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SPC CDR-3
Compact eDocument Reader

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Compact eDocument Reader

for Machine Readable Passports and ID Cards

The CDR-3 is the fastest compact eDocument Reader available reading under White Light, UV, IR and RFID chip. The built-in digital signal processor (DSP) significantly speeds up the image-processing and efficiently reduces the reading time. Based on High-Power LED technology providing outstanding light conditions showing perfect images under the different light sources, while reading of MRZ data is done in less than one second and the IC chip in another 2 seconds (depend on chip model).

The CDR-3 High-Tech eDocument Reader fulfill the needs for fast, reliable and secure reading and verification of ICAO conform Machine Readable Passports and ID cards.. Upon request we are supporting also non ICAO standard documents.

The CDR-3 is built without moving parts and is very robust against temperature and humidity and has built-in USB hub. The Unit is available as stand alone or as module to be used in Printers or Kiosks.

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Technical data

CDR-3	
Document type	All ICAO conform Passports, ID Cards, Visas and other documents with Security Features. ICAO 9303 TD1 & TD3
Image sensor	3 Mpixels
Image resolution	400 dpi (standard camera), 700 dpi (second camera, P option)
Image output	color and grey binary
Image size:	2560 x 2048 pixels
Image format	bmp, jpg, jpg2000, png
Image color depth	24 Bit RGB
Illumination	● Ultra Violet Light [365 nm] ● Infrared Light [900 nm] ● White Light
Barcode reading	● 1D Barcode: EAN8, EAN13, Code 39, Code128, Interleaved 2 of 5 ● 2D Barcode: PDF417, Data Matrix, QR Code, Aztec Code

RFID Module	ICAO Doc 9303 Part1 6th Edition:
	● Basic Access Control (BAC)
	  ◆ Active Authentication (AA)
	  ◆ Passive Authentication (PA)
	● Extended Access Control (EAC)
	● Support 14443 A/B chip types
	● Dual RFID antenna
	● Single step reading

Smart Card Module	ISO 7816 & EMV2 2000 Level 1 standards
SDK	Supportted OS: ● Windows 7, Vista (32/64 bit), XP, 2003 ● Linux Ubuntu
Programming Languages	C/C++, Visual Basic 6, Delphi, VB.Net, Java
Interfaces	USB 2.0
Temperature Operation	+ 5 ℃ - + 40 ℃
Temperature Storage	− 20 ℃ - +55 ℃
Relative Humidity Operation	at 25 ℃ - 95 % RH (not condensed)
Relative Humidity Storage	at 25 ℃ - 95 % RH (not condensed)
Dimension	213 x 173 x 179 mm (L x W x H)
Scan area	130 x 98 mm
Window glass	4 mm tempered glass
Weight	Between 2.0 kg and 2.4 kg depending on the model
Electric Specification	110 V-240 V, 50-60 Hz
Compliances	CE, FCC, RoHS, IEC 62471
Client hardware prerequisites	X86-32/X86-64 processor, 1,6 GHz, 512 MB RAM, 40 GB HD, network 100Base-T, interface USB2

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Options	● RFID module (R type) ● Smart Card module (S type) ● 700 DPI camera (P type) ● Built-in USB hub ● Flip-top cover