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[Q & A](#) | [Deep Search](#) | [Upload](#)

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› [EnGenius](#) /

› [EnGenius ECC100 AI 5MP Dome Security Camera User Manual](#)

EnGenius ECC100

EnGenius ECC100 AI 5MP Dome Security Camera User Manual

Model: ECC100

What's in the

[Introduction](#)

[Box](#)

[Setup](#)

[Operation](#)

[Maintenance](#)

[Troubleshooting](#)

[Warranty &](#)

[Specifications](#)

[Support](#)

1. INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of the EnGenius ECC100 AI 5MP Dome Security Camera. The ECC100 is a cloud-managed AI 5MP dome camera designed for both indoor and outdoor surveillance, offering crystal-clear day and night visuals with a Starvis sensor and 5MP HDR clarity. It features a 132° wide view, 20m IR long-distance coverage, and a durable IP67 weatherproof and IK10 vandal-resistant design. With 256GB of built-in storage, it supports 24/7 continuous event recording. Advanced AI Cloud Analytics provide real-time multimodal analysis for detecting complex behaviors and delivering instant alerts. The system also includes natural language search for efficient footage retrieval and Edge AI with NPU for optimized real-time detection and cloud streaming.



Figure 1: EnGenius ECC100 AI 5MP Dome Security Camera overview.

2. WHAT'S IN THE Box

Verify that all items listed below are present in your package:

- ECC100 AI Network Camera x 1
- EMT Adaptor x 1
- Mounting Plate x 1
- Screw Position Identifier x 1
- Waterproof Connection Kit x 1

**AI Cloud and Edge Analytics enable
advanced outdoor surveillance**

ECC100



Dome
AI Camera

**Cloud
Managed**
Indoor / Outdoor

256GB
Storage

Figure 2: Components included with the ECC100 camera.

3. SETUP INSTRUCTIONS

Follow these steps to set up your EnGenius ECC100 AI 5MP Dome Security Camera:

- 1. Planning the Installation Location:** Choose a location that provides the desired field of view (132° ultra-wide) and is within range of your network infrastructure. Consider the IP67 weatherproof and IK10 vandal-resistant ratings for outdoor or high-risk indoor environments.
- 2. Mounting the Camera:**
 - Use the provided Screw Position Identifier to mark drilling points on the ceiling or wall.
 - Drill pilot holes.
 - Attach the Mounting Plate using appropriate screws (not included, typically).
 - Secure the ECC100 camera to the Mounting Plate.
- 3. Network Connection:**
 - Connect an Ethernet cable to the camera's Ethernet port.

- If installing outdoors, use the Waterproof Connection Kit to ensure a sealed connection.
- Connect the other end of the Ethernet cable to a Power over Ethernet (PoE) switch or a PoE injector to provide both power and network connectivity.

4. Initial Configuration (EnGenius Cloud):

- Access the EnGenius Cloud platform via a web browser or the EnGenius Cloud mobile app.
- Add your new ECC100 camera to your EnGenius Cloud account by following the on-screen instructions. This typically involves scanning a QR code on the camera or entering its serial number.
- Configure basic network settings, time zone, and initial recording preferences.

5. Adjusting Camera View: Physically adjust the camera's dome and lens to achieve the optimal viewing angle.



Figure 3: Example of the ECC100 camera mounted in an outdoor environment, demonstrating its weatherproof design.

4. OPERATING INSTRUCTIONS

The EnGenius ECC100 camera is designed for continuous, intelligent surveillance. Here's how to operate its key

features:

4.1 Remote Monitoring and Access

Access your camera feed anytime, anywhere through the EnGenius Cloud platform. Use the web interface or mobile app to view live streams, review recorded footage, and manage camera settings.

4.2 Continuous Recording and Storage

The camera features 24/7 continuous event recording. With 256GB of built-in storage, video retention is managed internally without requiring an external Network Video Recorder (NVR).

4.3 AI Cloud Analytics and Alerts

The ECC100 utilizes AI Cloud Analytics for real-time multimodal analysis. This system can detect complex behaviors and scenarios such as fights, bullying, accidents, and the presence of weapons. When such events are detected, instant cloud-AI alerts are generated and sent to your configured devices.



