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security



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Authenticator - Passport & Document Verifier

Increasing tourist traffic and the resulting safety requirements require efficient and safe border controls. A comprehensive check of the entire cross-border traffic is only possible with the assistance of modern technology.

The Authenticator 200 model comes with an embedded PC whilst the 100 model required connection to a PC or network.

Applications

- ▶ Identification of forged and invalid passports, identity cards, and driving licences;
- ▶ Verify Banknotes, Credit and Debit Cards;
- ▶ Identify your clients – know who you are dealing with.



Authenticator 100

Features

- ▶ High resolution 400 PPI full colour image reader;
- ▶ White light, IR, UV image capture;
- ▶ Fully ICAO/ISO standard compliant integrated RFID reader;
- ▶ Checking of Kinegram and other OVD security feature checking;
- ▶ High speed USB 2.0 interface (Authenticator 100);
- ▶ Integrated terminal server or integration into biometric systems and networks;
- ▶ No moving parts;
- ▶ Analysis of embedded biometrics;
- ▶ Robust steel housing.



Authenticator 200 with embedded PC.

The Authenticator ensures a fast and comfortable acquisition and transmission of personal and document data to a connected tracing system. Furthermore it independently inspects document specific security features. Its web-based software architecture allows an easy update of the internal document definitions and analysis software.

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Authenticator - Passport & Document Verifier

With the Authenticator 200 the inspection results are instantly displayed on the connected TFT display. An intuitive user interface allows the user to access details for each of the results. The system is conveniently operated via a standard keyboard and a mouse including comfortable functions for comprehensive document inspection.

The Authenticator line of modern full page ID document readers is the optimum base for building efficient and reliable systems in the border check point environment. The Authenticator model is the newest member in this line and provides high speed data capture and transmission to any standard Windows XP computer as well as all the powerful and sophisticated features for checking the optical security features on today's high tech passports. This includes special optically variable device (OVD) features, as well as analog and digital watermarks of various types.

Due to proven compliance with ISO standards and excellent results in recent RFID interoperability tests the Authenticator readers are best suited for systems solutions that work with the new electronic passports containing contact-less memory chips. RFID and optical data is read within a few seconds and without any operator intervention.

No moving parts ensure maximum reliability.

Integration in existing IT infrastructure

Internal processor: Embedded PC - no modification of existing IT infrastructure is necessary.

Hardware interface: 1 x 10/100Mb Ethernet, 1 x USB-Slave, 2 x USB-Host, 1 x IEEE 1394 (FireWire) for connection of Live Scan fingerprint scanning device or face recognition camera, 1 x RS232, 1 x Parallel, 1 x VGA, 2 x PS/2 (mouse and keyboard)

Protocols: TCP/IP, HTTP, FTP, SOAP. Adjustment to any database, host system and thin client is possible.

Software: Microsoft Internet Explorer 6.0 and Microsoft Windows Terminal Server Client installed. SDK is available for OEMs.



Dimensions

Width: 9.1" (232 mm)
Height: 10.2" (260 mm)
Depth: 14.4" (365 mm)
Weight: 13.2 - 17.6 lbs (6000-8000 g)

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Authenticator 100 Specifications

Main Features

System components: Reader A100, USB 2.0 interface cable, power supply with country specific AC power cord, operating software including USB driver.

Optional components: security checking features (UV, OVD, watermarks), RFID reading features (encryption) – refer to price list with configuration matrix for definition of "standard" vs. "optional" features.

Power supply: AC 100V-240V, 50/60 Hz, auto sensing, via external power supply unit, power on/off switch at the reader.

Power consumption: Max 35 VA.

Reader Functions

Operator interaction: Reader has three status LEDs (red, yellow, green) at both sides plus one DSCAN reading activity status symbol (blue), no buttons, scanning process starts automatically after placing ID document on glass plate

ID Documents: Reads passports, visas, identity cards (according to ICAO 9303) and other ID-1, ID-2 and ID-3 documents, document thickness not limited

Full page scan: Optical scan format 4.96" x 3.66" (126 mm x 93 mm), at 400 ppi, white light images at 24 bit RGB colour, IR and UV light images at 8 bit greyscale, scanning time < 2 seconds for white + IR + UV images

Facial picture scan: Optical scan format 1.85" x 2.48" (47 mm x 63 mm), at 640 ppi, for high resolution watermark checking

RFID scan: Contact-less data read-out of RFID chips (according to ISO 14443 Type-A and Type-B plus applicable ICAO recommendations, LDS 1.7, PKI 1.1), transmission speed 424 and 848 Kbps, supports Basic Access Control (BAC), supports future upgrade of firmware and software (Active Authentication, extended BAC), read-out times depend on RFID tag (typ. 2-5 sec. without BAC, 4-9 sec. with BAC)

OVD scan: Special scan feature for Kinegram and Identigram OVDs

Software: available in three levels for OEMs (DocScan Essentials – basic data access to MRZ/OCR and RFID/encryption), system integrators (DocScan Master – adds document recognition and processing) and end users (DocScan Centre – adds workflow and presentation/GUI).

Operation and environmental conditions

Operating conditions: +50 ... +95°F (+10...+35°C), max. 80% relative humidity, non-condensing, no direct sunlight exposure.

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Authenticator 200 Specifications

Document processing

Processes: Passports, visas, identity cards according to ICAO standard 9303.

Projected: European driver's licenses, various non-ICAO passports and documents, adaptability to all customer specific documents possible.

Document thickness: Unlimited, the document is placed on the reader, no movement of document necessary during reading process.

Illumination: Visible light, IR, UV, KINGEGRAM/OVD (optional)

Recognition of document type: Automatic recognition type, images can be displayed on the screen, high resolution CMOS cameras (440PPI and 640PPI respectively), no moving parts (except for fan).

Guaranteed Recognition Rate: >99.95 % OCR B

Processing time: < 2 seconds, 4 seconds with RFID, automatic start of document recognition process.

Authenticity check, security features

- ▶ Plausibility check of ICAO MRZ (all checksums);
- ▶ Check of IR security features;
- ▶ Check of expiration date;
- ▶ Check if issuing date was a work day;
- ▶ Comparison of the data in the MRZ with the data in the VIZ;
- ▶ Recognition of document paper with UV;
- ▶ Check for forged watermarks with UV;
- ▶ Check of KINGEGRAM®, IDENTIGRAM® and HIDDEN IMAGE;
- ▶ Acquisition of 2D barcodes;
- ▶ RFID;
- ▶ Security certification.

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