Card Reader

optimal solution for reading ICAO ID1 size cards

The CARD Reader is an optimal solution to read ICAO ID1 size cards like national ID cards, health insurance cards, driver licenses. Ideal solution for access control applications based on printed cards.

Desktop unit designed not just for governmental and commercial but also for SOHO usage (Small Office - Home Office).

Specially designed for ID1 size cards or any other maximum 89x53mm (3.5"x2.1") sized printed document.

The neural network based character recognition software could be trained for reading the VIZ of any document type (Visual Inspection Zone). The image provided by the Card Reader could be used with a third party OCR software.

- ✓ Possible to integrate in displays, kiosk or automated access control terminals
- ✓ Easy to use, plug & play
- ✓ Long lifecycle: no maintenance required, no moving parts, no consumables
- ✓ No external power required (power from USB)
- ✓ Connected to a notebook/laptop could be used as a mobile (portable) device
- ✓ Fast: full process including document detection, image making and transferring to the PC and the OCR is done in less than 1 sec
- ✓ High accuracy OCR for 1, 2 or 3 lines MRZ included
- ✓ 1D or 2D barcode reading included
- ✓ Easy to integrate into any system (SDK included)
- ✓ Due to the enhanced optical system the Card Reader provides high resolution, outstanding image quality

Adaptive Recognition Hungary

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Technical Specifications*

Illuminations
- Visible (White)
- Infra Red (B900)

Optical Specifications
- Image sensor: 2048 x 1536
- Image resolution: 450 dpi
- Image colour depth: 24 bits/pixels RGB

Mechanical Data
- Size with cover : 135 x 96 x 187 (5,3” x 3,8” x 7,3”)
- Window size : 96 x 54 mm (3,39” x 2,16”)
- Case: ABS plastic
- Window glass: 4 mm tempered glass
- Operating temperature: +10°C to +40°C
- Humidity: 0-95%
- Weight: 0,6 Kg
- No moving parts

Other Specifications
- Interface: USB 2.0
- Power: from USB

Software Development Kit (SDK)

Supported OS
- Windows Vista, XP, 2003, 2000
- Linux (optional)

Programing languages
- C/ C++, C#, Visual Basic, Delphi, .NET, Java

Full processing time
- Infra image +OCR (MRZ) reading: under 1 sec (P4 Celeron 2.4GHz)

MRZ OCR reading
- Included (ICAO 9303)

VIZ OCR reading
- Optional (requires extra development)

2D Barcode reading
- PDF 417
- Data Matrix (optional)
- QR Code (optional)

1D Barcode reading
- EAN8, EAN13, Code39, Code128. Interleaved 2 of 5

Image format
- BMP, JPG, JPG2000, PNG

Passport photo extraction
- Optional

** Technical specifications are subject to change without prior notice.*

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