

# MARKLAND

## MEPR100+

### Multi-function Document Reader



Full-Page Passport Reader, Multi illumination sources: White light, Infra-red and UVA, Optical character recognition

#### 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 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

#### Product Use

The MEPR100+ Document Reader inspects and images Machine Readable Travel Documents (MRTDs) in a variety 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 MEPR100+ Document Reader reads the following:

- > ICAO compliant documents in near infrared (IR) per ICAO 9303 specification Parts 1-4
- > Passports, e-Passports, ID cards, visas, etc.

**e-Passport (Optional RFID reading)**

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: 210 cm
- > Width: 169 cm
- > Height: 170 cm (with light shield)
- > Net Weight: < 1.2 kg; Gross Weight: < 2.2 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: 0° to 50° C operating; -20° to 50° 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
<b>Government</b>	Quality assurance for e-Passport issuance Travel document authentication for border control Breeder document verification for ID/DL issuance
<b>Transportation</b>	Verify airline traveler ID or boarding pass at security checkpoint or boarding gate
<b>Retail</b>	ID fraud and loss prevention for mobile phone stores and car rental agencies
<b>Financial</b>	New account enrollment for banks ID verification for check cashing
<b>Hospitality</b>	Hotel/casino guest ID data extraction, Hotel/casino vendors and employees vetting