



# MorphoWave™ SP

**Contactless fingerprint terminal  
with a simplified profile**



# Key benefits

## Why IDEMIA?

With more than 40 years of experience in biometrics and over 4 billion fingerprints managed worldwide, IDEMIA achieves top-tier performance in independent tests (such as NIST evaluations).

Our algorithms, sensor technologies and manufacturing expertise make us **the partner of choice for many biometric deployments around the world.**

We provide **biometric products and solutions** to governments, law institutions and public services where identity, authentication and security are a priority.



- » Touchless fingerprint scanning
- » Simplified user interface with multi-color LED indicators
- » Accurate & fast
- » Hygienic
- » Up to 10K user records in 1:n



# Key features

## Field proven contactless technology

Users are identified with a simple, hygienic contactless wave of the hand



- » Either left or right hand, in any direction
- » Copes with wet, dry, or damaged fingers

## Simplified design for a user-friendly experience



- » Bright color & stylish pattern on both sides
- » LED Indicators give information on device status

## Accuracy and performance 4 fingerprints



- » Scan and verification of 4 fingers in less than 1 second of up to 10,000 users

## IDEMIA best algorithms performance



2019 Accuracy and Interoperability Test



# Key features

## Multi-factor authentication capability with built-in RFID & BLE readers

Reads all kinds of contactless card technologies as well as mobile credentials



- » Mifare, Desfire, HID Prox, iClass, SEOS
- » Biometric data can be stored in the card
- » HID Mobile Access via BLE or NFC\*
- » QR code scanning for visitors\*\*

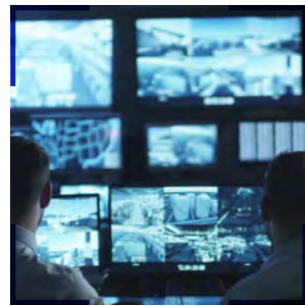
\*NFC: on Android only

\*\*QR code printed on paper only

# Key features

## Plug & play with most industry players for easier and faster deployments

Already supported by most PACS platforms, communication with door controller by OSDP secure mode and integrated by leading gate vendors

