

e-Passports & Visas

ID Cards

Driver Licenses



VDR 2 Compact OEM *extended* **Full Page Document Reader**

Introduction Vlatacom Document Reader 2 Compact OEM extended is a stationary device for full page, single step reading of ICAO compliant documents, e-passports, visas and ID cards . Without any moving parts, VDR 2 Compact OEM extended is reliable, robust and easy to install or embed. Accompanied with comprehensive software, VDR 2 Compact OEM extended performs fast scan of documents in high resolution using three or more light sources, reads MRZ, 1D and 2D barcodes, as well as data from contactless chip. Reading of MRZ is done in less then 2 seconds. VDR software validates the content of MRZ and chip and crosschecks this data. 2 SAM slots enable utilization of advanced acces and authentication techniques. Designed for a very easy and fast integration, VDR 2 Compact OEM extended can be integrated into third party equipment or any kind of system, where speed and ease of use are crucial (self-service kiosks, different types of terminals, automated border and immigration control systems, etc.).

Features

Optical

- VDR 2 Compact OEM extended is capable of scanning and reading ICAO compliant travel documents and electronic ID cards, but can perform scan of any kind of travel document in high resolution. Scanning is performed with three kinds of illumination: white, infrared and ultraviolet
- Automatic start of reading process
- Automatic recognition of document type
- Verification of standard laminates, UV and IR security features
- Verification of advanced digital security features, like watermarking (optional)
- Automatic process of extraction and reading characters from Machine Readable Zone (MRZ)
- Reading of PDF-417 2D barcode (optional)
- Reading of 1D Barcode EAN12 and EAN13 (optional).

Smartcard Chip

- Reading ISO/IEC14443A&B contactless chip from electronic ID cards and travel documents (for example ICAO compliant ePassport)
- Advanced security features are provided by use of Security Access Modules (SAM) for ID-000 format cards, which implies that cryptography algorithms and digital certificates can be stored (decrypting data with keys stored on SAM, checking digital signatures etc.)

Software Communication with desktop computer is performed over USB interface so integration in existing Local Area Networks is trivial.

Clear, easy to use and comprehensive interface to VDR 2 Compact OEM extended is provided by ready-to-use software with the following features:

- Displaying captured images in three or more types of illumination
- Easy to use zoom utility for easier checking of protective elements
- Displaying data read from MRZ, 2D barcode and contactless chips
- Document validity check upon verification of digital signed data from 2D barcode and contactless smart cards
- Advanced verification and matching of data read from MRZ, 1D and 2D barcode, and contactless smart cards and displaying the results of verification
- Automatic process of archiving data and easy database searching interface

With provided SDK it is easy to develop custom applications with special end-user needs including ICAO LDS 1.7 and PKI 1.1 with BAC (Basic Access Control), EAC (TR-03110) v.1.11, Passive Authentication & Active Authentication, as recommended by ICAO and required by many states.

Technical Specifications

Size	Width: 208mm (214mm - with cover) Depth: 170mm (202mm - with cover) Height: 121mm (134mm/207mm - with cover)
Window size	135mm x 100mm
Weight	2.75 kg
Image size	2048 x 1536 (3.2Mpixels, 24bits/pixel RGB)
Image resolution	400 dpi
Image formats	BMP, JPG, TIFF
Illuminations	- Visible, IR@900nm, UV@365nm - coaxial light (optional)
Processes	- Image capturing - MRZ zone reading (OCR-B font) - Reading of 1D Barcode EAN12 and EAN13 (optional). - 2D Barcode decoding (PDF417) - optional - Contactless chip reading (ISO/IEC14443A&B) - Data verification - Advanced security features (SAM modules)
Hardware interface	USB
Operating temperature	0 ÷ 40°C
Humidity	0 ÷ 90%
Operating systems	Windows XP, Vista, optionally Linux
System requirements	Pentium IV @ 2.4GHz, 512MB RAM
Required	Pentium IV, 2GB RAM
Recommended	

