

DERMALOG

Face Identification

Best in accuracy and speed for face biometrics.

FACE RECOGNITION

Accuracy: 99%

SCANNING TARGET

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Ultimate solution for numerous applications:

- > Border Control
- > Criminal Investigation
- > Mobile Banking
- > ATMs
- > Surveillance
- > ePassport
- > e-Visa
- > eID Cards
- > Visitor Management
- > Access Control
- > Time Attendance

Key Benefit

Fast and highly accurate Face Identification for biometric systems.



DERMALOG Face Identification – Security taken to another level.

Outstanding accuracy, versatility and integratability – DERMALOG provides highspeed matching and security at the same time.

DERMALOG's Face Solution instantly compares facial images from various sources to large image databases, supporting the biometric identification, comparison and verification of individuals. It comes with an easy-to-use interface including a hit list function that presents all possible matches to the user.

As an essential step in the face recognition process, the DERMALOG Face Identification Solution can localize the face within an image and determine the position of the eyes - operating reliable even under varying illumination conditions.

The DERMALOG Face Matching incorporates state-of-the-art technologies. Algorithm optimization has resulted in superior independence from facial variances such as pose, mimic, age variance, different hairstyles, glasses or temporary lighting changes.

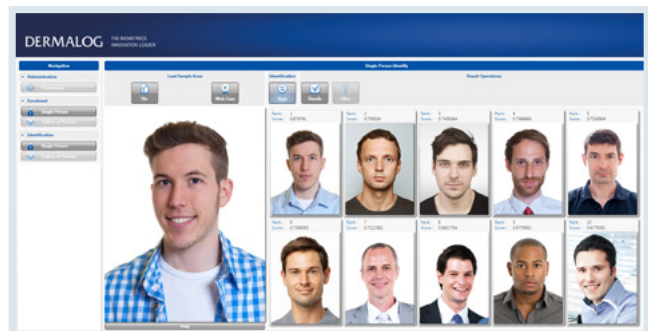
Face biometrics increases the security of monitoring systems, access control, mobile solutions, law enforcement and border control - Face Matching Solutions by DERMALOG are part of border control in the Republic of Maldives, Brunei and Cambodia.

The DERMALOG Face Identification Solution is robust against:

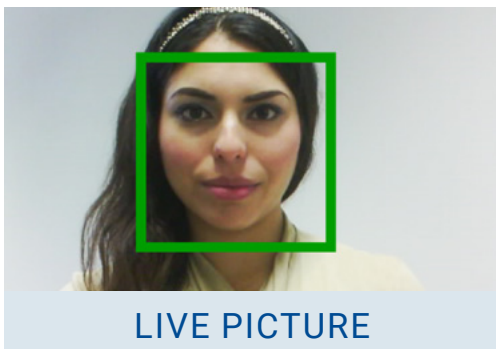


- > Typical gesture changes
- > Pose (+/- 30° (horizontal) +/-15° (vertical) deviation from frontal image)
- > Partial face occlusion
- > Beard and hair style changes
- > Glasses (except reflecting sun glasses)
- > Lighting changes

DERMALOG Face Identification:



The Face Identification Solution presents the most likely matches to the user.



The DERMALOG Face Liveness Detection prevents persons using photographs and masks from getting access.

The DERMALOG Face Identification Software Development Kit.

The DERMALOG Face Software Development Kit offers a set of valuable development tools featuring C, .Net and Java APIs. Example source code, compiled binaries and documentation allows efficient development to build high-performance biometric applications. The component features (licensed separately) can be used for developing different steps of face identification and verification processes.

Certified Quality.

DERMALOG's Face Identification combines high accuracy with extraordinary speed: **171.700.200 matches per second on a single blade.**



Outstanding Features

- > Easy to integrate into ABIS (Automatic Biometric Identification System)
- > Excellent matching performance
- > Combines high speed with a high degree of accuracy
- > High security against spoof attacks
- > The DERMALOG Face Solution supports all common file formats.

Face Identification SDK main components.

DERMALOG Face Detection

Allows finding faces as well as facial landmarks on images.

DERMALOG Face Recognition

Determines biometric sample quality to check suitability for comparison. Generates and stores Facial Identification Records (templates) of facial biometric traits and match (1:1) of biometric trait evidence against one template created by the encoding engine. The configurable threshold can be estimated based on targeted FAR/FRR rates and vice versa.

DERMALOG ICAO Check

Ensures 100 % ICAO (International Civil Aviation Organization) compliance for facial photographs. It checks whether facial images comply to the ICAO 19794-5 standard.

DERMALOG Face Tracking

Allows tracking of faces using an input video stream and determines face tracks based on temporal and spatial neighborhood. It generates unique tracking IDs and delivers subsequent face locations.

DERMALOG Expression

Estimates the gender of a subject. Additionally, it can determine whether a subject is smiling or not.

DERMALOG Liveness Detection

Detects spoof attacks (persons using photographs or masks).

More information:



Request an appointment

Get advice from our skilled sales team
+49(0) 40 413 227-0
info@dermalog.com



Internet

Receive further information on our company website
www.dermalog.com

Head Office

DERMALOG Identification Systems GmbH
Mittelweg 120
20148 Hamburg
Germany

Berlin Office

DERMALOG Identification Systems GmbH
Kronenstraße 1
10117 Berlin
Germany

Dubai Office

DERMALOG FZE
Business Center, Al Shmookh Building
UAQ Free Trade Zone
Umm Al Quwain, U.A.E.

Malaysia Office

DERMALOG AFIS Asia Sdn Bhd
8-4, 8th Floor, Bangunan Malaysia RE
No. 17, Lorong Dungun
Damansara Heights
50490 Kuala Lumpur

Philippines Branch Office

DERMALOG Identification Systems GmbH
7/F Unit B 8 Rockwell
Hidalgo Drive, Rockwell Center
Makati City 1210
Philippines

Singapore Office

DERMALOG Singapore Technical Services Pte. Ltd.
Southbank
883 North Bridge Road, #17-02
198785 Singapore



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