

VIVOTEK FD9383-HTV

VIVOTEK FD9383-HTV 5MP Outdoor Network Dome Camera User Manual

Model: FD9383-HTV

1. PRODUCT OVERVIEW

The VIVOTEK FD9383-HTV is a high-performance 5-megapixel outdoor network dome camera designed for robust surveillance applications. It features a 2.8-12mm motorized varifocal lens, providing flexibility in field of view, and integrated IR LEDs for clear night vision up to 98 feet. This camera is built to withstand harsh outdoor conditions with IP66 and IK10 ratings, ensuring protection against dust, water, and vandalism. It also includes a built-in microphone for audio monitoring.



Image 1.1: Front view of the VIVOTEK FD9383-HTV 5MP Outdoor Network Dome Camera.

Key Features:

- 2560 x 1920 Resolution at 30 fps for high-quality video.
- IR LEDs for Night Vision up to 98 feet (30 meters).
- 2.8-12mm Motorized Varifocal Lens for flexible viewing angles.
- 95.4 to 28.7° Horizontal Angle of View.
- Built-In Microphone for audio capture.
- IP66-Rated for outdoor use, protecting against dust and water.
- IK10-Rated for vandal resistance.
- Supports microSD Cards up to 1TB for local storage.
- RJ45 Ethernet with Power over Ethernet (PoE) Technology.
- Complies with ONVIF Profiles G, S, T for broad compatibility.

2. PACKAGE CONTENTS

Verify that all items are present and in good condition. If any items are missing or damaged, contact your vendor immediately.

- VIVOTEK FD9383-HTV Network Dome Camera
- Mounting Screw Kit (screws, wall anchors)
- Waterproof Connector Kit
- Alignment Sticker/Drill Template
- Quick Installation Guide

- Software CD (or download link information)

3. SAFETY INFORMATION

Please read these safety instructions carefully before operating the device to prevent injury to yourself or others and to avoid damage to the device. Keep this manual for future reference.

- **Installation:** Installation should be performed by qualified personnel only and must comply with all local codes.
- **Power Source:** Use only the specified power source (PoE or 12V DC adapter, if applicable) to avoid fire or electric shock.
- **Environment:** Do not expose the camera to extreme temperatures, humidity, or corrosive environments beyond its specified operating conditions.
- **Cleaning:** Disconnect power before cleaning. Use a soft, dry cloth. Do not use liquid or aerosol cleaners.
- **Servicing:** Do not attempt to service this product yourself. Refer all servicing to qualified service personnel.

4. SETUP

4.1 Physical Installation

The FD9383-HTV camera is designed for wall or ceiling mounting. Ensure the mounting surface is strong enough to support the camera's weight.

1. **Prepare the Mounting Surface:** Use the provided drill template to mark the screw holes on the desired mounting location.
2. **Drill Holes:** Drill pilot holes for the mounting screws and, if necessary, for the network cable. Insert wall anchors if mounting on drywall or masonry.
3. **Attach Mounting Bracket:** Secure the camera's mounting bracket to the surface using the provided screws.
4. **Connect Cables:** Route the Ethernet cable through the mounting surface or cable entry point. Connect the RJ45 connector to the camera's network port. If not using PoE, connect a 12V DC power adapter (sold separately) to the power input. Ensure waterproof connections for outdoor installations.
5. **Secure Camera Body:** Attach the camera body to the mounting bracket. Adjust the camera's orientation and angle as needed.
6. **Finalize Installation:** Secure all covers and ensure the camera is firmly mounted and protected from the elements.



Image 4.1: Illustrative diagram of camera mounting and cable connection.

4.2 Network Connection

The camera supports Power over Ethernet (PoE) for simplified installation, allowing both power and data to be transmitted over a single Ethernet cable.

- Connect the camera to a PoE-enabled switch or a PoE injector using a standard Ethernet cable.
- Alternatively, connect to a standard network switch and use a separate 12V DC power adapter.
- Ensure your network is configured to assign an IP address to the camera (DHCP recommended for initial setup).

4.3 Initial Configuration

After physical installation and network connection, you need to access the camera's web interface for initial configuration.

1. **Discover the Camera:** Use VIVOTEK's IP Search utility (available on their website) or a network scanner to find the camera's IP address on your network.
2. **Access Web Interface:** Open a web browser (e.g., Chrome, Firefox) and enter the camera's IP address in the address bar.
3. **Login:** The default username is typically 'root' and the password is 'pass'. You will be prompted to change the password upon first login for security reasons.
4. **Basic Settings:** Configure essential settings such as date/time, network settings (if not using DHCP), and user accounts.

5. OPERATING

5.1 Accessing the Camera Interface

Once configured, you can access the camera's live view and settings through its web interface or compatible VIVOTEK software/NVR systems.

