



MorphoWave™ XP

**Contactless fingerprint terminal
with extended performance**



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
- » High throughput with up to 60 users/min
- » Time & Attendance management
- » Accurate & fast
- » Hygienic
- » Up to 100K user records in 1:n



IDEMIA continuously invests in MorphoWave™ technology since 2016, improving ergonomics, speed, and accuracy to leverage the latest advancements with the use of Artificial Intelligence.

Key features

Accuracy and performance 3D scanning of 4 contactless fingerprints



» Scan and verification of 4 fingers in less than 1 second of up to 100,000 users



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

IDEMIA
best algorithms performance

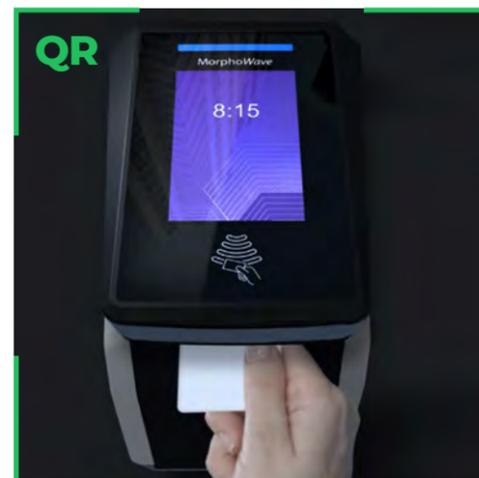
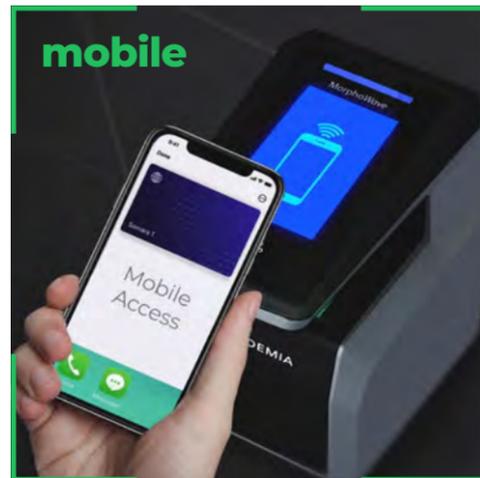


2019 Accuracy and Interoperability Test

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**
- » Customizable large display
- » Time & Attendance management

