



e-Passports & Visas

ID Cards

Driver Licenses



VDR Compact

Document Reader

Introduction Vlatacom Document Reader Compact is a stationary device for full page, single step reading of e-passports, visas and ID cards, ICAO compliant documents. Without any moving parts, VDR Compact is reliable, robust and easy to install or embed. Accompanied with comprehensive software, VDR Compact performs fast scan of documents in high resolution using three or more light sources, reads MRZ and 2D barcodes, as well as data from contactless chip. Reading of MRZ is done in less than 2 seconds. VDR software validates the content of MRZ and chip and crosschecks this data. 2 SAM slots enable utilization of advanced access and authentication techniques. Designed for a very easy and fast integration, VDR Compact 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 Compact 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.

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 ID3 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 Ethernet and USB interface so integration in existing Local Area Networks is trivial.

Clear, easy to use and comprehensive interface to VDR Compact is provided by VDR Compact 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, 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) and SOD (Secure Object Data), as recommended by ICAO and required by many states.

Technical Specifications

Size	Width: 210mm Depth: 170mm Height: 112mm (170mm - with cover)
Window size	125mm x 88mm
Weight	2.3 kg
Image size	2048 x 1536 (3.2Mpixels, 24bits/pixel RGB)
Image resolution	400 dpi
Image formats	BMP, JPG, TIFF
Illuminations	<ul style="list-style-type: none"> ■ Visible, IR@90nm, UV@365nm ■ coaxial light (optional)
Processes	<ul style="list-style-type: none"> ■ Image capturing ■ OCRB ■ 2D Barcode decoding (PDF417) ■ Contactless chip reading (ISO/IEC14443A&B) ■ Data verification ■ Advanced security features (SAM modules)
Hardware interface	Ethernet, USB
Operating temperature	0 ÷ 40°C
Humidity	0 ÷ 90%
Operating systems	Windows NT, XP, 2000, optionally Linux
System requirements	Pentium @ 466MHz, 64MB RAM
Recommended	Pentium IV @ 2.4GHz, 512MB RAM

