



TOUCHLESS FOUR FINGERPRINT (T4F) SCANNER for access control, border control and secure authentication

TOUCHLESS SCANNING

Having hundreds of people touch a scanner raises hygienic concerns. In times of the pandemic, the problem of spreading viruses via surfaces has gained enormous attention.

AIT's hygienic solution: The new touchless-four-finger (T4F) scanner uses a camera to take images of four fingers at once. The software determines the characteristic features (minutiae) for matching.

Fingerprints taken by the AIT T4F scanner can be matched to references in a database comprising fingerprints taken by a flat-bed scanner. Thus, there is no change needed in the authentication and verification processes.

Another important advantage of touchless scanning is that there cannot be latent fingerprints left on the scanner.

Finally, thanks to 3D views, touchless scanning makes presentation attacks much more complex, costly and difficult to perform as compared to flat-bed scanners.

BENEFITS



Hygienic operation reduces risk of infections



No latent fingerprints, no identity theft



Camera-based acquision hampers spoofing

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The AIT T4F scanner is a module comprising embedded electronics and optics. It comes with embedded software for fingerprint acquisition and storage in standard format. Any matching software can be combined.

TECHNICAL SPECIFICATIONS

Capturing	Four fingerprints simultaneously (left or right hand)
Capture time	Between 1 and 5 seconds
Output	Grayscale raw images, scaled to 500 DPI
Dimensions	Various sizes possible
Capture distance	120 – 180 mm
Power	12 V / 1 A for LED's DC
Interface	USB 3.0, ISB2.0
Sensor	6 megapixels
Operating system	Ubuntu 16.04 LTS

MORE HIGHLIGHTS

- Contactless operation means higher user convenience
- Copes with wet and dry fingers
- Fully compatible with contact-based fingerprints
- Automatic identification of right or left hand
- Auto-detection and starting the capture process when an object is moved to the detection area

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Touchless-for-finger scanner webpage: <u>https://touchless4f.eu/</u>

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