

MorphoWave™ for Travel

Wave your hand to be identified



Biometric technology has become fundamental in making travel secure and seamless. Contactless fingerprint acquisition with a wave of the hand speeds up the capture process and mitigates hygiene concerns, resulting in greater efficiency and a better traveler experience.



Contactless four-fingerprint capture with a wave of the hand



MorphoWave™ is a unique, field-proven fingerprint solution perfectly suited for **frictionless** processing at air, land and sea borders. It offers **contactless, simultaneous four-fingerprint** capture, and on-the-spot identity verification in one device.

The **only touchless biometric** solution of its kind, MorphoWave scans high-quality fingerprint images and confirms the traveler's identity **in less than one second**. All of this is done with a **simple hygienic** wave of the hand.



IDEMIA, your #1 partner for border control programs

In 2019, the **NIST** conducted the **Interoperability Assessment** test: contactless-to-contact fingerprint capture. Results demonstrate that MorphoWave is **fully interoperable** with legacy contact databases, using legacy algorithms. Moreover, MorphoWave stands out as **the best performing** of the contactless devices by far, in terms of matching rate, image capture sample rate, areas of overlap between probe and exemplar fingerprints, finger ridges and minutiae similarity.

The efficiency of MorphoWave has already been proven, with **10,000** units in use around the world

within corporate and border control projects. The system is already field-proven, notably in Benin and Egypt. **In Benin**, our TravelCounter solution, equipped with MorphoWave, has **modernized** the immigration counters of the Beninese Ministry of Interior, as well as their system for controlling and registering the entry and exit, to and from Cotonou International Airport. **In Egypt**, MorphoWave is also supporting the Ministry of Interior in deploying a **complete, modern** border control solution for air, land and sea borders.

Compatible with existing **contact databases**, it is suitable for **various border crossing points** where high throughput, security and convenience are key. Typical applications include self-service kiosks, eGates and manual counters, for indoor and outdoor use.

*EU-EES: European Entry/Exit System

>> A breakthrough, contactless fingerprint acquisition solution



Simultaneous four- fingerprint capture in less than 1 second



Embedded 1:N matching capability (up to 100,000)



Audio and video player



RoHS, REACH and WEEE compliant
EMC/Safety standards: CE, CB, FCC



Patented contactless 3D fingerprint scanning technology



Hand presence detection



Unaffected by external light and dust
Ingress protection: IP65



Ethernet, USB

MorphoWave™ benefits

#1 BIOMETRIC TECHNOLOGY

- › **High quality, no composite images:** fingerprint texture, shape and curvature are captured for rich fingerprint images
- › **IQS PIV** certified
- › **NFIQ2** compliant
- › **Unparalleled matching accuracy** thanks to IDEMIA's deep learning technologies
- › **Compatible** with contact databases (NIST Interoperability Assessment 2019)
- › **No latent print** left on the scanner
- › **Fake finger** detection
- › **Compatible** with IDEMIA's cloud-based identification services
- › **Privacy by design:** compliant with the European General Data Protection Regulation (**GDPR**)

HIGH USABILITY

- › **High throughput** thanks to fingerprint capture with a wave of the hand
- › **No regular cleaning** required between scans
- › **Resistant** to lighting variations
- › **No specific skills** required to operate and maintain
- › **Fully configurable** settings and operational parameters
- › **Ethernet** or **USB** interface
- › **Unaffected by extreme operating conditions:** suitable for outdoor use, IP65, temperature -10°C to 55°C, humidity 10% to 80% (non condensing)

USER-FRIENDLY

- › **Touchless** device **mitigating** hygiene concerns
- › **Ergonomic:** captures either left or right hand, in any direction
- › **100% non-intrusive** capture
- › **Guaranteed** fingerprint capture for a wide range of traveler profiles
- › **Compatible** with **wet, dry, dirty** and **damaged** fingers
- › **Feedback screen** and **loudspeaker** for traveler guidance