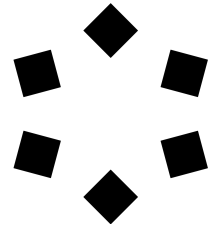


IDENTIFI



MULTI-MODAL BIOMETRICS AT THE TACTICAL EDGE

EXECUTIVE SUMMARY

Identifi by Reveal Technology is an advanced multimodal biometric solution tailored for use in disconnected and challenging environments. This platform integrates facial recognition, iris scans, and contact and contactless fingerprinting into a single, versatile system that operates without requiring network connectivity. Designed with the warfighter in mind, Identifi enables rapid on-device identification and verification, greatly enhancing situational awareness and operational security on the front lines. Identifi's edge processing capabilities eliminate the need for real-time data connections, providing actionable intelligence where it is needed most.



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Introduction

Biometric identification has become a critical component in modern tactical operations, yet existing solutions often fall short in disconnected or network-constrained environments. Traditional systems rely heavily on centralized databases and network connectivity, which can be compromised in remote or contested areas. Identifi addresses these challenges by offering a secure, on-device solution that empowers tactical teams to perform rapid, reliable biometric identification anywhere, anytime. Developed alongside USSOCOM and extensively field-tested, Identifi sets a new standard for biometrics at the edge.

FIELD TESTED

Identifi has undergone extensive field testing, including successful deployments at high-profile defense evaluations such as Trident Spectre and the Tactical Biometric Event 2023 (TBE-23).

REAL WORLD PERFORMANCE

Identifi's capabilities are designed to meet the needs of operators in the most demanding environments.

Competitive Advantage

DIFFERENTIATION FROM EXISTING SOLUTIONS

Unlike some biometric systems that rely on network access, Identifi processes all biometric data locally on the device. This approach not only increases speed but also enhances security by keeping sensitive data off the network. Identifi's user interface is designed with the operator in mind, offering an intuitive experience that requires minimal training. The platform's multimodal capabilities and flexibility across various mission profiles set it apart from other solutions.

VERSATILITY AND EASE OF INTEGRATION

Identifi's platform-agnostic design allows it to be used with any Android device, making it adaptable to the needs of different units and operational contexts. The system's modular architecture supports rapid updates and integrations, ensuring that Identifi remains at the forefront of biometric technology.

Operational Impact

USE CASE SCENARIO

In remote, austere locations, Identifi allows special operators to quickly verify the identities of high-value individuals (HVIs) or potential adversaries. The system's rapid, highly accurate matching and watchlist capabilities make it an ideal tool for checkpoints, gatekeeping, and other access control scenarios where speed and accuracy are paramount.

PERFORMANCE EVALUATION

During field tests, Identifi demonstrated operator preferred user interface, matching accuracy, and reliability, meeting or exceeding performance benchmarks set by USSOCOM and other military stakeholders.



System Overview

Identifi combines a powerful Android application with a custom hardware peripheral, the IDsled, to deliver a comprehensive biometric solution. This system enables advanced biometric data collection and matching. Key features of Identifi include:



FACIAL RECOGNITION

Leveraging advanced algorithms, Identifi delivers fast, accurate, and bias-mitigated facial recognition, providing reliable identification in a wide range of lighting and environmental conditions.



CONTACT AND CONTACTLESS FINGERPRINTING

Identifi supports both traditional contact fingerprinting through the integrated IB Five-0 sensor and contactless fingerprinting using only a smartphone's rear camera. This approach allows operators to capture high-quality, Electronic Biometric Transmission Standard (EBTS)-compliant fingerprint images quickly and without additional equipment.



IRIS SCANNING

The dual-eye iris scanning capability, powered by the IriTech IriShield sensor, ensures accurate and efficient capture even in direct sunlight, meeting stringent DoD and NIST standards.



VOICE COLLECTION

Identifi facilitates the capture and export of voice samples using on-device recording capabilities.



ID CARD SCANNING

Integrated OCR technology allows the user to automatically scan and digitize over 2,000 types of identification documents from 140 countries, streamlining demographic data input.



ATAK INTEGRATION:

The system's ATAK plugin enables seamless sharing of biometric matches to users on the TAK network, enhancing situational awareness and communication among tactical teams.

LOCAL WATCHLIST CREATION

Watchlist creation allows operators to create and manage custom watchlists directly on the device, enabling the addition of new encounters or mission-specific profiles without relying on external databases.

Technical Capabilities

BIOMETRIC MATCHING

Identifi performs biometric matching entirely on the device, comparing captured data against on-device watchlists without the need for external connections. This capability ensures immediate access to identification data, crucial for operations in communication-denied environments. Identifi's matching algorithms achieve high accuracy with rapid processing times. Against an on-device watchlist of over 100,000 individual records, Identifi achieves single modality facial matches occur in less than five seconds, and multimodal searches (face, fingerprint, iris) complete in under a minute.

COMPLIANCE AND SECURITY

Identifi adheres strictly to DoD EBTS v1.2 and v4.1 standards, ensuring compatibility with existing military biometric systems. Data security is a cornerstone of Identifi's design, with 256-bit AES encryption and secure processing pathways that protect sensitive biometric information. The air-gapped process for data handling eliminates the need for network connections, further reducing vulnerability to cyber threats.

BIOMETRIC HARDWARE: IDSLED

The IDSled integrates dual biometric capabilities into a rugged, compact design, featuring a dual-eye iris scanner and contact fingerprint reader. The iris scanner captures high-resolution images (640 x 480 pixels) at an optimal 14.5 cm distance, with secure on-board processing and encryption. The fingerprint reader captures 500 ppi resolution images across a 81.28 x 50.80 mm area, supporting rolled and flat prints with high speed and accuracy. Both sensors are fully compliant with FBI Appendix F, STQC, and other key safety and environmental standards, ensuring robust performance in varied field conditions.

Identifi at a Glance





Conclusion

Identifi represents a paradigm shift in biometric identification for disconnected and agile teams. Its field-proven, AI-driven approach delivers immediate, actionable intelligence to frontline operators, making it an indispensable asset in modern tactical operations. As defense environments become increasingly complex, Identifi's robust, on-device biometric capabilities will continue to empower warfighters, enhancing security and operational effectiveness in any setting.

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