

# MorphoWave™ Compact

Contactless access everywhere



MorphoWave™ Compact is a unique solution for frictionless fingerprint access control. This masterpiece of engineering delivers the award-winning, field-proven performance of MorphoWave™ contactless 3D fingerprint scanning technology in a stylish and compact casing, suitable for any location.



## Benefits



### Convenience & security

Users are positively identified with a simple, hygienic **contactless** wave of the hand. The patented touchless sensor performs a **3D scan and verification of 4 fingers in less than 1 second** up to 100,000 users, ensuring the most accurate and reliable fingerprint matching, for maximum security.



### High throughput

The speed of the touchless scan and verification, allowed by the use of advanced algorithms leveraging AI, enables users to remain in motion while being identified. The **unrivaled throughput (up to 50 people per minutes)** provides more user convenience and increased productivity, as employees will not have to spend time queuing for access or time/attendance.



### Versatile, easy deployment

IP65 rated and PoE+ powered, this compact reader ensures that MorphoWave™ technology can be deployed at every location, indoor or outdoor, on a turnstile, a door or a speedgate.

MorphoWave™ Compact is **already integrated** with more than 25 of the industry's leading access control systems and speedgates/turnstiles vendors.



### Multifactor authentication

In addition to biometrics, MorphoWave™ Compact embedded card reader natively supports Prox, iClass, MIFARE, DESFire and PIN codes.

It is also capable of scanning printed QR codes\* for visitor management.

\* QR on smartphone screen in a later release

## Why IDEMIA?

With more than **40 years of experience in biometrics** and over 4 billion fingerprints managed worldwide, IDEMIA gets top-tier performance in independent tests worldwide (such as NIST<sup>1</sup> evaluations) and is thus the **undisputed leader in biometric technologies**. Our algorithms and sensor technologies, combined with our end-product design and manufacturing

expertise, make us the **partner of choice** for the most prestigious organizations.

IDEMIA's solutions, encompassing contact and contactless fingerprint, hybrid vein/print and facial recognition readers, have been deployed in more industries and tougher environments than any other vendors' solutions.

<sup>1</sup> National Institute of Standards and Technology



## Field-proven touchless fingerprint technology... and still unique

- › Captures and matches 4 fingers in less than 1 second
- › Either left or right hand, in any direction
- › Copes with wet, dry, damaged fingers
- › Robust to external light and dust
- › Touchless : no latent prints left on scanner
- › Easy gesture : immediate user adoption

The award-winning MorphoWave™ technology has become the benchmark in frictionless access, securing high traffic access points in the world's largest financial institutions, critical infrastructure facilities, universities and healthcare organizations.

### Accessories



#### TOWER

Stylish pedestal for easy installation. Available in black or brushed steel finish



#### VISOR

For outdoor installations where the device and its sensor are exposed to heavy rains or dazzling sunlight

### Key product features



#### Anti-fraud features

- › Fake finger detection
- › Timed anti-pass back function<sup>1</sup>
- › Banned/authorized user lists
- › Tamper switches



#### Time & attendance functions

- › Touchscreen time clock
- › Access time slots, holiday scheduling
- › Real-time employee notifications
- › Job code management



#### Flexible architecture

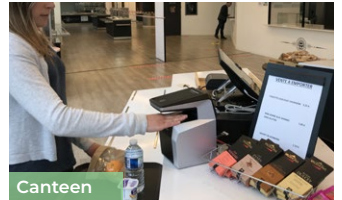
- › 1:N identification or multifactor authentication cards + PIN code
- › Software integration options:
  - Thrift commands (low protocol level)
  - MACI component (SDK level)
  - MorphoManager (application level)



#### For real world deployments

- › IP65 rated design<sup>2</sup>
- › Multiple interfaces including TCP/IP
- › Power over Ethernet (PoE+)
- › Wi-Fi and 4G options
- › Ingenious, symmetrical opening mechanism enables easy wall-mounting and in-place maintenance

## Multiple use cases enabled with the device



## Technical specifications

- › **CPU:** Nvidia ARM Cortex-A15 Quad-Core 2.1GHz
- › **4.3" WVGA color capacitive touchscreen**
- › **Loudspeaker & microphone** Intercom function
- › **Audio & video player**
- › **Touchless fingerprint sensor** Hand presence detection QR code scanning capability<sup>(3)</sup>
- › **Contactless reader options:** Prox, iClass, MIFARE/DESFire
- › **Tamper switches**
- › **Internal storage capacity:** 16GB Flash, 2GB RAM
  - 20,000 user records (2\*4 fingers each) for 1:N identification, extendable to 40,000 or 100,000 with licenses
  - 250,000 IDs in authorized user list
  - 1 Million transaction logs
- › **Network/Communication:**
  - Ethernet, RS485, RS422, USB<sup>(4)</sup>
  - Wi-Fi and 4G options
- › **Inputs/outputs:** Wiegand In & Out (customizable up to 512 bits), OSDP, Door Relay, 3 GPI (including Door monitoring), 3 GPO
- › **Power supply:** 12 to 24 V DC (2.5A min @12V) Power over Ethernet with PoE+ switches
- › **Operating conditions:**
  - Temperature: -10°C to 55°C (14°F to 131°F)
  - Humidity: 10% to 80% (non condensing)
- › **Ingress protection:** IP65<sup>(2)</sup>
- › **HxWxD = 250\*152\*216 mm (9.9\*6\*8.5 in.)**
- › **Weight:** 2.2 kg (4.85 lb.)
- › **EMC/Safety standards:** CE, CB, FCC
- › **RoHS, REAcH and WEEE compliant**

<sup>(1)</sup> Prevents repeated authorizations by the same user, within a configurable time period

<sup>(2)</sup> Recommendation for outdoor installation: avoid direct exposure of sensor to rain and sunlight (e.g., place under a canopy)

<sup>(3)</sup> Printed QR codes only; specifications available on demand

<sup>(4)</sup> Micro-USB port for terminal configuration or dongle (Wi-Fi or 4G) connection