Powering Trusted Identities With Fingerprint Biometrics

Identity Authentication With Speed, Simplicity & Trust

HID

Fingerprint Authentication: Accurate. Every Time.

Proving one's identity has never been easier. Unique physical traits — like our fingerprints — are used to seamlessly authenticate, verify and confirm who we are with the press of a finger. And it's all done with speed, simplicity and accuracy — every time.

Advancements in biometric fingerprint technologies are transforming everyday authentication. Fingerprints are conveniently always nearby. And using fingerprints for authentication delivers the highest level of identity assurance — especially when backed by superb security and the efficiencies expected from HID, the world leader in trusted identities.

With fingerprint authentication, you will appreciate superior security and efficiency. Users will appreciate an exceptional experience.

Big Benefits With Each Touch

Irrefutable Proof of Identity

- Unique traits for everyone
- Highest level of accuracy
- Prevents identity theft & fraud

Maximum Security

- Can't be lost or stolen
- Non-transferable
- Can't be shared

Time Savings & Cost Effective

- No password-reset hassles
- No provisioning
- No replacing cards or tokens

Convenient

- Always with us
- Easy to use
- No password to remember

Efficient

- Just the touch of a finger
- Authentication in seconds
- Streamlined workflows

Regulatory Compliant

- Undeniable proof of presence
- Audit trail documents who did what & when

A Comprehensive Collection Engineered for Performance

HID offers a wide variety of fingerprint technologies with varying capture methods, security features, form factors and industry certifications. These fingerprint devices capture clear detailed images for enhanced template creation, matching and presentation attack detection (PAD). HID's fingerprint readers are compliant with an extensive range of biometric standards globally.

Consider the following four sensing technologies when evaluating your unique requirements. Whatever your use case is, our product lineup ensures we have a solution to meet your budget and needs.

Optical | **Capacitive** | **Multispectral Imaging (MSI)** | **Thin-Film Transistor (TFT)**

OPTICAL

Optical fingerprint sensing technology is the most mature and cost effective for all types of use cases. **HID DigitalPersona®** optical fingerprint readers and OEM modules boast a compact footprint to fit in most desktop or shared workstation settings to read a wide range of fingerprints quickly and accurately from any placement angle.

For high-volume enrollment and authentication applications, the HID DigitalPersona series is the perfect biometric peripheral for the job. Certified to FIPS 201/PIV, FAP20 and FAP30 standards, HID DigitalPersona devices are designed to meet the needs of civil ID deployments and the demands of the commercial sector — ideal for voter registration, national ID, benefits distribution, retail POS, healthcare and network/application access.

DigitalPersona DP4500 USB Desktop Reader

DigitalPersona DP5300 USB Desktop Reader

DigitalPersona DP4500 OEM Module

DigitalPersona DP5200 OEM Module

DigitalPersona DP5300 OEM Module

CAPACITIVE

Capacitive fingerprint readers ensure superior capture quality. These readers are power-efficient, well-suited for battery-operated devices, and less prone to fake finger attempts. They also perform well indoor and outdoor being water and dust resistant.

HID's compact, low-power capacitive **EikonTouch®** fingerprint readers and **TouchChip®** OEM modules boast several advantages over competing solutions. These readers offer encrypted USB communication for enhanced security and built-in PAD technology to minimize the risk of the wrong person gaining access or being misidentified. They are also highly energy efficient, using less than 100mA for fingerprint capture and matching.

With a small form factor and durable materials, the EikonTouch and TouchChip product lines are ideal for high-traffic environments, such as border crossing, retail point-of-sale, and shared stations for healthcare providers.

EikonTouch TC510 USB Desktop Reader

EikonTouch TC710 USB Desktop Reader

TouchChip TCET OEM Module

MULTISPECTRAL IMAGING (MSI)

Multispectral imaging (MSI) fingerprint technology is an HID-patented technology that can capture the most difficult fingerprints in the most challenging environments. HID's **Lumidigm®** MSI fingerprint sensors read both the surface and subsurface fingerprint data using multiple colors of light at different angles for superior matching accuracy and liveness detection.

