

FX 2000 - Biometric Finger Scanner Access Control - Time Attendance

Biometrika

- complete Solution
- fast
- safe
- Accessories



FXLock is the first multi-biometric terminal for the access and presence control. The standard version is used exclusively with fingerprint recognition. Other versions are equipped with digital cameras or audio-peripheral devices which supplement the fingerprint identification by the face and/or the voice. FXLock has all components and accessories for a user-ready application. The terminals can perform their functions independently from each other (stand-alone), or they are controlled by a server (PC). The ideal configuration consists of a network of terminals with a central server on which runs the software for the access and presence control.

Technical data

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| • Optical fingerprint scanner | • User-friendly menu |
| • Sensing area 25 x 13.2 mm ² | • Keyboard (14 buttons) |
| • Resolution 569 dpi | • Large display (4 x 20 characters) |
| • 10 frames per second | • Camera (optional) |
| • Automatic fingerprint recognition | • Microphone, loudspeakers (optional) |
| • 128 bit encryption | • Smart card reader (optional) |
| • Safe acquisition | • RS 232, RS 485, Ethernet (TCP/IP) |
| • RISC 32-bit Processor | • 200 MHz, core ARM9 |
| • 32 MB RAM | • Flash 8 MB (1500 user), max. 48 MB (10 000) |

Finger

The high resolution of the integrated scanner (569 dpi; i.e. 69 dpi more than those of the FBI systems), and the very large sensing area clearly improve the precision of the fingerprint recognition. Thanks to these features, recognition errors are drastically reduced due to inaccurate finger placements.

FXLock can work in the verification mode (1:1 comparison) as well as in the identification mode (1:n comparison with the aid of a database of registered users). A test was made with a representative amount of data; it could prove that the system errors are negligible (e.g., FAR=0 for FRR=0.0034). A user verification takes less than 0.5 seconds.

Camera

FXLock can be equipped with a digital camera (black/white or colour) that scans the user's face as soon as he approaches the terminal. The camera can be employed for face recognition resp. alternatively to fingerprints.

Audio

FXLock can be equipped with a microphone and a loudspeaker. The microphone is used for recording the user's voice. It enables the terminal to recognize the voice. Sound and verbal messages, which simplify and make the user interface more effective, can be broadcast over the loudspeaker.

Smart Card

FXLock can contain a smart card reader. The fingerprint templates (as well as the face and voice templates) can be stored in the smart cards (encrypted). To avoid the setting up and upkeep of a central database, the user carries his biometric information with himself (safeguard of privacy). The use of Smart Cards enables the user the access to different, not interconnected sites.

Additional information under merlin-electronic.de

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