

PRODUCTS

D SCAN[®] Master

Document Authentication Software

*Comprehensive Document Inspection
for e-Passports, Visas and ID Cards*



Application Environments:

- Border Control
- Airports
- Rental Car Companies
- Banks
- Hotels
- Mobile Communications
- Self Service Terminals
e.g. Airline Check-In Kiosks
- Quality Control at Document
Manufacturers

D SCAN[®] Master software enables Authenticator document scanners to scan and verify the authenticity of ID cards and credentials. The software provides the routines necessary to process optical images, access RFID information and perform OCR and cryptographic functions, as well as other document inspection workflows.

The D SCAN Authenticator document readers scan ID1, ID2 and ID3 document formats, including oversized documents with protective covers, to verify the authenticity of ID cards and other credentials.

The scanners have RFID reader modules to access data stored in electronic passports, ID cards and other RFID-enabled documents.

Authenticator CF is a one-step document scanner that performs optical as well as RFID read processes.

The full-page reader enables users to scan documents in a single step — without repositioning the document being scanned.

Features

- Workflow component for document inspection, optical and RFID processing, controlled by a document database
- Generic expandable document database for inspection and reading of ICAO Doc 9303-compliant ID and travel documents with or without RFID chip, including MRZ check digits verification, and UV paper reaction checks
- Integrated cryptography functionality for reading the chips embedded in electronic ID and travel documents
- Support for special security feature inspection, including 1D and 2D barcodes, hidden images or other digital watermarking

Functions

- OCR extraction of the Machine Readable Zone (MRZ) of a document
- Reviewing of checksums in the MRZ according to ICAO Doc 9303
- Cryptographic functionality for access to the data stored on chips with Passive Authentication (PA), Basic Access Control (BAC), Active Authentication (AA), and Extended Access Control (EAC) according to ICAO Doc 9303 Vol2 Sixt Edition, Supplement LDS 1.7, BSI-TR-03105 Part 5.1, Version 1.2, 2009.09.11, Layer 6
- Document definition dependent extraction of textual data from the Visual Inspection Zone (VIZ) of a document

- Document definition dependent comparison of data between MRZ and data in VIZ, RFID and barcodes
- Ability to read non ICAO-compliant fonts based on appropriate document definitions
- Ability to check security features that are different under different light sources
- Checking of patterns under every standard light source (IR, UV, White) if trained
- Confirming the UV paper reaction as required in ICAO Doc 9303
- Optional extraction of common 1D and 2D barcodes (PDF 417)
- Standard Document Definition Template allows to read MRZ and RFID data for all ICAO Doc 9303 compliant documents
- Additional data to read and additional security checks can be trained in on request
- Specific versions of ICAO documents and non ICAO documents such as driver's licenses can also be trained into the template database on request
- SDK available to integrate the D SCAN Master workflow component in applications, such as border control or quality inspections
- Ability to display the scanned images for visual inspection by the operator through SDK
- Available as runtime and SDK licenses

System Requirements

- USB 2.0 interface
- Processor: Intel, Celeron or AMD CPU with SSE 2 instruction set with min. 3 GHz
- 2 GB RAM
- 200 MB free Hard Disk Space
- Operating System: Microsoft® Windows™ XP 32 bit SP3, Microsoft® Windows™ 7 32 bit & 64 bit in WoW SP1
- Microsoft® .NET Framework 3.5
- D SCAN® Essentials 1.7.0 or higher

Benefits

- Scan and process ICAO and non-ICAO documents depending on the document database used
- Use the SDK to access images, scanned OCR data and RFID data gathered during security feature checks
- Implement Passive and Active Authentication and Basic and Extended Access Control protocols
- ICAO Doc 9303 default document definition
- Document- and customer-specific definitions on request
- Interoperability: D SCAN Master-powered readers achieved 100% interoperability ratings at the ICAO Interoperability Tests in Japan, Singapore, and Germany

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