

DERMALOG

Fingerprint Scanner TF60

Compact tenprint scanner
with built-in encryption



Outstanding Features

- > Latest TFT technology
- > Ultra-flat design
- > Encrypted data transmission
- > Ideal for portable use

Fingerprint Scanner TF60 – The Most Compact and Secure Tenprint Scanner from DERMALOG

With the TF60, DERMALOG offers an optical TFT scanner that sets new standards in the field of secure data transmission by encrypting captured data automatically before transferring it to any other device. Compact dimensions and low weight make the solution particularly suitable for portable use.



Encrypted Data Transmission

The TF60 captures fingerprints and automatically encrypts the data for transmission to the PC using state-of-the-art algorithms like AES256 for data transmission and TLS 1.2 for certificate handling. This provides robust protection against attacks such as man-in-the-middle attacks, ensuring the integrity of the data is always maintained.



Compact Dimensions

With compact dimensions of 130 mm × 125 mm × 15 mm and a total weight of only 220 g, the TF60 can be easily integrated into existing applications. In addition, the scanner features a USB power supply and IP65 protection. This makes the TF60 ideal for portable use.



Certified Image Quality (in preparation)

The TF60 provides 500 dpi resolution fingerprint images. The device is based on TFT technology and the capture results are fully usable even under poor conditions (e.g. dry fingers). It also complies with FBI (Appendix F) and BSI (TR-03121) requirements.

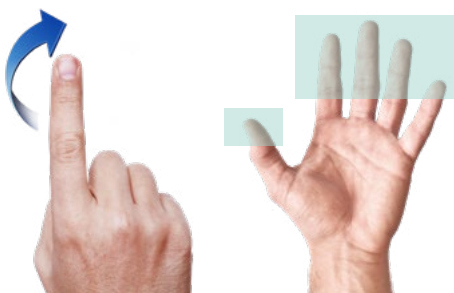
Maximum Security for Enrollment and Identification Processes

- > Hardware security module (HSM) for mutual authentication
- > Signature and end-to-end encryption of captured data
- > Ensuring the highest security standards (CC EAL6+)



Integrated Liveness Detection

DERMALOG's state-of-the-art liveness detection technology provides the highest level of fraud protection for fingerprint recognition. The technology, developed by DERMALOG, reliably detects fake or manipulated fingerprints to prevent identity fraud effectively.



Versatile Capture Options

In addition to flat single fingerprints and tenprints (4-4-2), the TF60 can capture rolled fingerprints, which are often required in law enforcement applications. The device captures multiple frames and combines them into a single high-quality image for further forensic processing.



Document Capture

The Fingerprint Scanner TF60 combines two modalities in one device: capturing flat or rolled fingerprints and scanning documents in ID-1 format. This means that ID cards, driver's licenses or barcodes can be captured fast and conveniently with the device.

Specifications Fingerprint Scanner TF60

Technical Features

Capture Area	Flat fingerprints: 81 mm × 76 mm (3.2" × 3.0") Rolled fingerprints: 81 mm × 38.1 mm (3.2" × 1.5")
Image Resolution	Flat fingerprints: 1600 px × 1500 px at 500 dpi Rolled fingerprints: 1600 px × 750 px at 500 dpi
User Guidance	LED indicator for each finger, acoustic feedback
Interface	USB-C No external power supply Encrypted communication Mutual authentication
Dimensions	130 mm × 125 mm × 15 mm (5.1" × 4.9" × 0.6")
Weight	220 g (0.49 lbs)
Operating Temperature	0 °C to 50 °C at a humidity of 5 % to 95 % (non-condensing)
Storage Temperature	0 °C to 50 °C at a humidity of 5 % to 95 % (non-condensing)
Light Source	Blue background lighting
Power Supply	USB-C
Ingress Protection	IP54 and IP65 (optional)
Certifications	CE* FBI EFTS/F* BSI-TR-03121*
Operating Systems	Windows Linux Android

* In progress

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