



## RUGGED PORTABLE BIOMETRICS SOLUTIONS



**BORDER  
IN A BOX**



# OVERVIEW

## An integrated, 'go anywhere, anytime' approach to multi-modal biometrics

'Border In A Box'™ represents a world-class portable, ruggedised, multi-modal biometrics data collection, verification and communication solution. It is the result of a collaborative effort between Opentec Solutions (Australia's leading rugged portable computer system designer and manufacturer) and Daon (a world-leading biometrics application developer and systems integrator) and is explicitly designed for the field-based professional who needs flexibility, scalability, functionality, portability AND durability.

Incorporating elements from some of the world's leading biometrics solutions providers, 'Border In A Box' Pro™ and 'Border In A Box' Lite™ deliver powerful, portable biometrics capabilities. When combined with the world-class 'TrioMetrics'™ system - a wearable, UMPC-based (mini-tablet), multi-modal biometrics collection, verification and communication platform, the capability and durability offered by 'Border In A Box'™ is unmatched by any other solution.

'Border In A Box'™ is a highly modular approach to portable biometrics that has been developed in Australia to meet the specific needs of Customs, Immigration, Law Enforcement, Emergency Response, Security and Intelligence personnel who need a compact solution that's ready to 'grab and go' when it's needed, without leaving behind the features they expect in their office-based systems. When combined with secure communications options such as secure WiFi\* and long haul Wireless Broadband+, WWAN (HSDPA/UMTS) and even satellite, 'Border In A Box'™ delivers unparalleled 'anywhere-anytime' connectivity that helps deliver on this promise.

All available 'Border In A Box'™ configurations incorporate rugged portable computers that have been proven in a range of emergency services, heavy industrial, battlefield, defence situational awareness and maritime survey roles. With standard features including removable hard drives and power packs, back-up battery systems, the ability to operate using 12V or 24V vehicle power, and industry-leading levels of impact, dust and moisture resistance, they make other 'toughened' computers look like over-priced executive toys.

These ruggedised devices are the perfect platform for the 'DaonEnroll' biometrics engine, which seamlessly integrates with a range of slap/roll (fingerprint/palm print) scanners, passport/epassport scanners and flatbed document scanners, as well as an integrated digital camera with LED lighting system. With complete systems weighing as little as 7kg, all packaged in transport cases that deliver this capability safely to site despite the rigours of frequent air, marine and land/off-road travel in extremes of temperature, humidity and altitude, and you start to appreciate the underlying value inherent in every 'Border In A Box'™ system.

\* optional encrypted WiFi supports WEP, WPA/WPA2, FIPS140, Suite A/Suite B & Type A

+ optional 'long haul private' IEC 802.11 compliant wireless broadband from Microsecure supports inter-nodal distances up to 30kms, and bandwidths typically exceeding 8Mbps

### Why 'Border In A Box'™?

- Proven solution, with building blocks already in wide use in industry and defence
- Ruggedised computers proven in battlefield roles with Australian Defence
- Highly portable, integrated solution containing computer, scanner/s, camera/lighting, rechargeable power supply and power management
- Modular design with choice of input devices, computers and transport cases
- Configurations designed for mobile work groups, or single field operatives with packages weighing as little as 1kg
- Modular design to facilitate in-field configuration and swap-outs of damage components
- Local customisation to meet local needs
- Local service and repair

### Core Markets

<b>Government:</b>	Border Protection, Immigration Services Security & Intelligence Forces First Responders
<b>Military:</b>	Defence Intelligence, Counter IED
<b>Heavy Industrial:</b>	Mining, Rail, Manufacturing



# SYSTEM CONFIGURATION

## 'Fully Rugged' solutions for the field-based biometrics professional

We make in-field biometrics collection and verification simple, by providing highly modular, highly customisable, fully integrated solutions for a range of applications. **'Border In A Box' Pro™** is a transportable system incorporating multiple scanners, a digital camera and rechargeable battery packs for extended field use. **'Border In A Box' Lite™** is a 'cut down' system weighing only 7kgs; while **'TrioMetrics'**, delivers a powerful wearable auxiliary solution weighing less than 1kg.