A big advantage for HID Lumidigm MSI readers is the ability to capture fingerprint images from all types of skin conditions (dry, dirty, damaged, oily, wet and aged) and in challenging environments.

What's more, the Lumidigm MSI sensors incorporate sophisticated endpoint security technology to encrypt data to and from the device using FBI-certified encryption algorithms to prevent bad actors from accessing your networks. If a hacker attempts to gain access to the reader, the MSI device provides active tamper protection and detection features that will erase the encryption keys, preventing the hacker from accessing your keys.

Lumidigm V-Series USB Desktop Readers

Lumidigm V-Series OEM Modules

Lumidigm M-Series USB Desktop Readers

Lumidigm M-Series OEM Modules

What's Magnificent About MSI:
Capture both surface and subsurface fingerprint data

The magic in HID's patented MSI technology lies in the light. The HID MSI Lumidigm readers use multiple colors of light from different angles to penetrate the skin and capture subsurface data that matches your external fingerprint.

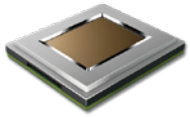
This unique ability enables the Lumidigm readers to capture the most difficult finger types, increasing your users' satisfaction by reducing false rejections and failure to enroll. Most importantly, the HID MSI technology can easily identify and reject fake finger attempts, preventing fraud and protecting your assets and brand.

Read this MSI Technology white paper to learn more >>

THIN-FILM TRANSISTOR (TFT)

Our mobile wonders — the HID TFT NOMAD™ 30 Pocket Reader and Module — ensure high-quality image capture regardless of environment and lighting conditions. HID's TFT-based NOMAD 30 fingerprint readers are cost effective and meet advanced biometric security requirements for government and law enforcement. Low-power consumption and an ultra-slim, lightweight design make NOMAD 30 readers ideal for in-the-field mobile identification purposes.

NOMAD 30 Pocket Reader



NOMAD 30 Module

Mobile Identification Powered by HID NOMAD 30: Simple, Durable and Accurate

HID's TFT-based NOMAD 30 fingerprint readers deliver truly mobile solutions for law enforcement, homeland security agents, military personnel and enterprises that need to ID and verify individuals anywhere, anytime.

Watch this video to learn more >>

Fingerprint Biometrics in Action

Fingerprint authentication provides reliable identity-based security across many industries, and the use cases are limitless.

Banking & Finance

Access Control

Secure ATM Services

User & Transaction Authentication

Fraud Prevention

Compliance (AML/KYC)

Healthcare

Access Control

Prescription Chain of Custody

Compliance (HIPAA/EPCS)

Medical Fraud Prevention

Positive Patient ID

Transaction Authentication

Government

Background Checks

Criminal Booking

Military Base Access

Benefits Distribution

Border Security

Mobile Identification

Voter Registration

Enterprise

Access Control

Employee Authentication

Time and Attendance

Visitor Management

Retail

POS Security

Time and Attendance

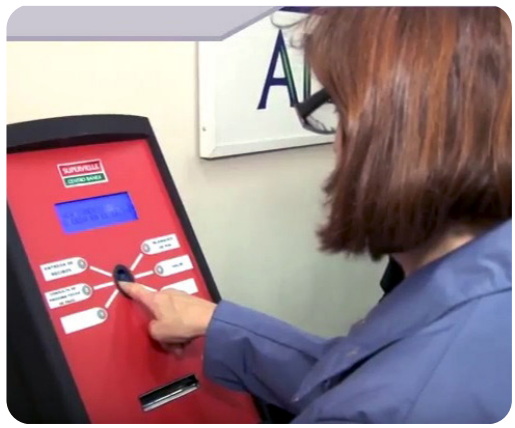
Loss Prevention

Self-Service Checkout

There are many well-documented use cases where HID's fingerprint technology has been successfully deployed to solve real-world challenges and protect businesses. **A handful to highlight include:**

IDENTITY CONFIRMATION FOR PENSION STIPENDS

HID's Lumidigm MSI fingerprint technology has been widely deployed across banking institutions that require maximum security and accuracy when it comes to confirming identities. Banco Supervielle in Argentina required a streamlined, convenient authentication solution to provide assurance that recipients were qualified, and indeed alive and present when collecting pensions.



