

A zero-trust model for physical parts, products, and supply chain.

FeaturePrint: Traceability, Identification, Verification



PROBLEM

Inventory mismanagement, fraudulent items, and human error impact operations every year.

Current solutions (bar codes, QRs, tags, paperwork, etc.) are unreliable. In many cases they don't even serialize or trace at the individual item level.

- Require marking and manipulating items and products; and specialized equipment.
- Can be erased, lost, damaged, moved from part to part, and counterfeited themselves.
- Counterfeiting and gray market is a \$3 trillion global problem.

San Francisco Chronicle 5.5K Followers
Bay Area businessman accused of selling fake fans to the military, possibly risking missile systems and a nuclear sub

ars TECHNICA 5/3/2024
Counterfeit Cisco gear ended up in US military bases, used in combat operations

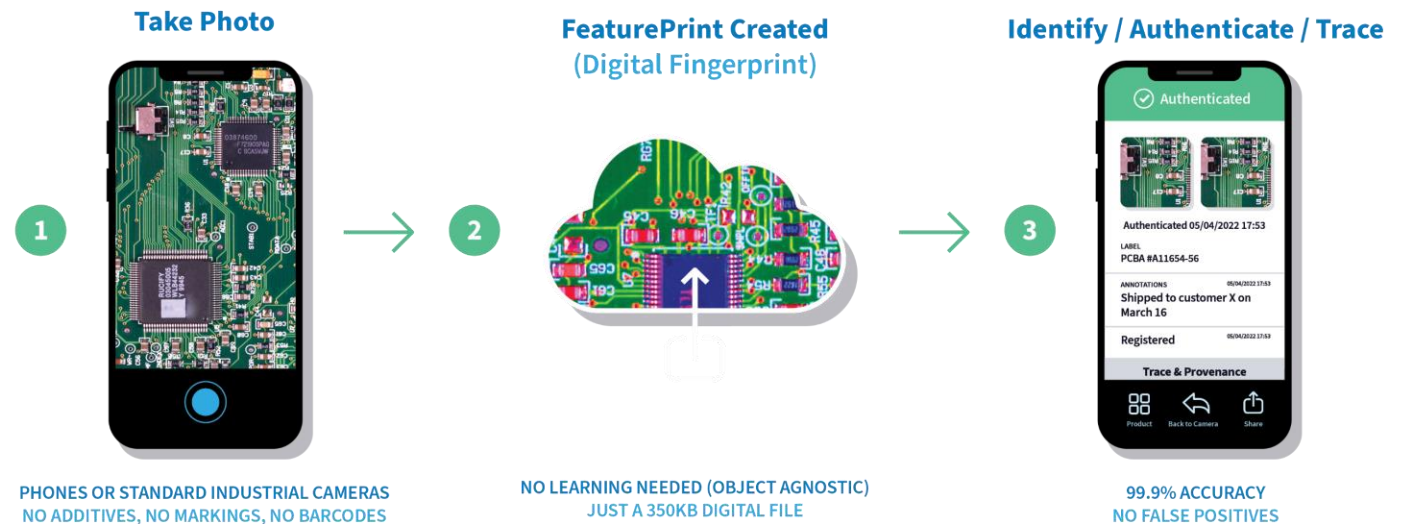
FIRSTPOST.
US military scammed into buying Chinese, counterfeit IT products for F-16, F-18, F-22, Apache aircrafts Mehul Reuben Das May 6, 2024

DefenseNews May 31, 2023
Auditors: Over 1 million F-35 spare parts lost by DoD and Lockheed
By Stephen Losey

Wednesday, May 31

FeaturePrint®: The Foundation of Trust for Physical Items

- FeaturePrint provides a unique, immutable digital fingerprint for every physical item.
- It uses off-the-shelf cameras or mobile phones and doesn't require adding anything to the product.
- This technology enables full serialization, traceability and authentication with just a picture.



“FeaturePrint offers groundbreaking capabilities that dramatically improve inventory management and readiness reporting, from the small unit level to the Army Enterprise and beyond. This technology is an invaluable application for advancing operational efficiency and effectiveness.”

James A. Hayes, Colonel (Ret), former Director of Current Operations and the Stryker Warfighters' Forum, I Corps, U.S. Army.





Simplicity is Profound. Impact is Significant.

