CROSSMATCH® TECHNOLOGIES

PRODUCTS

Be.U e-Passport™

Mobile Identity Verification and Credential Validation

Application Environments

- Border checkpoints
- Immigration offices
- Law enforcement agencies
- Military bases and ships

Security management programs rely on the ability to quickly identify individuals and verify their credentials. Border control agents, law enforcement officers and military personnel have come to depend on biometrics to help create secure environments.

Cross Match Be.U e-Passport is a compact handheld solution that combines biometric capture and credential validation to rapidly verify identities. Based on proven biometric technology, the rugged solution includes a fingerprint scanner and a smart card reader to authenticate e-passports. The device collects data from the Machine Readable Zone (MRZ) of ICAO standards-based e-passports, unlocking the biometric information stored on the secure RFID chips which are embedded in each electronic document. Be.U e-Passport then matches the stored biometric data against a scanned fingerprint image to verify the identity of the bearer of the e-passport.

The handheld device is lightweight and self-contained. Be.U e-Passport does not rely on snap-on swipe readers or plug-on end caps, which can be cumbersome. Designed for one-hand operation, the ergonomic package is optimized for long-term use.

Explore the possibilities. With powerful “on board” tools and wireless connectivity options, Be.U e-Passport will help enhance security and accelerate identity verification in any environment.

Be.U e-Passport™

Features

- Complete mobile e-passport validation including reading and decoding of MRZ and RFID chips
- Multiple card interfaces — contact, contactless, 1D & 2D bar codes
- Multiple wireless interfaces — WiFi, GSM
- Available: Bluetooth, GPS
- 8 hours of battery life in typical use
- Certifications: CE, FCC, TUV, WEEE
- Built-in speaker
- Cradle to support recharging battery, wired Ethernet and I/O ports

Specifications

Fingerprint Sensor
- Technology: 3-D capacitive
- Active area: 18 mm x 12.8 mm (0.7” x 0.5”)
- Spatial resolution: 508 ppi
- Capture rate: 14 frames /second

Smart Card and RFID Reader
- Contact based ISO 7816 reader
- Contactless ISO/IEC 14443-A/B reader
- Contactless ISO 15693 MIFARE DESFire reader
- Supports maximum reading speed of 848 kbs
- Enables reading and verifying of electronic e-passports compliant with ICAO standards

Interfaces
- SAM: 2, internal access
- RS-232, USB client, and USB host ports on cradle
- SDIO: 1 internal slot

Wireless Interfaces
- WiFi 802.11 a/b/g optional
- GSM 900/1800 MHz optional
- GSM 850/1900 MHz optional

Barcode Decoding
- Symbologies: 1D (Code 39, Code 128) and 2D (PDF-417 QR, Matrix)
- Targeting & illumination: LEDs (no laser)

Software
- Operating system: Windows CE 5.0
- SDK tools include:
  Fingerprint template generation
  1:1 fingerprint matching
  PC/SC smart card interface
  e-passport read and verify support

MRZ Reader
- Supports ICAO DOC 9303 passports, visas, travel documents
- Reading distance:
  150 mm - 190 mm (5.9” x 7.5”)
- Usable in low light conditions

Face Camera
- Resolution: 1280 x 1024 pixels
- Torch and flash illumination modes
- Preview image: 12 frames / second
- Focal distance: 0.76 m x 1.90 m (30” x 75”)

Mobile PC
- CPU: Intel XScale PXA270 (520 Mhz)
- Memory:
  128 MB RAM, 128 MB Flash,
  4 GB USB memory optional
- Keyboard: 4 direction buttons & 6 function buttons
- 3 software-controlled bi-color LEDs

Environmental
- Operating temperature:
  -10 ºC to 50 ºC (14°F to 122°F)
- Storage temperature:
  -20 ºC to 65 ºC (-4°F to 149°F)
  without battery
- Exceeds NIST Mobile ID Best Practice Recommendations for a law enforcement profile
- Ruggedized: Designed to meet MIL-STD-810F; supports 4 foot drop; IP 65 compliant; resistant to water, sand, salt and dust

Mechanical
- Size: 100 mm x 218 mm x 47 mm (3.9” x 8.6” x 1.9”)
- Weight: 683 g (1.5 lbs)

Display
- LCD: advanced-TFT 3.5” touch screen with backlight
- Resolution QVGA: 240 x 320 pixels
- Color: 65.536 colors (16 bit color)

The Be.U e-Passport camera enables users to read MRZ data without swiping the document.

A convenient clip holder allows one handed operation while the Be.U e-Passport reads electronic chips.

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Protecting People, Property and Privacy

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