MARKLAND

MEPR500+SCR

Multi-function Document Reader

Full-Page e-Passport Reader,Multi illumination sources:White light, Infra-red and UVA,OCR of the visual zone,RFID and Smart Card Reader

KEY STANDARD FEATURES & FUNCTIONALITY

> Multiple document reading and imaging capability

– imaging in 24-bit color

> 400 DPI high resolution imaging

> Scanning window 92mm x 125mm

> Multiple wavelength illumination

   • Visible   • IR   • UV

> OCR of the visual zone

> Complete access to OCR / RFID data and images captured via Software Development Kit (SDK)

> Enables images to be accessed as BMP and JPG format

> Auto-triggering of document capture – presence of document is automatically detected

> USB 2.0 high speed compatible

> Comes with an IP50 rating for dust ingress protection

Contact Smart Card Reading

> Supported standards — ISO/IEC 7816, T=0, T=1

> Card Size — ID-1

Product Use

The MEPR500+SCR Document Reader inspects and images Machine Readable Travel Documents (MRTDs) inavariety of market segments.

This includes applications that are primarily focused on data capture opportunities in hotels, casinos, liquor stores, bars, bank, airport, customs, embassy, government, and rental car companies.

Comprehensive Software Features

> Flexible software interface allows host application to select which illumination sources to use, image type, image compression, photo extraction, LED control, DG1~DG16 data output etc.

> Simple high level API for quick program development or detailed low level API for fine control of all reader functions

> SDK provides full configuration API

Reading Capability

The MEPR500+SCR Document Reader reads the following:

> ICAO compliant documents in near infrared (IR) per ICAO 9303 specification Parts 1-4

> ISO 14443 Type A & B & C contactless ICs at 13.56MHz

> Contact Smart Card, ISO7816,T=0, T=1, PC/SC

> Passports, e-Passports, ID cards, visas, etc.

e-Passport (RFID)

Contactless IC reading and writing capability according to:

> ISO 14443 Type-A and B and C using a PC/SC interface

> e-Passport support for ICAO 9303 LDS and PKI using included SDK

> All standardized rates, up to 848 Kbps, read-out times depend on RFID tag, operating system and amount of data stored in the chip

> PC/SC interface provides support to other card types such as Mifare™

User Feedback

> Light: programmable multicolor LEDs

> Sound: buzzer output with reading finish

Illumination

The reader illuminates documents in multiple wavelengths

> Near IR B900, 860nm

> White visible, 430-680nm

> UV A, 365nm

Resolution

> Sensor: 3.1 Megapixels, CMOS, RGB 24 bit color system

> Standard 400 DPI image resolution

Status Indicators

The reader provides user feedback via the following status indicators:

> Red - Read Error LED

> Blue - Ready LED

> Green - Reading LED

The reader performs a power-up self-test and indicate failure using status LEDs.

Maximum   flexibility in systems integration

> Software development kit provides easy migration to new reader; includes demos, code samples and utilities

Firmware Upgrade

> Upgradeable firmware via USB 2.0 interface

> Configurable via USB 2.0 interface

> Non-volatile configuration

Standard Dimensions

> Length: 21.2 cm

> Width: 16.3 cm

> Height: 9.5 cm (without light shield)

> Net Weight: < 1.3 kg; Gross Weight: < 2.3 kg

> Packing size: 37*26*25 cm

Power

> Powered from universal input external power supply: External 5VDC 2A

Input voltage 100 - 240VAC, Frequency 50 - 60Hz

Operating Environment

> Humidity: 20 to 95% (R.H. non-condensing)

> Temperature: 0º to 50º C operating; -20º to 50º C storage

Supported Operating Systems

> Windows 7/8/10/11

> Android 4.4.4 and higher

> Linux (Recompile SDK according to computer parameters)

Minimum PC Specification

Software must be installed on a customer-supplied PC. The following minimum configuration is recommended to maintain the processing speed indicated above:

> Windows: 2.0 GHz Intel Core i3, 2 GB RAM, 100 GB of Hard Drive

> Android: CPU 4 core, 1.6G or better, RAM 2G or better

Service & Maintenance

> One-year warranty

> Annual maintenance agreement available

MARKET SEGMENT	APPLICATION
Government	Quality assurance for e-Passport issuance
	Travel document authentication for border control
	Breeder document verification for ID/DL issuance
Transportation	Verify airline traveler ID or boarding pass at security checkpoint or boarding gate
Retail	ID fraud and loss prevention for mobile phone stores and car rental agencies
Financial	New account enrollment for banks
	ID verification for check cashing
Hospitality	Hotel/casino guest ID data extraction, Hotel/casino vendors and employees vetting

TECHNICAL DATA IS SUBJECT TO CHANGE WITHOUT NOTICE.

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For more information:
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