

MSO 330/331

Multi-application FAP30 optical fingerprint reader



The MSO 330/331 are a family of **high-end optical FAP30 USB readers**, based on IDEMIA's unrivalled experience in the fields of electro-optics and forensic quality fingerprint processing algorithms. The devices cover a wide range of applications: enrollment, authentication and identification in industrial/commercial and governmental environments.

Excellent fingerprint image quality: large capture surface, FBI PIV IQS certification

Enrollment, 1:1 verification and 1:N identification capabilities

High accuracy: embedded FIPS 201 and MINEX compliant algorithms

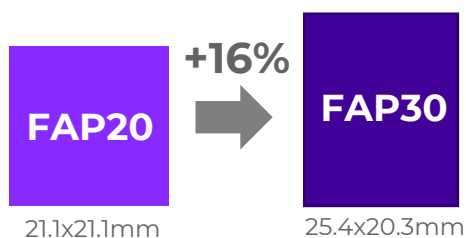
Large internal database capacity: up to 5000 user (2 templates each)

"Privacy mode" to help comply with data privacy regulations such as GDPR

Fake finger detection and security features in option



- A versatile device to carry out **both enrollment and comparison** (1:1 authentication and 1:N identification)
- **Excellent fingerprint capture and processing performance** thanks to a **FAP30** fingerprint optical sensor offering +16% surface vs FAP20 (25.4x20.3mm, 400x500pxl, 500 dpi, 256 grey levels)
 - Authentication < 0.7 sec(1)
 - Identification < 0.9 sec in 1:1000 mode(1)
 - Top grade solution to register young or elderly people, manual laborers (mining, textile, etc.)
- **Overall performance certified at the highest levels:**
 - FBI PIV IQS (image quality)
 - MINEX compliant algorithms
 - FIPS 201
 - BIS
 - Fingerprint spoof detection technology
- **Accurate:** the false acceptance rate (FAR) is configurable down to 10⁻⁸ - depending on the security requirements - and maintained regardless of number of users in database
- **Guides the user and automatically controls the image quality** during fingerprint capture
- **Large internal database:** standard capacity of 500 users (2 fingerprints each), extendable to 3000 (with MSO IDENTLITE license) or 5000 (with MSO IDENTPLUS license)
- **Multiple template & image formats:**
 - ISO 19794-2, ANSI/INCITS 378, Proprietary
 - ISO 19794-4, WSQ compressed image



- **Options:**
 - Fake finger detection, same technology in MSO331 than MSO301
 - Security features to protect the communication channel between host and device (integrity check, Image and Template encryption for the sake of confidentiality)

SOFTWARE PACKAGES

- The **MSO SDK** is available to integrate easily the MSO 330 sensors into various applications and use their embedded capabilities:
 - Available for Windows and Linux platforms
- The MSO 330/331 can also be used with **MorphoKit™ by IDEMIA**, an advanced SDK for the capture and processing of fingerprint images, authentication and identification

| | | MSO 330 | MSO 331 |
|-----------------------|-----------------------------------|------------------------|---------|
| Interface | | USB | |
| Internal database | | From 500 to 5000 users | |
| Fake finger detection | | - | Yes |
| Protection | | IP54 | |
| Security layer | | optional | |
| certifications | FBI PIV IQS | Yes | |
| | MINEX compliant algorithms | Yes | |
| | FIPS 201 | - | - |
| | False Finger Detection technology | - | Yes |
| | BIS | Yes | |

