

Montavue MTIP8041-4KT

Montavue 4K IP Security Camera System User Manual

Model: MTIP8041-4KT (NVR MNR8041-4 & Turret Cameras MTT8105-C)

Brand: Montavue

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your Montavue 4K IP Security Camera System. Please read this manual thoroughly before using the product to ensure proper setup and functionality. Keep this manual for future reference.

2. PRODUCT OVERVIEW AND KEY FEATURES

The Montavue 4K IP Security Camera System offers advanced surveillance capabilities with high-resolution cameras and a robust Network Video Recorder (NVR).

- **4K PoE NVR (MNR8041-4):** Features a 1TB pre-installed hard drive (expandable up to 10TB), 4-channel 4K playback and recording at up to 30fps, and H.265 video compression.
- **8MP 4K IP PoE Audio Turret Cameras (MTT8105-C):** Deliver 3840x2160P resolution at 15fps. Equipped with a 105° field of view and a built-in audio microphone.
- **Power over Ethernet (PoE):** Simplifies installation by providing power and data over a single Cat5e Ethernet cable.
- **IP67 Weatherproof:** Cameras are designed for indoor/outdoor use and can withstand various weather conditions.
- **Intelligent Video Surveillance (IVS):** Includes features like motion detection, virtual tripwires, and intrusion detection for enhanced security.
- **Remote Access:** Access live view, control, and playback via the free MontavueGO mobile app (available for Android and iOS) using QR code scanning for quick setup.

2.1. Visual Features



Figure 1: Montavue MTT8105-C 4K Audio Turret Camera highlighting 8MP resolution, IP67 rating, 105° field of view, image processing, wide dynamic range, free mobile apps, and built-in audio mic.



Figure 2: The 105° field of view allows the camera to cover a large area effectively.

8MP Resolution

4 times the Resolution than 1080P

8MP



1080P

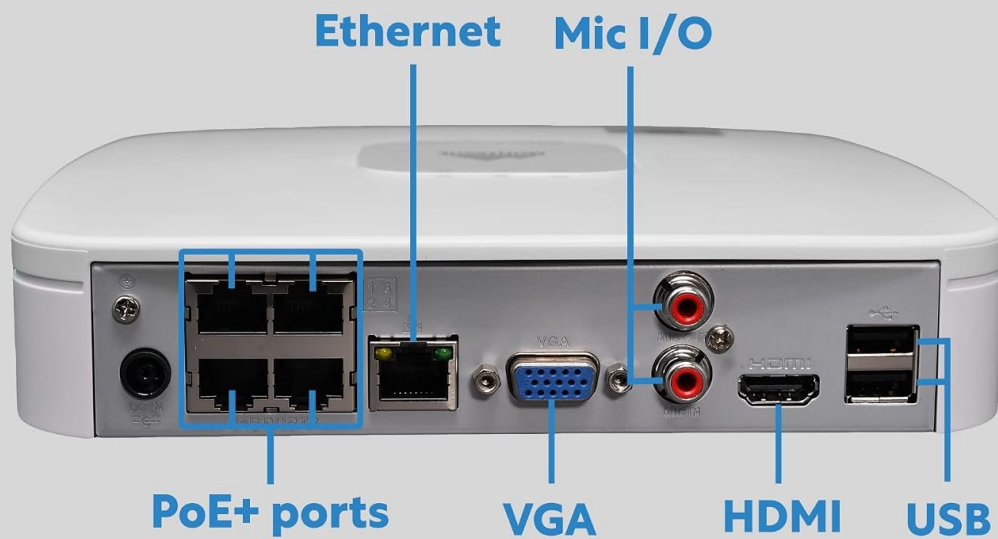


Figure 3: Comparison showing the clarity of 8MP 4K resolution, which is four times the resolution of 1080P.



Figure 4: The IP67 waterproof rating ensures the camera performs reliably in various weather conditions, from -40°C to 60°C (-40°F to 140°F).

4 Channel 4K Ultra HD NVR with 4 PoE Ports - MNR8040X-4



**Simple Plug & Play
Installation - PoE**



**4K 8 Megapixel
Resolution**



**Intelligent Video
Surveillance - IVS**



Figure 5: The 4-channel 4K Ultra HD NVR (MNR8041-4) features PoE+ ports, Ethernet, Mic I/O, VGA, HDMI, and USB ports, supporting simple plug & play installation, 4K 8 Megapixel Resolution, and Intelligent Video Surveillance (IVS).

