KIOSK SMART

FULL-PAGE PASSPORT SCANNER
WITH OCR SOFTWARE LIBRARY & SDK

FULL-PAGE E-PASSPORT READER MODULE FOR BUILT-IN USE

KIOSK SMART is a full-page ePassport/ID reader for kiosks and automatic security gate applications. The reader module appears in an incredibly compact – 10 cm / 4 inches tall – brick design with mounting points, recessed connections, replaceable document guide bracket and status LEDs. The device has a full-size ID-3 type document reading glass platen that is factory-installed to be easily exchangeable even after the unit is in its set position for utilization.

Kiosk Smart is physical form factor optimized for e-gates and other CUSS projects. Its mounting bracket is fully 180 degrees reversible during installation, which allows the reading glass better exposure and more convenient use. Similarly to Combo Smart except its ability to read smart card chips and magnetic strips, the module is able to perform full spectrum authentication and data reading tasks and also manufactured with consideration for intuitive customer.

E-GATE   BORDER CONTROL   CAR RENTAL

LAW ENFORCEMENT   HOTEL CHECK-IN   BANKING

MAIN BENEFITS

• Accurate reading and verifying of ICAO and non-ICAO compliant identity documents
• Processing complete passports (ICAO MRZ, general VIZ, RFID and more)
• Single step OCR and RFID reading for higher security and better speed
• Reduction of data entry errors and counterfeit ID acceptance
• Variable configurations for built-in installation

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SPECIFICATIONS

Kiosk Smart provides high-resolution 500 PPI imaging with the help of LED-based visible white, IR and UV illumination. It performs regular 1D and 2D barcode reading from printed documents or smartphone screens. The scanner's physical design is aimed at building into kiosks, desks and vending machines.

Kiosk Smart offers complete RFID reading support for BAC, EAC, EAC2.0, PA, AA, PC/SC interfaces and complies with ISO & ICAO standards, while supports BAC, PACE, EAC, AA and PA as well as CA, TA, BAP and EAP. The device has two auxiliary USB ports to connect external devices and two SAM slots to store digital signatures. Kiosk Smart is compatible with Windows and Linux, uses standard TWAIN interface and comes with comprehensive development support in C/C++, C#, Visual Basic, .NET, Java.

IMAGING

Active scan area	129 mm × 89 mm
Illumination sources	LED: visible white, IR (B900), UVA (optional)
Provided images	Visible, IR, OVD image, glare-free image, UV image (optional)
Image formats	BMP, JPG, JPG2000, PNG and RAW
Image color depth	24 bits/pixels [RGB, 8 bits/pixels (IR image)]

READING CAPABILITIES

Automatic Document Detection (ADD)	YES
Reflection Removal (RR)	YES
ICAO MRZ reading	ICAO compliant documents per ICAO 9303 specification Part 1, Part 1v2, Part 2, Part 3 and Part 3v2 for Type ID-1, ID-2 and ID-3 MRZ Optical Character Recognition
VIZ reading	Available, based on user-defined fields
Barcode reading	1D: UPC-A, EAN8, EAN13, Code39, Code128, ITF and UPU 2D: PDF 417, Data Matrix, QR Code, Aztec Code From paper-based documents and mobile devices AAMVA compliant PDF417 and IATA BCBP
Barcode reading	24 bits/pixels (RGB)
RFID reading	Reading and writing contactless ICs according to: ISO 14443 Type A & B, all standardized rates up to 848 Kbps

PROGRAMMING & INTERFACES

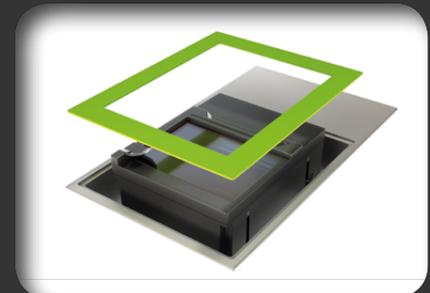|	
Supported operation systems	Windows 7, Windows 8, Windows 10, Vista (32/64 bit, WHQL certifed) 32/64 bit Server 2008 R2 and Server 2003 Linux (ask for details)
Software Development Kit (SDK)	Complete SDK including DLLs and demo programs
Programming languages	C/C++, C#, Visual Basic 6.0, Delphi, VB.NET, Java
General interfaces	ARH native, TWAIN and Micros Opera™
Advanced Document Authentication Module	Data consistency checks: MRZ vs. VIZ vs. Barcodes
PC connection	USB 2.0 high speed (USB 3.0 compatible)
Internal memory	Storing factory calibration + 16 Kbyte user dat
Firmware upgrade	Automatic, via USB

MECHANICAL DATA

Size with passport fixer	150 mm × 195 mm × 117 mm (5.90" × 7.67" × 4.60")
Size without passport fixer	150 mm × 195 mm × 108 mm (5.90" × 7.67" × 4.25")
Weight	1.01 kg (2.15 lbs.)
Operating temperature	5 °C to 40 °C (41 °F to 104 °F)
Operating humidity	0-90 % (non-condensing)
Operating humidity (non-condensing)	90 %
Power supply (V DC)	12 V DC
Max. power consumption	0.8 A / 9.6 W
IP rate	IP53
Case housing	Sturdy ABS plastic
Window glass	5.5 mm (0.22") normal glass
Programmable status LEDs	3
Compliances	FCC, CE, WEEE, RoHS
Maintenance	No moving parts, maintenance-free operation
Warranty	2-year warranty, upgradeable

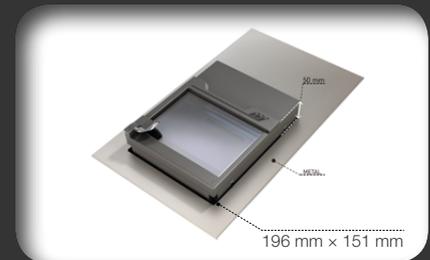## KIOSK SMART HARDWARE QUICK INSTALLATION GUIDE

Metals near the antenna of the RFID may cause performance issues. To assist your RFID reading device, provide at least 50 mm distance from any metallic surface by either installing a non-metallic molding around the scanner's edge or by raising the device.
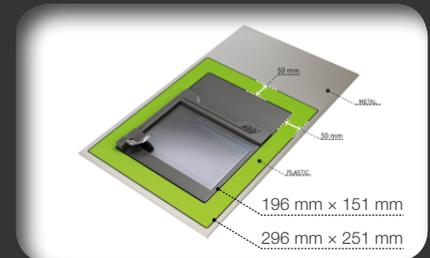
Demonstrated below the two types of mounting options:

FLUSH INSTALLATION ON METAL SURFACE – WITH INSERT MOLDING

DIRECT INSTALLATION ON METAL SURFACE

196 mm × 151 mm

See below the measurements of the suggested non-metallic molding.

196 mm × 151 mm
296 mm × 251 mm

The illustrated molding is not provided by ARH.

Technical specifications are subject to change without prior notice. This document does not constitute an offer.

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