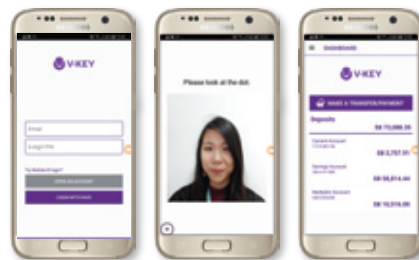


# V-OS Face Biometrics eKYC

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 of just 10MB. Exceptional performance and accuracy with face detection, template extraction and matching can be completed in less than 500 milliseconds on an average smartphone.

## V-OS eKYC

Our face biometrics technology complies with quality requirements defined by International ICAO/ISO Standards (ISO/IEC 19794-5 and ICAO (International Civil Aviation Organization) standards), making it ideal for 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-fraud, 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. Total of 18 facial features.
- ◆ Detection of head poses, closed eyes, eye gaze, open mouth, spectacles
- ◆ Brightness, contrast, sharpness, grayscale, uniform lighting/shadow in facial region
- ◆ 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 demonstration.

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