DIYSecuritycameraworld HX-MC28025MPA

DIYSecuritycameraworld HX-MC28025MPA 5MP HD IP PoE Covert Security Camera User Manual

Model: HX-MC28025MPA

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your DIYSecuritycameraworld HX-MC28025MPA 5MP HD IP PoE Covert Security Camera. Please read this manual thoroughly before using the product to ensure proper functionality and safety. This camera is designed for discreet video surveillance, offering high-definition imaging and advanced features for various security applications.

2. Product Overview

2.1. Key Features

- **High Definition Video:** 5MP (2592x1944P) resolution for clear and detailed surveillance.
- **Power over Ethernet (PoE):** Supports IEEE802.3af for simplified power and data transmission via a single cable.
- **Covert Design:** Integrated into a PIR motion sensor housing for discreet placement.
- **Invisible Night Vision:** Equipped with 48x 940nm infrared LEDs for up to 30 feet of night vision without visible light emission.
- **Wide Angle Lens:** Features a 3.7mm fixed lens for a broad field of view.
- **Audio Recording:** Built-in microphone for audio capture.
- **Local Storage:** Supports TF/Micro SD card up to 128GB (card not included).
- **Wireless Connectivity:** Built-in Wi-Fi (IEEE802.11b/g/n) for flexible network integration.
- **P2P Functionality:** Easy remote viewing via mobile app (CamHi/CamHiPro) from anywhere, anytime.
- **ONVIF Support:** Compatible with ONVIF protocol for integration with various NVRs and surveillance systems.

2.2. Package Contents

- 1x DIYSecuritycameraworld HX-MC28025MPA IP Camera
- 1x Screws Bag for mounting

- 1x Power Adapter (12VDC)

2.3. Camera Components



Figure 1: Front view of the HX-MC28025MPA camera. This image shows the camera's discreet design, appearing as a standard PIR motion detector, with the hidden lens and microphone visible at the bottom.



Figure 2: Rear view of the HX-MC28025MPA camera with labeled connections. This image highlights the network port for Ethernet/PoE, the 12VDC power input, and the reset button for factory default settings.

3. Setup and Installation

3.1. Mounting the Camera

The camera is designed for ceiling mount installation. Use the provided screws and mounting bracket to secure the camera in your desired location. Ensure the camera has a clear line of sight to the area you wish to monitor.



Figure 3: Rear view of the HX-MC28025MPA camera with the mounting bracket. This image illustrates how the camera attaches to its mounting hardware for installation.



Figure 4: Side view of the HX-MC28025MPA camera with dimensions. This image provides the physical measurements of the camera (120mm height, 70mm depth, 46mm width) for installation planning.

3.2. Power and Network Connection

1. **PoE Connection:** If using Power over Ethernet, connect an Ethernet cable from a PoE-enabled switch or NVR to the camera's network port. This will provide both power and data.
2. **12VDC Power:** Alternatively, connect the included 12VDC power adapter to the camera's power input and plug it into a standard electrical outlet. Then, connect an Ethernet cable from your router/switch to the camera's network port for data.
3. **Wi-Fi Connection:** For wireless operation, ensure the camera is powered on. You will configure the Wi-Fi connection using the mobile application (see Section 4).

Note: Do not connect both PoE and the 12VDC power adapter simultaneously. Choose one power method.

4. Mobile App Configuration (CamHi/CamHiPro)

The DIYSecuritycameraworld HX-MC28025MPA camera can be managed and viewed remotely using the CamHi or CamHiPro mobile application, available for Android and iOS devices.

