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Thales Cogent
Multifinger Scanner DactyScan84c

The Cogent Multifinger Scanner DactyScan84c is a compact and FBI app. F certified 10-print livescan 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 Cogent Multifinger Scanner DactyScan84c is a 3.2" x 3.0" 10-prints and rolls Livescan at 500 dpi certified by the FBI according to FBI IAFIS IQS App. F. as Livescan System as well as for Identification Flats.

10-Prints and Rolled Acquisition

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

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.

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

Spoofing and Liveness Detection

As optional module, Cogent Multifinger Scanner DactyScan84c can be upgraded with a leading edge SW solution detecting fake fingers made with various different materials. GB_FFD add-on can be used on existing Cogent Multifinger Scanner DactyScan84c as well as on new installations.

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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.

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
INTERFACE	USB 2.0
IMAGE QUALITY AND FORMATS	FBI IAFIS IQS Appendix F (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)
DIMENSIONS	Standard Top Version: 148 x 152 x 148 mm Flat Top Version: 148 x 152 x 121 mm
WEIGHT	1,4 Kg
SUPPORTED OPERATING SYSTEMS	Microsoft Windows up to Win10 in 32-bit and 64-bit configuration Linux Ubuntu and Fedora distributions in 32-bit and 64-bit configuration Android
CERTIFICATIONS	CE, FCC, RoHS, KCC
OPTIONS	DactyMatch SW Thales Cogent Finger Liveness Detection Solution