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› Montavue UltraHD 4K 8MP IP PoE Turret Security Camera System with 8-Channel AI NVR User Manual

Montavue MTIP4082-8106T-W

Montavue UltraHD 4K 8MP IP PoE Turret Security Camera System with 8-Channel AI NVR User Manual

Model: MTIP4082-8106T-W

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Montavue UltraHD 4K 8MP IP PoE Turret Security Camera System. This system includes 4K 8MP IP PoE Turret Cameras and an 8-Channel AI Network Video Recorder (NVR) with a pre-installed 2TB hard drive. Please read these instructions carefully before use to ensure proper functionality and safety.



Image 1.1: Montavue 4K 8MP IP PoE Turret Security Cameras (Black and White models shown).

2. What's Included

Verify that all components are present in your package:

- MNR4208-8P-AI 4K NVR (Network Video Recorder)
- MTT8106-AISMD-DI-AD-S4 4K Turret Cameras (Quantity as per package)
- 2TB Surveillance Grade Hard Drive (pre-installed in NVR)
- 100ft CAT5e Cable per camera
- HDMI Cable
- Ethernet Cable
- USB Mouse
- Quick Start Guide
- Camera mounting template decal
- Screws and Anchors
- Allen Wrench
- Water Resistant Casing for PoE connection

3. SETUP AND INSTALLATION

3.1 NVR Setup

1. Connect the NVR to a power source using the provided power adapter.
2. Connect the NVR to a monitor using the HDMI cable.
3. Connect the USB mouse to the NVR for navigation.
4. Connect the NVR to your network router using the Ethernet cable for internet access and remote viewing capabilities.
5. Follow the on-screen prompts for initial setup, including setting a password and configuring network settings.

3.2 Camera Installation

The cameras utilize Power over Ethernet (PoE), simplifying installation as a single Ethernet cable provides both power and data.

1. **Planning:** Choose optimal locations for your cameras, considering field of view, lighting conditions, and proximity to the NVR or a PoE switch. Ensure the camera's IP67 rating is suitable for the environment.
2. **Mounting:** Use the provided mounting template decal to mark drilling points. Securely mount the cameras using the screws and anchors.
3. **Cable Connection:** Connect one end of the CAT5e cable to the camera's PoE port and the other end to an available PoE port on the NVR. Use the water-resistant casing for outdoor PoE connections to protect against moisture.
4. **Power On:** Once all cameras are connected, power on the NVR. The cameras should automatically be detected and begin streaming video to the NVR.

4. OPERATING INSTRUCTIONS

4.1 NVR Operation

The 8-Channel 4K NVR is the central hub for your security system. It supports up to 8 4K PoE security cameras and uses H.265 compression to optimize storage on the 2TB hard drive.

- **Live View:** Access the live feed from all connected cameras on your monitor.
- **Recording:** The NVR is configured to record continuously or based on motion detection. Review recording schedules and settings in the NVR menu.
- **Playback:** Use the NVR interface to search and play back recorded footage. The Smart Search feature allows for quick review of events.
- **Backup:** Export recorded footage to a USB drive for backup purposes.

4.2 Camera Features

Your Montavue cameras are equipped with advanced features to enhance surveillance:

- **8MP 4K Resolution:** Provides ultra-high-definition video for clear and detailed images.
- **Active Deterrence:** When an alarm is triggered (e.g., by motion detection), the camera activates red and blue flashing lights and an audible siren to deter intruders. This feature can be scheduled.

Active Deterrence

Red & Blue LED Lights with Siren



Instant Active Deterrence Notifications
via MontavueGO

Compatible with
Perimeter Protection



Smart Motion Detect 4.0



Image 4.1: Active Deterrence feature with red and blue LED lights and siren.

- **Smart Dual Illumination & Full-Color Night Vision:** The camera defaults to infrared (IR) light in low ambient light. When a human or vehicle is detected, warm white LEDs activate to provide full-color images. After the subject leaves, the camera reverts to IR.
- **Smart Motion Detection 4.0 (SMD 4.0):** Advanced AI algorithms accurately detect humans up to 40ft and vehicles up to 60ft, significantly reducing false alerts from environmental factors.



SMD 4.0

Human & Vehicle Detection

Detect humans with 99% accuracy
up to 40ft away

Detect vehicles with 99% accuracy
up to 60ft away

Human Detection

Instant notifications to your mobile device

Review all footage with smart search to find any human or vehicle recorded

No more false notifications

Easy to setup and use



Vehicle Detection



Image 4.2: Smart Motion Detection 4.0 for human and vehicle detection.

