Item1: Desktop Card Reader Specification

Specification: Optical Card Reader to read data from ICAO ID1 size documents

Size	135 mm x 96 mm x 7.87 mm (5.31" x 3.78" x 7.36")
Window size	89 mm x 54 mm (3.50" x 2.13")
Window glass	4mm glass
Illuminations	Visible, Infra Red (B900)
Weight	Less Than 1 Kg
Interface	USB 2.0
Power	from USB
Internal memory	Storing factory calibration
Software Development Kit (SDK)	
Supported Operating Systems	Windows 8 (32/64 bit) Windows 7 (32/64 bit) Windows Vista (32/64 bit) Windows XP (32/64 bit) Windows Server 2003 (32/64 bit) Windows Server 2008 R2 (32/64 bit) Linux (optional, ask for details)
Programming Languages	C/C++, C#, Visual Basic6.0, .NET, Delphi, Java
MRZ OCR reading	ICAO 9303
VIZ OCR reading	Included (with non ICAO documents it requires extra development)
1D Barcode reading	UPC-A, EAN8, EAN13, Code39, Code128. Interleaved 2 of 5.
2D Barcode reading	PDF417, Data Matrix, QR code, Aztec code
Image format	BMP, JPG, JPG2000, PNG
Photo Extraction	Yes
Image Sensor	2048 x 1536
Case	ABS plastic

Item2: Plastic Card Specifications: Type 1

Nominal dimensions: 53.98 mm × 85.6 mm (2.13 in × 3.37 in)

Edge tolerances: The edges of the document after final preparation shall be within the area circumscribed by the following concentric rectangles

Inner rectangle: 53.25 mm × 84.85 mm (2.10 in × 3.34 in)

Outer rectangle: 54.75 mm × 86.35 mm (2.16 in × 3.40 in)

Thickness: The thickness, including any final preparation (e.g. laminate), shall be as follows.

Minimum: 0.25 mm (0.01 in)

Maximum: 1.25 mm (0.05 in)

Margins: The dimensional specifications refer to the outer limits of the td2. A margin of 2.0 mm (0.08 in) along each outer edge, with the exception of the header zone, must be left clear of data.

Item 4: Finger Print Scanner

Qty: 02

Model: Lumidigm V300-02-S-USB01

Product Features Required-

- High-contrast 500 dpi images
- Multiple communication interfaces supported: USB 2.0, RS-232
- ANSI 378 / MINEX-certified biometric template
- Local verification 1:1) functions
- Small, ready-to-integrate form factor for easy mechanical integration
- Operates across wide ranges of temperature, relative humidity, and ambient light
- High durability glass platen with no coatings that wear out

OS Support-

1. Windows 8 32 and 64-bit both)
2. Windows 7 32 and 64-bit both)
3. Linux- Redhat/Ubuntu

(4)

Item Number 1: Technical Specification For Plastic Card Printer

Specifications Overview		
1.	Card lamination	Dual Side Lamination
2.	Printing	Dual Side Simultaneous printing
3.	Print method	Resin Thermal Transfer
4.	Resolution	300 dpi (11.8 dots/mm)
5.	Print Ribbon Options:	Full colour with fluorescing and resin black, YMCFK, 500 prints
6.	Colours	Up to 16 million
7.	Print Speed (batch mode)	50 cards per hour (YMCK with transfer and dual-sided, simultaneous lamination)
8.	Accepted Standard Card Sizes	CR-80 (3.370L x 2.125W)/ 85.6 mm L x 54 mm W
9.	Accepted Card Thickness	Maximum 1.25 mm (0.05 in)
10.	Input Card Cartridge Capacity	100 cards
11.	Output Hopper Card Capacity	100 cards
12.	Warranty	Min 2 year
13.	Interfaces	USB and Ethernet
14.	Software	Compatible with Windows- XP SP3 32/64, W8 32/64
15.	Resident fonts	Arial Barcode: Code 39, Code 128, EAN 13, 2/5 interleaved

1. Card Printer Requirment

PDF417 2-D bar code symbols can be printed with most **professional-grade thermal transfer, laser, a** ink jet label printers. Next-generation SID bar code print quality shall conform to ISO/IEC 15415:20 Bar code print quality test specification two dimensional symbols, with the designation of 3.0/05/6(The designation 3.0/05/660 refers to an overall symbol grade of 3.0 obtained using a 0.125 mm apertu at a wavelength of 660 nm

Placement of the bar code printable area shall conform to ICAO specification, as contained in docume 9303, Part 1 (5th edition, 2003) and document 9303, Part 3 (2nd edition, 2002). This includes have a two line (book format) or three line (card format) **Machine Readable Zone beginning with the** characters I5. The I is mandatory and designates the SID as an ID document under the terms of 93 and the 5 is highly recommended as the secondary identifier, in this case designating it as a Seafare Identity Document.