



HOW IT WORKS

The human palm has a large area with skin lines and creases at wide range of spatial scale. When the palm is presented to a camera from 6 inches (15 cm) distance or more, it is always in focus, and the camera captures the palm skin lines in great detail. The lines on the palm skin are highly unique.

PalmID Capture Module uses sophisticated machine vision techniques to convert RGB video of the palm into a template for enrollment or verification PalmID Matching Module can run server side or locally. In just 50-300 milliseconds it matches the verification (login) attempt against the enrollment template, using proprietary algorithms which have been extensively tested against tens of thousands of palm images

ADVANTAGES

1. Extremely accurate
2. Works in a wide range of illumination conditions
3. Tolerant to dirt or even scars on the palm
4. Cross platform, wide range of devices and use cases.
5. More than 90% of phones and tablets have cameras compatible with PalmID
6. Users can enroll on one device and later login with a different device (portability)
7. Certified for medical use (electronic prescriptions) by DEA.
8. IP protected by four patents plus trade secrets.



USE CASES

- Virtual Reality and Augmented Reality
- Desktop and laptop PC login
- Mobile and online banking login
- Mobile device OEMs, for device lock/unlock
- Automotive
- ATM withdrawals
- Enterprise login for employees
- Wearables and IoT

ACCURACY	FAR False Accept Rate 1/20,000,000 FRR False Reject Rate 2.1% at first attempt
CROSS PLATFORM	Android, iOS, Mac, Windows, Linux
CAMERA REQUIREMENTS	640x480 RGB camera resolution Palm image must be 250 pixels in diameter
IT'S EASY TO GET STARTED!	An easy to implement SDK enables quick integration into apps Contact us at contact@redrockbiometrics.com to get the SDK and documentation