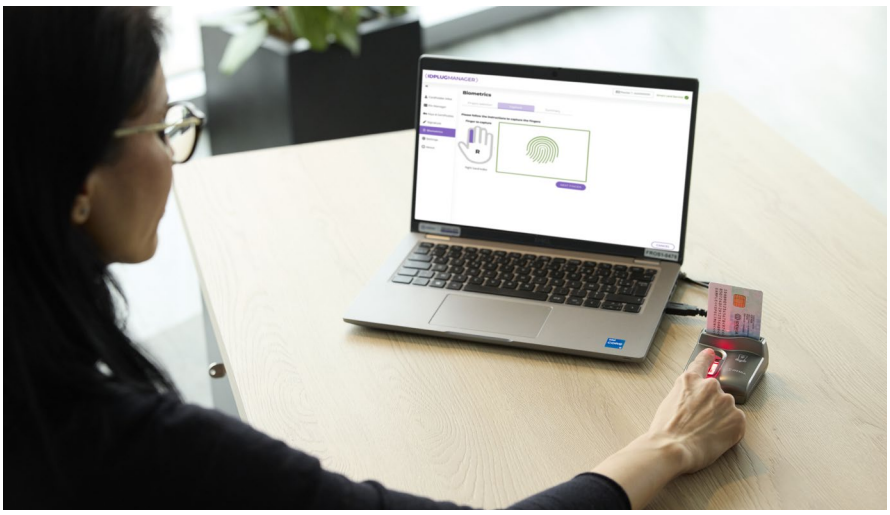
MSO 1350

USB fingerprint device for highly secure applications with contact and contactless cards

Securing access to sensitive data and desktop applications is a must! Organizations are looking for airtight security solutions that provide a convenient user experience. IDEMIA Public Security's MSO 1350 guarantees the faultless protection of information and the security of your applications.

MSO 1350-the latest addition to IDEMIA Public Security's biometric reader family-offers reliable, convenient, and cost-effective **identity verification** (1:1 and 1:N) of users. Existing into two versions: contact card reader (MSO 1350) and a contactless card reader (MSO 1350 CL), it integrates easily with existing IT environments, including IDEMIA's ID Plug middleware, and is compatible with a wide range of ID cards, notably IDEMIA's Cosmo X.



More than a sensor: an intelligent device

While most sensors on the market are only capable of producing fingerprint images, the MSO 1350 is also capable of processing them internally, running powerful algorithms directly on its embedded processor.

1 - Image compression using WSQ algorithm from FBI/NIST

2 - Biometric feature extraction to generate templates

3 - Biometric matching (1:1, 1:N)

4 - Capability of addressing juvenile fingers

5 - An anti-latency feature detecting fingerprint traces

Benefits

#1 Biometric technology

> Fast, accurate, and fair matching results with top-tier NIST evaluations

> State-of-the-art optical technology offering high performance and robustness

> Fake finger detection

Embedded security features

> Extensive security features, including key derivation and hashing algorithm

> Improved algorithms (AES256, SHA256)

Multiple applications

> Match-on-card with national ID cards to access governmental services

> Logical access control: banking, finance and healthcare sectors, etc.

> Easy and secure payment

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High-end fingerprint acquisition solution

Large acquisition surface

Large capture surface (14x22mm) ensuring richest fingerprint acquisition for a high biometric performance

State-of-the-art optical technology

> High performance sensor: 500 dpi, 256 gray levels

> Available output formats include RAW, ISO 19794-4, or WSQ-compressed (under license) images

High image quality

Certified PIV IQS by the FBI: the reference standard in terms of single fingerprint image quality (equivalent to ISO 19794-4:2011 Annex B) was defined to ensure interoperability between multiple solutions.

Fake finger detection

MSO 1350 detects a large panel of counterfeit fingerprints, including but not limited to those made with latex, Plasticine, Kapton, transparent film, rubber, Play-Doh, graphite, or paper

One design, two versions

		MSO 1350 (contact cards)	MSO 1350 CL (contactless cards)
Dimensions (LxWxH)		82 x 71 x 41 mm	82 x 71 x 41 mm
Weight		140g	140g
Smart card reader with contact		Yes	No
Smart card reader without contact		No	Yes
Database capacity		500, 3000, and 5000 users (licenses)	500, 3000, and 5000 users (licenses)
Matching speed		1:1 in 0.8s	1:1 in 0.8s
Match-on-card		Yes	Yes
Fake finger detection		Yes	Yes
Contact cards		ISO 7816 class A, B, and C (5v, 3v, 1.8v)	No
Contactless cards		No	ISO 14443 Type A and B
Security layer		Optional (AES256, SHA256)	Optional (AES256, SHA256)
Certifications	PIV IQS	Yes	Yes
	ISO 19794-4	Yes	Yes
	MINEX II	Yes	Yes
	CE, CB, FCC, UL	Yes	Yes
	ROHS, Reach, WEE	Yes	Yes
	Drivers	USBSER	USBSER