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> Amcrest UltraHD 4K (8MP) IP PoE AI Outdoor Security Camera IP8M-2796EB-AI User Manual

Amcrest IP8M-2796EB-AI

Amcrest UltraHD 4K (8MP) IP PoE AI Outdoor Security Camera IP8M-2796EB-AI User Manual

Model: IP8M-2796EB-AI | Brand: Amcrest

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Amcrest UltraHD 4K (8MP) IP PoE AI Outdoor Security Camera, model IP8M-2796EB-AI. Please read this manual thoroughly before using the product to ensure proper functionality and safety.



Figure 1: Amcrest UltraHD 4K (8MP) IP PoE AI Outdoor Security Camera (Black).

WHAT'S IN THE BOX

The product package includes the following items:

- Amcrest UltraHD 4K (8MP) IP PoE AI Outdoor Security Camera
- Quick Start Guide

Note: A PoE injector or switch is required for operation and is not included.

PRODUCT FEATURES

The Amcrest IP8M-2796EB-AI camera is equipped with advanced features designed for robust outdoor surveillance:

AI Features & Dual Illumination

This camera incorporates Artificial Intelligence (AI) for enhanced detection capabilities. It features human, face, and vehicle detection with event filtering, as well as Intelligent Video System (IVS) functions like Tripwire and Intrusion for perimeter protection. Dual illumination night vision combines Full NightColor white LED and IR-LED for clear visibility in various lighting conditions.



4K UHD

AI POWERED

NIGHT COLOR

AMCREST

4K
Premium UltraHD
Experience outstanding detail in 4K UltraHD resolution.

Smart Motion Detection
Minimize false motion detection alerts by enabling human and vehicle filtering options.

Full Night Color Vision
Experience outstanding NightColor vision up to 49 ft away in total darkness.

FACE DETECTION
Minimize false motion detection alerts by enabling human detection.

PERIMETER PROTECTION
Create a virtual fence and trigger an event anytime motion is detected.

WDR
WIDE DYNAMIC RANGE
See more detail in true wide dynamic range up to 120dB.

FLEXIBLE STORAGE
Store videos on a MicroSD, Local PC, NAS, FPT, Amcrest Cloud and Amcrest NVR.
*MICRO SD CARD NOT INCLUDED

129° SUPER WIDE VIEWING ANGLE

IP67 WEATHER PROOF HOUSING

ONE-WAY AUDIO WITH BUILT-IN MIC

H.265 HEVC COMPRESSION

Discover more at [amcrest.com](https://www.amcrest.com)

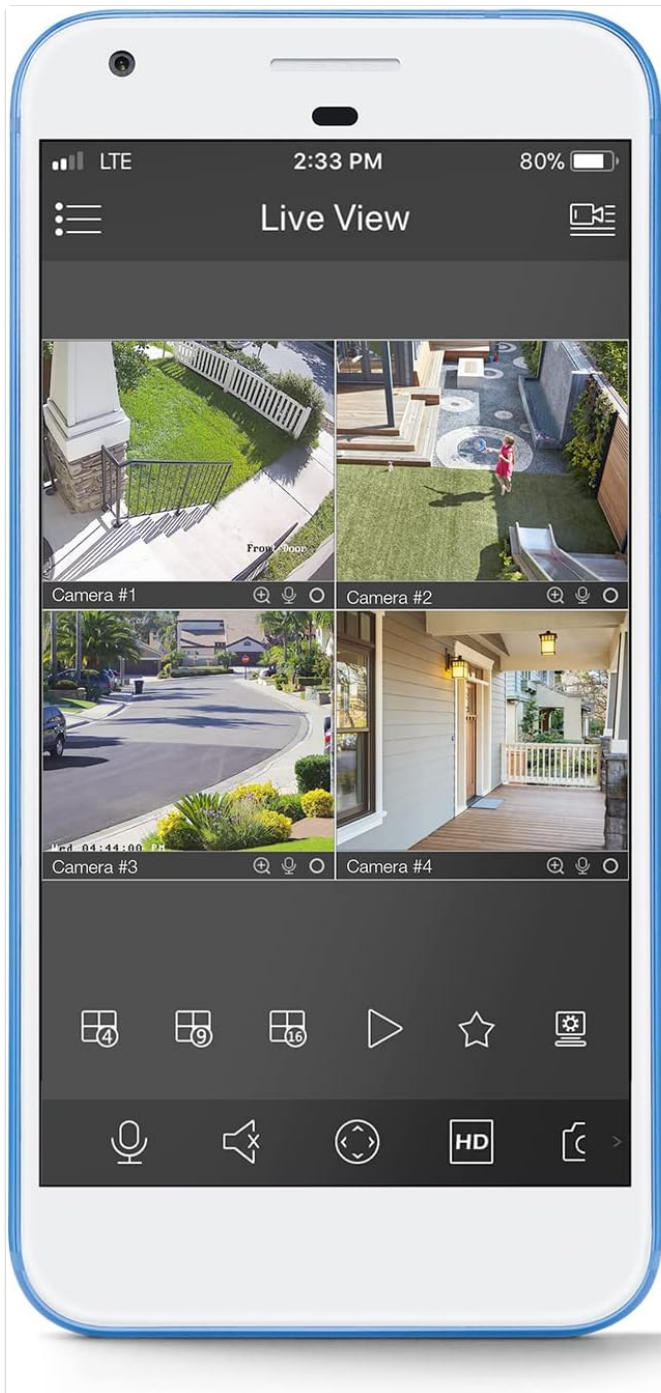
Figure 2: Overview of AI features including 4K resolution, Smart Motion Detection, Full Night Color, Face Detection, Perimeter Protection, Wide Dynamic Range, Flexible Storage, Super Wide Viewing Angle, Weatherproof IP67 Housing, One-Way Audio with Built-in Mic, and H.265 HEVC Compression.



