

Intel® RealSense™ ID F450/F455 Unlock your world

Advanced hardware and software purpose built for facial authentication.



Indoor/Outdoor

0° to 50° C (Module)

56° × 78°

- Host: USB2

- ALIX: SPI GPIOS

- Host: USB2/UART

- ALIX: SPI GPIOs 12C

Windows/Linux/Android

About the solution

Intel RealSense ID is a trusted and accurate on-device facial authentication solution. It combines an active stereo depth sensor with a specialized neural network to deliver an intuitive and secure solution that adapts over time.

Intel RealSense ID simplifies secure entry for everyone, everywhere. It supports people of varied heights and is designed for Smart Locks, Access Control, Point-of-Sale, ATMs and more.

Everyone, everywhere

Intel RealSense ID authenticates users in less than a second with a glance. It combines industry leading hardware and software design to ensure reliability in varied conditions. It supports every skin tone and shade reliably and allows a natural interaction for most people.

Intel RealSense ID also works in lighting conditions from complete darkness to strong sunlight. The specialized neural network allows the solution to adapt to changes over time - different hairstyles, facial hair and more. Learning over time, Intel RealSense ID stays with you and your family as you grow.

Privacy is key

Intel RealSense ID enables you to build a facial authentication solution that prevents unauthorized access with a less than 0.1% Spoof Acceptance Rate and a one in one million False Acceptance Rate. With a fast and easy enrollment, only registered users are authenticated — and the whole process takes less than a second.

Purpose built for facial authentication

Designed with a large vertical field of view, Intel RealSense ID can authenticate people from 120 cm to 190 cm tall at a 55cm distance, and supports users from 0.3 m to 1 m away from the sensor³.

A low power system, Intel RealSense ID consists of an SOC for data processing on device, with dual cameras for authentication, IR illuminators to allow indoor and outdoor operation, a Secure Element to protect your privacy and a specialized neural network to adapt over time.

Easy to integrate

Intel RealSense ID SDK is designed to plug into your user authentication systems. Scalable, with configuration flexibility for edge, local host or server based solutions.

Where to Get More Information

intelrealsense.com/facial-authentication/

Dimensions (Width × Length × Depth):

Solution Specifications

Recommended Range: 0.3-1 meter

Operating Temperature: 0° to 40° C (Peripheral)

Use Environment:

Field of view (H x V):

Interface:

Peripheral:

Module:

Operating System:

Peripheral - 62 mm × 32.5 mm × 11 mm (Peripheral) Module - 50 mm × 18 mm × 4.6 mm (Module)

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² Other names and brands may be claimed as the property of others.

³ Please see datasheet for more details

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