131 degreesF) (IR off) |
| | -30 degreesC ~ 50 degreesC (-22 degreesF ~ 122 degreesF) (IR on) |
| **Humidity** | 0.9 |
| **System Requirements** | |
| **Operating System** | Microsoft Windows 10/8/7 |
| | Mac 10.12 (Chrome only) |
| **Web Browser** | Chrome 58.0 or abov |
| **Other Players** | VLC: 1.1.11 or above |
| **Included Accessories** | |
| **Packing Contents** | Quick installation guide, alignment sticker, screw pack, cable gland |
| **DORI (EN 62676-4 Standard)** | |
| **Detect (25PPM/ 8PPF)** | FD9383-HV (2.8mm): 60.4 m (198.1 ft) |
| **Observe (63PPM/ 19PPF)** | FD9383-HV (2.8mm): 24.1 m (79.2 ft) |
| **Recognize (125PPM/ 38PPF)** | FD9383-HV (2.8mm): 12 m (39.5 ft) |
| **Identify (250PPM/ 76PPF)** | FD9383-HV (2.8mm): 6.0 m (19.6 ft) |

## Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

**Product page:**
**https://www.comx-computers.co.za/VIVOTEK-FD9383-HV-2-8mm-Vivotek-FD9383-HV-5MP-30FSP-Network-Security-Camera-with-p-305568.php**

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