

IDENTIFICATION

# MORPHOSMART™ FINGER VP

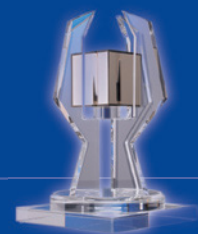
DESKTOP SERIES

MULTIMODAL FINGER VEIN AND FINGERPRINT SCANNER



## The Ultimate Solution for Security, Accuracy and Performance

- Fusion of two complementary biometrics
- Standalone desktop unit
- Greatly improved accuracy in enrollment and identification
- Large scale databases
- Innovative and universal biometric technology
- Unequalled trade-off between security and comfort of use
- Enhanced anti-spoofing capabilities
- FBI PIV IQS certified

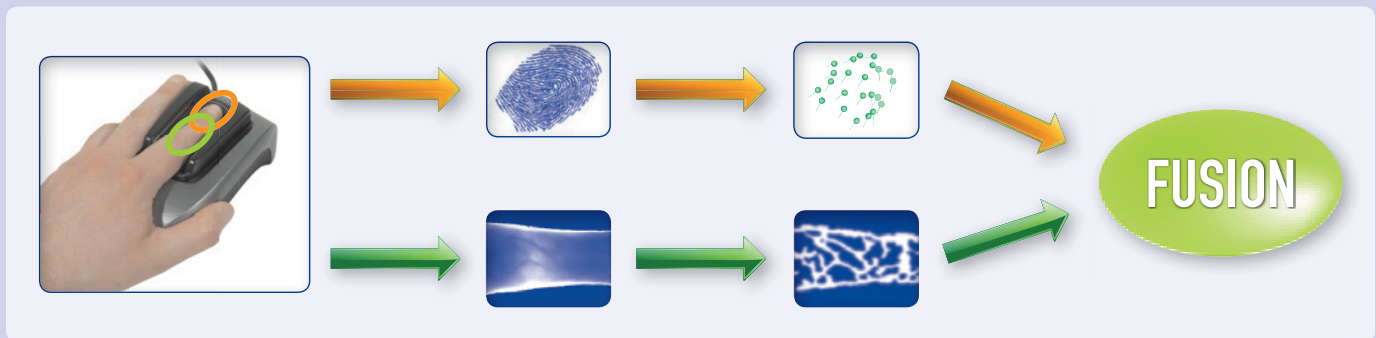


Security Innovation Award, Essen 2010

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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.

Ergonomic, intuitive and highly secured, the MorphoSmart™ FINGER VP Desktop unit is particularly suited to enrollment and desktop applications, such as logical access control, secure payment, ID control, etc.

## 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<sup>-4</sup>, 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

### 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 in standard version
  - Up to 10,000 or 50,000 users on X10 version (requires specific license)
- **Multiple biometric outputs:**
  - Multimodal template
  - Fingerprint image (500 dpi, 256 grayscale, 400x400 pixels): RAW or WSQ compressed (under license)
  - Fingerprint template (under license): proprietary, ISO 19794-2:2005, ANSI/INCITS 378
- **Adjustable FAR** from 10<sup>-2</sup> to 10<sup>-8</sup>; remains **stable** whatever the number of individuals in the database
- Data integrity check by the host to exchange data via secure channel (in option)

### All-inclusive solution

- 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**
- Ergonomic design fitting the shape of the hand

### Easy set-up

- USB connection for 2.0 high speed communication and power supply
- Comprehensive SDK available for Windows XP, Vista, Seven, Server, CE/Mobile and Linux

### Fully certified

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



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