- **2-Way Audio:** Built-in microphone and speaker allow for two-way communication through the camera.
- **106° Field of View:** Captures a wide area with a single camera.
- **AI Scene Self-Adaption:** Automatically adjusts image parameters (exposure, brightness) to capture the highest quality video in varying conditions.
- **IP67 Rated:** The camera features a full-metal housing, providing protection against dust and water, suitable for indoor and outdoor use in temperatures from -40°F to +140°F.



Image 4.3: IP67 Weatherproof rating ensures durability in various conditions.

4.3 MontavueGO Mobile Application

The MontavueGO app allows you to access and control your security system remotely from your PC/Mac, Android phone/tablet, iPhone, and iPad.

1. **Download:** Download the MontavueGO app from your device's app store (Apple App Store or Google Play Store).
2. **Connect:** Open the app and scan the QR code displayed on your NVR to sync your system.
3. **Features:**
 - Live viewing of all cameras.
 - Playback of recorded footage.
 - Control NVR settings.
 - Receive push notifications for motion detection or other alerts.
 - Utilize two-way audio functionality.

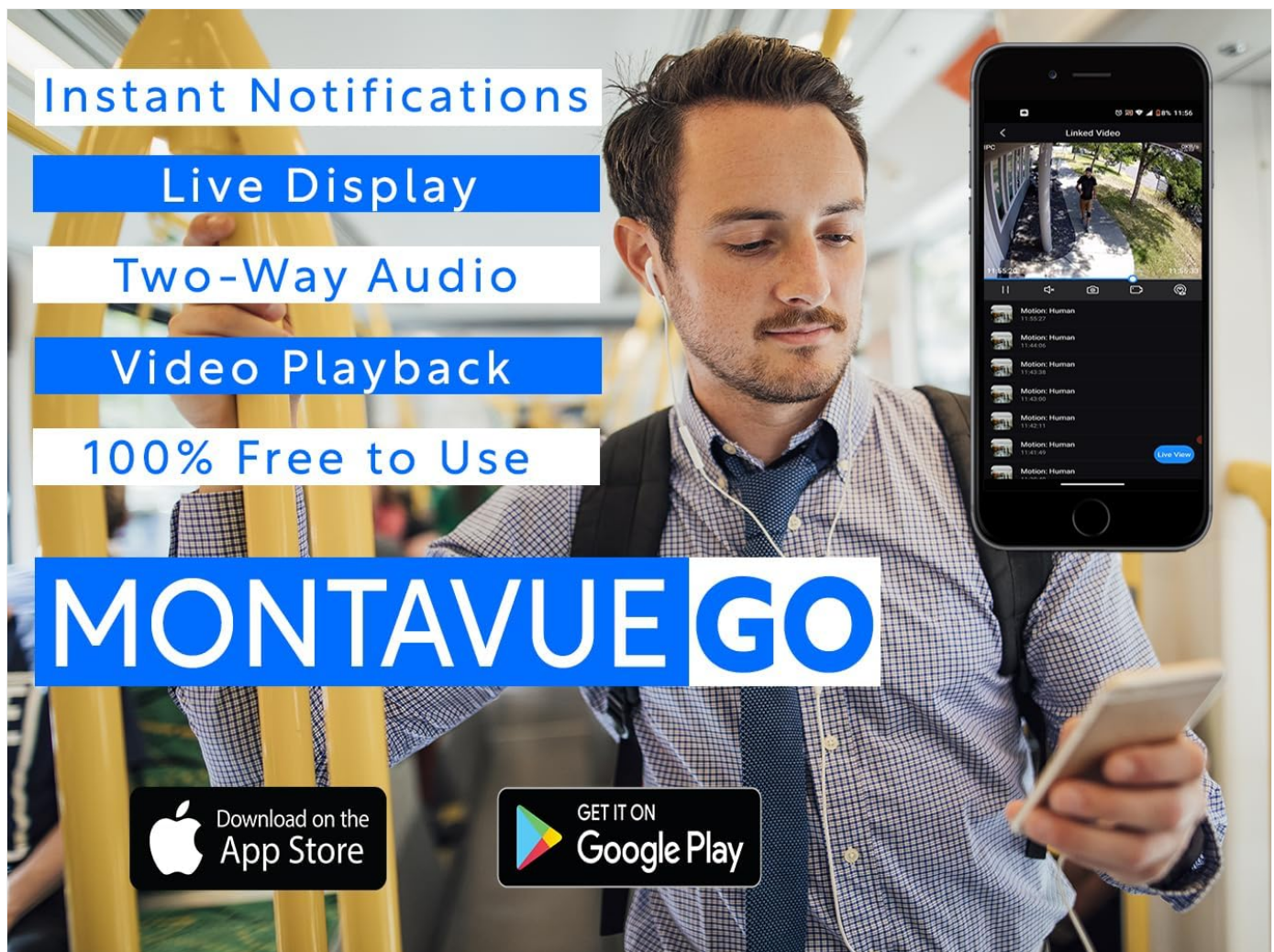


Image 4.4: MontavueGO app for remote monitoring and control.

