



# Thales Document Reader **AT10K**

# Thales Document Reader AT10K



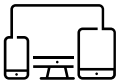





## Identity & Biometrics Solutions

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 provide 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 certified	 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 DG 14 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

<b>Illumination</b>	<ul style="list-style-type: none"> <li>Near IR B900: 880nm, +/-5%</li> <li>White visible: 400-700nm - Ultraviolet (UVA): 365nm</li> <li>Co-axial (retroreflective) white (400-700nm)</li> </ul>
<b>Resolution</b>	<ul style="list-style-type: none"> <li>High-Resolution: 550 DPI; 10 Megapixel sensor</li> <li>36 bit RGB colour system for enhanced dynamic range and in-camera scalable images up to 700 dpi</li> </ul>
<b>Formats</b>	<ul style="list-style-type: none"> <li>BMP, PNG or JPEG format</li> </ul>
<b>Auto-triggering of document capture</b>	Yes
<b>Anti-glare technology</b>	Yes

### READING CAPABILITIES

<b>Optical Character Recognition (OCR) reading</b>	<ul style="list-style-type: none"> <li>ICAO compliant documents in near infrared (IR) per ICAO 9303 specification</li> <li>One line Driving Licenses in near infrared (IR) per ISO 18013 part 2 specification</li> </ul>
<b>Barcode reading</b>	<ul style="list-style-type: none"> <li>1D barcodes (2 of 5 interleaved, 2 of 5 industrial, Code 128, Code 39, EAN-8 and EAN-13)</li> <li>2D barcodes used on BCBP and other documents (PDF 417, QR Code®, DataMatrix™ and Aztec formats) from paper documents and many mobile devices</li> </ul>
<b>Contactless RFID</b>	<ul style="list-style-type: none"> <li>ISO 14443 (13.56MHz) Type A and B using a PC/SC interface</li> <li>ePassport support for ICAO 9303 LDS 1.7 &amp; 1.8 and PKI using included SDK</li> <li>iDL &amp; eDL reading and access control for driving licenses to ISO 18013 parts 2 &amp; 3 and ISO/CEI TR 19446 using included SDK</li> <li>All standardized rates, up to 848 Kbps</li> <li>PC/SC interface provides support to other card types such as Mifare™</li> <li>SDK certified to BSI TR-03105 Parts 5.1 and 5.2</li> </ul>
<b>VIZ Data capture (option)</b>	<ul style="list-style-type: none"> <li>Data entry automation: no more manual typing or photocopying</li> <li>Accurate form filling, including into web pages</li> </ul>
<b>Smart card (option)</b>	<ul style="list-style-type: none"> <li>Contact smartcard to ISO 7816 Class A and B (T0/T1)</li> <li>Factory fit or customer upgrade ; Width of the reader with smartcard add-on: 16.9 cm (6.6")</li> </ul>

### MECHANICAL

<b>Dimensions</b>	18.7 x 16.0 x 6.5 (10.3 with hood) cm
<b>Weight</b>	1.1 kg
<b>Glass</b>	Low scratch, Chemically Strengthened, fully bonded glass
<b>Security</b>	<ul style="list-style-type: none"> <li>Slot for Kensington® Security Lock</li> <li>Recessed power switch on rear panel</li> </ul>

### ELECTRONICS

<b>Power</b>	USB or via optional universal input external power supply
<b>Power consumption</b>	5 volts DC, 500mA (when USB 2.0 powered)
<b>Minimum PC specification</b>	<ul style="list-style-type: none"> <li>2 GHz Pentium® 4 CPU (Intel Core 2 Duo recommended)</li> <li>1 GB DRAM</li> <li>USB 2.0</li> <li>60 MB of Hard Drive space for software</li> <li>Windows® 8.1, Windows® 10 or Windows 11® operating systems, 32 or 64 bit</li> <li>Builds for Ubuntu and CentOS LTS, 32 &amp; 64 bit</li> <li>macOS (limited SDK functionality)</li> </ul>

### ENVIRONMENT

<b>Temperature</b>	Operating: -10° to 50° C (14° - 131° F); Storage: -20° to 50° C (-4° - 131° F)
<b>Humidity</b>	20 to 95% (R.H. non-condensing)
<b>IP rating</b>	IP54 rating for dust ingress protection in the optical chamber

### MAINTENANCE

<b>Service &amp; maintenance</b>	<ul style="list-style-type: none"> <li>Two-year warranty - Extended agreement available</li> <li>Each reader is supplied with one Microfibre cleaning cloth</li> </ul>
<b>Firmware upgrade</b>	<ul style="list-style-type: none"> <li>Upgradeable firmware via USB interface</li> <li>Non-volatile configuration and calibration accessed via USB interface</li> <li>Images captured in volatile memory for immediate erasure upon power loss (GDPR compliance)</li> </ul>

### CERTIFICATIONS

FCC Part 15 Class A, CB report, US & CA ETL Listed, CE - RED, LVD & EMC, EU WEEE, REACH & RoHS, Energy Star