

HID U.ARE.U Face Module

Reliable facial recognition in any light, powered by AI

The HID U.ARE.U Face Module delivers advanced facial recognition, identification and verification using AI-powered multispectral imaging (MSI) and machine learning. It offers industry-leading passive liveness detection to ensure authenticity and effective Presentation Attack Detection (PAD), performing reliably in challenging lighting conditions, from bright to total darkness.

By combining multiple cameras in a single device, the U.ARE.U Face Module provides the highest level of matching performance and accuracy for customers that require the best user experience across multiple industries.



ADVANCED PRESENTATION ATTACK DETECTION (PAD) TECHNOLOGIES

Facial recognition systems must prevent spoofing attempts, such as using device displays, photos or masks, while still recognizing users with eyeglasses or face masks. Although single-camera systems may resist some attacks, they are vulnerable to known spoofing methods. The U.ARE.U Face Module enhances security by using multispectral imaging — combining visible and near-infrared (NIR) sensing, RGB, 3D depth, periocular, and 2D NIR technologies — with advanced PAD algorithms. This approach increases resistance to spoofing and meets ISO 30107-3 Level 2 standard.

HIGH PERFORMANCE IN CHALLENGING LIGHTING

By utilizing a combination of RGB and NIR, the U.ARE.U Face Module can address the challenges of operating in total darkness, bright light and variable lighting conditions. Options are available for NIR-only or NIR/RGB combined.

MATCHING AT THE EDGE

The U.ARE.U Face Module can perform facial matching and AI processing at the edge for onboard facial recognition, liveness detection, presentation attack detection and template extraction and matching. Edge processing drastically minimizes latency and the exposure of private data to external threats.

DESIGNED TO FIT YOUR REQUIREMENTS

The HID U.ARE.U Face Module has a USB interface and can use the U.ARE.U Face Software Development Kits (SDKs) to interface with your systems and applications. Alternatively, the camera has an Ethernet interface with an integrated camera API, allowing it to be directly addressable from the internet without a separate SDK.



FUNCTIONALITY:

- Wide field of view for users of different heights
- RGB + NIR imaging for consistent performance in all lighting conditions
- Edge processing for on-device capture, matching and spoof detection
- 3D structured depth projection
- Does not require an external light source
- Presentation Attack Detection (PAD) conforming to ISO 30107-3 standard
- Face detection
- Automatic face capture
- Automatic image quality check
- Face template extraction
- Face template match
- Match on device with local identification database
- Neural processing unit for fast and reliable operation
- Top ranking in NIST Face Recognition Technology Evaluation (FRTE)
- Unattended operation
- Multi-face detection
- Continuous authentication

HID U.ARE.U Face Module



Front



Back



Bottom

Product Name	HID U.ARE.U. Face Module
Camera Sensing Technology	• Multi-Spectral RGB-IR Day/Night Sensing • Active Structured 3D Depth Projector with 2D Flood Illuminator @ 940 nm
Image Sensor	• 8 MP 1.4 um NIR Enhanced BSI Technology • Full HD Video Outputs (1920x1080, 3x Streams Visible, NIR, Depth)
Modalities	• Enroll and Match on Device • 1:1 and 1:N Authentication On Device • Continuous Face Recognition @10 fps with PAD Authentication @4 fps • Multi-Face Logic Support
Ambient Lighting	• 0-20 Klx (NIR) • 2-10 Klx (RGB)
Working Distance	• 20-150 cm / 7.87-59 in. (Face Recognition) • 40-100 cm / 15.75-39.37 in. (Face Recognition with PAD enabled)
Face Recognition Performance	User Configurable FMR 1e-4, 1e-5, 1e-6
Field of View (camera mounting dependent)	Portrait Mode 74° V x 45° H
On-board Database Capacity	0-100K facial templates for 1:1 or 1:N matching
Supported Formats	PNG, JPG
Communication Interface	• USB 2.0 (USB-C connector) • Fast Ethernet (10/100Mbps, RJ45 connector)
Power Consumption	Average Power Consumption • Idle: 2.11W • Face Detection: 2.43W • Face Recognition: 4.05W
Power Supply	• USB interface: 5V/3A • RJ45/Phantom interface: 12V – 48V/300mA – 1150mA
Dimensions:	88 L x 42 H x 41 D mm (~3.5 L x 1.65 H x 1.61 D in.)
Operating Temperature	• USB powered: Ambient temperature 0° C - 50° C (32° F - 122° F), non-condensing • RJ45 Phantom powered: Ambient temperature 0° C - 45° C (32° F - 113° F), non-condensing
Storage Temperature	-25° C - 60° C (-13° F - 140° F), non-condensing
Supported Operating System	Windows® 10, Windows® 11, Linux® x64/x86, Android®
Optional Solution Components	• HID U.ARE.U Face SDKs • HID ArcID Biometric Server • HID Biometric Professional Services
Presentation Attack Detection	ISO 30107-3 Level 2
Certifications	CE, UKCA, FCC, RoHS, WEEE, UL, CB, IEC 60825-1 Class 1, IEC 61000-4-2 Level 3
Security Features	• Secure Boot • Secure Key Storage • Mutual Authentication • Cipher Suites for Template/Channel Encryption including AES, TDES, etc. • Secure Firmware Updates

Data subject to change without notice



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