



ZERO-TRUST FOR PHYSICAL THINGS - Every item identified, verified, and traced, ensuring only verified items enter your value chains and operations, minimizing risks.

Alitheon's FeaturePrint® is a machine-vision based no-touch serialization technology that provides irrefutable identification and traceability for physical items. It addresses critical government challenges by eliminating counterfeit and gray market parts, and streamlining inventory management, significantly reducing time, cost, and errors. FeaturePrint ensures supply chain integrity and enhances operational readiness, aligning with government's IUID modernization and Artificial Intelligence/Machine Learning (AI/ML) integration goals.

The government faces a significant and ongoing risk from fraudulent parts, leading to critical failures, compromised safety, and jeopardized missions. Current inventory management relies on tedious, error-prone manual processes and external proxies (e.g. barcodes, RFID, paperwork) that are easily lost, damaged, or counterfeited, resulting in significant financial losses and a lack of precise, item-level traceability and accountability.

FeaturePrint is a multi-patented machine-vision technology that creates a unique, persistent, and inherent identifier for individual physical items, functioning "like fingerprints are for people" by recognizing minute manufacturing surface variations. It establishes a zero-trust model for physical things, where the item itself provides its identity, eliminating reliance on external, modifiable proxy markers.

Key Advantages for Government:

- **No Physical Alteration:** Preserves item integrity, simplifies integration.
- **Unmatched Accuracy:** >99.99% accuracy with zero false positives in customer deployments.
- **Real-World Resilience:** Effective despite wear, damage, or partial views.
- **Deployment Versatility:** Works on various materials (metals, plastics, 3D printed, etc.) and with diverse cameras (industrial and mobile phones).
- **Deployment Flexibility:** can be deployed on GovCloud, local networks, and even air gapped.

FeaturePrint delivers profound benefits for Government operations:

- **Enhanced Inventory & Traceability:** Provides unique digital identifiers for every item, enabling item tracing ("the one in a million"). Saves warfighters time in tedious inventory tasks.
- **Eliminating Counterfeit & Gray Market Threats:** Irrefutably identifies and authenticates items, ensuring only correct and authorized parts are used. Nothing to remove, copy, or fake, providing an impenetrable defense against fraudulent activities.
- **Cost Reduction & Efficiency:** Eliminates fraudulent items and human error, streamlining operations and minimizing financial losses from counterfeits, recalls, and rework. Optimizes logistics by reducing excess stock and storage costs.
- **Strategic Alignment:** Directly supports Assistant Secretary of Defense for Sustainment 2023 Strategic Plan LOE 1.2.5 (modernize IUID) and LOE 1.3.4 (improve logistics info via AI/ML).

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IP: All developed in
house in Bellevue, WA.
>55 Issued Patents.

[Tradewinds Awardable](#)

Completed:
SBIR Phase IIs w/ USAF
NWC; USAF RSO; Army
Stryker and 101st Airborne.



I. Take Photo

II. Digital
FeaturePrint
Created



III. Identify
Authenticate
Trace