Figure 3: AI 4K UHD PoE Camera highlighting night vision and a 127-degree wide view angle, along with its 4K UHD resolution and IP67 weatherproof rating.

Smarter Security & App Integration

Receive motion alert notifications directly on your smartphone via the Amcrest View app. The camera can also be monitored on a PC using Amcrest Surveillance Pro software or Blue Iris Professional. It supports Amcrest Cloud remote video storage, Amcrest NVRs, MicroSD cards (up to 256GB), QNAP NAS, FTP, and web browsers like Google Chrome, Safari, Firefox, and Microsoft Edge.



Amcrest View Pro



Download on the
App Store



GET IT ON
Google Play

Free **Amcrest View Pro** app available on mobile devices.



NEVER MISS A MOMENT.



MONITOR WHAT MATTERS.



ALWAYS STAY ALERT.



ACCESS FROM ANYWHERE.

Figure 4: The Amcrest View Pro app allows live viewing and monitoring of multiple camera feeds on mobile devices.

Color Night Vision & Weatherproof Design

The camera features a heavy-duty metal weatherproof IP67 housing, ensuring durability against various weather conditions. Its 1/2.8" 8MP progressive CMOS image sensor provides low-light capability and color night vision up to 49.2 feet. A built-in microphone allows for one-way audio.



Figure 5: The camera's IP67 weatherproof rating ensures functionality and protection against harsh weather conditions like rain.



Figure 6: The camera includes a built-in microphone for clear one-way audio capture, enhancing surveillance capabilities.

Secure Cloud Video Backup & Flexible Storage

Optional Amcrest Cloud remote video storage service provides off-site backup secured by Amazon AWS. Local storage options include MicroSD (up to 256GB), NVRs, and NAS. Dual H.265/H.264 compression ensures efficient storage and bandwidth usage.

Connectivity & Power

The camera utilizes Power over Ethernet (PoE) for both power and data transmission, simplifying installation. It features an RJ-45 (10/100Base-T) Ethernet port.

Technical Specifications

Feature	Specification
Image Sensor	1/2.8" 8MP Progressive CMOS

Feature	Specification
Resolution	4K UltraHD (3840x2160)
Frame Rate	4K @15fps
Lens Type	Fixed 2.8mm
Viewing Angle (H/V/D)	108° / 56° / 129°
Night Vision	Color Night Vision up to 49.2 ft (Dual Illumination)
Audio	1-Way Audio with Built-in Mic
Storage	MicroSD (up to 256GB), Local PC, NAS, FTP, Amcrest Cloud, Amcrest NVR
AI Features	Human & Vehicle Detection, Face Detection, Audio Detection, Perimeter Protection (Tripwire, Intrusion)
Connectivity	PoE (RJ-45 10/100Base-T)
Weatherproof Rating	IP67
Material	Metal
Operating Temperature	-40°F to 140°F
Dimensions	9.8 x 3.3 x 4.3 inches
Weight	1.5 lbs

Table 1: Detailed Technical Specifications for IP8M-2796EB-AI.

