

IDENTIFICATION

MORPHOSMART™ 300 SERIES

MULTI APPLICATION FINGERPRINT SCANNER



High quality fingerprint capture and processing with optical sensor

Same terminal for enrollment and comparison

High storage capacity

Certifications: FBI PIV IQS, BSI TR-PDÜ, FIPS 201, MINEX

Options: security features, fake finger detection, smartcard reader

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The MorphoSmart™ 300 Series — or MSO 300 Series — is a family of high-end optical sensors. It is based on Morpho's 25-year experience in the fields of electro-optics and forensic quality fingerprint processing algorithms. The MSO 300 Series covers a wide range of applications: enrollment, authentication and identification in industrial/commercial and governmental environments.

A world of advantages in a compact design

- **Excellent fingerprint capture and processing performance** with the largest sensor on the market (23x23mm, 500 dpi),
 - Authentication < 0.7 sec (including detection, encoding and matching)
 - Identification < 0.9 sec in 1:1000 mode (including detection, encoding and matching)
 - Top grade solution to register young or elderly people, manual laborers (mining, textile)
- **Overall performance certified at the highest levels**, that meets and exceeds requirements of: FBI PIV IQS, BSI* TR-PDÜ, MINEX and FIPS 201.
- **Accurate:** the false acceptance rate (FAR) is **configurable down to 10⁻⁸**, depending on the security requirements
- **Large database capacity:** from 500 up to 5000 users with license.
- A versatile terminal that carries out **both enrollment and comparison operations**
- **Guides the user and automatically controls the image quality** during enrollment
- **Choice of fingerprint template formats:** ANSI/INCITS 378, ISO 19794-2 or Morpho proprietary.
- CE, FCC and RoHS compliant

Options:

- Smartcard reader
- **Fake finger detection**
- **Data protection:**
 - Two different security operating modes: **data integrity check** by the host – by way of a digital signature – or **encrypted data exchange** – using secure tunneling.

Software packages

- The **MorphoSmart™ SDK** (Software Development Kit) is available for VARs wishing to develop various types of applications. It uses the MorphoSmart™ embedded algorithms:
 - **BioAPI** interface included
 - Development on **Linux** platforms (available on request)
 - **ILV protocol** available
- The MSO 300 Series can be used with **MorphoKit™**, SDK for the capture and processing of fingerprint images, authentication and identification.

	MSO 200	MSO 300	MSO 300G	MSO 301	MSO 350	MSO 350G	MSO 351
Security layer				Optional			
Interface	Serial	USB	USB	USB	USB	USB	USB
Smartcard reader	No	No	No	No	Yes	Yes	Yes
Integrated database	from 500 to 5,000 users with license in identification mode						
Fake finger detection	No	No	No	Yes	No	No	Yes
Certification	FBI PIV IQS	FBI PIV IQS	FBI PIV IQS and BSI TR-PDÜ **	FBI PIV IQS	FBI PIV-IQS	FBI PIV IQS and BSI TR-PDÜ**	FBI PIV IQS

*BSI = Bundesamt für Sicherheit in der Informationstechnik (German Federal Agency for the Security of Information Technologies)

**Complies with FBI EFTS Appendix-F requirements



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