3. WHAT'S IN THE BOX

Your Montavue 4K IP Security Camera System package includes the following components:

- Montavue 4K PoE NVR (MNR8041-4) with 1TB pre-installed hard drive
- Montavue 8MP 4K IP PoE Audio Turret Cameras (MTT8105-C) - Quantity: 4
- Quick Start Guide
- USB Mouse
- Ethernet cable for router connection
- 100ft Cat5e Ethernet cables for camera connection (Quantity: 4)
- HDMI cable

4. SETUP INSTRUCTIONS

Follow these steps to set up your Montavue 4K IP Security Camera System:

1. **Unpack Components:** Carefully remove all items from the packaging and verify against the 'What's in the Box' list.
2. **NVR Placement:** Place the NVR in a secure, well-ventilated area, away from direct sunlight and heat sources.
3. **Connect NVR to Monitor:** Connect the NVR to a monitor using the provided HDMI cable.
4. **Connect NVR to Network:** Connect the NVR to your router using the provided Ethernet cable for network access and remote viewing capabilities.
5. **Connect Cameras:** Connect each 4K IP PoE Audio Turret Camera to the NVR's PoE ports using the 100ft Cat5e Ethernet cables. The cameras are plug-and-play, receiving both power and data through these cables.
6. **Power On:** Connect the NVR to a power outlet. The system will power on and initiate.
7. **Initial Configuration:** Follow the on-screen prompts for initial setup, including setting up a password and network settings.



Figure 6: Simplified Plug & Play PoE Setup: A single network cable transmits both power and video data between the IP camera and the PoE NVR.

5. OPERATING INSTRUCTIONS

5.1. Live View and Recording

Once the system is set up, you can view live footage from your cameras on the connected monitor. The NVR will automatically begin recording based on default settings, typically continuous recording or motion detection.

5.2. Remote Monitoring with MontavueGO App

The MontavueGO mobile app allows you to monitor your system remotely:

1. Download the free MontavueGO app from the App Store (iOS) or Google Play Store (Android).
2. Open the app and register an account if you don't have one.
3. Add your NVR by scanning the QR code displayed on your NVR's monitor or found in its network settings.
4. Once added, you can access live view, control cameras, receive push notifications, and review

recorded footage from anywhere.



Figure 7: The MontavueGO app enables remote access for live viewing, push notifications, and playback on mobile devices and computers.

5.3. Motion Detection and Intelligent Video Surveillance (IVS)

Configure motion detection and IVS features through the NVR's menu or the MontavueGO app:

- **Motion Detection:** Customize detection zones and sensitivity to trigger recordings and alerts when movement is detected.
- **IVS Features:** Set up virtual tripwires to detect objects crossing a defined line, or intrusion boxes to alert when objects enter or exit a specific area.



Motion Detection

Customizable motion detection for real time alerts and to access recordings and review

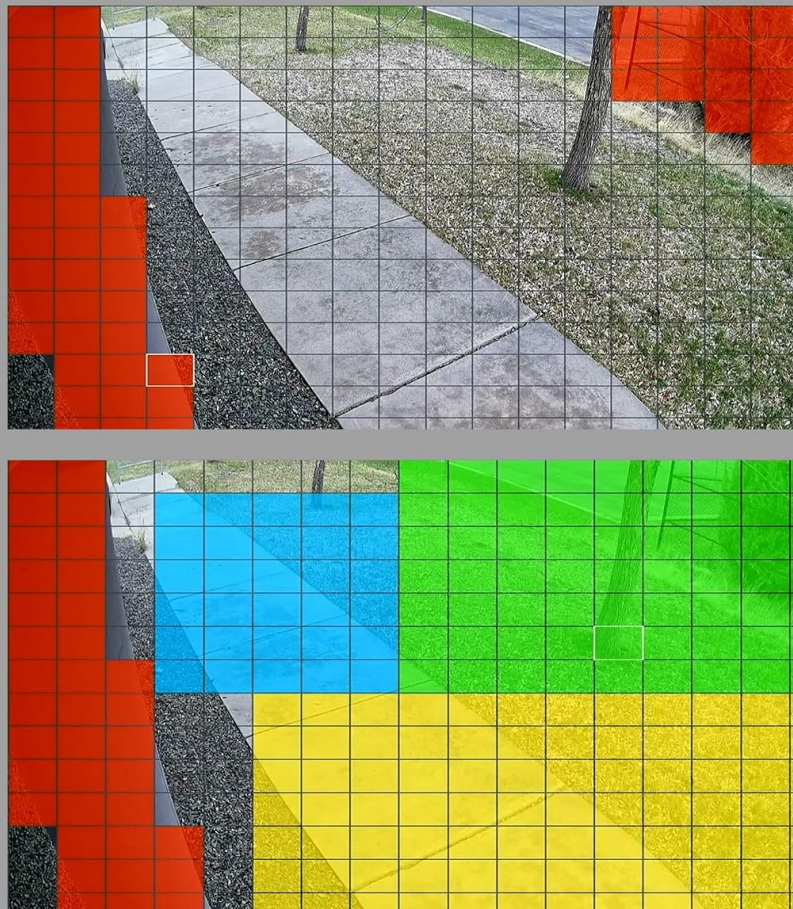


Figure 8: Customizable motion detection allows users to define specific areas for real-time alerts and recording access.



