

HID® U.ARE.U™ Face Software Development Kits

HID U.ARE.U Face Software Development Kits enable integrators and developers to seamlessly integrate the power of facial recognition into their mobile applications with ease.

HID U.ARE.U Face Software Development Kits (SDKs) deliver effective tools that empower your development team to quickly and easily integrate facial capture and recognition features to your existing applications. The SDKs, available for iOS® and Android™, feature an intuitive interface that captures superior-quality facial images for fast, accurate matching — delivering exceptional user experiences for mobile enrollment. The SDKs can also be used in conjunction with other HID facial recognition system components, such as the HID ArcID™ Biometric Server for central biometric identity management.

EASY-TO-USE TOOLKITS

- Automatic face detection with optional bounding box display
- Automatic face capture based on configurable quality thresholds
- Liveness detection/Presentation Attack Detection to prevent spoofing (optional)
- Optional landmark detection
- Image quality analysis
- Biometric template extraction
- Biometric matching (1:1)
- Biometric verification (1:1) or identification (1:N) against a local template database of up to 1000 templates
- Biometric identification (1:N) against named subsets (galleries) in the local database
- Local database management (add user, remove user, create/delete/edit gallery)
- Debug tools reduce the learning curve and direct your team during development



KEY FEATURES:

- Face detection / bounding box display
- Capture face from camera/image
- Presentation Attack Detection (optional add-on)
- Image quality analysis
- Local on device database management
- Enrollment management (via the HID ArcID Biometric Server):
 - Enroll
 - Retrieve
 - Update
 - Delete
- Verification on device (1:1)
- Identification (1:1000) on device or (1:Many) via the HID ArcID Biometric Server

TOP RANKING, AI-POWERED FACIAL RECOGNITION

Our facial recognition technology is built on the dependable, flexible and secure matching algorithm from our partner, Paravision®, a global leader of computer vision and machine learning.

Paravision's top-performing face matching algorithms have consistently ranked high in the internationally recognized National Institute of Standards and Technology (NIST) Face Recognition Technology Evaluation (FRTE) reports, thanks to its advanced AI and machine learning technologies.

In addition, Paravision's face matching algorithm has been trained using an extensive, ethically sourced dataset with millions of images, including a variety of gender, age and racial characteristics, to ensure sufficient diversity of data and defend against matching bias.

FACES IN THE WILD

Mobile applications are used "in the wild," meaning applications will be constantly challenged by lighting, surrounding backgrounds, as well as non-ideal facial positions and expressions while people take a selfie or photo to enroll or authenticate themselves.

To ensure facial recognition works in such challenging environments, HID partners with Paravision, a leader in machine learning and artificial intelligence, to deliver top-ranked facial recognition algorithms to maximize matching accuracy and performance. The Paravision algorithm has consistently ranked in the NIST FRTE (previously FRVT) as one of the top 5 worldwide performers and is consistently the best performer for Faces in the Wild.

WHAT ARE "IN THE WILD" FACE IMAGES?

"In the wild" refers to uncontrolled imagery, as opposed to images taken in lab environments or posed pictures such as driver's license/passport photos or mug shots. The face photograph dataset is designed for studying the problem of unconstrained facial recognition.

KEEPING YOUR SOLUTIONS SECURE FROM FRAUD

HID offers optional state-of-the-art liveness detection, or Presentation Attack Detection (PAD), to eliminate spoof attempts and secure your application from fraud. Based on the capabilities of each camera type and edge device, our PAD algorithms combined with advanced AI provide the highest level of protection from fraudsters to defeat facial recognition.

HID PROFESSIONAL SERVICES

HID Biometric Professional Services offerings can be adopted to meet your specific needs, ranging from strategic consulting and solution design, to implementation, customized training and on-going maintenance and support. We can provide the technical expertise and skilled resources to help you scope and plan your biometric project from start-to-finish.

Product Name	HID U.ARE.U Face Software Development Kits (for iOS and Android)
Capture and Enrollment Functionality	Capture • Face detection and capture from camera/image • On-screen bounding box and landmarks (optional) • Presentation Attack Detection (optional) • Image Quality Analysis Enrollment • Enrollment management (via ArcID Biometric Server) - Enroll - Retrieve - Update - Delete
Biometric Functionality	• Paravision Face Recognition - Facial Template Extraction - Facial Biometric Verification (1:1) - Facial Biometric Identification (1:1000) on device - Facial Biometric Identification (1:Many) with ArcID Biometric Server
Quality & Matching Score	Thresholds are configurable for both quality and matching
OS Environments	Android 7+, iOS 11+
Development Environment	Android Studio, Apple XCode
Programming Languages Supported	Java, Kotlin, Swift
Sample Application Use Cases Provided	Enrollment – Template only Enrollment – Template & Update Gallery Identification Match Verification Match
Database	Developer may use a database of their choice

Data subject to change without notice.



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