

## Finger vein authentication USB connected unit

### FVA-U4ST



“FVA-U4ST” finger vein authentication unit features a stylish design and delivers high-level security simply by connecting it to a computer via USB

### ■ mofiria Technology

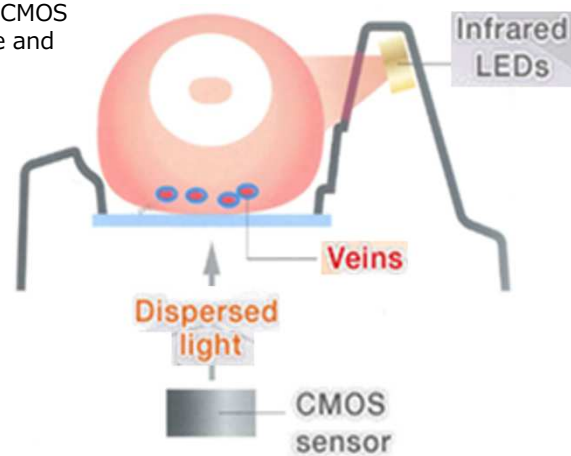
mofiria adopts a unique reflective dispersion method, which near-infrared lights emitted from LED is reflected inside the finger, and the vein pattern image is captured by a CMOS sensor. Our device can be designed for plane arrangement that enables smaller size and flexibility in design implementation when embedded to other devices.



Product Picture  
Comes with a dedicated cover for convenient portability.



Finger Placement Image  
The bottom is equipped with rubber feet for secure stability



mofiria adopts a unique reflective dispersion method

### ■ Features of FVA-U4ST

#### Compact & Lightweight

It achieves portability and convenience. With a single unit capable of both vein information registration and authentication, it can be easily carried and used anywhere.

#### Development Kit

To make it easy for customers to integrate vein authentication into their products and services, we offer a variety of supported operating systems, focusing on ease of use.

#### Expand

We offer a versatile authentication library that can be used not only in standalone environments but also for server-based authentication and verification, as well as integration with existing systems in various scenario

### ■ USE CASES



mofiria has succeeded to finger vein authentication technology developed by Sony Corporation.

# Comparison of biometric technologies

	Failure-to-enroll Rate	False Acceptance	False Rejection	Forgery Difficulty	Secular Change	Template Size	Response Time
mofiria Finger Vein	◎	◎	◎	◎	◎	◎	◎
Fingerprint	▲	▲	▲	▲	▲	◎	◎
Face	○	▲	▲	▲	▲	▲	○
Iris	○	▲	◎	○	○	▲	○
Voice	◎	▲	▲	▲	▲	◎	▲

Internal body information! Vein authentication—a biometric solution that is nearly impossible to replicate with generative AI and ensures privacy protection

## Advantages of finger vein authentication

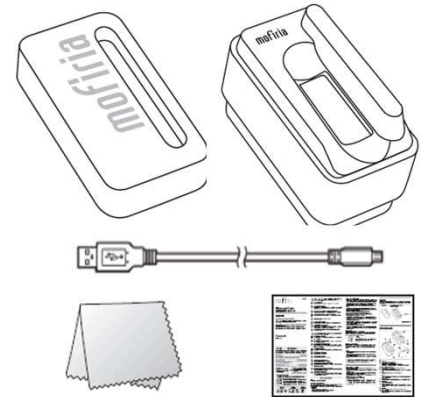
- ① Each person, Each Finger has a different vein pattern.
- ② Vein pattern will see no major change during an individual's life.
- ③ The only biometric authentication that uses internal information beneath the skin among commonly adopted methods
  - 1 : Not impacted by fingers' surface condition. (e.g. dry, wet, rough, dirty, etc.)
  - 2 : Because it is not visible or traceable from the outside, forgery and impersonation are extremely difficult



## FVA-U4ST Specifications

<b>Voltage / Current</b>	Operation mode: DC5V 220mA or lower Sleep mode: DC5V 2.5mA or lower
<b>Power supply</b>	USB bus power
<b>Dimensions</b>	Approx. 49 x 63 x 92mm (W/H/D)
<b>Weight</b>	Approx. 105g (Body only)
<b>Interface</b>	USB 2.0 (Full Speed)
<b>Accessories</b>	USB cable (1m), Duster cloth, User manual
<b>Certification</b>	VCCI-ClassB, USB Logo, CE, FCC
<b>Supported OS</b>	Depends on supported OS by mofiria's software development kits compatible with this device (Windows, Linux, Android, Mac)

## Package Contents



FVA-U4ST / Cover / USB Cable  
Cleaning cloth / Manual

## Software Development Kit (SDK)

	MSDK-DCL-02	MSDK-SAS-10N
<b>Description</b>	Modules for client computer utilized for controlling a mofiria authentication device.	Modules for server computer utilized for 1:N authentication in server
<b>Platform</b>	Windows, Mac OS, Android, Ubuntu	Windows, CentOS

For more details, please visit our website  
<https://www.mofiria.com/en/product/developtool/>

## Development Service

In addition to providing finger vein authentication modules, we can also support partial or complete design and development of the required application, boards and mechanisms, as well as OEM provision of finished products, upon consultation. We will fully utilize our expertise to reduce your development burden.

- Specifications are subject to change without notice due to continual improvements. For the latest info, please visit mofiria web site.
- Colors displayed in the catalog may slightly vary from the actual product color due to printing issues.
- mofiria is a registered trademark of mofiria Corporation.
- All other registered trademarks or trademarks are property of their respective owners..

As of JAN 2025

Where to buy

**mofiria Corporation**  
Head quarter: Tokyo, Japan