Figure 4: Illustration of the ECC100's AI capabilities in detecting and analyzing complex human interactions.

4.4 Natural Language Search

To efficiently retrieve specific footage, use the natural language search function within the EnGenius Cloud platform. Describe what you are looking for (e.g., "person in red shirt walking by at 3 PM") and the AI multimodal LLMs will help locate relevant video clips.

4.5 Edge AI with NPU

The camera's integrated Edge AI with a Neural Processing Unit (NPU) processes footage directly on the device. This optimizes real-time detection and converts video into lightweight metadata, ensuring efficient cloud streaming and reducing network strain.

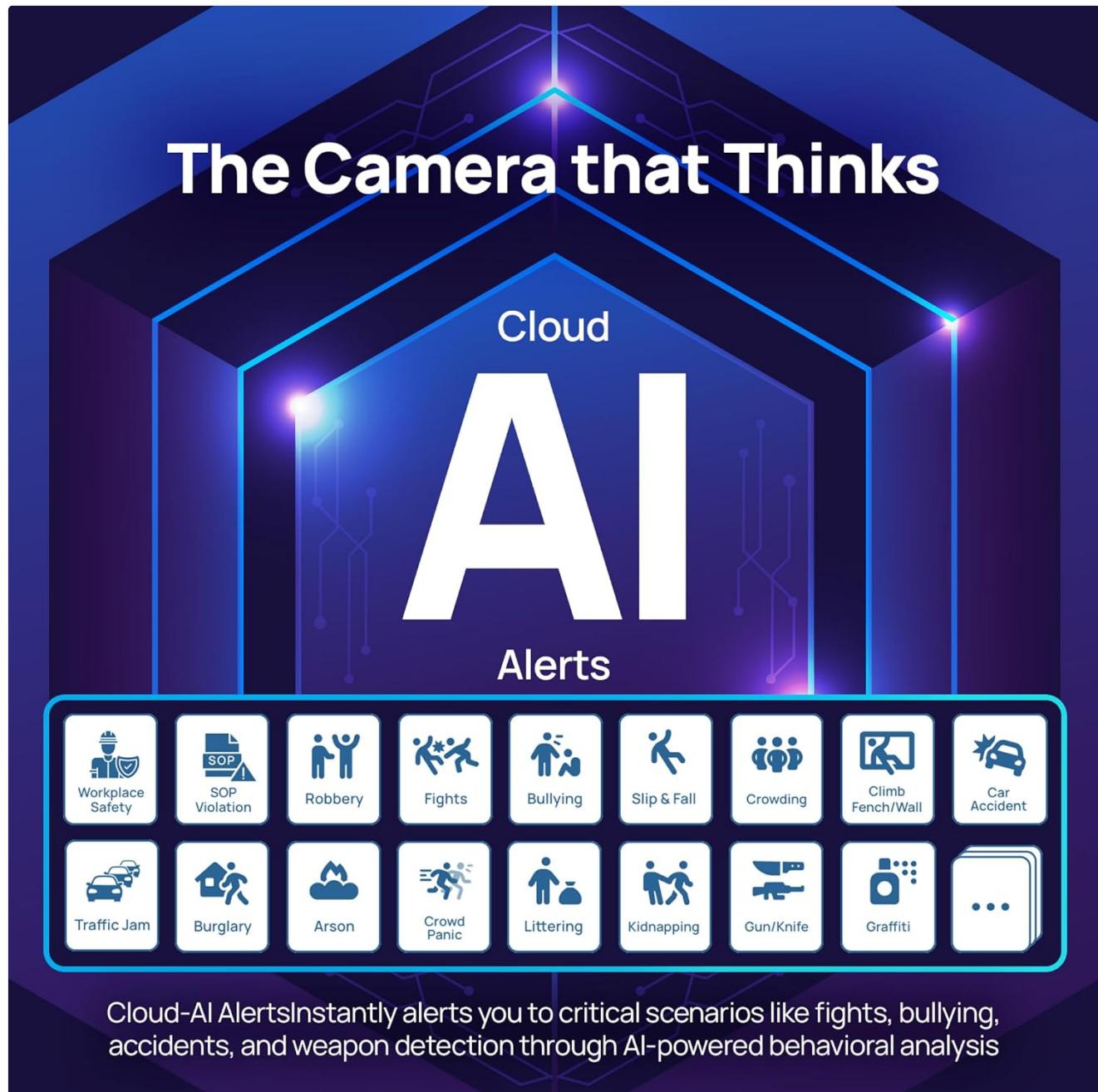


Figure 5: Examples of critical scenarios for which the ECC100 can generate AI-powered alerts.

5. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your ECC100 camera.

- **Lens Cleaning:** Periodically clean the camera lens with a soft, damp cloth to remove dust, dirt, or water spots that may obscure the view. Avoid abrasive cleaners.
- **Firmware Updates:** Regularly check for and apply firmware updates through the EnGenius Cloud platform.

Updates often include performance improvements, new features, and security enhancements.

- **Physical Inspection:** Inspect the camera's mounting and cabling for any signs of wear, damage, or loosening, especially for outdoor installations. Ensure the waterproof connections remain sealed.
- **Storage Management:** While the camera has 256GB of built-in storage, monitor its usage through the EnGenius Cloud to ensure sufficient space for continuous recording.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your ECC100 camera.

Problem	Possible Cause	Solution
No Power/Camera Not Turning On	No power from PoE switch/injector, faulty cable.	Verify the PoE switch/injector is powered on and functioning. Check the Ethernet cable for damage and ensure it's securely connected. Try a different PoE port or cable.
No Video Feed in EnGenius Cloud	Network connectivity issue, camera not properly added to cloud, incorrect network settings.	Check network cable connection. Ensure the camera has an active internet connection. Verify the camera is correctly registered in your EnGenius Cloud account. Check firewall settings if applicable.
Poor Image Quality	Dirty lens, low light conditions, incorrect camera settings.	Clean the camera lens. Ensure sufficient lighting for optimal performance, especially at night (IR range is 20m). Adjust image settings (brightness, contrast, HDR) in the EnGenius Cloud interface.
AI Alerts Not Triggering	Incorrect AI analytics configuration, sensitivity settings too low, camera view obstructed.	Review AI Cloud Analytics settings in the EnGenius Cloud. Adjust detection zones and sensitivity levels. Ensure the camera's field of view is clear.
Cannot Access Camera Remotely	Internet connection issues, EnGenius Cloud service outage, incorrect login credentials.	Check your internet connection. Verify the EnGenius Cloud service status. Ensure you are using the correct login details for your EnGenius Cloud account.

7. SPECIFICATIONS

Detailed technical specifications for the EnGenius ECC100 AI 5MP Dome Security Camera:

Feature	Detail
Brand	EnGenius
Model Name	EnGenius Cloud Managed AI Indoor/Outdoor Dome Camera with 256GB Storage
Item Model Number	ECC100
Indoor/Outdoor Usage	Indoor, Outdoor

Feature	Detail
Connectivity Technology	Ethernet
Connectivity Protocol	Ethernet
Controller Type	EnGenius Cloud
Special Feature	Vandal Proof (IK10), Weatherproof (IP67)
Video Capture Resolution	Optional 768Kbps, 1Mbps(default), 2.5Mbps (5MP HDR clarity)
Video Capture Format	H.265, H.264
Field of View	132° Ultra-Wide View
IR Night Vision	20m long-distance coverage
Built-in Storage	256GB
Power Source	Corded Electric (PoE)
Mounting Type	Ceiling Mount
Item Dimensions (L x W x H)	4.79 x 4.79 x 3.73 inches
Item Weight	2.25 pounds
Manufacturer	EnGenius Technologies

8. WARRANTY INFORMATION

EnGenius products are covered by a limited warranty. For specific warranty terms and conditions applicable to your ECC100 camera, please refer to the official EnGenius website or the warranty card included with your product. Keep your proof of purchase for warranty claims.

9. TECHNICAL SUPPORT

If you encounter issues that cannot be resolved using the troubleshooting guide, or require further assistance, please contact EnGenius Technical Support. You can find contact information and additional resources on the official EnGenius website:

Website: www.ingeniustech.com/support

Please have your product model (ECC100) and serial number ready when contacting support.