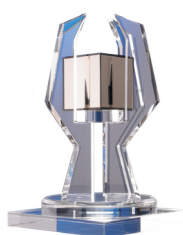# FINGER VP OEM Series

Multimodal finger vein and fingerprint module
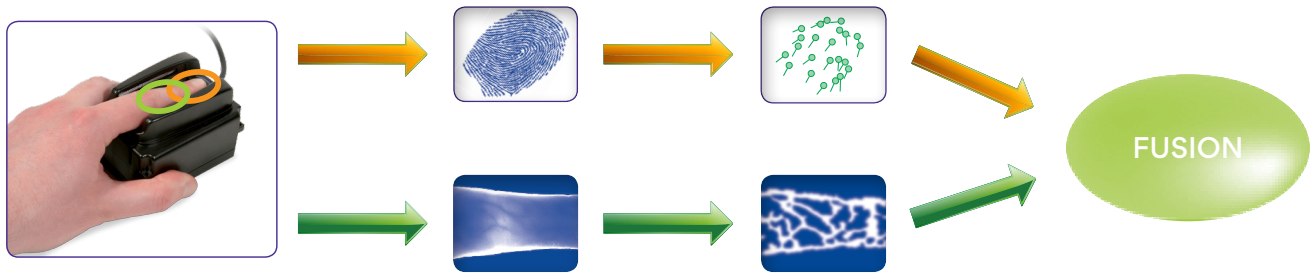
Connected Objects

The ultimate solution for security, accuracy and performance

Security
Innovation
Award,
Essen 2010

- Fusion of two complementary biometrics
- Innovative and universal biometric technology
- Unequalled trade-off between security and comfort of use
- Enhanced anti-spoofing capabilities
- IP65 rated optical sensor
- FBI PIV IQS certified

〈〈|〉〉 IDEMIA

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

Technical specifications

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 (FIPS 201 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 and Linux platforms

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) in standard version
  - Up to 10,000 or 50,000 users on X10 version (requires specific licenses)

- **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} ; accuracy maintained regardless of number of users
- **Data integrity check** by the host to exchange data under secure channel (in option)

Robust design

- **IP65 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

Fully certified

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

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