- Slash administrative burdens and eliminate repetitive data entry.
- Instantly and undeniably identify and validate every single part.
- Drastically simplify inventory management, freeing up servicemembers from administrative drag.
- Eradicate costly installation misidentification errors.
- Accelerate replenishment and boost readiness across the board.
- Proactively prevent issues and seamlessly share critical data across all DoD branches—Active, Guard, and Reserve.
- Combat counterfeits and errors in the global supply chain, saving the DoD hundreds of millions of dollars annually.

FULL 10-MINUTE MIXED
DEMONSTRATION

METAL PARTS

REAM OF PAPER

AUTOMATED
INDUSTRIAL LINE

CAR BRAKE PADS

PHARMA



**Alitheon offers the
only complete solution.**

→ Item Does NOT Need Modification



→ Ready to Use / No Learning Needed



→ Simple Integration



→ Authenticates Class



→ Identifies / Authenticates
the ONE of Many



→ Tamper Proof

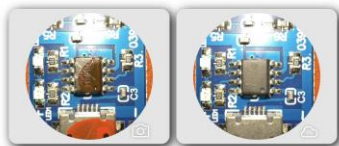
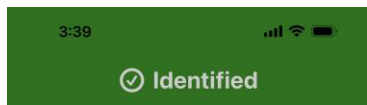


Additive Technologies
e.g. QR code, NFC, RFID, etc.

Machine-Learning



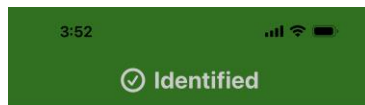
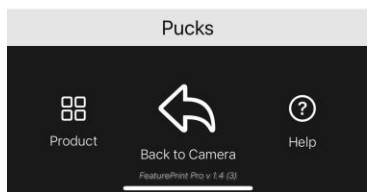
FeaturePrint: Redefining Serialization and Authentication - Beyond Current Limitations



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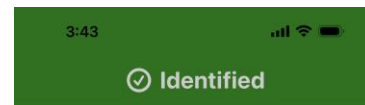
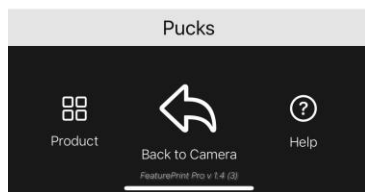
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Identified 10/12/2023 15:52

Item ID
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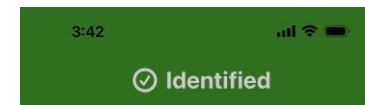
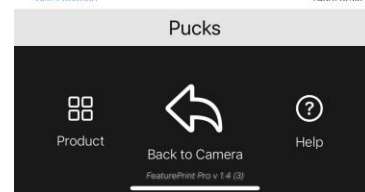
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Item ID
Breaker 17765-2

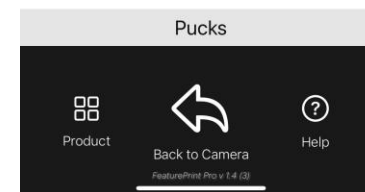
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FeaturePrinted See Location	10/12/2023 15:41 rganzarski