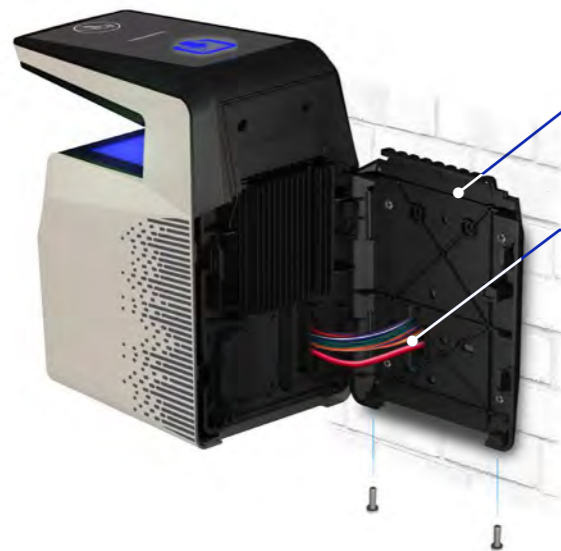


## Multiple use cases and installation configurations

Walls, turnstiles, gates, pedestals



## Quick and easy installation & maintenance to save on deployment costs



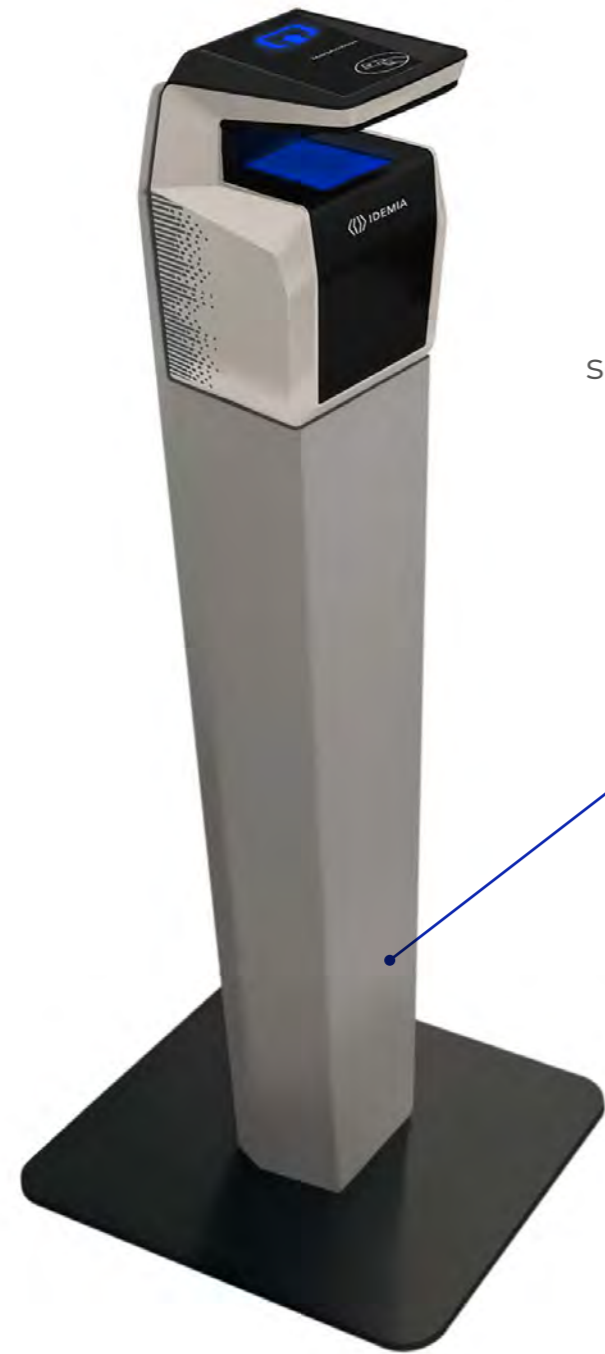
Thick wall plate to fix the product

Simpler cabling & plugging





# Accessories



## VISOR

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



## TOWER

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

# Support & Services

## An optimized offering



**Benefit from IDEMIA's world leading expertise** to leverage knowledge and mastery of biometric solutions



Have the assurance that product configuration **is constantly optimized for accuracy, security and privacy**



Receive a high level of reactivity and support **from our Customer Care Center**



**Have visibility and guidance** to anticipate the future





# Specifications

## Technical specifications



- › **CPU:** NXP AMR Cortex A53 Quad core, 1,8 GHz
- › **LED colors**
- › **Touchless fingerprint sensor:** QR code scanning capability <sup>(1)</sup>
- › **Contactless reader options:** Prox, iClass, MIFARE/DESFire, SEOS, HID Prox mobile access
- › **Tamper switches**
- › **Internal storage capacity:** 16 GB Flash, 2GB RAM
  - 10,000 user records (2\*4 fingers each) for 1:N identification
  - 250,000 IDs in authorized user list
  - 1 Million transaction logs
- › **Network/Communication:**
  - Ethernet, RS485, RS422 <sup>(2)</sup>
  - WI-FI option
- › **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%>80% (non condensing)
- › **Ingress protection:** IP65 <sup>(3)</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> Printed QR codes only: specifications available on demand

<sup>(2)</sup> Micro-USB port for terminal configuration or dongle (WI-FI) connection

<sup>(3)</sup> Recommendation for outdoor installation: avoid direct exposure of sensor to rain and sunlight (e.g. place under a canopy)

## References & ordering numbers

Marketing name	Regulatory model	Reference number	Contactless authentication factors			
			iClass frequency 13.553 13.567 MHz	MIFARE, DESFire frequency 13.553 13.567 MHz	HID Prox frequency 125 KHz	HID Mobile Access BLE+NFC
MorphoWave™ SP MD	MPH-AC007A	293777400	No	Yes	No	No
MorphoWave™ SP MDPI	MPH-AC007B	293777380	Yes	Yes	Yes	No
MorphoWave™ SP MDPI-M	MPH-AC007C	293777421	Yes	Yes	Yes	Yes

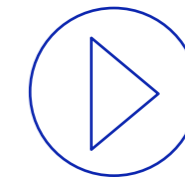


## Online resources

### Product page



### Product video



### Biometric Devices portal



### LinkedIn group

