

Hitachi Embedded Finger Vein Reader

Technical Data

Device Characteristics

Model number

Hitachi-Omron TS-E3F1-50ZRZ Compact Scanner

Capture System

Infra-red light transmission
Side illumination

Accuracy

False Acceptance Rate (FAR): 0.0001%
False Rejection Rate (FRR): 0.01%
Failure to Enroll Rate (FTER): 0.08%
(FAR/FRR: JIS testing; FTER: IBG test)

Templates

Approx 500 bytes per template
Internal flash storage (512kB)
or external server

Matching

1:1 or 1:N (N up to 1000)

Interfaces

Physical

RS232C, asynchronous

User

Blue LED whilst matching
Green LED signals match
Integral finger position guide

Logical

Full 53 command instruction set
Template functions including:

- Template acquisition
- 1:1 or 1:N matching
- Stored template handling
- External template handling
- Template encryption

Management functions including:

- Firmware updates
- Self-diagnosis
- Status, reset, initialisation etc.

Physical Specifications

Dimensions

69(W) x 85(D) x 43(H) mm

Weight

100g approx.

Power

DC12V

Environmental Conditions

Ambient temperature: 5 - 45 °C
Avoid direct sunlight