**BORDER IN A BOX**

1. Rugged Transport Case
2. Custom formed impact resistant foam inserts
3. Industrial Rugged Computer with Magnesium Alloy chassis
4. A4 document scanner ('Pro' model only - stored below notebook)
5. Passport/ePassport scanner
6. Slap/Roll scanner
7. Digital camera with LED lighting system
8. USB hub & power management interface
9. Li-Ion power packs (inside)

### 'Border In a Box' Pro™

- total weight <20kg, including case and all hardware
- choice of Industrial Rugged computing hardware
- choice of slap/roll, passport and document scanners (max 3)
- integrated lid-mounted camera & lighting system
- integrated rechargeable Lithium Ion battery packs for extended field operation (24 hrs plus)
- integrated power management system
- integrated USB hub for device connectivity
- heavy duty Pelican transport case with custom formed protective containment system

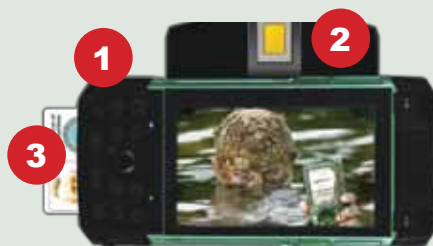
### 'Border In a Box' Lite™

- total weight ~7kgs, including case and all hardware
- choice of Industrial Rugged computing hardware
- choice of slap/roll or passport scanners (max 2)
- integrated lid-mounted camera & lighting system
- integrated rechargeable Lithium Ion battery packs for extended field operation (24 hrs plus)
- integrated power management system
- integrated USB hub for device connectivity
- heavy duty Pelican transport case with custom formed protective containment system

### 'TrioMetrics'™

A UMPC based system that features:

- a 1.6GHz CPU, 5" touchscreen UMPC & Win 7 OS
- face, finger & iris data collection via DaonEnroll
- realtime, in-palm cross-matching
- world's smallest auto-iris capture system
- LAN, WLAN, WWAN, radio or satcomms connectivity



1. Magnesium Alloy UMPC with 5" touchscreen
2. Integrated finger & auto-iris scanners, plus digital camera with flash LEDs
3. Integrated Common Acces Card (CAC) reader

# INTEGRATED WORKFLOW

INTEGRATION

## WORLD CLASS INTEGRATED SOLUTIONS

Daon leads the world in integrated biometrics solutions. Opentec Solutions leads the Australian market in ruggedised computers and computer-based integrated systems, as well as the ruggedisation of third party supplied electronics.

So when you choose a 'Border In A Box' solution, you're partnering with leaders in their respective fields, who are working together to create flexible, scalable, customised and fully integrated multi-modal biometrics collection, verification and communication systems that not only meet your organisation's needs, but excel in portability, durability and adaptability; and are further enhanced via the unique value add proposition of the principal partners.



COLLECTION, VERIFICATION & COMMUNICATION

## OPTIONS FOR BIOMETRICS DATA CAPTURE

### Fingerprint imaging:

#### Cross Match 'Guardian L-Scan' >>

- Designed for forensic-quality ten-print fingerprint capture
- In use at borders around the world
- FBI Appendix F-certified

### Face imaging:

#### Opentec integrated camera with LED lighting >>

- Retractable, boom-mounted camera fitted with LED lighting
- Based on industry-leading hi-res, low light camera module with Inventis Technology developed LED system

### Iris imaging:

- LG iCAM4000/4100 & Panasonic BM-ET330/330E ('Iris ready')

### Document imaging:

#### 3M 'AT9000' Document Reader >>

- Passports, ePassports, ID cards, visas and driver's licenses
- Magnetic stripe, contact smartcard, RFID and UHF options
- 1D and 2D barcodes from printed documents and mobile phones

### Multi-modal devices:

#### Opentec 'TrioMetrics' >>

- Multi-modal scanner with integrated single finger scanner, digital camera with dual flash LEDs & auto-iris imaging system
- Integrated with Windows 7 OS UMPC that all up weighs less than 1kg

