THALES
Building a future we can all trust



Thales Document Reader AT9000 MK2

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Identity & Biometrics Solutions

The Thales Document Reader AT9000 MK2 is designed to inspect, authenticate and capture data from electronic travel and identity documents quickly and reliably in a wide variety of government and commercial applications.

Benefits

Accurate

- Anti-glare technology provides true color images by reducing document laminate reflections and ambient light interference

Easy to use

- USB power requires no power outlet to operate
- Hoodless operation option: Document placement area is easy to see, and can accommodate bulky documents.

Key features

Anti-glare technology

Power supply power option

USB power option

Comprehensive software features

- Uses the same API interface as other Thales document readers using Thales Document Reader SDK
- Flexible software interface: host application can select illumination sources, image type, image compression, photo extraction, reflection or ambient light elimination, color enhancement, which data groups to read, etc.
- Configuration via file or api, can be configured in field and saved
- Simple high level API for quick program development or detailed low level API for fine control of all reader functions. SDK provides full configuration API
- Contactless IC reading for ePassports (LDS 1.7 & 1.8) including basic access control (BAC), passive/active authentication (PA/AA), Chip Authentication (CA), Terminal Authentication (TA), extended access control (EAC v1/v2), supplementary access control (SAC) and PACE-CAM are supported. The SDK provides writing capability using APDUs
- Contactless IC reading for eDL & iDL (electronic driving licenses) up to DG14 including basic access control (BAP v1), Password Authenticated Connection Establishment (PACE), passive/active authentication (PA/AA), Chip Authentication (CA), Terminal Authentication (TA), supplementary access control (SAC) and extended access control (EAC v1) are supported
- ICAO 9303 checksum, IR ink and UV dull validation
- Full SDK including DLLs, code examples, utilities and demonstration programs. Can be used with Visual C++®, Java® and Microsoft® .NET Framework for Visual Basic® .NET and Visual C#®

Ideal solution for enhanced security

Designed for mission-critical applications, the AT9000 MK2 provides exceptional performance and is relied upon by border forces worldwide. Additionally, it's the ideal solution for many other government and commercial applications, such as:



Retail

ID fraud and loss prevention for mobile phone stores and car rental agencies.

Financial Services

Identity verification during registration for regulatory requirements, fraud prevention and ID theft.

Hotel, Hospitality and Gaming

- Physical security & travel risk management to ISO31030.
- VIP alerting registration and cash management.

Government

- Quality assurance for ePassport issuance
- Travel document authentication for border control
- Breeder document verification for ID/DL issuance

Air transportation

Verify airline traveler ID or boarding pass at security check point or boarding gate

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	IMAGING
Illumination	• Near IR B900: 880nm, +/-5% • White visible: 400-700nm • Ultraviolet (UVA): 365nm
Resolution	• Standard 400 DPI image resolution • 3.1 Megapixel sensor
Formats	BMP, PNG or JPEG format
Auto-triggering of document capture	Yes
Anti-glare technology	Yes
	READING CAPABILITIES
Optical Character Recognition (OCR) reading	• ICAO compliant documents in near infrared (IR) per ICAO 9303 specification • One line Driving Licenses in near infrared (IR) per ISO18013 part 2 specification
Barcode reading	• 1D barcodes (2 of 5 interleaved, 2 of 5 industrial, Code 128, Code 39, EAN-8 and EAN-13) • 2D barcodes used on BCBP and other documents (PDF 417, QR Code®, DataMatrix™ and Aztec formats) from paper documents and many mobile devices
Contactless RFID	Reads from and writes to contactless chips and eID according to: • ISO 14443 13.56MHz Type-A and Type-B using a PC/SC interface • ePassport support for ICAO 9303 LDS 1.7 & 1.8 and PKI using included SDK • Dual antennas capable of reading shielded passports • iDL & eDL reading and access control for driving licenses to ISO 18013 parts 2&3 and ISO/CEI TR 19446 using included SDK • All standardized rates, up to 848 Kbps, read-out times depend on RFID tag, operating system and amount of data stored in the chip • PC/SC interface provides support to other card types such as Mifare™ (drivers for all supported OS) • SDK certified to BSI TR-03105 Parts 5.1 and 5.2 • RFID reader certified to BSI TR-03105 Part 4
VIZ Data capture (optional)	• Data entry automation: no more manual typing or photocopying • Accurate form filling, including into web pages
Quality Assurance Optional	• Check photo in chip against photo on data page • Positional quality assurance (QA) – assures document is printed to applicable ISO, ICAO or customer standards • Measures skew, left margin, line spacing, character spacing, line length, print contrast, stroke width and distance from each character to the bottom of the document
MSR Option	Magnetic swipe add-on module available
	MECHANICAL
Dimensions	• 19.0 x 16.2 x 15.7 (with light shield) cm • 7.5 x 6.4 x 6.2 (with light shield) in
Weight	• <1 kg (2.2 lbs)
Security	Slot for Kensington® Security Lock Recessed power switch on rear panel
	ELECTRONICS
Power consumption	5 volts DC, 500mA when USB powered
Power	USB 2.0 or via optional universal input external power supply
Minimum PC specification	• 2 GHz Pentium® 4 CPU (Intel Core 2 Duo recommended) • 1 GB DRAM • USB 2.0 • 60 MB of Hard Drive space for software • Windows® 8.1, Windows® 10 or Windows 11® operating systems, 32 or 64 bit • Builds for Ubuntu and CentOS LTS, 32 & 64 bit • macOS (limited SDK functionality)
	ENVIRONMENT
Temperature	Operating: -10° to 50° C (14° - 131° F); Storage: -20° to 50° C (-4° -131° F)
Humidity	20 to 95% (R.H. non-condensing)
IP rating	IP50 rating for dust ingress protection in the optical chamber
	MAINTENANCE
Firmware upgrade	Upgradeable firmware via USB interface
	CERTIFICATIONS
	FCC Part 15 Class A, CB report, UL UL-C, CE - RED, LVD & EMC, EU WEEE, REACH & RoHS

This document describes the features and functions of the Thales Document Reader AT9000 MK2 (PV60-XX-XX-XX-XX, e.g. PV60-02-00-00-01 and other models.)

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