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## Instant Passport Identity Verification

The Instant Passport Identity Verification is a handheld device designed to provide identity verification and passport authentication by reading 2D bar codes, OCR-B and contact and contactless chips found on identification documents such as Passports, Visas, Travel Cards, ID Cards, Driver's Licenses, National ID Cards, Credit Cards and Health Cards.

The Instant Passport Identity Verification is capable of supporting evolving identification document standards and features a 600 dpi scanner to accommodate full page imaging of a passport.

It also offers a contact / contactless smart card reader, a 500 dpi fingerprint sensor for instant biometric verification, and a large colour digital touch screen display readable in direct sunlight or low-light conditions, in a small handheld Windows® CE.NET unit weighing approximately two pounds.

It offers maximum flexibility and features a variety of expansion capabilities.

Third party options may be connected via USB, CF, serial and *Bluetooth®*, supporting applications such as memory expansion and global communications.

### Features

- ▶ Automatic 600 dpi full page document scanner especially designed for reading Passports and other travel documents;
- ▶ Windows CE.NET operating system and Hitachi based processor;
- ▶ Integrated 500 dpi fingerprint sensor for "on the spot" biometric identity verification;
- ▶ Open platform supporting biometric technologies from multiple industry leading biometric providers;
- ▶ High resolution colour touch screen display providing excellent clarity in direct sunlight and low light conditions;
- ▶ Optional internal 802.11b and Bluetooth wireless communication;
- ▶ Built-in CF slots;
- ▶ Extended long life Li-Polymer battery.



WI Code: 10725

Westminster International Ltd,  
Westminster House,  
Blacklocks Hill,  
Banbury,  
Oxfordshire OX17 2BS,  
United Kingdom.  
T: +44 (0)1295 756300  
F: +44 (0)1295 756302  
E: [info@wi-ltd.com](mailto:info@wi-ltd.com)  
W: [www.wi-ltd.com](http://www.wi-ltd.com)

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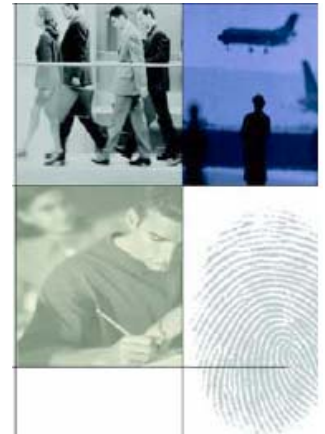
# Instant Passport Identity Verification

## Applications

- ▶ Border crossing, immigration and travel applications requiring “on the spot” biometric and travel document verification;
- ▶ Driver’s license validation for use by law enforcement and establishments offering alcohol and tobacco;
- ▶ Corrections, law enforcement and emergency responders for mobile identity and credential verification;
- ▶ Access control for manned identity verification at entry points, gates, vehicle side and other remote access areas via contact or contactless smart card and/or driver’s license;
- ▶ Use for emergency mustering point scenarios for employee tracking;
- ▶ Identity verification for wireless systems for biometric transmission to a back-end system for ports, nuclear power facilities and other highly secured areas;
- ▶ Commercial applications such as mobile point of sale and secure courier services;
- ▶ Event management for scanning ID cards and driver’s licenses to ensure tickets were purchased, identify seats, authorize access to VIP areas and verify age of cardholder.