5. MAINTENANCE

- **Camera Lens Cleaning:** Periodically clean camera lenses with a soft, damp cloth to ensure clear image quality. Avoid abrasive cleaners.
- **Firmware Updates:** Check the Montavue website or NVR settings for available firmware updates to ensure optimal performance and security.
- **Hard Drive Health:** Monitor the NVR's hard drive health through the system settings. Replace the hard drive if errors are detected.
- **Cable Inspection:** Regularly inspect all cables for damage, especially outdoor PoE connections, to prevent signal loss or power issues.

6. TROUBLESHOOTING

- **No Video Signal from Camera:**
 - Ensure the Ethernet cable is securely connected to both the camera and the NVR's PoE port.
 - Verify the NVR is powered on.
 - Check the cable for damage. Try a different PoE port or cable.
- **NVR Not Displaying on Monitor (HDMI Issue):**
 - Ensure the HDMI cable is securely connected to both the NVR and the monitor.
 - Try a different HDMI cable or monitor.

- Restart the NVR.

- **False Motion Alerts:**

- Adjust the sensitivity settings for Smart Motion Detection 4.0 in the NVR or app.
- Configure detection zones to exclude areas with frequent non-human/vehicle movement (e.g., trees swaying).

- **Remote Access Issues (MontavueGO App):**

- Ensure the NVR is connected to the internet.
- Verify your mobile device has a stable internet connection.
- Check NVR network settings and port forwarding if necessary (refer to your router's manual).
- Ensure the MontavueGO app is updated to the latest version.

- **Poor Image Quality:**

- Clean the camera lens.
- Ensure sufficient lighting for optimal night vision performance.
- Check camera resolution settings in the NVR.

7. SPECIFICATIONS

Detailed technical specifications for the Montavue UltraHD 4K 8MP IP PoE Turret Security Camera System:

Feature	Specification
Model Number	MTIP4082-8106T-W
Resolution	8MP (4K) 3840 x 2160
Image Sensor	1/2.9" CMOS
Focal Length	2.8mm
Field of View	106°
Illumination Distance (IR)	98.43ft (30m)
Min Illumination	0.004 lux@F1.0 (Color, 30 IRE), 0.0004 lux@F1.0 (B/W, 30 IRE)
Illuminator Type	1 (IR LED), 1 (warm light)
Video Compression	Smart H.265+, Smart H.264+, H.264H, H.265, MJPEG
Smart Motion Detection	SMD 4.0 (Human/Vehicle)
Active Deterrence	Yes (Red/Blue lights, Siren)
2-Way Audio	Built-in Mic and Speaker
Storage (Camera)	Up to 256GB Max SD Card (not included)
Storage (NVR)	2TB Surveillance Grade HDD (pre-installed)
NVR Channels	8 Channels
Power Supply	PoE (802.3af) or 12 VDC

Feature	Specification
Power Consumption (Camera)	Basic 4.6 W (PoE), Max 7.2 W (PoE)
Operating Temperature	−40 °F to +140 °F
Ingress Protection	IP67
Casing Material	Full-Metal housing
Product Dimensions (Camera)	3.97" x 4.33"
Product Dimensions (System)	45.72 x 45.72 x 30.48 cm (14.06 kg)
Connectivity Technology	Wired
Operating System (App)	Android, iOS



4K Ultra HD



Color Night Optics

8 Megapixel Active Deterrence PoE

Outdoor Security Turret IP Camera



Technical Specifications

- 8-MP 1/2.8" CMOS image sensor, low luminance, and high definition image
- Outputs max. 8 MP (3840 × 2160)@25/30 fps
- H.265 codec, high compression rate, ultra-low bit rate
- Built-in warm light and IR LED; the max. IR illumination distance is 30 m and warm light distance is 30 m
- Intelligent monitoring: Intrusion, tripwire (the two function support the classification and accurate detection of vehicle and human)
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes

- Abnormality detection: Motion detection, privacy masking, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card; built-in dual Mic; built-in speaker; 1-ch speaker; support two-way talk
- 12 VDC/PoE power supply
- IP67 protection
- Sound and light alarm (red and blue lights)
- SMD 4.0

Image 7.1: Technical specifications and dimensions of the Montavue Turret IP Camera.

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Montavue website or contact Montavue customer service directly. Keep your purchase receipt for warranty claims.

Montavue Website: www.montavue.com

Customer Support: Refer to the contact information provided on the Montavue website or in your product packaging.

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.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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.

Submit question