Identified 10/12/2023 15:42

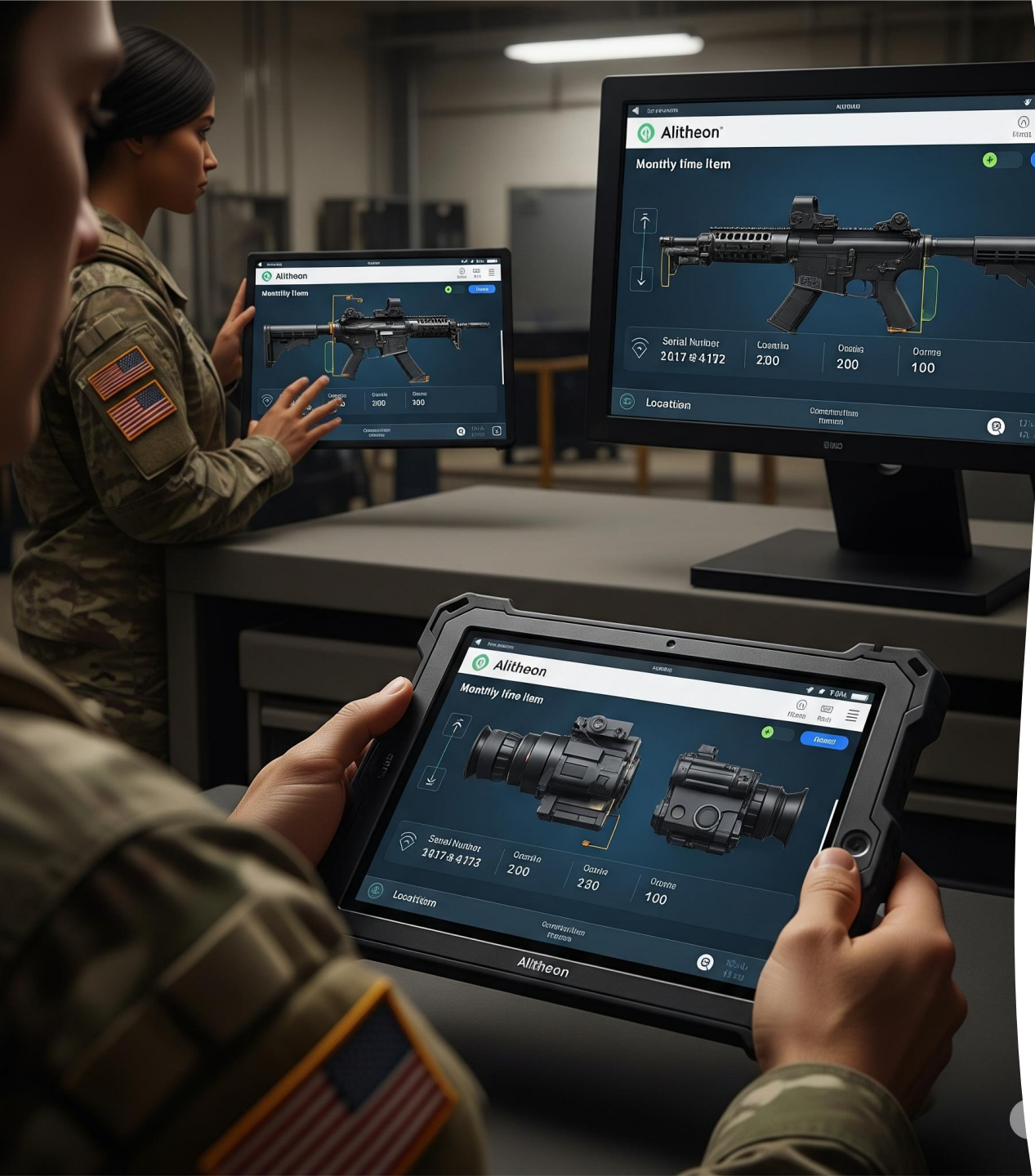
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Identified See Location	10/12/2023 15:41 rganzarski
FeaturePrinted See Location	10/12/2023 15:41 rganzarski



Better Than Any Alternatives

- Identifies after physical damage
- Identifies after erasing / hiding “traditional” identifiers such as QR / bar codes and serial numbers



"The time saving and peace of mind provided to commanders at all echelons will be well worth fielding Alitheon's tech."

1LT, Quartermaster, Maintenance Control Officer

B Co, 2D BSB, 2-2 SBCT, JBLM

Recent Recognitions



- **Oct 2023:** Selected as one of TIME Magazine's 2023 **Best Inventions**.
- **Jun 2023:** Named **Best Optical AI Solution** in 2023 Artificial Intelligence Breakthrough awards.
- **Feb 2023:** Named by the **London Bullion Market Association (LBMA)**, the independent standards authority for the global precious metals industry, as one of only five companies globally (and the only US-based company) to support the Gold Bar Integrity initiative.
- **Dec 2022:** Awarded the 2022 **Pharma Innovation Awards** for help solving pharma's current woes and pushing the boundaries on what is possible within pharma manufacturing.

Securing Innovation: Our Robust Portfolio of Intellectual Property

- In-House Innovation:
 - FeaturePrint developed entirely by Alitheon in the US.
- Extensive Protection:
 - Over 55 issued patents with additional pending.
- Sample Areas of Coverage:
 - Document Fingerprinting: (Patent #8774455)
 - Digital Fingerprinting:
 - Object Authentication & Anti-counterfeiting (Patent #9443298)
 - Track & Trace (Patent #9582714)
 - Advanced Authentication: (Patent #10915749)
 - Inventory Management/Identification: (Patent #9646206)
 - Change-Resilient Authentication: (Patent #11100517)
- Strategic Value:
 - Robust IP portfolio that protects technology and secures a competitive edge.
- For More Details: Visit ppubs.uspto.gov for the complete portfolio.





ALITHEON

TRANSPARENCY, TRACEABILITY, TRUST

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