THALES
Building a future we can all trust



Thales Document Reader AT10K

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Identity & Biometrics Solutions

Thales Document Reader AT10K allows users to inspect, authenticate, and capture data from electronic travel and identity documents quickly and reliably.

Benefits

- **Ergonomic design:** LED Landing lights feedback; Optional user removable hood and document spine hold down clip to privide flexibility for the user to operate in their preferred style
- **Eco-friendliness:** World's first document reader to achieve an Energy Star certificate, consumes 28% less power than previous generations
- **mDL & mDoc compatible (optional):** QR code & NFC pairing with digital ID documents, Fast Bluetooth transmission of identity data conforming to ISO/IEC 18013-5 standard; Future-proof firmware and SDK updates aligned with digital ID standards evolutions; Convenience for end-users through Tap-and-Go feature

Key features

Mobile compatible

Anti-glare technology

Hoodless operations

Energy Star cerfitified

USB power option

Power supply power option

Comprehensive software features

- Uses the same API interface as other Thales document readers using 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.
- 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
- 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

AT10K document readers meet the needs of organisations for enhanced security and reliable identity verification in many applications:



Retail

Age and ID verification for controlled products; liquor, cigarettes, firearms, pharmaceuticals, etc.

Financial Services

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

Hotel, Hospitality and Gaming

Physical security & travel risk management to ISO 31030. VIP alerting, registration and cash management.

Law Enforcement

Identity verification for quick and accurate inmate booking, courthouse security processing, and correctional facility visitation.

Healthcare

Identity verification for insurance validation, patient admissions and prescription drug pickup.

Visitor Management

Identity verification for educational, commercial, or corporate settings e.g. access control, time & attendance, VIP alerting.

Transportation and car leasing

ID verification for regulatory requirements, fraud prevention, access control and expedited service.

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	IMAGING
Illumination	• Near IR B900: 880nm, +/-5% • White visible: 400-700nm - Ultraviolet (UVA): 365nm • Co-axial (retroreflective) white (400-700nm)
Resolution	• High-Resolution: 550 DPI; 10 Megapixel sensor • 36 bit RGB colour system for enhanced dynamic range and in-camera scalable images up to 700 dpi
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	• ISO 14443 (13.56MHz) Type A and B using a PC/SC interface • ePassport support for ICAO 9303 LDS 1.7 & 1.8 and PKI using included SDK • iDL & eDL reading and access control for driving licenses to ISO18013 parts 2 &3 and ISO/CEI TR 19446 using included SDK • All standardized rates, up to 848 Kbps • PC/SC interface provides support to other card types such as Mifare™ • SDK certified to BSI TR-03105 Parts 5.1 and 5.2
VIZ Data capture (option)	• Data entry automation: no more manual typing or photocopying • Accurate form filling, including into web pages
Smart card (option)	• Contact smartcard to ISO 7816 Class A and B (T0/T1) • Factory fit or customer upgrade ; Width of the reader with smartcard add-on: 16.9 cm (6.6")
	MECHANICAL
Dimensions	18.7 x 16.0 x 6.5 (10.3 with hood) cm
Weight	1.1 kg
Glass	Low scratch, Chemically Strengthened, fully bonded glass
Security	• Slot for Kensington® Security Lock • Recessed power switch on rear panel
	ELECTRONICS
Power	USB or via optional universal input external power supply
Power consumption	5 volts DC, 500mA (when USB 2.0 powered)
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	IP54 rating for dust ingress protection in the optical chamber
	MAINTENANCE
Firmware upgrade	• Upgradeable firmware via USB interface • Non-volatile configuration and calibration accessed via USB interface • Images captured in volatile memory for immediate erasure upon power loss (GDPR compliance)
	CERTIFICATIONS
	FCC Part 15 Class A, CB report, US & CA ETL Listed, CE - RED, LVD & EMC, EU WEEE, REACH & RoHS, Enery Star

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This document describes the features and functions of the Thales Document Reader AT10K (PV70-XX-XX-XX-XX, e.g. PV70-02-02-00-01 and other models.)