



"FVA-U3SX" is a biometric authentication unit which uses finger vein patterns to authenticate individuals to provide high-level security.



### Features of FVA-U3SX

#### Versatility

FVA-U3SX has versatility to various system devices as finger vein patterns used for authentication will be encrypted and stored outside unit.



#### Convenient

Light in weight and compact, this finger vein authentication unit can be embedded in various devices and places.



#### Comfortable

"mofiria" has comfortable, fast and high-accuracy authentication process by using original authentication algorithm to reduce stress from the traditional authentication system.

### How FVA-U3SX works

- Operational performance has been improved by adopting an electrostatic sensor switch for finger detection and two enrollment methods of finger vein patterns.
- Generate near-infrared lights on a finger and capture scattered lights with a sensor to recognize finger vein pattern.
- Capture the finger vein patterns to enroll to process authentication by using captured finger vein patterns.
- Authentication process completes when scanning same finger vein patterns captured above is matched with enrolled patterns.

This product is designed and produced for general office usage purposes. Please avoid using this product for purposes that may affect your life or property.

## What is finger vein authentication?

Finger vein authentication is one of the biometrics authentication methods to scan finger vein patterns to identify individuals.

### Feature of vein pattern authentication

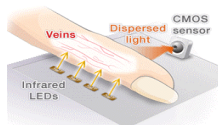
- Vein patterns vary from individual to individual. This will provide high-accurate and secure individual authentication.
- Assures stability for long-term use since vein patterns do not change across the ages.
- Because finger veins are located inside human body, forgery or identity theft is nearly impossible and achieve favorable authentication accuracy compared to other biometric authentication methods.

### What is finger vein authentication technology “mofiria”

“mofiria” is unique finger vein authentication technology having small, fast, high-accuracy and comfortable operability.

#### Small

“mofiria” adopts a unique reflective dispersion method, which near-infrared lights at the finger veins generated by LED will be reflected inside the finger, and capture the image with CMOS sensor. Since LED light generation and image captured by CMOS sensor are done diagonally, unit is designed for plane arrangement, compact and flexible design embedded to other devices.



#### Fast

In addition to a fast and accurate finger vein pattern scanning method, “mofiria” uses an automatic and simultaneous finger position adjustment technology to achieve high-speed authentication.

#### Comfortable

By our unique algorithm, automatic finger position adjustment ensures both comfortable operability and high accuracy authentication without firmly fixing the finger position on the unit.

### Product Specifications

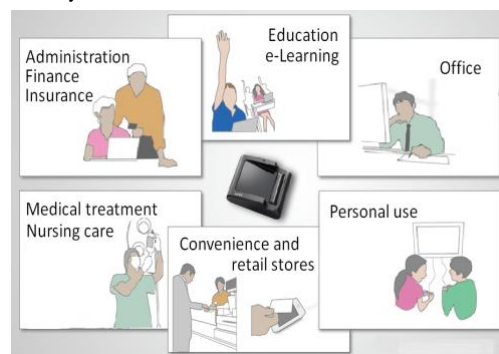
Voltage / Current		Authentication Mode: DC 5V / 200 mA or less Sleep Mode: DC 5V/ 2.5mA or less
Power Supply		USB Bus power
Operating Environment	Temperature	5 °C~35°C (41°F~95°F)
	Humidity	20%~80% (No condensing)
	Illuminance	3,000 lux or less (with fluorescent lamp)
Storage Environment	Temperature	-20°C~+50°C (-4°F~+122°F)
	Humidity	20%~80% (No condensing)
OS Requirements		Depends on supported OS by mofiria’s software development kits compatible with this device (Windows, macOS, Android, Linux and so on)
System Requirements		USB : USB2.0 Full Speed
Dimension		70 × 22.5 × 58mm (W/H/D)
Weight		Approx. 36 g
Accessories		USB Cable (1m), Operation guide and Manual (Warranty card included)

- Option: MSDK-DCL-02 (SDK for client), MSDK-SAS-02 (Library module for server)  
MTKE-U3SX for Windows (mofiria Trial Kit)

Please check operations before using the product. Please note that regardless of warranty term, the warranty does not cover any kind of loss in your business caused by defects and/or malfunctions in this device.

### What FVA-U3SX can do

Devices with “mofiria” technology which have the characteristics of portability can be used in a wide variety of business situations.



### Size (mm)



FVA-U3SX is not compatible with other mofiria devices.

#### Safety Notice

**Please read the Instruction Manual carefully before using the product.**

- Design and specifications are subject to change without notice. ●Colors displayed in the catalog may slightly vary from the actual product color due to printing issues.
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“mofiria” Website <https://www.mofiria.com>

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