Gemalto

AT9000 MK2

Document Reader AT9000 MK2

The Gemalto Document Reader AT9000 MK2 inspects and images Machine Readable Travel Documents (MRTDs) and other documents suitable for use in a wide and commercial applications.

Functions Include:

> Support for biometrically enabled travel documents containing contact and contactless integrated circuit chips (eIDs, and ePassports)
> Optical document analysis in border management, police, transportation and other commercial markets
> Accurate, true-colour images, with patent-pending Anti-Glare technology to remove document laminate reflections or ambient light interference
> Removable hood to support oversized or very thick documents
> Quality assurance and chip encoding applications during the document issuance process

FEATURES

> Powered from USB or external PSU
> Multiple document reading and imaging in 24-bit colour matching
> No moving parts and internally sealed optical chamber to prevent dust ingress
> 400 DPI high resolution imaging
> Multiple wavelength illumination – Visible, IR, UV, Gemalto Confirm™ Security Laminate
> OCR data capture
> Complete access to OCR data and images captured via SDK
> Access to images as BMP, PNG or JPEG format

> Hoodless operation in most environments
> Auto-triggering of document capture – presence of document is automatically detected
> Windows® XP, Windows Vista®, Windows® 7 compatible
> USB 2.0 high speed compatible
> Integrated ISB 2.0 Hub 2 ports for external peripherals
> Patent Pending anti-glare technology eliminates OVDs
> Tempered glass to improve durability
> Carbon (optional) glass coating to help reduce scanning surface scratching

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SPECIFICATION

Comprehensive Software Features

Flexible software interface allows host application to select which illumination sources to use, image type, image compression, photo extraction, reflection or ambient light elimination, colour enhancement, 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

Contactless IC reading for ePassports (LDS 1.7) including Active and Passive authentication, Basic Access Control and Extended Access Control (PKI 1.11). The SDK provides writing capability using APDUs

Full SDK including DLLs, code examples, utilities and demonstration programs. Can be used with Visual C++®, Java® and Microsoft® .NET Framework for Visual Basic®.NET and Visual C#®

Reading Capability

The Gemalto OEM Document Reader KR9000 reads the following:
> ICAO compliant documents in near infrared (IR) per ICAO 9303 specification
> One line Driving Licenses in near infrared (IR) per ISO 18013 part 2 specification
> 1D barcodes (2 of 5 interleaved, 2 of 5 industrial, Code 128, and Code 39)
> 2D barcodes used on BCBP and other documents (PDF 417, QR Code®, DataMatrix™ and Aztec formats) from paper documents and some mobile devices

Illumination

The reader illuminates documents in multiple wavelengths and lighting orientations:
> Near IR B900: 880nm, +/-5%
> White visible: 430-700nm
> Ultraviolet (UVA): 365nm
> Gemalto Confirm™ Security Laminate (optional)
> 24 Bit Colour
> 8 Bit Monochrome IR

Resolution

Sensor: 3.1 Megapixels, CMOS, RGB 24 bit colour system
Standard 400 DPI image resolution

ePassport (RFID) option

Contactless IC reading and writing capability according to:
> ISO 14443 Type-A and Type-B using a PC/SC interface
> 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™
> ePassport support for ICAO 9303 LDS and PKI using included SDK
> iDL & eDL reading and access control for driving licenses to ISO 18013 parts 2&3 and ISO/CEI TR 19446 using included SDK

Enhanced Document Authentication option

Enhanced Document Authentication uses optical pattern matching to:
> Identify documents based on the type and country of origin
> Check for presence of UV dull paper
> Match security features captured from a document against a database of trusted security features
> Verify that areas are blank, devoid of patterns, text or printed matter

Firmware Upgrade

Upgradeable firmware via USB 2.0 interface
Non-volatile configuration and calibration accessed via USB 2.0 interface

Regulatory
> FCC Part 15 Class A
> UL, UL-C
> CE, CB
> WEEE & EU RoHS Directive

Environment

Humidity: 20 to 95% (R.H. non-condensing)
Temperature: -10º to 50º C operating; -20º to 50º C storage
IP50 rating for dust ingress protection in the optical chamber

Security
Slot for Kensington® Security Lock

Dimensions
19 x 16.2 x 15.7 cm (LxWxH) Weight: < 1 kg

Minimum PC Specification
> 2 GHz Pentium(R) 4 CPU
> 1GB DRAM
> USB 2.0
> 60 MB of Hard Drive space for software
> Windows® XP SP3, Windows Vista® or Windows® 7, 8, 8.1 & 10 operating systems, 32 or 64 bit
> Builds for Ubuntu 10.04 and CentOS 6, 32 bit only
> macOS (limited SDK functionality)

Status Indicators

The readers provide user feedback via the following status indicators:
> Red - Read Error LED
> Green - Valid Read LED
> Yellow - Busy LED
> Blue - Ready LED

The API provides for audible feedback via the computer speaker. The readers perform a power-up self-test and indicate failure using status LEDs.

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