

# DERMALOG

## Fingerprint Scanner ZF2

Compact and versatile -  
capturing single rolled or two flat fingerprints



### Outstanding Features

- > Additional liveness detection
- > Capturing of single rolled fingerprints or two flat fingerprints
- > High frame rates: up to 15 FPS

### Key Benefits

A versatile scanner combining clear and accurate imaging of fingerprints with improved ease of operation.

# DERMALOG ZF2 – the Remarkably Compact Optical Fingerprint Scanner

**The smart choice for governments, enterprises and banks - to be used for ePassports, ID cards or forensic purposes**

The DERMALOG ZF2 scanner meets high requirements for applications used in law enforcement and forensics. It also supports transactions performed by banks and enables biometric security at points of sale. It is possible to capture a single rolled fingerprint as well as two flat fingerprints on the surface.



## **Fingerprints**

The optical scanner provides a 500 dpi fingerprint image (FBI Appendix F certification). Due to the automated fingerprint optimization results are fully applicable even in poor conditions (in case of both wet and dry fingerprints).



## **Rolled Fingerprints**

Rolled fingerprints do not set a difficult challenge for the Fingerprint Scanner ZF2. The captured single pictures result into image data ready to use for professional demands.

## Product Features

- > Excellent image data quality for dry fingerprints
- > High quality fingerprint images - no reference images required
- > Liveness detection to prevent attacks using fake fingers (optional purchase)
- > Robust against disturbing light sources
- > Capturing of single rolled fingerprint or two flat fingerprints on the same surface
- > High frame rates: up to 15 FPS in rolled and slap fingerprint scanning



### Liveness Detection

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



### Simultaneous Two Finger Capturing

The ZF2 is able to capture two plain fingerprints at the same time. Meeting high quality image standards, the device contributes to efficiency and time saving within a biometric process.

# Specifications Fingerprint Scanner ZF2

## Technical Features

Fingerprint scanning window size	43 mm x 43 mm
Optical scanning area	40,6 mm x 38,1 mm
Image resolution	800 x 750 pixels, 500 dpi
Bit depth	8 bit, 256 gray levels
Raw fingerprint image file size	Approx. 600 kByte
WSQ compressed	Approx. 70 kByte
Interface	USB 2.0 high-speed with 1.8 meters standard USB cable
Dimensions (H x W x D)	53 mm x 105 mm x 105 mm
Weight (including USB cable)	463 g
Ingress protection	IP54
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 voltage	DC 4.5-5.5 V (USB-powered)
Power consumption	5 V/300 mA
Certificates	CE, FBI-PIV, FBI-EBTS/F, FCC Part 15 Subpart B Class B

## SDK Features

Twoprint segmentation	Separation of single fingerprint segments from a fourprint (CAPI and .NET) image
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

### 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, 8<sup>th</sup> 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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