

DERMALOG

Fingerprint Scanner ZF 1

Providing security, efficient and easy operation.



Outstanding Features

- > Additional liveness detection
- > Excellent quality for both wet and dry fingerprints
- > Durable platen glass and a rugged scanner surface

Key Benefits

Capturing fingerprints for numerous documents such as ePassports, eID cards – the ZF1 is a reliable choice of quality in compliance with international standards.

The DERMALOG ZF1 – Fingerprint Biometrics Whenever and Wherever Needed.

Numerous fields of application – always meeting the highest image quality.

The ZF1 captures fingerprints for ePassports, ID cards and can also be used for enrollment, authentication and identification in governmental, commercial and industrial environments. Its variety of application sectors makes the ZF1 scanner a versatile solution for all kinds of biometric business.



Fingerprints

The optical scanner provides a 500 dpi fingerprint image. Due to automated fingerprint optimisation, results are fully applicable even in poor conditions (in case of both wet and dry fingerprints).



Liveness Detection

High security is ensured by the latest liveness detection technology. Exclusive security features detect fake fingerprints or manipulation. (Optional purchase)

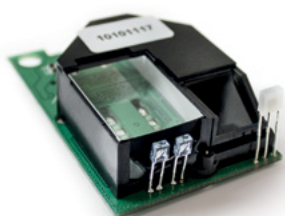


Ease of Use

The device combines usability with easy handling. The self-explanatory ZF1 design guides users in an intuitive way how to put the fingers on the scanner correctly.

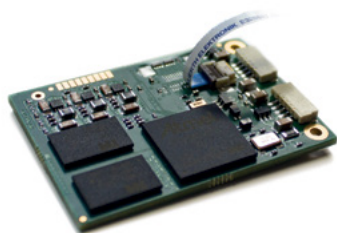
Product Features

- > Excellent quality for both wet and dry fingerprints
- > Robust against disturbing light sources
- > High quality fingerprint images - no reference images required
- > Liveness detection to prevent attacks using fake fingers (optional purchase)
- > Durable platen glass and a rugged scanner surface



OEM Device

DERMALOG's ZF1 design offers all benefits of flexible and easy integration into OEM parts. It enables a wide range of applications while delivering images of highest quality.



Embedded Board

The ZF1 can optionally be supplemented with the embedded board. This ensures support for fingerprint scanning with DERMALOG scanners even on low performance platforms such as POS devices. The embedded board provides the necessary computing power for fingerprint capturing, coding and matching at the cost of a little increment in power consumption.



Certified Image Quality

The German Federal Office for Information Security has certified the DERMALOG ZF1 fingerprint scanner according to the BSI-TR-03104 standard since it is used for storing fingerprint information in German ePassports. The ZF1 furthermore meets the criteria of the AFIS Image Quality Standard PIV.

Specifications Fingerprint Scanner ZF1

Technical Features

Fingerprint scanning window size	25 mm x 18 mm
Optical scanning area	24.4 mm x 16.3 mm
Image resolution	480 x 320 pixels, 500 dpi
Bit depth	8 bit, 256 gray levels
Raw fingerprint image file size	Approx. 160 kByte
WSQ compressed	Approx. 18 kByte
Interface	USB 2.0 high-speed with 1.8 meters standard USB cable
Dimensions (H x W x D)	60 mm x 83 mm x 49 mm
Weight (including USB cable)	166 g
Operating temperature	-10 °C to +55 °C (14 °F to 131 °F) at a humidity of 20-75% non-condensing
Storage temperature	-10 °C to +60 °C (14 °F to 140 °F) at a humidity of 10-90% non-condensing
Light source	Infrared light-emitting diode (LED)
Supply	DC 4.5-5.5 V / 200 mA (USB powered)
Certifications	CE, BSI-TR-03104, BSI-CC-PP-0062-2010, FBI-PIV, FCC Part 15 Subpart B Class A

SDK Features

NIST quality check	NFIQ 1.0: calculation of the NIST quality from a given image. The quality is calculated in the NRQ range from 1 (good quality) to 5 (bad quality) using the official NIST standard NFIQ 2.0: calculation of the NIST quality from a given image. The quality is calculated in the NRQ range from 100 (good quality) to 0 (bad quality) using the official NIST standard
WSQ compression	FBI-certified
Operating systems	Windows, Linux, Android

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
Regus Gateway Tower
Level 5 - Gateway Tower,
Gen. Roxas Avenue cor. Gen. Aguinaldo Avenue
Araneta Center, Cubao, Quezon City 1109
Philippines

Singapore Office

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



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