

VDR2 Compact OEM Extended



VDR2 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, VDR2 is reliable, robust and easy to install or embed. It also operates as desktop device accompanied with comprehensive software. VDR2 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 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, VDR2 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

- VDR2 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)



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

Smartcard Chip

- Reading ISO/IEC14443A&B contactless chip from electronic ID cards and travel documents (for example ICAO compliant ePassword)
- 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 USB2 interface.

Clear, easy to use and comprehensive interface to VDR2 is provided by ready-to-use software with the following features:

- Displaying captured images in three or more types of illumination
- 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

Size	Width: 208mm (214mm with cover) Depth: 170mm (200mm with cover) Height: 121mm (134mm/207mm with cover)
Window size	135mm x 100mm
Weight	2.75kg
Image size	2048 x 1536 (3.2Mpixels, 24bits/pixel RGB)
Image resolution	400dpi
Image formats	BMP, JPG, TIFF
Illuminations	-Visible, Infrared@900nm, Ultraviolet@365nm
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	USB2
Operating temperature	0 ÷ 40°C
Humidity	0 ÷ 90%
Operating systems	Windows XP, Vista, Windows 7, Windows 8, Windows 10
System requirements	Required: Pentium IV @ 2.4GHz, 512MB RAM Recommended: Pentium IV, 2GB RAM
Environmental requirements	RoHS, WEEE
Regulatory requirements	CE



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