

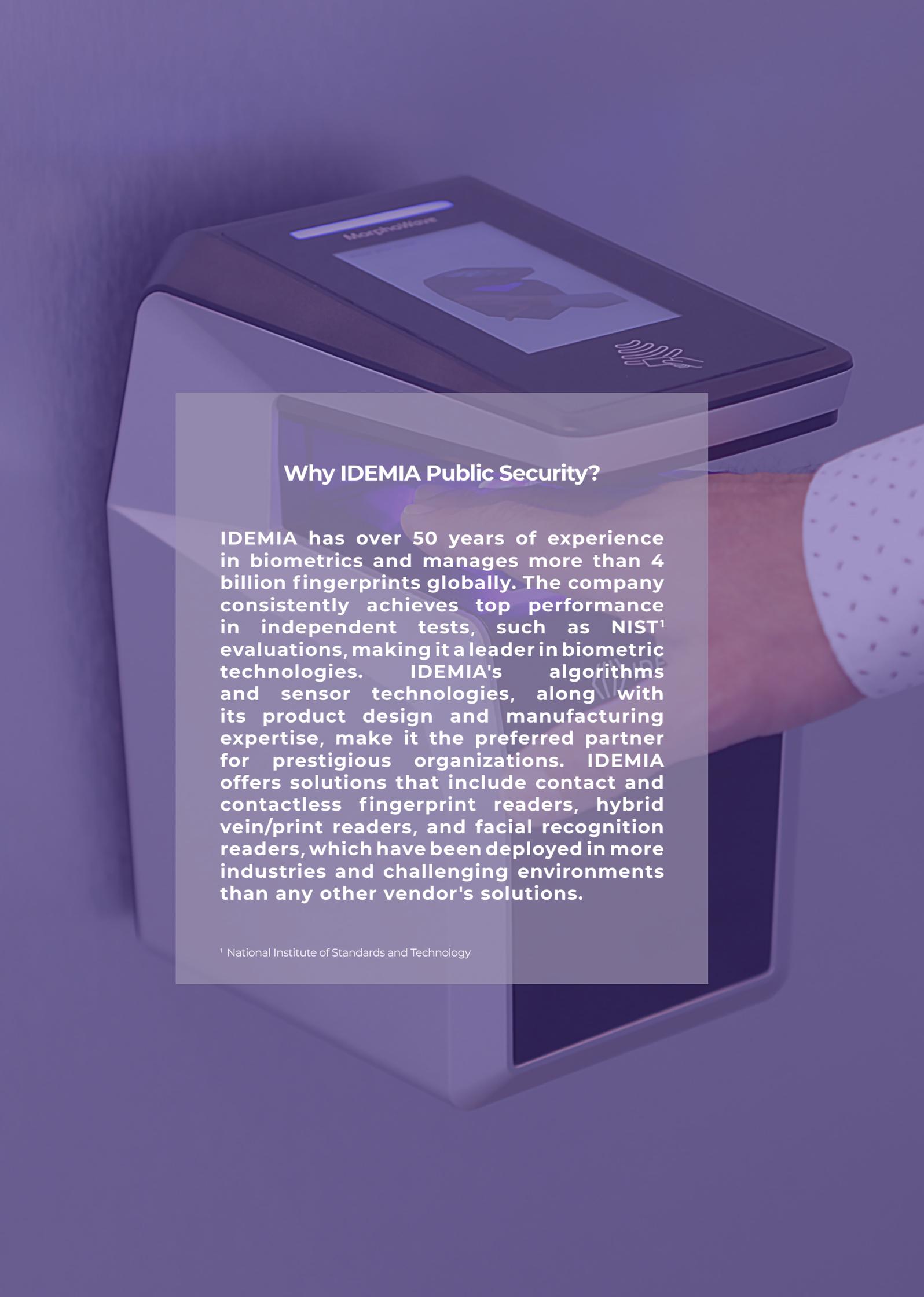


# MorphoWave XP2

Contactless access everywhere

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A hand is shown being scanned by a Morphotrust fingerprint reader. The device is white and has a screen displaying a fingerprint scan. The background is a solid light blue color.

## Why IDEMIA Public Security?

IDEMIA has over 50 years of experience in biometrics and manages more than 4 billion fingerprints globally. The company consistently achieves top performance in independent tests, such as NIST<sup>1</sup> evaluations, making it a leader in biometric technologies. IDEMIA's algorithms and sensor technologies, along with its product design and manufacturing expertise, make it the preferred partner for prestigious organizations. IDEMIA offers solutions that include contact and contactless fingerprint readers, hybrid vein/print readers, and facial recognition readers, which have been deployed in more industries and challenging environments than any other vendor's solutions.

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

# Introduction

**M**orphoWave™ XP2 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.

## Key benefits

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### Convenience & security

Users are identified with a simple, contactless wave of the hand. The patented touchless sensor performs a 3D scan and verification of 4 fingers in less than 1 second for 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 minute) provides more user convenience and increased productivity, as employees will not have to spend time queuing for access or time/attendance.



### Multifactor authentication

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



### Versatile, easy deployment

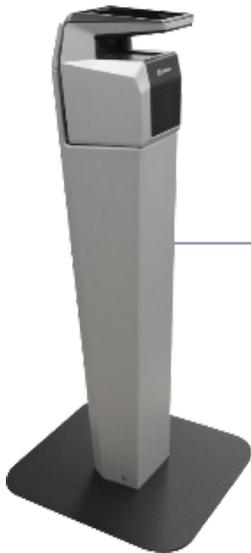
In addition to biometrics, MorphoWave™ XP2 embedded card reader supports iClass, SEOS, MIFARE, DESFire and PIN codes. MorphoWave™ reads physical cards as well as virtual cards (mobile credentials) from Android or iOS mobile devices.

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

- Captures 4 fingers in less than a 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



## 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 or mobile credentials + 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+)
- Ingenious, symmetrical opening mechanism enables easy wall mounting and in-place maintenance
- Same form factor as Morphowave SP and MorphoWave XP which makes it easier to replace an existing Morphowave fleet

## Powering seamless access



Up to 50 users/min



High speed



Mobile credentials



Time/attendance

## Technical specifications

### CPU: IMX8+ 4 core A53

- 1 cortex M7 + CNN capabilities

### 4.3" WVGA color capacitive touchscreen

### Touchless fingerprint sensor

- Hand presence detection
- QR code scanning capability<sup>3</sup>

### Contactless reader options:

- Standard : MiFare/DESFire
- Options<sup>5</sup>: HID iClass, SEOS cards, HID mobile credentials, Apple Wallet

### Tamper switches

### Internal storage capacity:

- 16GB Flash, 4GB RAM
- 40,000 user records (2\*4 fingers each for 1:N identification, extendable to 100,000 with licenses)
- 250,000 IDs in authorized user list
- 1 Million transaction logs

### Network/Communication:

- Ethernet, RS485, USB

### 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(2)

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

<sup>5</sup> Activable with license

# Unlock the world, **make it safer.**

