



# AX Eagle ID Patch

## *Passive Thermal Identification & Recognition System*

Thermal sensors are now embedded across the modern battlefield - from overhead ISR and loitering munitions to the fusion and clip-on systems making their way onto operator helmets and weapon rails.

While thermal systems have revolutionized detection, distinguishing one human signature from another remains difficult. Until now.

The AX Eagle ID Patch delivers instant thermal recognition of friendly forces with no power, no emissions, and no user input. Designed for seamless integration into standard gear, it enhances visibility under thermal optics while maintaining no electronic or IR signature.



Where rapid coordination and sensor-driven engagements define mission success, the AX Eagle ID patch ensures friendly elements can be positively identified in real time - supporting tighter maneuver integration, faster targeting cycles, and reduced risk of fratricide.

### **Key Features:**

- Visible under thermal and visual spectrums
- No power or user activation required
- Zero active emissions
- Lightweight, low-profile, and flexible construction
- Mounts via standard hook-and-loop to uniforms and equipment



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## Use Cases



### ISR and CAS Coordination

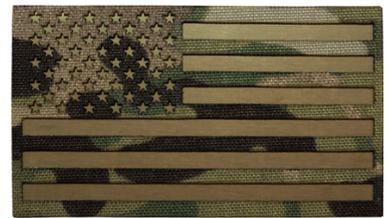
The AX Eagle ID Patch enables rapid identification of friendly forces by overhead assets, improving coordination and reducing fratricide risk. ISR Platforms can track ground elements with immediate visual confirmation. Supporting fires gain clear distinction between friendlies and targets, enabling tighter fire support integration. In environments where munitions and autonomous systems are operating near friendly forces, the patch becomes a critical safety tool, providing a visual abort marker for incoming munitions.

### High-Density Environment Identification

In urban terrain and human-dense zones, friendly personnel may be closely-mixed in with others. The AX Eagle ID Patches immediately identifies team members among multiple human signatures, cutting through thermal clutter and enabling rapid positive ID in groups or crowds of people.

### Emission-free Low Light ID

During low-light operations near enemy lines, the AX Eagle ID Patch enables passive identification between ground elements without compromising the observing unit's position. By recognizing the patch's distinct signature through optics, units can confirm friendly forces without relying on IR illumination or radio traffic, turning anonymous heat signatures into positively identified firendlies while maintaining operational security.



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# Eagle ID Patch – Instructions

This patch is a passive identification marker designed for use with modern thermal imaging systems.

- Provides a distinct, high-contrast marker visible through thermal optics.
- Functions without power and active emission sources.
- Enables rapid positive identification of friendly personnel or equipment in the visual and thermal spectrum.

## Installation

- Select an outward-facing hook-and-loop mounting surface on your uniform or gear. Ensure the area is clean, dry and free of dust and debris.
- Attach the patch to the mounting surface, pressing firmly across the entire patch to ensure full contact and prevent edge lift.

## Usage Tips

- Performance varies by angle of the patch-face to the observing thermal optic; optimal visibility occurs when the patch is slightly angled upward.
- At close ranges and with high-resolution sensors the pattern is visible, at longer distances or with lower-resolution sensors it will appear as a cold spot rather than a detailed shape.
- Thermal visibility is reduced indoors but may still appear under certain angles or when the patch draws body heat through the uniform.
- Keep the surface free of mud, debris, and water, as buildup can obscure the thermal signature.
- Remember that the patch is visible to all thermal optics, including those used by non-friendly forces.

## Care & Maintenance

- Clean using a dry, soft cloth or similar material to avoid scratching the thermal film. Do not use abrasive materials or solvents.
- Do NOT wash the patch in a laundry machine. Remove the patch before washing uniforms.
- Thermal film is susceptible to scratching and layer wear; lifespan depends on handling and environment. Rugged field use may shorten durability.
- Patch layers may delaminate under heavy use. If separation occurs, press the layers together to restore contact. As a temporary field fix, a small amount of super glue or similar adhesive may be applied to re-bond the layers, though replacement is recommended to ensure optimal performance.

## Warnings

- This patch is an identification aid only. Users should follow proper procedures and adhere to Rules of Engagement (ROEs) before engaging targets.
- This patch is not a protective device and provides no ballistic, thermal, or environmental protection.
- Patch performance can vary based on angle, environmental conditions, and sensor type.
- Do not expose excessive heat sources, open flames, or chemical cleaners.
- Do not eat the patch.
- Do not machine-wash or tumble dry.

**For support, replacements, or technical questions, contact us at [ops@axinnovations.com](mailto:ops@axinnovations.com) .**



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