Bluetooth® compliant finger vein authentication device

FVA-U4BT

mofiria
Better Life with Finger ID

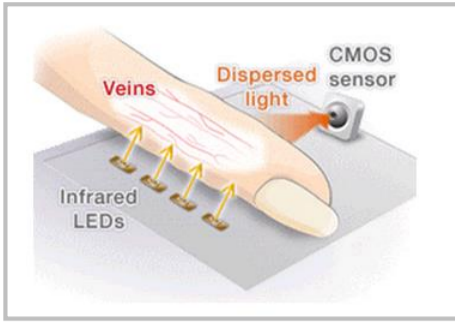# Feel the future

The next generation of biometrics

Finger vein authentication goes wireless

Bluetooth®&Lithium-ion rechargeable battery built-in
Supporting Windows and Android

Various usages wireless operation can realize

Vein Authentication Technology by mofiria

mofiria adopts a unique patented **_reflective dispersion method_**, which near-infrared lights emitted from LED is reflected inside a finger, and the vein pattern image is captured by a CMOS sensor.

It quickly and exactly extracts vein information and automatically adjusts the finger's position for matching vein pattern. Therefore, it achieves high level of usability and authentication without having to fix the position.

FVA-U4BT includes authentication (matching) feature and supports two types of authentication processes, in device and on server.

Example of usage

Some examples of the cases FVA-U4BT can be utilized

Attendant service

Admission restriction system for specific area

e-learning

Attendance management at franchise stores

Office security

Working with other Bluetooth devices

Product Specifications

Voltage / Current	Authentication mode: Max 220mA On charging : DC5V 500mA
Power supply	Built-in rechargeable lithium-ion battery Charging time : About 2 hours Rechargeable times : About 300 times Consecutive authentication : About 500 times
Operating temperature	5℃～35℃ (41ºF～95ºF)
Operating humidity	20%～80% (No condensing)
Operating illuminance	3,000 lux or less (with fluorescent lamp)
Storage temperature	-20℃～50℃
Storage humidity	10%～90% (No condensing)
Dimension	49 x 63 x 92mm (W/H/D)
Weight	Approx. 130g (Body only)
Adapted standard	Bluetooth Ver3.0 compliant
Radio frequency	2.4GHz band
Transmission scheme	FHSS
Communication distance	About 10m (Depends on environment)
Transmission power	Class 2
Accessories	Cleaning cloth, Cover, Instruction Manual

SDK (Software Development Kit)
※Sold separately

Use the following SDK(s) in order to develop application or solution supporting FVA-U4BT device:

	MSDK-DCL-02	MSDK-SAS-02
Description	Modules for client computer utilized for authentication in device and in server. This is an essential development kit to develop a system that uses USB and Bluetooth connected mofiria device.	Modules for server computer utilized for authentication in server. * Unnecessary for authentication in device.
Platform	Windows, Android, macOS, Linux (※1)	Windows, Linux (※1)
Content	C/C++ (Library) / Java (JAR)* / Device driver** / Tutorial (videos and images) / GUI materials / Sample programs * Android only ** Except Android	C/C++ (Library) / Sample programs

※1 FVA-U4BT doesn't support macOS and Linux.
※2 Templates generated by this device are compatible with a USB connected device, FVA-U4ST only.

⚠ **Safety Notice** | **Please read the Instruction Manual carefully before using the product.**

●Design and specifications are subject to change without notice.
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