## OPTIONS FOR DATA VERIFICATION

### Client Encounter Application:

#### Daon 'DaonEnroll' >>

- Online & Offline identity data capture modes
- Secure Local Data Storage Option
- Secure Wireless Connectivity back to base
- Automated ICAO Compliant Image Capture
- Multiple fingerprint capture options including Slaps and Rolls

### Document Authentication:

#### AssureTec 'AssureID' >>

- Automated authentication of over 1,600 ID documents, including Passports, ePassports & driver's licenses
- Document libraries allow an extensive number of document tests to be applied to determine authenticity

## OPTIONS FOR DATA INTEGRITY & COMMUNICATION

### Opentec & Microsecure Corporation:

- Opentec delivers LAN, WLAN (WiFi), WWAN (HSDPA/UMTS) & Tactical Radio enabled computer hardware
- Durable, ruggedised HDDs (Hard Drives) and SSDs (Solid State Drives) ensure data integrity
- Microsecure delivers secure, long haul broadband and satcomms capable systems that can integrate with secure government and defence networks, including support for FIPS140, Suite A/Suite B and Type 1 cryptographic systems

# RUGGEDISED HARDWARE

RUGGED PORTABLE COMPUTERS

## RUGGED PORTABLE COMPUTERS

Opentec understands what it takes to make a portable computer genuinely 'rugged'. Our reputation for delivering the most reliable, customisable COTS & MOTS grade notebook PCs, tablet PCs, UMPCs and PDAs has endured for more than 15 years, with the Australian Armed Forces 'Battlefield Command & Control System' (BCSS) having only ever been deployed on Opentec platforms because of our proven superior durability in battlefield conditions in a range of environments.

### Options for your 'BiaB Pro' System



**Opentec IPT 12**  
12.1" LCD, convertible, touchscreen, 1.6GHz CPU



**GD Itronix GD6000**  
12.1" LCD, convertible, touchscreen, 1.6GHz CPU



**Opentec RPC 13**  
12.1" LCD, convertible, touchscreen, 2.2GHz CPU

### Options for your 'BiaB Lite' System



**Opentec RPT 8**  
8.4" LCD, touchscreen, 2.0GHz CPU



**Opentec 'Drover'**  
10.4" LCD, touchscreen, 1.6GHz CPU



**Opentec RPT 5**  
5" LCD, touchscreen, 1.6GHz CPU



**Opentec RPT 7**  
7" LCD, touchscreen, 1.6GHz CPU

### Supplementary Systems

**TrioMetrics** is the world's smallest Industrial Rugged rated, UMPC (mini-tablet) based, multi-modal (fingerprint, face, iris) biometrics platform. Based on the RPT 5, this powerful, ultra-compact device is a mere 20cm wide and weighs less than 1kg, yet features a full Windows 7 OS, the world's smallest auto-iris imaging system, and even a Common Access Card (CAC) reader.



5" LCD, touchscreen, 1.6GHz CPU, 3 integrated scanners + CAC reader

Ideal for field encounters and able to be strapped to an operators forearm or carried easily in a pouch, TrioMetrics allows biometrics data collection and in-palm, real-time cross-matching and verification. The on-board SSD allows storage for 150,000+ records, while the optional GigaLAN, WiFi and tactical radio ports allow connection to a wide range of communications media for remote ABIS connection.



## ABOUT INVENTIS TECHNOLOGY

Inventis Technology is a Sydney based electronic control systems designer and manufacturer. We've been creating and delivering innovative control, management and safety solutions to electronics OEMs, emergency services, police, defence and many enterprise and government customers for more than 20 years.

Our brands include SafeZone (driver & pedestrian advance warning systems), PNE (electronic control systems for OEMs), Impart (motor vehicle control systems), EAS (emergency alert siren beacon systems) and Opentec (rugged portable computers and computer-based solutions).

**Phone: (02) 9525 4177**

**Fax: (02) 9525 5583**

**Email: [sales@inventistechnology.com.au](mailto:sales@inventistechnology.com.au)**

**Web: [opentec.com.au](http://opentec.com.au)**

**Opentec Solutions**

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Product specifications subject to change without notice

