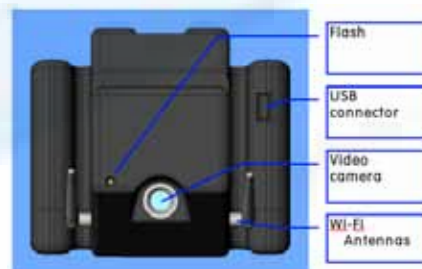




LCD Monitor
with touch
screen
Power supply
button
Keyboard of
mode control



MRZ reader
Fingerprint
scanner
RFID reader and bar code
reader
Power connector



Flash
USB
connector
Video
camera
Wi-Fi
Antennas

C o n t a c t

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Mobile Identification Device

Purpose

It is portable device and means for outdoor usage during verification of persons and collection of information about them including biometrical data.

The list of main procedures

- get a person's face image (photo)
- fingerprint scanning
- scan machine readable zone (MRZ) of a person's e-Passport or any travel document
- input additional data for person's identification
- display scanned and input information in suitable form
- processing of fingerprint image to produce fingerprint templates
- read information from RFID chip embedded in a person's ePassport
- automatic verification of a person's ePassport on the basis of received information
- define real location of the device by GPS
- automatic person's identification by matching live fingerprint template and template from RFID chip or from two dimensional bar code
- wireless communication – data exchanges by WiFi with the remote Automated Fingerprint Identification Systems (AFIS) to provide advanced identification
- scanning and recognition of two dimensional bar codes PDF417 printed on a person's identification document

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Mobile Identification Device

The device consists of:

- live fingerprint scanner
- MRZ reader
- Bar code reader
- RFID reader of ISO 14443 standard (A and B types)
- Embedded microcomputer on XScale basis
- Embedded GPS module
- Color LCD 3.5" monitor with touch screen
- WiFi module
- Special keyboard to control the devices modes
- Set of rechargeable Li-ion batteries
- video camera with electronic flash to provide a face image of high quality sufficient for face recognition

Device features

Operation time: more than 8 hours of autonomy
Weight: about 1.5 kg
Video camera: 3 Megapixel CMOS, 480x640 RGB

Fingerprint scanner

Forensic quality 500 ppi and wide capture area: active area – 25.4x25.4mm, 3 Mpixel CMOS, frame – 524x524, parameters conform to AFIS requirements. The scanner has automatic detection of finger on the platen.

MRZ reader

Swipe bidirectional ORC reading of code lines from machine readable travel documents including machine readable passports (MRP), visas (MRV) and OCRB encoded cards.

Bar code reader

Bar code – PDF417, 3 Megapixel CMOS, 2000x1500 pixels, scanning area – 86x55mm, resolution – 500±5dpi

RFID reader:

Full compatibility with ISO 14443 standard (A and B Types) up to Level 4, automatic detection of RFID chip and reading of data from the chip, size of reliable reading area – 130x90mm horizontal, up to 15 mm vertical, reading time – less than 15s.

Embedded microcomputer

processor XScale PXA270 with 520MHz, RAM – 128MB, ROM – 512MB, GPS and WiFi modules, power consumption – about 2W, OS- Windows CE 5.0 or Linux with Kernel 2.6.

Color LCD monitor, with touch screen

Diagonal size – 3.5", resolution – 640x480xRGB, brightness – 150 kd/m2, contrast – 200:1

WiFi module

distance – more than 40m.

Keyboard

16 buttons

Made in Germany