Biometric Devices
by IDEMIA

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.

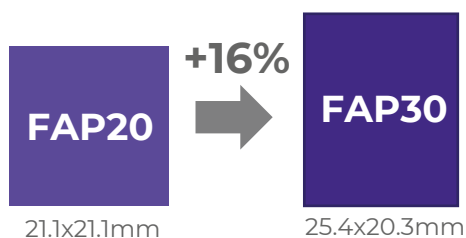|		
Excellent fingerprint image quality: large capture surface, FBI PIV IQS certification	Enrollment, 1:1 verification and 1:N identification capabilities	High accuracy: embedded FIPS 201 and MINEX compliant algorithms
Large internal database capacity: up to 5000 user (2 templates each)	"Privacy mode" to help comply with data privacy regulations such as GDPR	Fake finger detection and security features in option

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· 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, same technology in MSO331 than MSO301
  - 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, Linux and Android platforms
- Includes a BioAPI interface

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

FAP20
21.1x21.1mm

+16%

FAP30
25.4x20.3mm

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