

DERMALOG

Fingerprint Scanner TF 1

Next level of miniaturization in biometrics.



Outstanding Features

- > High-resolution fingerprints
- > Small dimensions
- > Rugged construction
- > Easy to integrate

DERMALOG TF1 – Successful entry into biometric identification.

High-quality fingerprints in a small compass.

With its TF1 DERMALOG offers fingerprint recognition in a whole new dimension. The device is not only extremely small and durable, but also easy to integrate. This makes it easier for various industries to get started with biometric identification.



Secure fingerprint identification

The TF1 is an innovative compact and thin optical fingerprint scanner with integrated backlight. The scanning area is 18 x 12.8 mm and can capture a complete fingerprint image with just one touch. The scanner delivers high-quality images with a resolution of 360 x 256 pixels at 508 dpi.



Space-saving design

With dimensions of only 41.3 x 27.3 x 7.3 mm, the TF1 is one of the smallest single-fingerprint scanners available. Nevertheless, the device meets all the necessary standards for reliable and safe use in the public and the private sector.



TF1 enables match on card

In cooperation with Identos, DERMALOG has developed the first mobile match-on-card device based on Tactivo technology. Connected via micro USB it can be connected to a variety of Android smartphones. A version with Lightning connector for iOS is also planned.

Small dimensions, great benefits.



Smartphones

The TF1 transforms any smartphone into a mobile registration and identification station. For this it is simply connected via USB with the respective device.



Notebooks

Secure Login is just a five-finger exercise for the TF1. Combined with DERMALOG's powerful Automatic Fingerprint Identification System (AFIS), the device revolutionizes password management for entire companies.



Peripherals

With the TF1 mouse and keyboard become practical identification tools. The scanner can be integrated into numerous peripheral devices regardless of the manufacturer.



Automotive

Especially for vehicles the TF1 offers a wide range of applications. These include unlocking and starting the car by fingerprint recognition as well as biometric access to applications such as navigation and multimedia systems.



Tablets

IT managers often classify mobile devices as critical to security. That's why the TF1 can also be integrated into tablets. With its reliable fingerprint recognition, it provides effective protection for sensitive data.



Access Control

Access control is even easier with the TF1. Due to its small dimensions, the device can be integrated directly into door locks. Separate scan terminals become superfluous.



Safe Storage

For decades, important documents and valuables have been protected with multi-digit codes. It is time to replace this process with a more timely and secure solution. The TF1 is the right choice.



Specifications Fingerprint Scanner TF1

Technical Features

Fingerprint scanning window size	19,3 mm x 13,8 mm
Optical scanning area	18 mm x 12,8 mm
Image resolution	360 x 256 pixels, 508 dpi
Bit Depth	8 bit, 256 gray levels
Raw fingerprint image file size	90 kByte
Interface	USB 2.0 full-speed
Dimensions (H x W x D)	41,34 mm x 27,28 mm x 7,25 mm
Weight (including USB cable)	9 g
Operating temperature	-10 °C to +55 °C at a humidity up to 90%, non condensing
Storage temperature	-40 °C to +60 °C at a humidity 20% to 90%, non condensing
Light source	blue light-emitting diode (LED)
Supply DC	4.75 – 5.25 V (USB-powered)
Current consumption (operating)	70 mA typ. / 120 mA max.
Current consumption (standby)	45 mA max.
Wear-and-tear cycles	1,000,000
Cover hardness	9H
Certifications	CE, FBI-PIV, FBI Mobile ID FAP10

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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