

MSO 330/331 modules

Multi-application FAP30 optical fingerprint module



The MSO 330/331 modules are a family of high-end **FAP30 biometric optical** devices which allow the **rapid integration** of biometrics in terminals serving a wide range of applications requiring a high level of security. Both products leverage IDEMIA's unrivalled experience in the fields of electro-optics and forensic quality fingerprint processing algorithms.

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

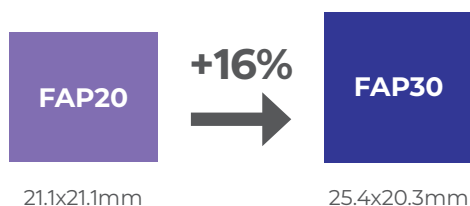
Enrollment, 1:1 verification and 1:N identification capabilities

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 MSO OEM 331 version



- 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
 - STQC
 - 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 (MSO 331 Module)
 - Security features to protect the communication channel between host and device (integrity check, data encryption)

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

NB: Low level protocol (ILV) is also available

- 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 module	MSO 331 module
Interface		USB	
Dimensions		75 x 68 x 50 mm	
Weight		135g	
Internal database		From 500 to 5000 users	
Fake finger detection		-	Yes
Protection		IP65 on capture zone	
Security layer		Optional	
Certifications	FBI PIV IQS	Yes	
	MINEX compliant algorithms	Yes	
	FIPS 201	-	-
	False Finger Detection technology	-	Yes
	BIS / STQC	Yes	