SETUP

Follow these steps to set up your Amcrest IP PoE AI Camera:

- 1. Physical Installation:** Mount the camera securely in your desired outdoor location using the provided mounting hardware. Ensure the camera is positioned to cover the intended surveillance area. The camera's robust metal housing and IP67 rating make it suitable for outdoor environments.
- 2. Network Connection:** Connect the camera to your network using an Ethernet cable. Since this is a Power over Ethernet (PoE) camera, it will receive both power and data through this single cable. Connect the other end of the Ethernet cable to a PoE injector or a PoE-enabled network switch.
- 3. Power On:** Once connected to a PoE source, the camera will power on automatically. Allow a few minutes for the camera to boot up.
- 4. Initial Configuration:** Access the camera's web interface via a web browser on a computer connected to the same network. Refer to the Quick Start Guide for default IP address and login credentials. It is highly recommended to change the default password immediately for security purposes.
- 5. Mobile App Setup:** Download the Amcrest View Pro app from the App Store (iOS) or Google Play (Android). Follow the in-app instructions to add your camera by scanning the QR code or manually entering the device details.

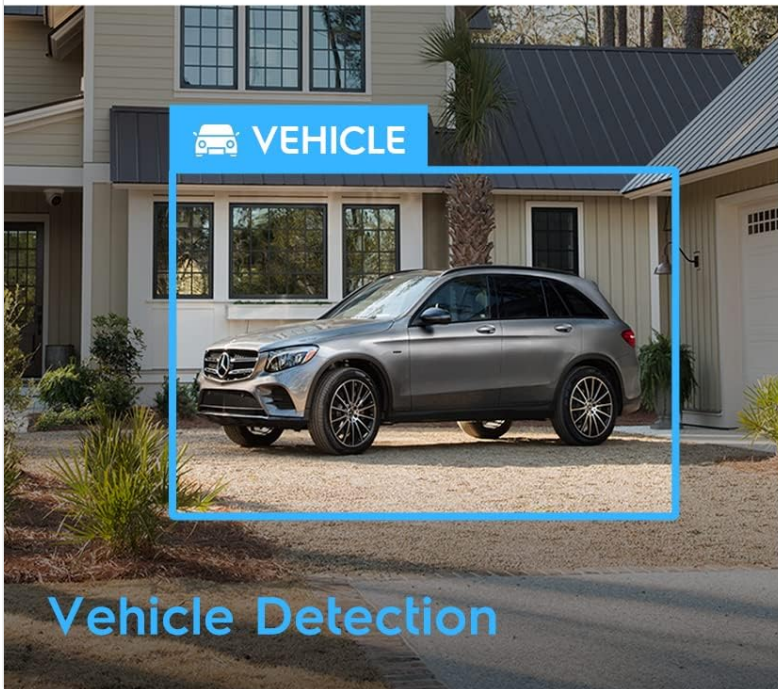
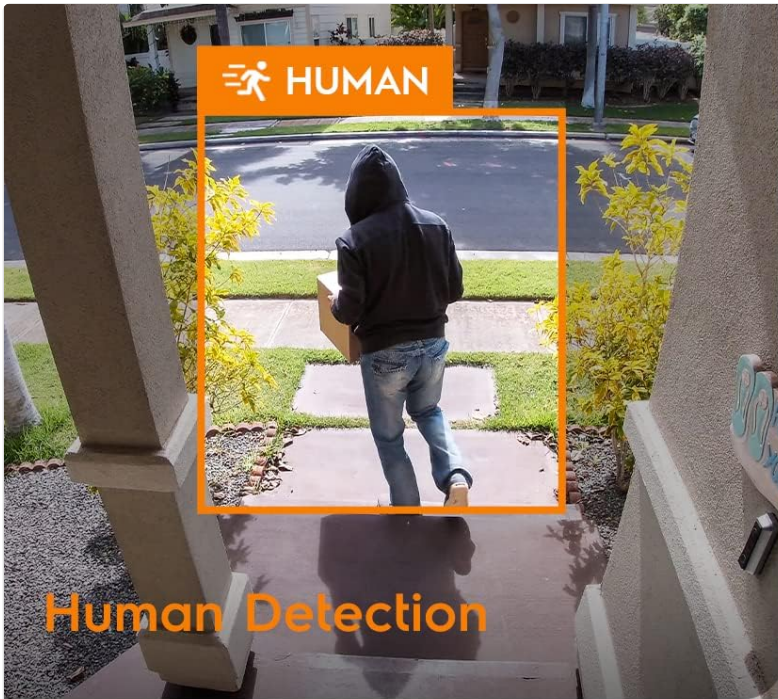
OPERATING

