

FeaturePrint

Zero-trust for physical things.
Photo-based identification, authentication, and traceability
No added markings. Works with off-the-shelf cameras or mobile phones.

MISSION READINESS

- Accelerate replenishment and simplify readiness reporting
- Slash administrative burden, errors, and repetitive data entry
- Item-level accountability: "the one in a million"

LETHALITY

- Ensure only correct and authorized parts are installed and used
- Reduce misidentification errors that impact readiness and timeliness
- Validate with a single photo at point of use

SUPPLY CHAIN RESILIENCE

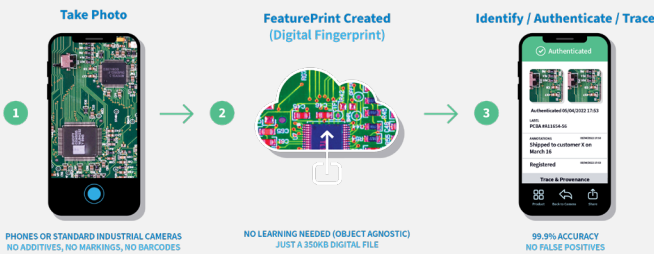
- Eliminate fraudulent parts from entering DoW
- Nothing to remove, copy, or fake - the item is its own identifier
- Works despite wear, damage, or partial views

What it is

A patented dual-use machine-vision technology that creates a unique, persistent, inherent identifier for each physical item - like fingerprints for people - by recognizing minute surface variations.

How it works

Take a photo → create a digital FeaturePrint → identify, authenticate, and trace the exact item anywhere in the lifecycle.



Operational Outcomes

- Instantly and irrefutably identify and validate every single part and item.
- Simplify inventory management - freeing warfighters from administrative drag.
- Stop counterfeits and errors in the global supply chain, saving the DoW hundreds of millions of dollars annually.

Why FeaturePrint

- No physical alteration - preserves item integrity and simplifies integration.
- No proxies (barcodes, QR, RFID, tags) that can be lost, damaged, moved, or faked.
- Unmatched accuracy: >99.99% accuracy with zero false positives in customer deployments.
- Real-world resilient: effective despite wear, damage, or partial views.
- Deploy anywhere: GovCloud, local networks, and air-gapped environments.

Where it fits in DoW lifecycle

- Manufacturing acceptance & receiving
- Warehouse, arms room, issue/turn-in
- Depot maintenance, repair, and service
- Theater logistics & audit-ready readiness
- Counterfeit avoidance at point-of use

Supports DoW strategic objectives

- Supports DoD Instruction 4140.67 Counterfeit Prevention Policy.
- Supports ASD(Sustainment) 2023 Strategic Plan: LOE 1.2.5 (modernize IUID) and LOE 1.3.4 (improve logistics information quality via AI/ML).

Program momentum

Tradewinds Awardable
SBIR Phase IIs with: USAF NWC and RSO; Army Stryker and 101st Airborne.

“Using Alitheon’s FeaturePrint technology, we were able to validate and authenticate our products with unprecedented accuracy without the use of barcodes, QR codes, or physical tags! This breakthrough allows us to move toward a future where every individual item can tell its own story.”

1LT Campbell, QM, 101st Airborne, US Army.