- Enter the camera's IP address in your web browser.
- Log in with your configured username and password.
- The interface provides access to live video, recording settings, motion detection, and other advanced features.

5.2 Adjusting Lens and Focus

The FD9383-HTV features a motorized varifocal lens, allowing remote adjustment of zoom and focus.

- Navigate to the 'Video' or 'Lens' settings section in the web interface.
- Use the zoom controls to adjust the focal length (2.8mm to 12mm) to achieve the desired field of view.
- Utilize the focus controls to sharpen the image. Many VIVOTEK cameras offer a one-touch focus feature for automatic adjustment.

5.3 Night Vision Settings

The camera automatically switches to night vision mode in low-light conditions using its IR LEDs.

- In the 'Image' or 'IR' settings, you can configure the IR illuminator's behavior (e.g., auto, manual on/off).
- Adjust IR intensity if available, to prevent overexposure or underexposure in specific scenarios.

5.4 Recording and Storage

The camera supports various recording methods, including local storage on a microSD card and network video recording (NVR).

- **MicroSD Card:** Insert a compatible microSD card (up to 1TB) into the camera's slot. Format the card via the web interface. Configure recording schedules and triggers (e.g., continuous, motion-triggered).
- **NVR/NAS:** Connect the camera to a VIVOTEK NVR or a compatible Network Attached Storage (NAS) device. Configure recording settings on the NVR/NAS.

5.5 Motion Detection

Configure motion detection to trigger recordings, send alerts, or activate other actions.

- Access the 'Event' or 'Motion Detection' settings in the web interface.
- Define detection zones within the camera's field of view.
- Adjust sensitivity levels to minimize false alarms.
- Set up actions to be taken when motion is detected (e.g., record video, send email notification).

6. MAINTENANCE

6.1 Cleaning

Regular cleaning helps maintain optimal image quality and extends the camera's lifespan.

- **Lens:** Gently wipe the lens with a soft, lint-free cloth. For stubborn dirt, use a lens cleaning solution specifically designed for optical surfaces. Avoid abrasive materials.
- **Housing:** Wipe the camera housing with a damp cloth. Do not use strong detergents or solvents.
- **Dome Cover:** If applicable, carefully clean the dome cover to ensure clear visibility.

6.2 Firmware Updates

Periodically check the VIVOTEK website for firmware updates. Firmware updates often include bug fixes, performance improvements, and new features.

- Download the latest firmware for your FD9383-HTV model from the official VIVOTEK support page.
- Access the camera's web interface and navigate to the 'System' or 'Maintenance' section.
- Follow the on-screen instructions to upload and install the firmware. Do not power off the camera during the update process.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your VIVOTEK FD9383-HTV camera.

Problem	Possible Cause	Solution
Camera not powering on	No power from PoE switch/injector; faulty power adapter; loose cable connection.	Check PoE status on switch; verify power adapter functionality; ensure all cables are securely connected.
Cannot access camera via network	Incorrect IP address; network cable issue; firewall blocking access; camera not receiving an IP address.	Verify IP address; check network cable integrity; temporarily disable firewall; use IP Search utility to find camera.
Poor image quality (blurry, dark)	Lens out of focus; dirty lens/dome; insufficient lighting; incorrect image settings.	Adjust focus via web interface; clean lens/dome; check IR settings; reset image settings to default.
Motion detection not working	Detection zones not configured; sensitivity too low; event actions not set up.	Configure detection zones; increase sensitivity; ensure event actions (e.g., record, notify) are enabled.

Problem	Possible Cause	Solution
MicroSD card not recording	Card not formatted; card full; recording schedule not active; faulty card.	Format microSD card in camera settings; check recording schedule; replace card if faulty.

8. SPECIFICATIONS

Detailed technical specifications for the VIVOTEK FD9383-HTV camera.

Feature	Specification
Image Sensor	1/2.8" Type CMOS
Resolution	2560 x 1920 at 30 fps
Focal Length	2.8 to 12mm Motorized Varifocal Lens
Horizontal Angle of View	95.4 to 28.7°
Night Vision	IR LEDs up to 98 feet (30 meters)
Audio	Built-In Microphone
Storage	Supports microSD Cards up to 1TB
Network Interface	1x RJ45 Input (PoE)
Environmental Rating	IP66 (Dust and Water Resistant)
Vandal Resistance	IK10-Rated
ONVIF Compliance	Profiles G, S, T
Product Dimensions	5.3 x 4.1 x 4.1 inches (13.5 x 10.4 x 10.4 cm)
Item Weight	1.9 pounds (0.86 kg)

9. WARRANTY AND SUPPORT

VIVOTEK products are covered by a limited warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official VIVOTEK website.

For technical support, product documentation, and software downloads, please visit the VIVOTEK official support portal:

<https://www.vivotek.com/support>

When contacting support, please have your camera's model number (FD9383-HTV) and serial number ready.

