THALES
Building a future we can all trust




# Thales Document Reader

# Thales Document Reader



**Identity & Biometrics Solutions**

**The Thales Document Reader is designed to capture data from driving licenses, passports and other identity documents quickly and reliably in a wide variety of commercial applications.**

## Benefits

- Accurate data with fewer entry errors
- Automated data form filling
- Reduce customer queues, decreases friction

## Key features

USB

China NID & Chinese OCR with RFID reading

Energy Star Certified

Data capture software (option)

Anti-glare technology

No power supply required

## Comprehensive software features

- Reads 1D and 2D barcodes from documents and many mobile devices AAMVA parder decodes North American driver licenses
- AAMVA parder decodes North American driver licenses
- Uses the same API interface as other Thales document readers using Thales Document Reader SDK
- Flexible software interface allows host application to select 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
- ICAO 9303 checksum 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#®
- Optional support for China NID card with RFID reading
- Interfaces to standard hotel software, Oracle PMS, Amadeus, etc (optional)

## Reliability and speed for enhanced document processing

Designed for use in demanding scenarios, this ID document reader serves different industries where an accurate and reliable document and ID reading and verification is needed:

### Retail

- Enrollment/identification at mobile phone stores, casinos and car rental agencies, restricted goods, etc
- Checking rights to access services/buy products (eGov)

### Hospitality

- Check-in and visitor management
- Vendor and employee vetting

### Government

- eServices enrollment and delivery
- Voter registration

### Healthcare

- ID verification for healthcare administration
- Visitor management
- Employee management

### Transportation

- Capture API data
- Data entry of registration and ticket issuance
- Manifest creation



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| | |
|---|---|
| | **IMAGING** |
| **Illumination** | Dual wavelength illumination:<br>• White visible LEDs, 430-700nm<br>• Near Infrared (IR) B900: 860nm peak |
| **Resolution** | • Standard 400 DPI image resolution<br>• RGB 24 bit color system |
| **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<br>• One line Driving Licenses in near infrared (IR) per ISO 18013 part 2 specification |
| **Barcode reading** | • 1D barcodes (2 of 5 interleaved, 2 of 5 industrial, Code 128, Code 39, EAN-8 and EAN-13)<br>• 2D barcodes used on BCBP and other documents (PDF 417, QR Code®, DataMatrix™ and Aztec formats) from paper documents and many mobile devices<br>• AAMVA parser decodes North American driver licensebarcodes |
| Chinese NID RFID option | • Supports reading of new China NID documents using RFID protocols with crypto module inside reader |
| **HRZ Data Capture Option** | • Interfaces include XML and JSON, TCP/IP, DLL, HTTP/HTTPS, Java and Keyboard emulation<br>• Option includes multi-font including Asian, Arabic and Chinese character sets |
| | **MECHANICAL** |
| **Dimensions** | • 19 x 16.5 x 14.3 cm; 7.5 x 6.5 x 5.6 in |
| **Weight** | • 0.8 kg (1.7 lbs) |
| **Window size** | • 12,5 x 9 cm |
| **Glass** | Low scratch, Chemically Strengthened, fully bonded glass |
| **Security** | Slot for Kensington® Security Lock |
| | **ELECTRONICS** |
| **Power supply** | Powered from a single USB 2.0 port: 5 volts DC, 500mA |
| **Minimum PC specification** | • 2 GHz Pentium® 4 CPU (Intel Core 2 Duo recommended), 1 GB DRAM, USB 2.0<br>• 60 MB of Hard Drive space for software, Windows® 8.1, Windows® 10 or Windows 11® operating systems, 32 or 64 bit<br>• Builds for Ubuntu and CentOS LTS, 32 & 64 bit<br>• macOS (limited SDK functionality) |
| | **ENVIRONMENT** |
| **Temperature** | Operating: -10° to 55° C (14° - 131° F); Storage: -20° to 60° C (-4° - 140° F) |
| **Humidity** | 10 to 95% (R.H. non-condensing) |
| **Ip rating** | IP54 rating for dust ingress protection in the optical chamber |
| **Shock and Vibration testing** | Conforming to IEC60068-2-27 and IEC60068-2-64 |
| | **MAINTENANCE** |
| | |
| **Firmware upgrade** | Upgradeable firmware via USB interface; Non-volatile configuration and calibration accessed via USB interface |
| | **CERTIFICATIONS** |
| | FCC Part 15 Class A, UL, UL-C, CB Certificate, CE-RED, LVD & EMC, EU WEEE, REACH & RoHS Directives, China RoHS, Energy Star |



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