

IDENTIFICATION

MORPHOSMART™ FINGER VP

OEM SERIES

MULTIMODAL FINGER VEIN AND FINGERPRINT MODULE



The Ultimate Solution for Security, Accuracy and Performance

- Fusion of two complementary biometrics
- Innovative and universal biometric technology
- Unequalled trade-off between security and comfort of use
- Enhanced resistance to spoofing
- Identification with large scale databases
- Simple to integrate
- Robust (IP 65 rated optical sensor)
- FBI PIV IQS certified

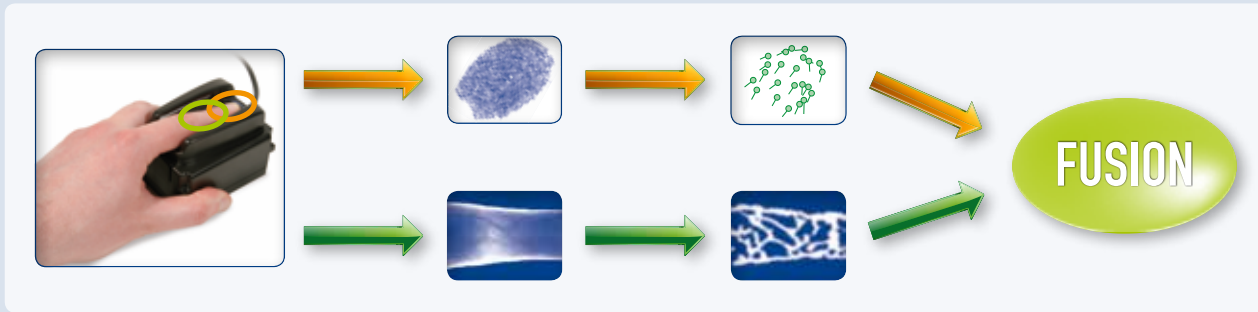


Security Innovation Award, Essen 2010

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World leader in biometrics, Morpho has developed the first ever multimodal device capable of capturing and processing finger vein and fingerprint biometric data at the same time.

With the MorphoSmart™ FINGER VP OEM Series, it is now possible to integrate easily this innovative technology into a vast range of end-user applications, e.g. access control terminals, ATM, mobile devices for identity checks and secure payments.

A new era for biometrics

- **Universal and easy-to-adopt:** successful enrollment is guaranteed - particularly for individuals who experience difficulties with mono-modal devices - with the same simplicity and ease of use as for fingerprints alone
> **The failure To Enroll (FTE) rate is greatly improved**
- **Unparalleled accuracy:** by reducing the probability of rejecting genuine individuals and accepting impostors, it gives an efficient response to both comfort and security concerns in any biometric application
> **@FAR=10⁻⁴, FRR is 10 times lower than with the best of the 2 modalities**
- **Resistance to spoofing:** it combines the protection mechanisms intrinsic to each technology and also makes the most of the new characteristics resulting from the fusion

Simple to integrate

- Compact and light package: 83x65x57.2mm ; 150g
- All-in-one module:
 - **FBI PIV IQS** certified optical sensor, capturing all the necessary finger vein and fingerprint data
 - Unrivalled algorithms: embedded feature extractor and matcher (**FIPS201** and **MINEX** compliant for fingerprint)
 - Intuitive and ergonomic MMI with positioning guides, LED indicator and **finger presence detection**
- Convenient interfaces: **USB (2.0 High Speed)** or Serial (up to 920.6 Kbps) for communication and power supply
- **Comprehensive SDK** for Windows XP, Vista, Seven, Server, CE/Mobile and Linux

Robust design

- **IP 65** rated sensing window
- Scratch, vibration and shock resistant
- Temperature range: -10°C to 50°C (operating) ; -20°C to 70°C (storage)
- Humidity range: ≤ 95% RH non-condensing

Extensive and best-in-class biometric/security features

- **Fast recognition:**
 - One-to-one **authentication** in 1s (average)
 - One-to-many **identification** in 1s average (1 to 500), 1.5s average (1 to 5,000)
- **Large storage capacity: 5,000 users** (10,000 templates)
- **Multiple biometric outputs:**
 - Multimodal template
 - Fingerprint image (500dpi, 256 grayscale, 400x400 pixels): RAW or WSQ compressed (under license)
 - Fingerprint templates (under license): proprietary, ISO 19794-2:2005, ANSI/INCITS 378
- **Adjustable FAR** from 10⁻² down to 10⁻⁸ ; remains **stable** whatever the number of individuals in the database
- Data integrity check by the host to exchange data under secure channel (in option)

Fully certified

- EMC/Safety standards: CE, CB, FCC, NF EN 60825-1 2008-01 (Laser Safety)
- RoHS, REACH and WEEE compliant

MorphoTrak

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