The bank installed HID Lumidigm MSI fingerprint readers at bank branches throughout the country. More than 1 million retirees were enrolled into the fingerprint program, which was the first biometric implementation of its kind in the Argentine financial market.

Pensioners now have an extremely easy authentication process at Banco Supervielle by simply presenting a finger to authenticate and receive their monthly stipend. The investment also delivered significant fraud savings and offloaded mundane work from employees who redirected new levels of attention to their customers. **Read the case study >>**

GOVERNMENT BENEFITS DISTRIBUTION

Fingerprint readers from HID power some of the world's largest biometric identification systems to support governments in identifying citizens, and to enable those citizens to easily prove who they are so they can collect their rightful benefits and services.

HID's TouchChip fingerprint sensors bring the benefits of India's Aadhaar program — the world's largest biometric identification system — to all corners of the country. HID's TouchChip fingerprint sensors help ensure the right government subsidy reaches the right person at the right place and time — in this particular case, resulting in $3 billion in annual, fraud-related savings. **Read the case study >>**

EU NATIONAL ID

The Polish government recently deployed HID's DigitalPersona fingerprint readers with strict security requirements to protect biometric data. This was all part of a compliance mandate to strengthen security surrounding EU national ID cards to incorporate biometric data into each card. Within 40 days, and in spite of the global pandemic, HID and partners delivered nearly 7,500 readers to over 2,000 cities across Poland. In 2022 alone, nearly two million citizens placed a finger against HID's durable readers as part of the EU national ID card registration program. **Read the case study >>**

PHARMACY WORKFLOW

Biometrics is a solid remedy for many applications across the healthcare spectrum, with strong traction particularly in pharmacy and medical dispensing. To prevent theft, drive efficiencies, and comply seamlessly with the many regulatory requirements (HIPAA, JCO, DEA-compliant EPCS, FDA regulations and more), pharmacies require accurate authentication and an audit trail to confidently capture and record pharmacist activities.

A leading drug store chain with more than 4,500 stores across the United States relies on HID DigitalPersona fingerprint readers at their POS terminals for greater speed, accuracy and security to better serve customers and prevent fraud. After this password-less success in their pharmacies, more than 15,000 biometrically-enabled POS terminals were installed to extend the benefits of biometrics throughout each store. **Read the case study >>**

TIME AND ATTENDANCE

Another successful use case for fingerprint technology is around Time and Attendance. U.K.-based McColl's Retail Group needed an easy-to-integrate solution to gain control and combat time theft. HID's DigitalPersona fingerprint readers power an automated time and attendance system for 18,000+ employees across 1,500+ locations. Management has assured compliance with the U.K.'s National Minimal Wage regulations through this reliable, low-cost and highly effective fingerprint biometric solution from HID. **Read the case study >>**

Steeped in Experience: HID & Biometrics

HID is always innovating and expanding its proven portfolio of fingerprint readers and modules to deliver exceptional biometric experiences and efficiencies across use cases, throughout industries and around the globe. Our identity, security and safety expertise combined with valuable customer insight gleaned from real-world project experiences enables our team to produce unparalleled technologies that are flexible, scalable, customizable and highly secure. HID fingerprint devices are deployed by organizations and government agencies across all continents to solve identity authentication challenges and protect people and businesses.

READY TO PRESS FORWARD?

There are a lot of options when it comes to fingerprint biometric technologies. Determining the right solution hinges on your use cases and requirements. We're here to help 'point' you in the right direction. Let's connect!

KEEP UP WITH HID'S LATEST DEVELOPMENTS IN BIOMETRICS:

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- Read our biometric blogs
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