DERMALOG

Fingerprint Scanner **LF10**

Unchallenged speed, reliability and image quality

Federal Office
for Information Security

Certificate
according to Technical Guidelines of BSI

BSI-TR-03104

Certificate-ID:
BSI-K-TR-0127-2012

Outstanding Features

> Additional liveness detection
> Signature capturing
> Excellent results for dry fingerprints
> Capturing of plain tenprints, singleprints & rolled fingerprints

Key Benefit

The first tenprint and rolled fingerprint scanner providing integrated liveness detection.

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High-quality Fingerprint and Signature Images with DERMALOG's LF10

A comprehensive solution for biometric tasks – Made in Germany

The DERMALOG LF10 is the first tenprint and rolled fingerprint scanner providing liveness detection. With its large scanning area the LF10 is optimized for creating high quality images. Its advanced optical system is able to capture plain fingerprint images and rolled fingerprints is able to capture second, making the LF10 a comprehensive biometric solution for border management, voter registration or law enforcement.

Fingerprints

The optical scanner provides a 500 dpi fingerprint image (FBI EBTS Appendix F certification). Because of the automated fingerprint results will be fully applicable even in case of poor conditions (dry fingerprints).

Rolled Fingerprints

Capturing rolled fingerprints is a process that is mainly applied during criminal investigations and does not set a difficult challenge for the LF10. The captured single pictures result in image data ready to use for professional demands. The scanner has marked areas for rolled fingers.
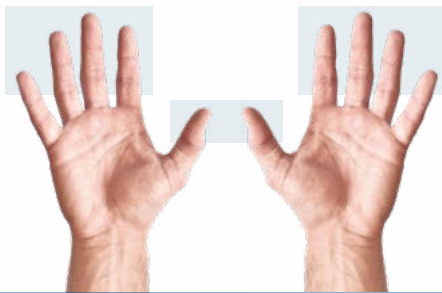
Liveness Detection

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

Product Features

> Excellent results for dry fingerprints

> Robust against interfering light sources

> High quality fingerprint images - no reference images required

> Liveness detection to prevent attacks using fake fingers (optional purchase)

> Signature capturing

> Automatic fingerprint segmentation module

> Dimensions of 163 mm x 120 mm x 238 mm

> Capturing of plain tenprints, singleprints & rolled fingerprints

Ten Fingerprint Capturing

The LF10 provides a feature to collect an individual's ten fingerprints by using the 4-4-2 method. Ensuring crystal-clear images, the device delivers excellent data quality for further processing. More combinations are possible, such as 4-2-4 and 2-4-4.

Signature Pad

By using a touch pen, available as a separate accessory, it is possible to capture signatures on the DERMALOG LF10 scan surface.

Certified Image Quality

The German Federal Office for Information Security (BSI) has certified the DERMALOG LF10 fingerprint scanner according to the "BSI-TR-03104" standard since. The LF10 stores fingerprint information in German ePassports. The LF10 furthermore meets the criteria of AFIS Image Quality Standard Appendix F.

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Specifications **Fingerprint** Scanner **LF10**

Technical Features

Fingerprint scanning window size	86 mm × 84 mm
Optical scanning area	81 mm × 81 mm
Image resolution	1600 × 1600 pixels, 500 dpi
Bit depth	8 bit, 256 gray levels
Raw fingerprint image file size WSQ compressed	Approx. 2.5 MB Approx. 0.4 MB
Interface	USB 2.0 high-speed with 1.8 meters standard USB cable
Dimensions (H × W × D)	120 mm × 163 mm × 238 mm
Weight (including USB cable)	2.3 kg
Operating temperature	0 °C to 50 °C at a humidity of 5-95 % non-condensing
Storage temperature	0 °C to 50 °C at a humidity of 5-95 % non-condensing
Light source	Infrared light-emitting diodes (LED)
Supply	External AC adapter with 1.8 m cable, 100-240 V, 50/60 Hz, 0.6 A
Certifications	CE, BSI-TR-03104, BSI-CC-PP-0062-2010, FBI-EBTS/F

SDK Features

Fourprint 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

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