*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

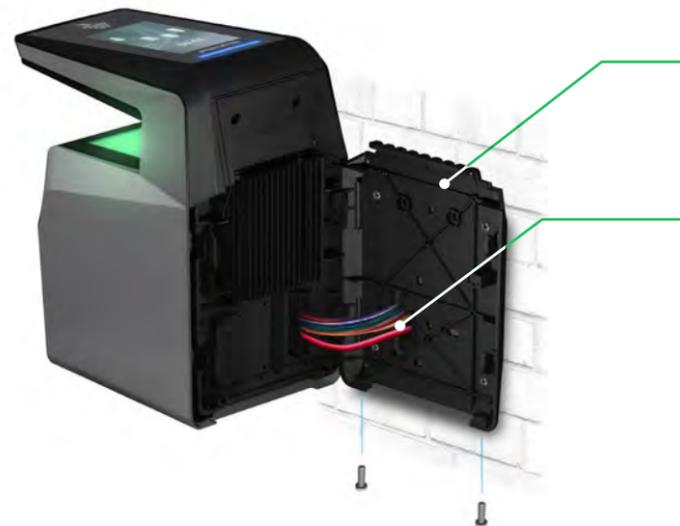


Multiple use cases and installation configurations

Walls, turnstiles, gates, pedestals



Quick and easy installation & maintenance to save on deployment costs

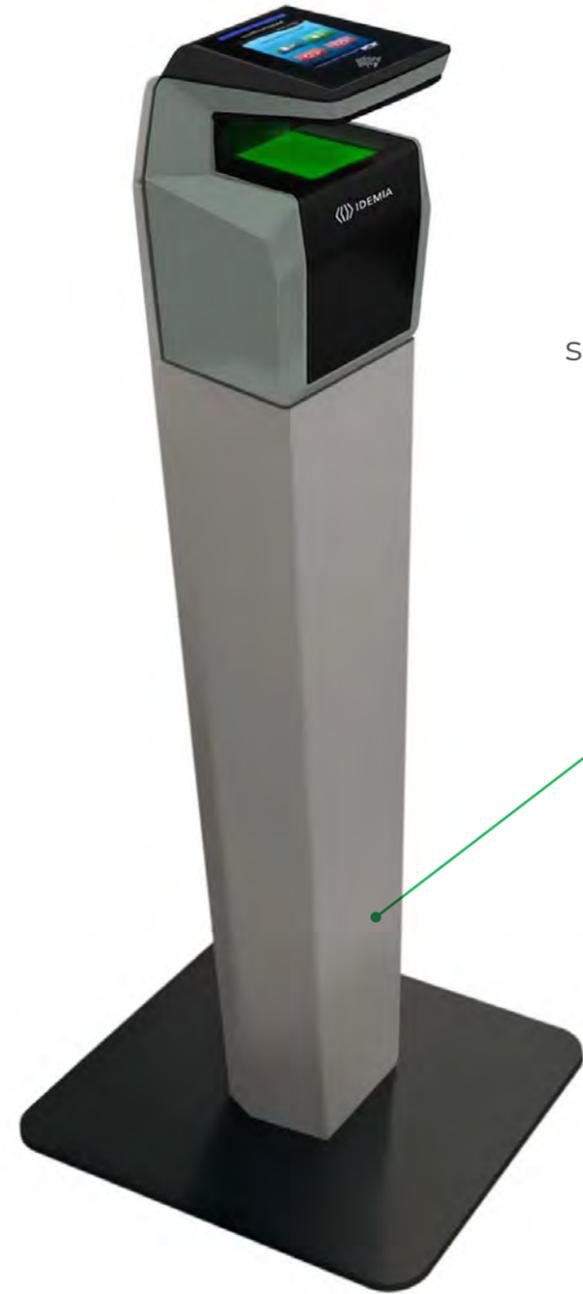


Thick wall plate to fix the product

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



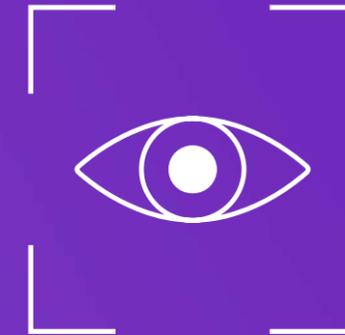
Benefit from IDEMIA's world leading expertise to leverage knowledge and mastery of biometric solutions



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:** Nvidia AMR Cortex A15 Quad core, 2,1 GHz
- › **4.3" WVGA color capacitive touchscreen**
- › **Loudspeaker & microphone** Intercom function
- › **Audio & video player**
- › **Touchless fingerprint sensor:** Hand presence detection QR code scanning capability ⁽¹⁾
- › **Contactless reader options:** Prox, iClass, MIFARE/DESFire, SEOS, HID mobile access
- › **Tamper switches**
- › **Internal storage capacity:** 16 GB Flash, 2GB RAM
 - 40,000 user records (2*4 fingers each) for 1:N identification, extendable to 100,000 with license
 - 250,000 IDs in authorized user list
 - 1 Million transaction logs
- › **Network/Communication:**
 - Ethernet, RS485, RS422, USB ⁽²⁾
 - 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%>80% (non condensing)
- › **Ingress protection:** IP65 ⁽³⁾
- › **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**

⁽¹⁾ Printed QR codes only: specifications available on demand

⁽²⁾ Micro-USB port for terminal configuration or dongle (WI-FI) connection

⁽³⁾ 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™ XP MD	MPH-AC004A	293722301	No	Yes	No	No
MorphoWave™ XP MDPI	MPH-AC004B	293722319	Yes	Yes	Yes	No
MorphoWave™ XP MDPI-M	MPH-AC004C	293771247	Yes	Yes	Yes	Yes



Online resources

Product page



Product video



Biometric Devices portal



LinkedIn group

