



Multifunctional Document Reader VDR-1





VDR-1 Multifunktional Document Reader

(Passport and ID Card Reader with Integrated RFID Chip Reader)

The VDR-1 document reader fulfill the globally growing needs for automated, reliable and secure reading and verification of travel and identification documents.

It is all in one solution for verification personal documents such as of passports, visas, ID cards and driver licenses.

Accompanied with advanced software components, the device verifies number of optical and digital security features, reads machine readable data printed on document and data stored on chip, hence enables biometric verification of identity.

Highly configurable and feature rich, VDR-1 supports all relevant international and industry standards. This makes it ideal for the integration in large scale projects.

With automated document presence detection, recognition and reading process, the device is particularly easy to use.

Mainly employed for border control or airport security, VDR-1 is also excellent choice for deployment in immigration offices, consulates or for commercial applications such as in hotels, banking or access control applications.

The unit can operate either as stand-alone solution or can be easily integrated into current nation wide systems or in the future one.

Optical

Documents are captured using visible, infrared and ultraviolet illuminations. Coupled with high resolution allow us to perform the full range of printed security features checks.

Standard microprint, holographic laminates, UV and IR security features, as well as advanced digital security features like watermarks can be verified.

The device also supports machine readable zone OCR-B and 2D barcode decoding. Designed without any moving parts, VDR-1 is highly reliable and is an exceptionally fast reader.

Smartcard Chip

VDR-1 is fully compliant with the latest ICAO standards on machine readable travel documents.

The device reads ePassport chip encoded demographic and biometric data, as required by recent biometric identity verification solutions.

Advanced digital security features using PKI (Public Key Infrastructure) and from EU [European Community] required counter eavesdropping mechanism are fully supported.

For increased usability, contact smartcard identification documents like personal ID and working permit cards are also supported.



Software

State of the art optical character recognition and image processing library are parts of VDR-1 software development kit.

Other features include ICAO ePassport contactless chip reading and crypto security checks. SDK offers BAC (Basic Access Control) and SOD (Secure Object Data) processing as recommended by ICAO and required by many states

SDK comes with fully functional application for ePassport/eID reading and verification, making the device out-of-box ready for deployment in any kind of project.

Technical data

| | |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Document type | All ICAO conform Passports, ID Cards, Visas and other documents with Security Features |
| Color scan | 24 Bit RGB |
| Illumination | <ul style="list-style-type: none">• Ultra Violet Light Scan• Infrared Light Scan• White Light Scan |
| ICAO Barode reading | <ul style="list-style-type: none">• 1D Barcode OCR-B Reading• 2D Barcode PDF417 Reading |
| Hologram reading [on request] | Hologram, Kinegram® and Multigram® Reading |
| RFID reading | Contactless Chip Reading from Passports, ID Cards, etc. |
| Scan area | 150 x 88 mm |
| Image resolution | 400 dpi |
| Image quality | 24 Bit RGB |
| Image output | color and grey binary |
| Image size: | 2048 x 1536 px |
| Image format | bmp, jpg, tiff |
| Interface | 100Base-T, USB2, RS232 |

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|-----------------------------|----------------------------------------------------------------------------------|
| Hardware prerequisites | X86-32/X86-64 processor, 1GHz, 512 MB RAM, 40 GB HD, PCIe slots, 100Base-T, USB2 |
| OS prerequisites | Linux, MS Windows 2000, MS Windows XP |
| Temperature Operation | + 5 °C - + 40 °C |
| Temperature Storage | - 20 °C - +55 °C |
| Relative Humidity Operation | at 25 °C - 80 % RH (not condensed) |
| Relative Humidity Storage | at 25 °C - 90 % RH (not condensed) |
| Dimension | 287 x 255 x 245 mm (L x W x H) |
| Weight | 4,5 kg net |
| Electric Specification | 110 V-240 V, 50-60 Hz |



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| CE Marking | |
|---------------------------------|-----------------|
| Low Voltage Directive 73/23/EEC | EN60950 |
| EMC Directive 89/336/EEC | EN55022 Class B |
| | EN55024 |
| | EN61100-3-2 |
| | EN61100-3-3 |

