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Thales Cogent
Dual Finger Scanner DactyScan40i

The Cogent Dual Finger Scanner DactyScan40i is a compact FBI certified fingerprint scanner integrating a 12 3-color led based graphical user interface to facilitate the acquisition process. It can be used in a wide range of applications where dual, rolled and flat fingerprint acquisition is required:

Civil identification, e-id documents issuing, border control and other public authority related applications.

Compact Dimensions

The Cogent Dual Finger Scanner DactyScan40i is a compact single dual and rolled fingerprint scanner compliant to international image quality standards thus suitable for integration in a wide range of Government-ID related applications.

Small dimensions and low power consumption guarantee for matchless mobility and portability.

High image quality is guaranteed as the Cogent Dual Finger Scanner DactyScan40i is FBI FAP 45 and PIV certified. Unique features make the DatcyScan40i very easy-to-use for operators regardless of their skill level.

The Cogent Dual Finger Scanner DactyScan40i is efficiently protected against environmental influences in order to increase reliability and reduce maintenance costs.

User Interface Facilitating Fingerprint Acquisition

The Cogent Dual Finger Scanner DactyScan40i integrates a graphical user interface, composed by hand pictograms and 12 three color leds indicating the scanning sequence and providing quality feedback for every scanned fingerprint rendering fingerprint acquisition as simple as possible.

FBI FAP 45 and PIV Certified

The Cogent Dual Finger Scanner DactyScan40i represents the best choice for any application requiring flat/dual and rolled fingerprint acquisition compliant with ANSI/NIST standards, high acquisition speed and mobility.

Possible applications are e-ID documents and e-passport issuing, on-the-road identification, border control and monetics.

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Spoofing and Liveness Detection

As optional module, Cogent Dual Finger Scanner DactyScan40i 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 Dual Finger Scanner DactyScan40i as well as on new installations.

Multiscan SDK Features

- 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.

- ROLLED FINGERPRINT CAPTURING: self adaptive to rolling speed and direction.

- IMAGE QUALITY CHECKING: dynamic estimation of fingerprint image quality during scanning process.

- CORRECT POSITION AND SLAP COMPLETENESS CHECK: checks for correct finger placing; checks for incomplete slaps due to missing fingers.

- ELIMINATION OF LATENT PRINTS: elimination of latent prints originating from recent scans.

- ARTEFACTS DETECTION FOR ROLLED FINGERPRINTS: controls for correct rolling of prints indicating artefact areas compromising the fingerprint image.

- AUTOMATIC DIAGNOSTIC: automatic hardware and software checking.

- IMAGE COMPRESSION: FBI certified WSQ compression; further compression formats available are jpeg and jpeg2000.

Technical Data

ACTIVE SCANNING WINDOW	1.6" x 1.6", 500 dpi Dual flat finger and single rolled finger
INTERFACE	USB 2.0
IMAGE QUALITY AND FORMATS	FBI IAFIS IQS Appendix F (FAP 45), FBI-PIV 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	85,5 x 124 x 80 mm
WEIGHT	500 gr.
SUPPORTED OPERATING SYSTEMS	Microsoft Windows up to Win10 in 32-bit and 64-bit configuration Linux and Android
CERTIFICATIONS	CE, FCC, RoHS
OPTIONS	DactyMatch SW Thales Cogent Finger Liveness Detection Solution

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