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› VIVOTEK CC9381-HV 5MP Outdoor Network Dome Camera Instruction Manual

VIVOTEK CC9381-HV

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INSTRUCTION MANUAL

Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of the VIVOTEK CC9381-HV 5MP Outdoor Network Dome Camera. The CC9381-HV is a robust surveillance solution designed for outdoor environments, featuring a 5MP CMOS sensor, 180° panoramic view, WDR Pro, Smart IR, and a built-in microphone. Its IP66 and IK10 ratings ensure durability against weather and vandalism. Please read this manual thoroughly before using the product to ensure proper setup and optimal performance.

Product Overview



Image: VIVOTEK CC9381-HV 5MP Outdoor Network Dome Camera unit.

Key Features

- **5 Megapixel Resolution:** Captures high-quality video at 2560 x 1920 resolution.
- **180° Panoramic View:** Provides a wide field of view (180° Horizontal, 120° Vertical, 180° Diagonal) with a 1.45 mm fisheye lens.
- **Smart IR:** Integrated IR LEDs offer night vision up to 49 feet (15 meters) for clear imaging in low-light conditions.
- **WDR Pro (120 dB):** Ensures extreme visibility in high contrast lighting environments.

- **Smart Stream III:** Optimizes bandwidth efficiency by reducing data usage without compromising image quality.
- **Weather-proof (IP66-rated):** Protected against dust and powerful water jets, suitable for outdoor use.
- **Vandal-proof (IK10-rated):** Offers high resistance against impact and physical damage.
- **Built-in Microphone:** Enables audio monitoring capabilities.
- **PoE Support:** Power over Ethernet simplifies installation by delivering power and data through a single RJ45 cable.
- **ONVIF Compliance:** Ensures interoperability with a wide range of network video products.

Setup and Installation

Before Installation

Ensure you have the following:

- A stable network connection (Ethernet).
- Power over Ethernet (PoE) switch or injector, or a 12V DC power supply (if not using PoE).
- Mounting tools (drill, screws, screwdriver).
- A computer or mobile device for initial configuration.

Physical Installation

1. **Select a Mounting Location:** Choose a location that provides the desired field of view and is within reach of your network cable. Consider the camera's 180° panoramic capability. The camera is IP66 and IK10 rated, making it suitable for exposed outdoor areas.
2. **Mount the Camera:** Use the provided mounting template (if available) to mark drill holes. Secure the camera base firmly to the mounting surface using appropriate screws. Ensure the camera is oriented correctly for your desired coverage.



Image: Dimensional diagram of the VIVOTEK CC9381-HV camera.

3. **Connect Network Cable:** Connect an RJ45 Ethernet cable from your PoE switch/injector to the camera's RJ45 port. If not using PoE, connect a standard Ethernet cable and a separate 12V DC power supply.



Network Configuration

1. **Power On:** Once connected, the camera will power on. Allow a few minutes for it to boot up.
2. **Discover the Camera:** Use VIVOTEK's IP Search utility or a similar network discovery tool to find the camera's IP address on your network.
3. **Access Web Interface:** Open a web browser and enter the camera's IP address. You will be prompted to log in. Use the default username and password (refer to the camera's quick installation guide for default credentials).
4. **Initial Setup:** Follow the on-screen instructions to change the default password, set up network settings (if not using DHCP), and configure basic video settings.

Operating the Camera

Live View and Recording

Once configured, you can access the camera's live video feed through its web interface or a compatible Network Video Recorder (NVR) / Video Management Software (VMS). From the live view, you can:

- Monitor the 180° panoramic view.
- Adjust image settings such as brightness, contrast, and saturation.
- Initiate manual recordings or configure scheduled/event-triggered recordings to a microSD card (if installed) or network storage.

Advanced Features

- **WDR Pro:** Enable WDR Pro in the image settings to improve visibility in scenes with both very bright and very dark areas.
- **Smart Stream III:** Configure Smart Stream III settings to optimize video quality and reduce bandwidth consumption based on scene activity.
- **Night Vision:** The camera automatically switches to night vision mode in low light. Ensure the IR illuminators are not obstructed.
- **Motion Detection:** Set up motion detection zones and sensitivity to trigger alarms or recordings when movement is detected.
- **Audio Monitoring:** Utilize the built-in microphone for audio surveillance. Adjust audio input levels as needed.

Maintenance

Cleaning

Regularly clean the camera's lens and housing to ensure clear image quality. Use a soft, damp cloth to wipe away dust and dirt. Avoid abrasive cleaners or solvents that could damage the lens or housing.

Firmware Updates

Periodically check the VIVOTEK official website for firmware updates. Keeping your camera's firmware up-to-date ensures optimal performance, security enhancements, and access to new features. Follow the instructions provided with the firmware update package carefully.

Troubleshooting

- **No Image/Video:**
 - Check power supply and network cable connections.
 - Verify the camera's IP address and network settings.
 - Ensure the camera is powered on and has completed its boot sequence.
- **Poor Image Quality:**
 - Clean the camera lens.
 - Adjust image settings (brightness, contrast, WDR Pro).
 - Check network bandwidth if streaming is choppy.
- **Night Vision Issues:**
 - Ensure there are no obstructions blocking the IR illuminators.
 - Check if the camera is switching to night mode automatically.
- **Network Connection Problems:**
 - Verify the Ethernet cable is securely connected.
 - Check your network router/switch for proper operation.
 - Confirm the camera's IP address is unique and within the network's range.

Technical Specifications

Feature	Specification
Model Number	CC9381-HV
Image Sensor	1/2.7" Progressive CMOS
Effective Still Resolution	5 MP
Video Capture Resolution	2560 x 1920 (5MP)
Frame Rate	30 fps
Focal Length	f = 1.45 mm
Field of View	180° (Horizontal), 120° (Vertical), 180° (Diagonal)
WDR Technology	WDR Pro (120 dB)
Night Vision	Smart IR, up to 49 ft (15m)
Weatherproof Rating	IP66
Vandal-proof Rating	IK10
Connectivity Technology	Wired (RJ45), PoE (802.3af/at)
Built-in Microphone	Yes
Storage	MicroSD card slot (for edge storage)

Feature	Specification
Dimensions	2.37 x 2.83 x 6.3 inches (approx. 60.2 x 71.9 x 159.9 mm)
Power Source	PoE (802.3af/at) or 12V DC
Connectivity Protocol	ONVIF

Warranty and Support

Warranty Information

VIVOTEK products are covered by a limited manufacturer's warranty. For specific details regarding the warranty period and terms for your CC9381-HV camera, please refer to the warranty card included with your product or visit the official VIVOTEK website.

Technical Support

If you encounter any issues that cannot be resolved using this manual's troubleshooting section, please contact VIVOTEK technical support. You can find contact information and additional resources, including FAQs and software downloads, on the official VIVOTEK website.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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