

DERMALOG

Fingerprint Scanner LF 1

Biometric identification for a mobile age.



Outstanding Features

- > Excellent quality for both wet and dry fingerprints
- > Very small dimensions and a weight of only 14 g

Key Benefits

The LF1 is one of the world's smallest optical fingerprint scanner with dimensions of only 29.4 mm x 43.4 mm x 13.7 mm.

DERMALOG LF1 – Outstanding Biometric Technology in a Compact Design.

One of the world's smallest fingerprint scanners – space saving and lightweight. Fast, accurate and easy to integrate.

Its uniquely compact size and outstanding technical characteristics make the DERMALOG LF1 extremely versatile. Whether for mobile or stationary biometric identification – the LF1 opens the door to numerous fields of application: access control, time tracking, POS terminals, ID cards, ATMs, printers, safes, door locks or portable devices.



Fingerprints

The optical scanner provides a 500 dpi fingerprint image (PIV certified). The automated fingerprint optimization enhances the result even in case of poor conditions (wet and dry fingerprints).



Liveness Detection

Highest security will be ensured by using the latest liveness detection technology. Exclusive security features detect fake fingerprints or manipulation.

Product Features

- > Excellent quality for both wet and dry fingerprints
- > Robust against disturbing light sources
- > Small dimensions of only 29.4 mm x 43.4 mm x 13.7 mm
- > Flexible and easy integration as OEM devices
- > Weight only 14 g
- > No initialization required - for fast capturing
- > High quality fingerprint images – no reference images required



OEM Device

DERMALOG's LF1 design offers all benefits of flexible and easy integration into OEM equipment. It enables a wide range of applications while delivering images of the highest quality.



Embedded Board

The LF1 can optionally be supplemented with the embedded board. This ensures support for fingerprint scanning with DERMALOG fingerprint scanners even on low performance platforms such as POS devices. The embedded board provides the necessary computing power for fingerprint capturing, coding and matching for the cost of a little increment in power consumption.

Specifications Fingerprint Scanner LF1

Technical Features

Fingerprint scanning window size	18 mm × 17 mm
Optical scanning area	17 mm × 13 mm
Image resolution	332 × 256 pixels, 500 dpi
Bit Depth	8 bit, 256 gray levels
Raw fingerprint image file size	Approx. 85 kByte
WSQ compressed	Approx. 10 kByte
Interface	USB 2.0 high-speed, with wire-to-board or FFC connector options
Dimensions (H × W × D)	43.4 mm × 29.4 mm × 13.7 mm
Weight	14 g
Operating temperature	0 °C to +40 °C (32 °F to 104 °F) at a humidity of 10 % to 90 % non condensing
Storage temperature	-20 °C to +70 °C (-4 °F to 158 °F) at a humidity of 5 % to 95 % non condensing
Light source	Infrared light-emitting diode (LED) + green
Supply	DC 4.75 - 5.25 V (USB-powered)
Current consumption (operating)	230 mA typ. / 300 mA max.
Current consumption (standby)	1 mA max.
Ingress protection	IP54 (top side)
Certificatios	CE, FBI-PIV

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

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