

FingerFoto™

Finger Geometry Biometric OEM Camera



Simple Integration

With OEM Hosts

High Security Access Control
Time + Attendance
Immigration / Border Control
Public Entry & Ticketing
Banking / ATM / EBT
Automatic Doors / Turnstiles
Secure Workstations / EFT

Best By Test

Highly Accurate
Fast < 1 Second
Very User-Friendly
Left or Right Hand
Low Cost
Small Size

The FingerFoto™ Camera uses the most advanced 3-dimensional geometric scanning technology to accurately and quickly authenticate a person's identity. Users touch a platen with two fingers of either hand to prove their identity. The electronic system confirms or not in less than one second.

For users, the FingerFoto™ is convenient, non-threatening, fast and accurate, and quickly builds a high degree of confidence in its positive security merits. The FingerFoto™ works equally well with the right or left hand. Multiple cues – audio, visual, tactile – assist the new user, but most familiar users soon adopt a purely tactile usage. The FingerFoto™ is tolerant of the exact finger positioning and the degree of tolerance can be varied to meet special user requirements.

The FingerFoto™ brings to the system integrator and the system operator the security benefits of automatic personal recognition in a small, robust package that is flexible and configurable to meet the specific objectives of each application.

The FingerFoto™ is essentially a "smart camera". The module is comprised of an optical chassis, opto-electronics, and a printed circuit microprocessor board for integration into Host equipment. Communication and network interfaces are available. The specifications are summarized on the back of this page.

THE MOST VERSATILE BIOMETRIC AVAILABLE

The FingerFoto 3-dimensional finger geometry camera has been carefully designed to be easily adapted to a wide range of applications. By selectively combining software versions and built-in options (commands) to achieve specific customer requirements, the performance of the FingerFoto can be optimized for each application.

The FingerFoto can easily be integrated into a wide spectrum of host systems, including financial terminals (ATM, POS, inter-bank), confidential databases and security workstations, personnel screening systems, access control and time & attendance systems, and public entry/ticketing systems.

Enrollment onto the system is fast, only a few seconds, using 2 fingers of either hand. The enrollment data (template) may be stored inside the camera, can be transmitted to other units and/or datastores, or alternatively transferred to various types of cards such as magstripe, smart cards, barcode, etc., for ultimate flexibility and security.

With the FingerFoto in **identification mode**, no PIN or card is needed. The user touches the platen, and the FingerFoto checks its internal datastore to see which enrollee, if any, matches the fingers on the platen. If a match is found within adjustable parameters, it authorizes grant of the service, e.g. door opening, and identifies the user.

In FingerFoto **verification mode**, the user first makes a primary identification claim by entering a Personal Identification Number (PIN) on a keypad or by presenting a card to the Host system. The camera compares the enrollment data template for that PIN against the fingers then on the platen, and if they match, authorizes grant of the service. The degree of matching required is programmable on an individual basis.

The Host equipment provides the electrical and mechanical environment, including housing, for the camera. Custom designed extra parts or components may be needed to complete the integration. Frequently the Host already has facilities such as card readers, displays, keypads, 12 VDC power and communications capabilities which can be easily integrated with the FingerFoto, thus greatly reducing the incremental cost of adding the biometrics feature to the Host products.

FingerFoto™ Features

Data Capture

- Template Size: Maximum 20 bytes per person
- Template Storage: On-board memory for 999 users (higher capacity optional)
Download to any I.D. card. RS-232 upload to host or networked.

Functions

- Host Control: By simple command-response protocol
- Menu includes: Enroll, De-enroll, Verify User, Change Threshold, Recalibrate, Auto-Test, Upload/download Templates, etc.
- Selectable Options: Individual Thresholds, Automatic Template Updating, Auto-Recalibration.

Operational Speed

- Enrollment: < 1 minute nominal
- Verification: < 1 second

Accuracy

- FAR/FRR: 0.1% (adjustable threshold)

Size

9.0 cm (wide) x 15.0 cm (high) x 14.0 cm (deep)

Power

10-14 volt DC, 2 amps peak, 0.6 amps idle

Temperature

- Operating Temperature: 0° C to +55° C
- Storage Temperature: -10° C to +85° C

Relative Humidity

0 – 95% RH non-condensing