Hitachi Finger Vein - Embedded Reader

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**Finger Vein Biometric Scanner**

**Hitachi-Omron TS-E3F1-50ZRZ Compact Scanner**

**Interface:** RS 232

**Dimensions [W x D x H]** 69 x 85 x 43

**Template Storage**
- Internal Flash or [server or card]
- External Template Size Approx 500 bytes
- Authentication Method 1:1, 1:N [N up to 1000]
- False Reject Rate 0.01% [JIS based testing]
- False Accept Rate 0.0001% [JIS based testing]
- Failure to Enrol Rate 0.08% [IBG Test 2006]
- Weight Approx 0.1 Kg
- Operating Temperature 5-45 °C
- Power DC 12V
- Operating Environment Avoid direct sunlight

**Advantages**

- **Resistant to Tampering:** Veins are hidden inside the body, there is little risk of forgery or theft.

- **High accuracy:** Unique and constant: Finger vein patterns are different even among identical twins and remain constant through the adult years.

- **Contactless:** The use of near-infrared light allows for non-invasive, contactless imaging that ensures both convenience and cleanliness for the user experience.

- **Ease of use:** Finger vein patterns are relatively stable and clearly captured, enabling the use of low-resolution cameras to take vein images for small-size, simple data image processing.

- **Authentication Speed:** One-to-one authentication takes less than one second. Moreover, the authentication device can be compact due to the small size of fingers.

**Technical Specification**

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