Perimeter Protection

Protect what matters most! IVS features such as tripwire, intrusion, abandoned object alerts & more!

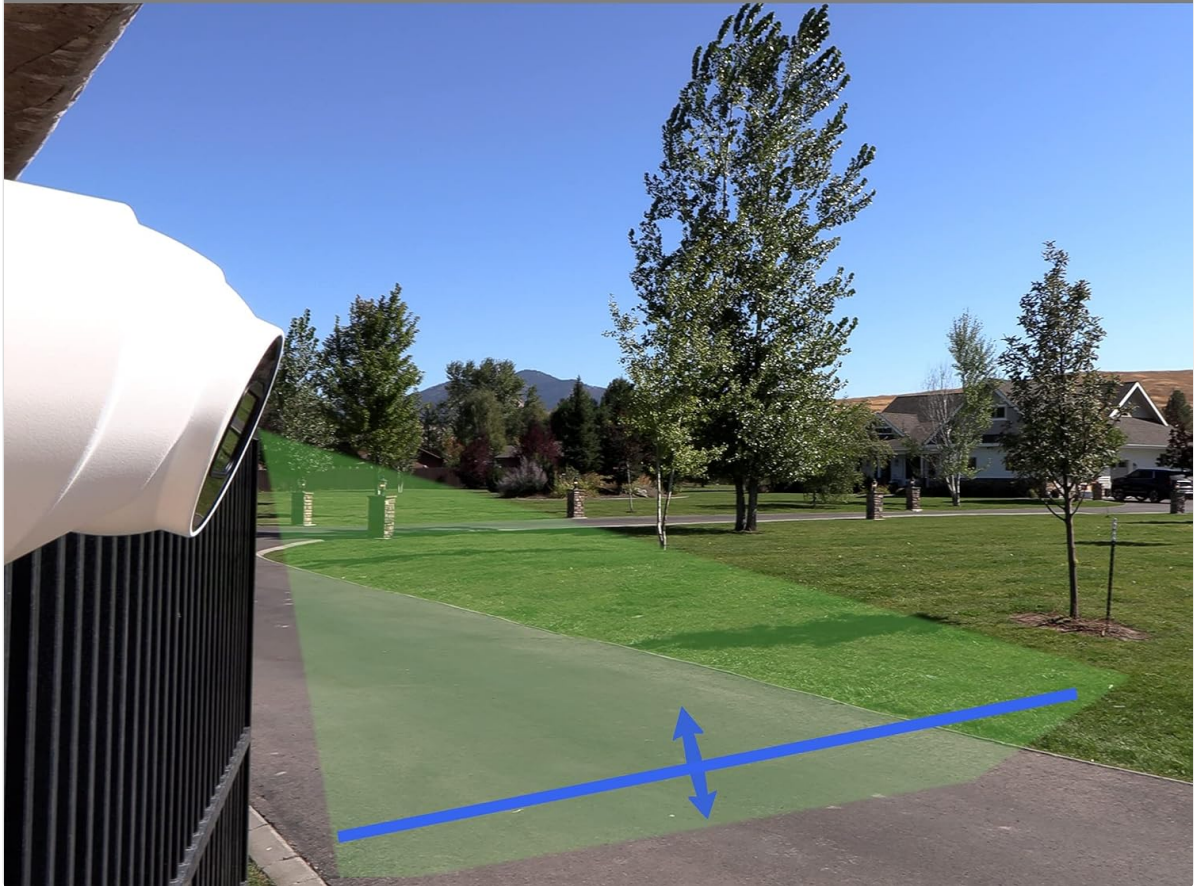
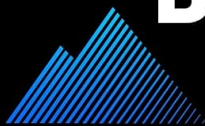


Figure 9: Perimeter Protection using IVS features such as tripwire and intrusion alerts to secure designated areas.

5.4. Audio Monitoring

The MTT8105-C cameras include a built-in microphone, allowing you to listen to audio from the camera's location. This audio is transmitted over the same PoE Ethernet cable.



Built-In Audio Mic

Record and listen-in live to audio via
the built-in audio mic.



Figure 10: The built-in audio microphone allows for live listening and recording of sound.

One Way Audio Built-in microphone



Figure 11: Diagram illustrating one-way audio transmission from the camera's built-in microphone to the NVR and remote devices.