## Specifications

- ▶ Size: Approximately 185 mm x 274 mm x 50 mm;
- ▶ Weight: Approximately: 1.22 kg;
- ▶ Operating system: Microsoft® Windows® CE.NET Version 4.2;
- ▶ Processor: Renesas SH4 7760
- ▶ Display: 3.5” colour digital transfective touch screen with stylus 240 (H) x 320 (V);
- ▶ QVGA Memory: 64MB RAM, 128MB CF storage;
- ▶ Fingerprint sensor: 500 DPI Capacitive solid-state sensor 12.5 x 15mm sensor area;
- ▶ Keypad: 5-Button backlit rubber keypad power button + 4 programmable function keys;
- ▶ Scanning subsystem: 600 dpi RGB and IR contact image sensor 90mm swipe depth;
- ▶ DSP based for optimal performance;
- ▶ Smart card interface: Contact for ISO-7816 cards contactless interface for ISO-14443;
- ▶ A/B Interface: Serial, USB Host (2), CF Slots, 1 external, 1 internal;
- ▶ LAN optional internal wireless features: WiFi 802.11b, Bluetooth;
- ▶ Other options: GSM/GPRS;
- ▶ Battery: High capacity rechargeable & user-replaceable Li-Polymer battery(s) Standard single battery provides 3000mAh (up to 8 hours normal use). Second battery can be installed by user or factory fitted at time of order and will increase internal capacity to 6000mAh (up to 16 hours normal use);
- ▶ Power supply: With AC adapter / charger:100-240 V AC, 50-60 Hz with optional auto adapter / charger: 12-19 V dc;
- ▶ Environmental: IP32.



The 500dpi fingerprint sensor allows you to capture a high quality image to positively match identity.

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## Physical Characteristics

- ▶ Dimensions 185 x 185 x 50 mm;
- ▶ Weight 930 gms;
- ▶ Standard power 950 gms
- ▶ Optional wireless 1,080 gms with 2 Batteries;
- ▶ Display 3.5" colour reflective TFT LCD 240 (H) x 320 (V) QVGA LED backlight;
- ▶ Touch screen integrated resistive touch panel;
- ▶ Keypad 5-Button backlit rubber keypad power button + 4 function keys;
- ▶ Stylus ergonomic soft-tip chrome stylus;
- ▶ I/O panels coin access to I/O connectors and battery compartment;
- ▶ Handheld adjustable weatherproof strap rubber hand grips.

## Performance

- ▶ Processor Renesas SH-4 7760 32-bit 200 Mhz;
- ▶ System memory 64 MB RAM, 16 MB ROM built-In;
- ▶ Expandable memory 128+ MB ROM via Internal CF;
- ▶ Operating system Microsoft® Windows®` CE .Net;
- ▶ Interfaces 2x USB host 1x serial (Micro-D) 1x Ethernet (RJ45) 1x external CF type I/II 2x internal CF type I/II (1 open);
- ▶ Audio internal dynamic transducer 0.5 to 4 kHz, 8 Ω, 0.15 W.

## Environmental Characteristics

- ▶ Operating temperature 0° to +40° C;
- ▶ Storage temperature -20° to +60° C;
- ▶ Relative humidity < 90% at +40° C Non-condensing;
- ▶ Drop Resistance TBD, Expected 1.2 m Multiple Drops to Concrete;
- ▶ Enclosure Sealing TBD, Expected IEC 60529 IP32.

## Regulatory Compliance

Product is expected to comply with these standards:-

- ▶ Safety - EN 60950:2000; EN 60825-1:1994+A11+A2;
- ▶ EMC - EN 55024:1998
- ▶ ESD - IEC 61000-4-2:1995;
- ▶ RFI; IEC 61000-4-3:1995;
- ▶ EFT/Burst IEC 61000-4-4:1995;
- ▶ Surge IEC 61000-4-5:1995;
- ▶ CMI IEC 61000-4-6:1996;
- ▶ PMF Immunity IEC 61000-4-8:1993;
- ▶ Voltage Disturbances IEC 61000-4-11:1994;
- ▶ Harmonic Emissions EN 61000-3-2:1995;
- ▶ Voltage Fluctuations EN 61000-3-3:1995;
- ▶ FCC Class A Device EN 55022 (FCC 15:109(g), 15:107(e))

The product shall be in conformity with the requirements of the Low Voltage Directive (72/73/EEC) and the EMC directive (89/336/EEC) as amended by (93/68/EEC).  
Regulatory markings CE, TÜV NRTL (Canada &US), TÜV GS.

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