Finger Vein Reader
Security/Identity solutions with your fingers

**High security**
Because finger veins are inside the body and invisible from the outside, finger vein patterns are extremely hard to steal and do not change with age, making it an ideal biometric feature for secure authentication.

**High accuracy**
A clear finger vein image can be captured for highly accurate authentication by using the “transmissive light photographing method”.

**Fast authentication speed**
Compact data size of finger vein patterns and our unique algorithm enable speedy authentication.

**Compact and easy to use**
The compact size readers can be integrated into various devices/terminals.

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**Applications**
Finger vein authentication protects customers assets from fraudulent financial transaction and improve customer service/satisfaction.

**Teller counter**
Finger vein authentication makes withdrawal transactions at a teller counter safer.

**ATM**
Finger vein authentication prevents fraudulent withdrawal from ATMs.

**Internet banking**
Finger vein authentication prevents phishing and other fraudulent crimes.

**Credit card transaction**
Finger vein authentication can be used in place of PINs and signatures for credit card transactions.

**Logical access control**
Finger vein authentication prevents data leaks from and unauthorized access to computers. Also, finger vein authentication will do away with passwords and make PC login hassle-free.

**Vault**
Finger vein authentication prevents vault theft.
### Model Number

<table>
<thead>
<tr>
<th>TS-E3F1-B59UE</th>
<th>TS-E3F1-B52UE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Embedded type</td>
<td>Standalone type</td>
</tr>
</tbody>
</table>

### Appearance

![Embedded type image]

![Standalone type image]

### Recommended application

- Teller counter, ATM, Internet banking, Credit card transaction,
- Logical access control, Vault

### Minimum matching time (1:1)

<table>
<thead>
<tr>
<th>Hardware Interface</th>
<th>TS-E3F1-B59UE</th>
<th>TS-E3F1-B52UE</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Power Supply) USB2.0</td>
<td>✔ (Bus-Powered)</td>
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</tbody>
</table>

### OS

- **TS-E3F1-B59UE**
  - Windows Vista Business SP2
  - Windows 7 Professional SP1(32bit)
  - Windows 7 Professional SP1(64bit)

- **TS-E3F1-B52UE**
  - Windows Vista
  - Windows 7
  - Windows 8

### Device driver (MOD) *2

- Original API
- BioAPI 2.0

- planner

### Standard

- CE
- FCC (Class A)
- RoHS

### Dimension (WxHxD)

- **TS-E3F1-B59UE**: 69.0 x 46.5 x 80.5mm
  - 2.72 x 1.83 x 3.17inch
- **TS-E3F1-B52UE**: 85.0 x 52.0 x 113.9mm
  - 3.35 x 2.05 x 4.48inch

### Match On Server Package

- OS: HP-UX 11i v3
- Windows Server 2008

### Note

- For other operating systems please contact us.
- MOD: Match-On-Device
- Hitachi-Omron Terminal solutions, Corp. may, at any time and without notice, make changes or improvements to the products and services offered and/or cease producing or commercializing them.

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© Microsoft® Windows® Operating System is the official name of Windows®.

© BioAPI 2.0 is an international standard developed by the international standards committee for biometrics within ISO (ISO/IEC JTC1 SC37).

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AT-C001-D 2015.3