Thales Multifinger Scanner DactyScan84c

Identity & Biometric Solutions

The Thales Multifinger Scanner DactyScan84c is a 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 e-id document issuing and criminal identification.

FBI APP. F Certified

The Thales Multifinger Scanner DactyScan84c is a 3.2" x 3.0" 10-prints and rolled prints 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 fingerprints

10-Prints and Rolled Acquisitions

With up to 27 frames per second for 4-slaps and up to 25 frames per second for rolled prints acquisition, the Thales Multifinger Scanner DactyScan84c is unique in terms of acquisition speed. An ergonomic design combined with an easy-to-integrate SDK architecture makes the Thales Multifinger Scanner DactyScan84c the perfect choice for system integrators and solution providers.

The device is also Certified by BixeLab for MOSIP as per MOSIP Advanced Compliance Program (MACP)".

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 12 three 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. Two versions are available:

Standard Top   Flat Top

The Thales Multifinger Scanner DactyScan84c is available as an OEM module for all system integrators looking for a compact 10-print Live Scan to be physically integrated in embedded solutions.

Technical Data

ACTIVE SCANNING WINDOW	• 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 2.0
IMAGE QUALITY AND FORMATS	• FBI IAFIS IQS Appendix F & Mobile ID FAP60 certified • ANSI/NIST-ITL 1-2007/2011 ISO/IEC FCD 19794-4 • ANSI/NIST-ITL 1-2000 • ANSI/NIST-ITL 1-2000 Interpol Implementation
TEMPERATURE	Storage: from -20°C to +60°C • Operating: from +0°C to +50°C
HUMIDITY	From 10 to 90% (non-condensing) • IP Rating: IP54
DIMENSIONS	Standard top version: 148x152x148mm • Flat top version: 148x152x121mm
WEIGHT	1,4 Kg
SUPPORTED OPERATING SYSTEMS	• 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, KCC, USB-IF and MOSIP
OPTIONS	Silicone Membrane

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