

## PRODUCTS

# **D SCAN<sup>®</sup> Authenticator CF**

*Document Authentication Reader*

*Single-step full-page document scanner*



### **Application Environments**

- Border Control
- Airports
- Rental Car Companies
- Banks
- Hotels
- Mobile Communications

Cross Match D SCAN<sup>®</sup> Authenticator CF addresses today's stringent security requirements through modern biometric technology. The compact full-page reader is the newest and smallest member of the award winning Authenticator CF product family. Optimized for use in both large and small environments, the cost-effective scanner enables high-speed data capture from RFID memory chips, such as those used in e-passports, visas and ID cards. The system uses a USB interface to transmit the captured

data for review and validation prior to granting entry to a protected area.

The full-page scanning capability of Authenticator CF makes it ideally suited for high-volume processing scenarios, such as airports and seaports. The optical data of an entire document (up to 5.9" x 7.4") is automatically scanned within a few seconds. To ensure optimal system reliability, Cross Match offers optional features, including high-performance LED UV illumination and D SCAN Master runtime software.

# D SCAN<sup>®</sup> Authenticator CF

## Features

- Full page, single step reader: captures images of the entire data page of an ID document
- Extra-large ID-3 format optical scanning area allows inspection of documents without removing protective covers
- Optical and RFID inspection without moving the document
- High resolution 475 ppi reader handles PDF417 documents
- Glare reduction improves readability
- Best ergonomics: horizontal flat scanning position similar to common flat bed scanners
- Level document support prevents document bending
- Integrated reader: Three status LEDs, volume adjustable buzzer
- Contact SmartCard reader for maximum application comfort
- Standards compliance: Authenticator readers have successfully read all presented passports at the ICAO Interoperability Tests in Japan (2005), Singapore (2005), and Germany (2006)
- Easy integration: ideal for desktop, portable, and kiosk use

## Benefits

- Compact scanning device with an extra-large ID-3 optical area
- Flat, crosswise, level document support
- Integrated RFID reader for e-passports, visas and ID cards
- Includes common illuminations (White light, IR, UV (optional), coaxial (limited availability))

- ISO and ICAO standards-compliant, supports Basic Access Control, Active and Passive Authentication, and Extended Access Control
- Durable, lightweight and inexpensive document reading system
- High MTBF due to modern LED technology and no moving parts

## Specifications

### Document support field size:

5.9" x 7.4" (151 mm x 189 mm), document thickness is unlimited

**Optical scan format:** active size 5.3"x 3.9" (135 mm x 100 mm)

**Image format:** 2528 x 1888 pixels  
Scale factor 475 ppi

**Sensor:** 5 MPixel, CMOS, RGB 24bit color system

**Illumination:** white, IR, UV (optional), coaxial (not available in all markets)

- Images: white and UV 24 bit RGB color, IR 8 bit grayscale, scanning time approx. two seconds for all images combined
- PC Interface: USB 2.0 high speed
- RFID chip access: according to ISO 14443 Type-A and Type-B plus applicable ICAO recommendations in ICAO Doc 9303 including supplement, LDS 1.7, PKI 1.1
- RFID speed: all standardized rates, up to 848 Kbps, read-out times depend on RFID tag, operating system, and amount of data stored in the chip

## D SCAN Essentials software: base level software (standard)

- Camera, illumination, LED, buzzer, and RFID reader (on APDU level) accessible via SDK

## D SCAN Master software: middleware software (optional)

- High-level document access (optical and RFID) including workflow support, cryptographic protocols, and OCR
- D SCAN Master software: contains cryptographic library which is also part of the reference implementation Golden Reader Tool (GRT)
- Ability to perform or implement all ICAO approved protocols including passive Authentication, Active Authentication, Basic Access Control (BAC), and Extended Access Control (EAC)
- Definitions for customer-specific documents (optional)
- Developer support packages available

## Dimensions

### Reader size (W x D x H):

10.36" x 8.35" x 5.89"  
(263 mm x 212 mm x 150 mm)

**Reader weight:** 5 lbs (2.3 kg), excluding cables and power pack

**Power supply:** desktop power pack 9 V DC /< 30W, wide-range, input AC 100-240 V, 50/60 Hz

## Environmental Conditions

**Indoor use:** 50-113° F (10-45°C), at 10-90% relative humidity, non condensing, no direct sunlight exposure to the scanner platen

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Protecting People, Property and Privacy