1. **Download the App:** Search for "CamHi" or "CamHiPro" in your device's app store (Google Play Store for Android, Apple App Store for iOS) and install it.
2. **Register/Login:** Open the app and create an account or log in if you already have one.
3. **Add Camera:**
    - Ensure your camera is powered on and connected to your network (either via Ethernet or already configured Wi-Fi).
    - In the app, tap the "+" icon or "Add Camera" option.
    - Select "Add device by LAN search" if the camera is connected via Ethernet, or "Add device by Wi-Fi configuration" to set up Wi-Fi.
    - Follow the on-screen prompts to complete the camera addition process. This typically involves scanning a QR code on the camera (if available) or manually entering the camera's ID and password.
4. **Wi-Fi Setup (if not already connected):** If you chose "Add device by Wi-Fi configuration," the app will guide you through connecting the camera to your wireless network. Ensure your mobile device is connected to the same 2.4 GHz Wi-Fi network you intend for the camera.
5. **Live View and Settings:** Once added, you can access the live video feed, adjust settings, enable motion detection, configure recording to the SD card, and manage other camera functions through the app.

5. Operation

5.1. Recording to SD Card

The camera supports a TF/Micro SD card up to 128GB for local storage. To install, locate the SD card slot (refer to product diagrams if needed) and gently insert the card until it clicks into place. Format the SD card via the mobile app settings before first use. You can configure continuous recording, scheduled recording, or motion-triggered recording through the app.

5.2. Night Vision

The camera automatically switches to night vision mode in low-light conditions. The 48x 940nm infrared LEDs provide illumination up to 30 feet, allowing for clear black-and-white video capture without emitting a visible red glow.

5.3. Motion Detection

The integrated PIR motion sensor detects movement within its field of view. You can enable and configure motion detection sensitivity and alerts (e.g., push notifications, email alerts) through the mobile application. Motion-triggered recording can also be set up to save storage space.

6. Troubleshooting

- **Camera not powering on:**
    - Ensure the power adapter is securely connected and plugged into a working outlet, or that the PoE switch/NVR is providing power.
    - Verify that only one power source (PoE or 12VDC adapter) is connected.
- **Cannot connect to Wi-Fi:**
    - Ensure your Wi-Fi network is 2.4 GHz. The camera does not support 5 GHz Wi-Fi.
    - Check the Wi-Fi password for accuracy.
    - Move the camera closer to the Wi-Fi router to improve signal strength.

- Reset the camera using the reset button (refer to Figure 2) and try Wi-Fi configuration again.

- **No video feed in app:**
  - Verify the camera has power and network connectivity.
  - Ensure your mobile device has a stable internet connection.
  - Check if the camera is properly added to the CamHi/CamHiPro app.

- **SD card not recording:**
  - Ensure the SD card is correctly inserted and formatted within the app.
  - Check recording settings in the app (e.g., continuous, motion-triggered).
  - Verify the SD card is not full or corrupted. Try a different SD card if issues persist.

7. Specifications

Feature	Specification
Model Number	HX-MC28025MPA
Video Resolution	5MP (2592x1944P)
Lens	3.7mm Fixed Lens
Night Vision	48x 940nm Invisible IR LEDs, up to 30 feet
Audio	Built-in Microphone
Storage	TF/Micro SD card slot, up to 128GB (card not included)
Wi-Fi Standards	IEEE802.11b/g/n (2.4 GHz)
Ethernet	1 RJ45 10M/100M Adaptive Ethernet Interface
Power Supply	12VDC / PoE (802.3af)
Power Consumption	Day: 3W; Night: 8W
Operating Temperature	-20°C to 60°C (-4°F to 140°F)
Operating Humidity	10% to 95% (non-condensing)
Dimensions	4.8 x 2.7 x 2 inches (approx. 120 x 70 x 46 mm)
Weight	13 ounces
UPC	780305857140

8. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the camera's exterior. Do not use harsh chemicals or abrasive cleaners.
- **Lens Care:** Gently wipe the lens with a microfiber cloth designed for optics to avoid scratches.
- **Firmware Updates:** Periodically check the CamHi/CamHiPro app or the manufacturer's website for available firmware updates to ensure optimal performance and security.

9. Warranty and Support

For warranty information and technical support, please refer to the documentation provided at the time of purchase or contact DIYSecuritycameraworld customer service. Keep your purchase receipt as proof of purchase for warranty claims.

Manufacturer: DIYSecuritycameraworld