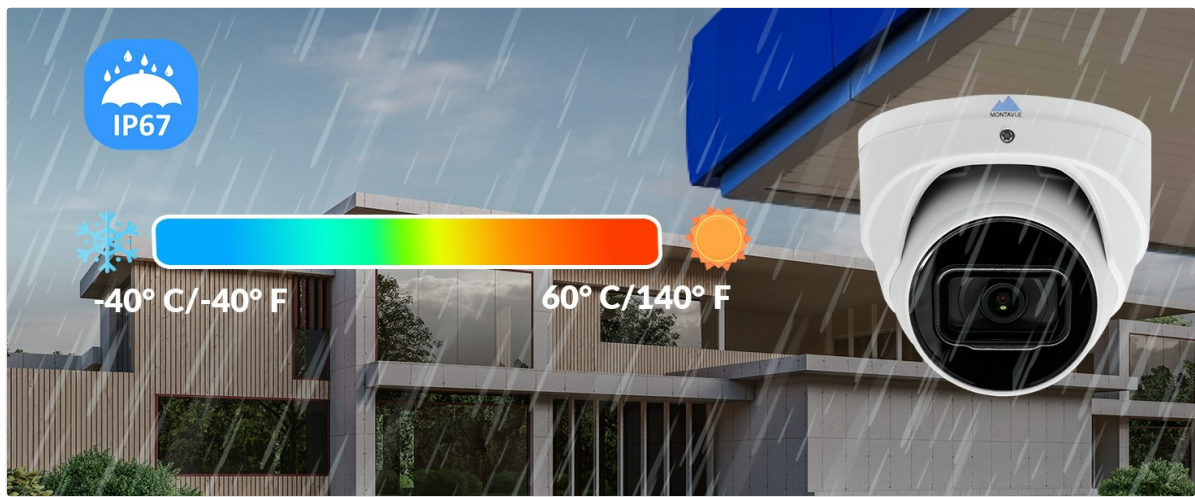


Figure 12: The camera's audio microphone can capture sound from up to 30 feet away.

5.5. Video Playback

Access recorded footage through the NVR's interface or the MontavueGO app. You can search by date, time, and event (e.g., motion detection) to review specific incidents.

5.6. Official Product Videos

Montavue 8105 Series 4K Security Cameras

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This video provides an overview of the Montavue 8105 Series 4K Security Cameras, showcasing their features and capabilities.

Montavue - Surveillance Evolved

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This video highlights the evolution of Montavue surveillance systems, demonstrating various applications for home and business security.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your security system:

- **Clean Cameras:** Periodically clean camera lenses with a soft, damp cloth to remove dust and debris that may obstruct the view.
 - **Firmware Updates:** Check the Montavue website or NVR settings for available firmware updates to ensure your system has the latest features and security patches.
 - **Hard Drive Management:** The 1TB hard drive will automatically overwrite older footage when full. Regularly back up important recordings if needed.
 - **Cable Inspection:** Periodically inspect all cables for wear or damage, especially outdoor cables, to prevent connection issues.
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7. TROUBLESHOOTING

If you encounter issues with your Montavue Security Camera System, refer to the following common troubleshooting tips:

- **No Video Display:** Ensure the NVR is powered on, the monitor is connected correctly, and all camera Ethernet cables are securely plugged into the NVR's PoE ports.
- **No Remote Access:** Verify the NVR is connected to your network and has internet access. Check your router settings and ensure the MontavueGO app is correctly configured with your NVR.
- **Poor Image Quality:** Clean camera lenses. Ensure cameras are positioned correctly and not facing direct light sources that could cause glare.
- **No Audio:** Confirm the audio settings are enabled on the NVR and within the MontavueGO app.
- **Recording Issues:** Check the NVR's hard drive status to ensure it's functioning and has sufficient space. Verify recording schedules and motion detection settings.

For further assistance, please contact Montavue technical support.

8. SPECIFICATIONS

Feature	Specification
Brand	Montavue
Model Number	MTIP8041-4KT
NVR Model	MNR8041-4
Camera Model	MTT8105-C
Number of Channels	4
Camera Resolution	8MP 4K (3840x2160P)
Recording Frame Rate	Up to 30fps (NVR), 15fps (Cameras)
Video Compression	H.265
Field of View	105°
Audio	Built-in microphone (one-way)
Storage Capacity	1 TB (pre-installed), expandable up to 10 TB
Power Source	Corded Electric (PoE for cameras)
Weather Resistance	IP67
Recording Mode	Motion Detection, Continuous
Item Dimensions (L x W x H)	10 x 10 x 10 inches
Item Weight	17.81 pounds

9. WARRANTY AND SUPPORT

Montavue provides a standard 2-year warranty for this product. For any technical assistance or inquiries, please contact our U.S. Based tech support team. Our knowledgeable staff is available to help you with setup, operation, and troubleshooting.

For contact information, please refer to the Montavue website or the quick start guide included in your package.