# SM-MSO-1300V3

## MorphoSmart Mini Optic Fingerprint sensor V3 - 14x22 optical sensor (Plastic housing, USB, CBM module)(Replacement for SM-MSO-1300)

### Product description

"The MorphoSmart™ 1300 Series (or MSO 1300 Series) is a range of compact biometric USB devices. They use Morpho's patented optical technology and fingerprint algorithms, both acknowledged worldwide for their high levels of performance and their exceptional robustness. Morpho fingerprint technology is ranked #1 by NIST for accuracy. The MorphoSmart™ 1300 Series offers a reliable, ergonomic and cost-effective solution for enrollment, identity verification and user identification. Their match-on-device or match-on-card functions guarantee the faultless protection of information and the security of desktop applications.




### Optical technology offers superior image quality

High performance sensor: 500 dpi, 256 grey levels.
Available output formats include RAW, ISO 19794-4 or WSQ compressed (under license) images.

### Lessons learnt from real world deployments put into practice

Mechanical/visual guides ensure intuitive finger placement.
Interfaces display key information to help users: live image, messages (position, pressure etc.) and fingerprint quality score.

### Large acquisition surface for optimized capture and repeatable placement

MSO 1300 Series capture surface (14 x 22 mm) ensures that the richest area on fingerprints is systematically captured time after time. Acquisition surface area contributes significantly to the overall biometric performance:
- It determines the amount of minutiae data that can be captured.
- Other, smaller sensors, allow different areas of the same finger to be presented with each placement, leading to poor data acquisition, narrow areas of overlap and matching errors.

### Details

- Deployment of light and reliable solutions for population registration or customer acquisition
- Banking and finance: secure and swift access to core banking applications or trading stations in dealing rooms
- Enterprise: biometric PC login and Single-Sign-On solutions (no more passwords)
- Healthcare: access to medical records restricted to authorized staff
- Easy and secure payment
- Fast, convenient, cashless payment at checkouts in stores, supermarkets or cafeterias
- E-commerce secure payment
- Check cashing services, pension/benefit payments after ID verification or identification
- Image Compression using WSQ algorithm from FBI/NIST
- Feature Extractor is MINEX/FIPS 201 compliant
- Proprietary, ISO 19794-2 or ANSI 378 template formats available
- Templates can be stored in the internal database
- Matcher is MINEX/FIPS 201 compliant
- 1:1 authentication or 1:N identification (up to N = 5000 users)
- High accuracy: 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
- Image and Template Encryption for the sake of confidentiality

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## Technical specifications

### System

| | |
|---|---|
| RTE (Request To Exit) | No |
| CSN (Card Serial Number) | No |
| No. of LEDs | 1 |
| Language installation manual | English |

### Technology

| | |
|---|---|
| Reader type | BioMetric |
| Read write | No |
| SAM module embedded | No |

### Biometric

| | |
|---|---|
| Biometric type | Fingerprint |
| Biometric sensor type | Optical |
| Biometric template storage size | 500 Standard (with 1MB flash) - No license required |
| Sensor | capture surface (14 x 22mm) |
| Database capacity (users) | 500 |
| | ≤ 3000 - with License "IdentLite" SM-MSO-1300 |
| | ≤ 5000 - with License "IdentPlus" SM-MSO-1300 |
| Database capacity (templates or fingers) | 1000 |
| | ≤ 6000 - with License "IdentLite" SM-MSO-1300 |
| | ≤ 10000 - with License "IdentPlus" SM-MSO-1300 |

### Interface & connections

| | |
|---|---|
| Interface | USB |
| Connector type | USB |

### Tamper type

| | |
|---|---|
| Pry-off tamper | No |
| Opening tamper | No |

### Operation

| | |
|---|---|
| Stand-alone | Yes |
| PIN keypad | No |

### Support

| | |
|---|---|
| Language installation manual | English |

### Electrical

| | |
|---|---|
| Power supply type | 5 VDC |
| Current consumption | 500 mA maximum |

### Physical

| | |
|---|---|
| Physical dimensions | 68,7 x 39,7 x 15,3 mm |
| Net weight | 40 g |
| Shipping weight | 50 g |
| Colour | Red |
| Form factor | Desktop |

### Environmental

| | |
|---|---|
| Vandal proof | No |
| Environment | Indoor |
| Operating temperature | 0°C to 50°C |
| Storage temperature | -20°C to 70°C |

### Regulatory

| | |
|---|---|
| Compliancy | CE, FCC, REACH, RoHS, UL, WEEE |

As a company of innovation, Kidde Global Solutions reserves the right to change product specifications without notice. For the latest product specifications, visit firesecurityproducts.com online or contact your sales representative.

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