BIO7PLUS
4-4-2 TEN FINGERPRINT SCANNER

The Bio7PLUS scanner is a compact, FBI applicationcertified 10 fingerprint live scanner that is fully compliant with the "10 fingerprint capture scanner and software user group requirements" for all applications requiring 4-tap and roll capture. The main applications are electronic identification document issuance and criminal identification.

FBI APP. F Certifed

The Bio7PLUS is a 3.2″ x 3.0″ 10-prints and rolls Livescan at 500 dpi certifed by the FBI according to FBI IAFIS IQS App. F. as Live scan System as well as for Identifcation Flats.

10-Prints and RolledAcquisition

The Bio7 PLUS is unique in terms of acquisition speed. An ergonomic design combined with an easy-to-integrate SDK architecture makes the Bio7 PLUS 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 fngerprint(s) to be acquired and providing quality feedback thus eliminating the necessity for skilled operators and therefore increasing workfow effciency.

Spoofing and Liveness Detection

As optional module, Bio7 PLUS can be upgraded with a leading solution detecting fake fingers made with various different materials. LFD add-on can be used on existing Bio7 PLUS as well as on new installations.

Multiscan SDK Features

AUTOMATIC SEQUENCE CHECKING:	guarantees a correct scanning sequence.
ROLLED FINGERPRINT CAPTURING:	Real-time display with adaptive rolling speed and direction Seamless composite image generation with automatic stop Detection.
SEGMENTATION:	Automatic segmentation of fingerprint images of four palms and two thumbs in a single flat image
CORRECT POSITION AND SLAP COMPLETENESSCHECK:	Check for correct finger placement; check for incomplete taps due to missing fingers.

SLIDE DETECTION FOR FLAT PRINTS:	Detection Fingerprint distortion due to sliding during acquisition.Deformation of the acquisition.
STANDARD OUTPUT FORMAT:	Create records of "ANSI/ NIST-ITL-1-2007/2011" types 1, 2, 4 and 14 records-EFTS71 output format.
ELIMINATION OF LATENT PRINTS:	Elimination of latent prints originated from recent scans.
AUTOMATIC ACQUISITION START AND STOP:	sensing of fnger placement and automatic acquisitionof the image with thehighest quality. Quality thresholdsfor 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 fngerprint image quality during scanning process; NISTIR7151 quality check.
IMAGE COMPRESSION:	FBI certifed 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) & Mobile ID Appendix F 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
DIMENSIONS	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