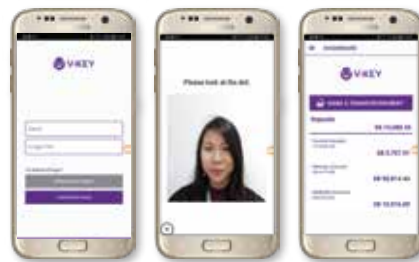


# V-OS Face Biometrics eKYC

Mobile Digital Identity,  
Authentication and Authorization

**Stronger with V-OS**



- ◆ Multi-platform support: iOS and Android
- ◆ Fast 1:1 matching
- ◆ Small footprint
- ◆ Customizable
- ◆ Continuous face verification

## Stronger with V-OS

Built on the industry-leading patented V-OS Virtual Secure Element, V-Key's Face Biometrics delivers accurate and fast eKYC and authentication solutions that are designed to provide secure, fast, and delightful user experiences on mobile devices.

## V-OS Face Biometrics

A practical solution for mobile applications. Designed and optimized for mobile devices with a very small facial library footprint. Exceptional performance and accuracy with face detection, template extraction and matching can be completed in less than 500 milliseconds on an average smartphone. Optional server-side verification for omni-channel use case.

## V-OS eKYC

Our face biometrics technology complies with quality requirements defined by ISO/IEC 19794-5 standards and ICAO (International Civil Aviation Organization) standards, making it ideal for verification of e-passports, or e-ID cards.



- ◆ Automatic background removal
- ◆ Automated characteristics detection
- ◆ Picture cropping
- ◆ Hardware independent



Mobile Identity



V-OS App Protection



V-OS Smart Token



V-OS Messaging



V-OS Face Biometrics  
V-OS eKYC



V-OS Cloud Solutions

# FACE BIOMETRICS FEATURES AND SPECIFICATIONS

Optimized face biometric solution secured by the anti-tampering, anti-malware

## V-OS Virtual Secure Element



Our solution allows for a range of options for deploying biometrics, at the highest levels of security.

- ◆ Detects and evaluates face and facial features in real-time
- ◆ Detection of head poses, closed eyes, eye gaze, open mouth, etc.
- ◆ Brightness, contrast, sharpness, grayscale, uniform lighting/shadow in facial region, etc.
- ◆ Background uniformity check and background removal
- ◆ FRR 0.6% @ FAR 1%
- ◆ FRR 1.2% @ FAR 0.1%



V-OS Virtual Secure Element combines the benefits of hardware security solutions like ARM TrustZone with the ease and convenience of software.

This software-based secure execution environment enables rapid digitization without dependencies on hardware devices, manufacturers, and platforms.

## FEATURES



### High Speed & Accuracy

Accurate face matching and identification. GPU acceleration support for faster template extraction.



### Quality & ICAO Compliance Check

Brightness, contrast, sharpness, grayscale, uniform lighting/shadow and hotspots/specularity in facial region, eye gaze, red eyes, open mouth, eye glasses



### Multi-threading Support

Template extraction and matching can be performed simultaneously as well as background uniformity check, image cropping and background removal



### Android And iOS Support

Small footprint on mobile platforms



V-Key is a global leader in software-based digital security, and is the inventor of V-OS, the world's first virtual secure element. Contact us today to schedule an appointment and

**E** info@v-key.com **W** v-key.com **T** +65 6850 5155