

Thales Multifinger Scanner CS500f



Identity & Biometric Solutions

The Thales Multifinger Scanner CS500f is a compact 10-print Live Scan offering a superior fast acquisition speed and USB 3.0 technology.

It's compact and FBI app. F certified 10-print Live Scan in full compliance with the "10-print capture scanner & software user group requirements" suitable for all applications in need of 4-slaps and rolled acquisition. Main applications are eID document issuing in enrollment for Foundational ID cases for examples.

FBI APP. F Certified

The Thales Multifinger Scanner CS500f is a 3.2" x 3.0" 10- prints and rolls Live Scan at 500 dpi certified by the FBI according to FBI IAFIS IQS App. F. as Live Scan system ,as well as for flat prints.

10-Prints and Rolled Acquisitions

The Thales Multifinger Scanner CS500f is unique in terms of acquisition speed. Its ergonomic design combined with an easy-to-integrate SDK architecture makes it the perfect choice for system integrators and solution providers.

Multiscan SDK Features

- **AUTOMATIC SEQUENCE CHECKING:** guarantees a correct scanning sequence.
- **ROLLED FINGERPRINT CAPTURING:** displays in real-time, self-adaptive to rolling speed and directions, seamless composite image generation, automatic stop detection.
- **SEGMENTATION:** automatic segmentation of four- slap and two thumbs fingerprint images in single flat images.
- **CORRECT POSITION AND SLAP COMPLETENESS CHECK:** Checks for correct finger placing; checks for incomplete slaps due to missing fingers.
- **SLIDE DETECTION FOR FLAT PRINTS:** detects deformations of fingerprints due to sliding during acquisition.
- **STANDARD OUTPUT FORMAT:** Creation of "ANSI/NIST-ITL-1-2007/2011" type 1, 2, 4 and 14 records - EFTS71 output format support.
- **ELIMINATION OF LATENT PRINTS:** elimination of latent prints originated from recent scans.
- **AUTOMATIC ACQUISITION START AND STOP:** sensing of finger placement and automatic acquisition of the image with the highest quality. Quality thresholds for images can be set through the Multiscan SDK.
- **HALO ELIMINATION:** elimination of halo due to moist fingerprints during acquisition.
- **IMAGE QUALITY CHECKING:** dynamic estimation of fingerprint image quality during scanning process; NISTIR7151 quality check.
- **IMAGE COMPRESSION:** FBI certified WSQ compression; further compression formats available are jpeg and jpeg2000.

A user interface based on twelve 3-color leds facilitates the acquisition procedure by indicating the fingerprint(s) to be acquired and providing quality feedback, thus eliminating the necessity for skilled operators and therefore increasing workflow efficiency.

Designed with a small footprint, it can be used in a desktop setting or integrated into other systems like kiosks. The scanner is provided with a useful handle to improve the scanner handling in case of mobile installations.

Spoofing and Liveness Detection

Thales Multifinger Scanner CS500f integrates a software solution detecting fake fingers made with various different materials. LFD add-on can be used on existing Thales Multifinger Scanner CS500f as well as on new installations.

Technical Data

ACTIVE SCANNING WINDOW	<ul style="list-style-type: none"> • Flat four fingers up to 3,2" x 3,0" • Two flat thumbs up to 3,2" x 3,0" • Rolled finger up to 1,6" x 1,6" - 500 dpi
SCRATCH RESISTANT SURFACE	At least 6H hardness
INTERFACE	USB 3.0
IMAGE QUALITY AND FORMATS	<ul style="list-style-type: none"> • FBI IAFIS IQS Appendix F & Mobile ID FAP60 certified • ANSI/NIST-ITL 1-2007/2011 ISO/IEC FCD 19794-4 • AANSI/NIST-ITL 1-2000, ANSI/NSI/NIST-ITL 1-2000 Interpol Implementation
TEMPERATURE	<ul style="list-style-type: none"> • Storage: from -20°C to +60°C • Operating: from +0°C to +50°C
HUMIDITY	<ul style="list-style-type: none"> • From 10 to 90% (non-condensing) • IP RATING IP54
DIMENSIONS	151 mm x 148 mm x 102 mm
WEIGHT	1,5 Kg
SUPPORTED OPERATING SYSTEMS	<ul style="list-style-type: none"> • Microsoft Windows® up to Win11 64-bit configuration • Linux Ubuntu and Fedora distributions in 32-bit and 64-bit configuration • Android
CERTIFICATIONS	CE, FCC, RoHS, CB, USB-IF
OPTIONS	<ul style="list-style-type: none"> • Silicone Membrane