Your Amcrest camera offers various operational modes and features:

- 1. Live View:** Access the live video feed through the Amcrest View Pro app, Amcrest Surveillance Pro software, or the camera's web interface.

2. Motion Detection & AI Features:

- Configure motion detection zones and sensitivity settings via the web interface or app.
- Utilize AI features such as Human Detection, Vehicle Detection, and Face Detection to filter alerts and reduce false positives.
- Set up IVS rules (Tripwire, Intrusion) for specific perimeter protection.



Human & Vehicle Detection

Receive only the alerts you need, with advanced human, vehicle, face and intrusion detection feature.

SET MOTION ZONES

ADJUST SENSITIVITY

Detect What Matters:

- LEAVES
- SQUIRRELS
- RAINDROPS
- HUMAN
- VEHICLE



Figure 7: Human and Vehicle Detection capabilities of the camera, showing how alerts are filtered to distinguish between humans, vehicles, and environmental factors like leaves or raindrops.

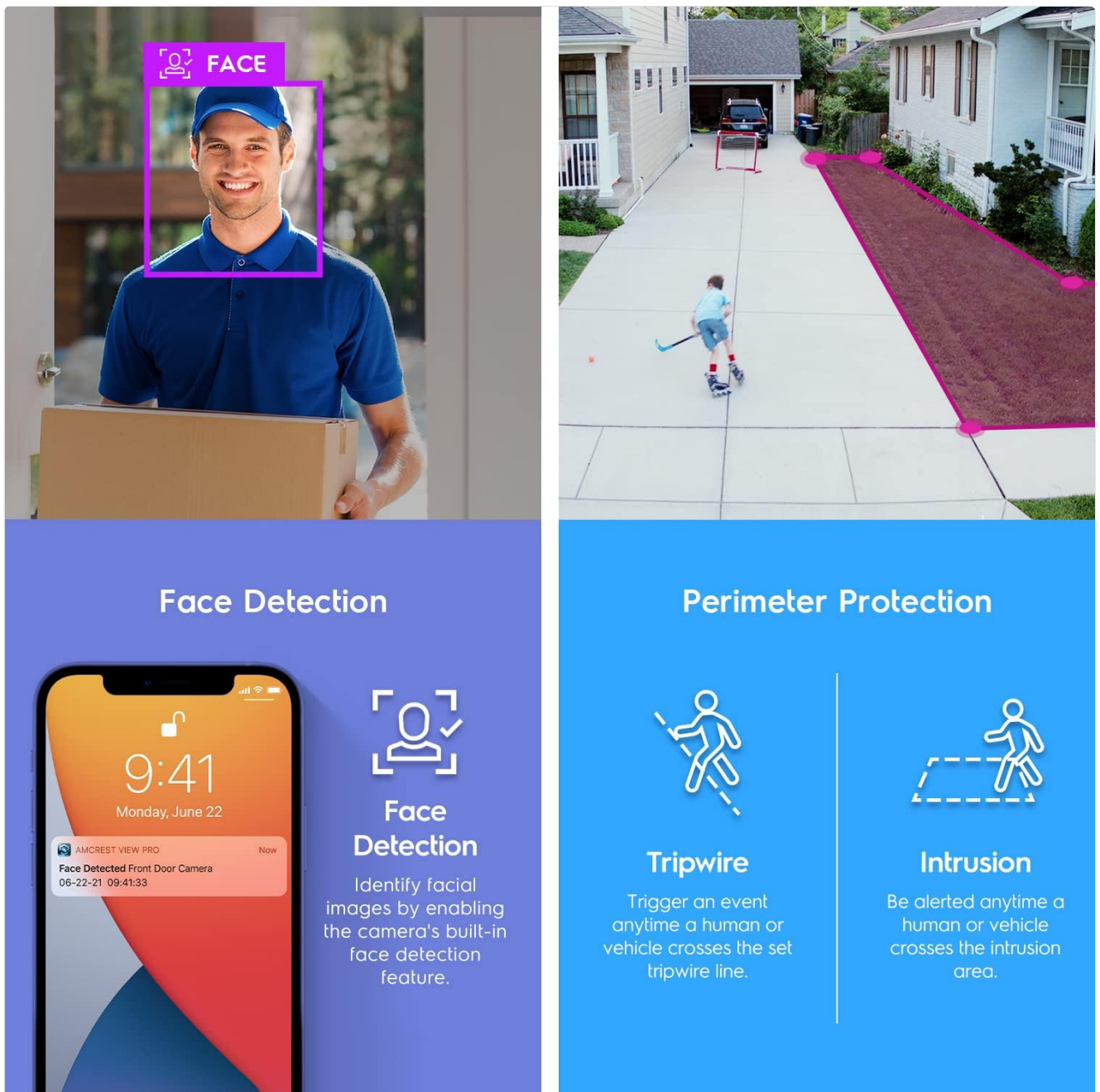


Figure 8: Face Detection and Perimeter Protection (Tripwire/Intrusion) features, illustrating how the camera can identify faces and trigger events when objects cross defined lines or enter specific areas.

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Video 1: Demonstrates the AI features of the Amcrest IP8M-2796EW-AI camera, including human and vehicle detection, tripwire, and intrusion detection. This video also shows the camera's clarity, quality, and color performance at various distances, as well as its IR night vision capabilities.

3. **Night Vision:** The camera automatically switches between day and night modes. Color Night Vision is activated in low-light conditions, providing full-color video up to 49.2 feet. The dual illumination system uses both white LED and IR-LEDs.
4. **Recording & Playback:**
 - Record footage continuously, on motion detection, or on a schedule.
 - Access recorded video for playback through the Amcrest View Pro app, NVR, or web interface.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your camera:

- **Cleaning:** Periodically clean the camera lens and housing with a soft, damp cloth. Avoid abrasive cleaners that could scratch the lens.
- **Firmware Updates:** Check the Amcrest website regularly for firmware updates. Keeping your camera's firmware up-to-date ensures access to the latest features and security enhancements.
- **Cable Inspection:** Inspect the Ethernet cable and connections for any signs of wear or damage, especially in outdoor installations.
- **Mounting Security:** Periodically check that the camera is securely mounted and that all screws are tightened.

TROUBLESHOOTING

If you encounter issues with your camera, refer to the following common troubleshooting tips:

- **No Power/No Video:**
 - Ensure the Ethernet cable is securely connected to both the camera and the PoE source.
 - Verify that the PoE injector or switch is powered on and functioning correctly.
 - Test with a different Ethernet cable or PoE port if available.
- **Poor Image Quality:**
 - Clean the camera lens to remove any dirt or smudges.
 - Ensure there are no obstructions in the camera's field of view.
 - Check network bandwidth if experiencing lag or pixelation.
- **Motion Detection Issues:**
 - Adjust motion detection sensitivity and detection zones.
 - Verify that AI features (Human/Vehicle Detection) are configured correctly to avoid false alerts.
- **Cannot Access Camera Remotely:**
 - Ensure your camera has a stable internet connection.
 - Check router settings for port forwarding if not using Amcrest Cloud or P2P services.
 - Verify that the Amcrest View Pro app is updated to the latest version.

WARRANTY AND SUPPORT

Amcrest products are designed for simplicity, reliability, and security. This Amcrest PoE camera features a secure SSL/HTTPS connection and holds FCC and CE certificates. Amcrest provides a **1-Year US Warranty and Lifetime Support** directly from Amcrest.

For further assistance, please visit the official Amcrest website or contact their customer support.

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Video 2: A video highlighting Amcrest's commitment to simple, reliable, and secure products, emphasizing their dedication to customer safety and support.