Technical specifications

HiScan is a professional fingerprint scanner, conceived to become the reference in the single-finger scanner market. The high quality optical design makes HiScan the ideal solution for applications requiring a high level accuracy and **interoperability with international standards** (e.g., forensic and civil AFIS, border control, electronic passport, visa, identity card, etc).

HiScan has been certified by the FBI according to the **PIV** Image Quality Specifications.

HiScan, completely designed and produced by Biometrika, is available both in DESK and OEM versions at a very appealing price (the **best price** for 1"x1" PIV-compliant scanners).

HiScan can be used as a simple device for acquiring high quality fingerprint images or, in combination with the Biometrika **FxISO SDK** engine, to create complete biometric solutions for fingerprint-based identity verification or identification.

Fingerprint Sensor

- Optical (FTIR)
- Resolution: 500 dpi (±1%)
- Sensing area: 1"×1" (25.4 mm x 25.4 mm)
- Geometric distortion < 1%
- Glass prism (abrasion resistant)
- Temperature range: 5°C – 45°C
- Humidity range: 10-90% (not condensing)
- Weight: 400 g
- Certified by the FBI according to PIV Image Quality Specifications

Interface and development

- FxISO SDK available as recognition engine
- USB 2.0 (Windows, Linux)
- Simple mechanical integration (OEM version)
- TWAIN driver for image acquisition
- Fastening holes

Market segment

HiScan is a fingerprint scanner specifically designed for professional applications, where fingerprint scanners are required to comply with minimum specifications (sensing area at least 1"x1", 500 DPI resolution, geometric distortion less than 1%). HiScan, designed to produce maximum **accuracy** and **interoperability**, has been certified by the FBI according to the **PIV** image quality specifications.

Applications

The high optical, mechanical and electronic precision allows HiScan to produce very good quality images, thus making it the ideal scanner for several professional applications, such as:

- biometric passport and border control (permit of entry and visas)
- electronic documents (ID cards)
- forensic and civil AFIS
- electronic voting
- airport and port security, military applications, banks
- logical and physical security (in the business sector)
- ATM and kiosks

Reference product in the market

Biometrika has designed and produced HiScan to become an important point of reference in the single-fingerprint scanner market segment. Comparative tests have demonstrated the superiority of HiScan over lead competing scanners (for further information please contact Biometrika). The scanner cost is also very appealing (the **best price for 1"x1" PIV-compliant scanners**).

Mechanical integration

HiScan (OEM version) is targeted to system integrators. Its mechanical shape allows a very easy (and aesthetically pleasant) integration inside third party systems. On demand, Biometrika can provide a specific plastic support for mounting the scanner on a panel, thus further reducing the integration cost. The scanner glass prism makes the scanner abrasion- and scratch- resistant, thus increasing durability and reducing maintenance.

Software Integration

The scanner can be used in applications that require fingerprint images (through the FxISO SDK light) or in complete biometric applications for fingerprint-based identity verification or identification (through FxISO SDK). HiScan is compatible with both **Windows** and **Linux**.

TWAIN Driver

HiScan driver also provides a TWAIN interface that enables the acquisition of fingerprint images through any software that supports this standard interface. Once installed, HiScan can be selected as a TWAIN image source from any application that supports the TWAIN interface.