baracoda™
Traceability

DualRunners 2D
2D Barcode and RFID HF 13.56 MHz reader/encoder
dedicated to traceability in mobile environments

- Highly performant on very small and dense 2D data

- Superior Imager reading quality, can read data on screens (PDA, mobile phones, ...)

- Huge battery autonomy

- Bluetooth Class 1 (up to 100 meters)

- Real-time clock : ideal for proof of visit or time management

- Withstand multiple drops onto concrete with its protective boot

- Interfaces with a large variety of Bluetooth® devices : PDA / mobile phone / laptop / tablet PC...

- Transportation

- Pharmacy and Medical Applications

- E-Ticketing

- Asset Tracking : barrels, tanks, vegetables

- Parcel Delivery

❖ Bluetooth®

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BDR-FS Specifications

COMMUNICATION

Bluetooth® 2.0 + EDR
Class 1 (100m)
SPP profile
Modes : Slave or Master

USER INTERFACE

Two tricolors LEDs (green, orange, red)
Buzzer (85 dBA)

USING MODES

Real Time	With or without "No Data Loss" mode
Batch	20,000 UPC codes capacity
Flash Memory	1 MByte

Real time clock to timestamp catured data can be activated

READING MODES

Trigger	Possibility to switch ON beam via Bluetooth®
Autoscan	Beam always on
Smart Autoscan	Save power consumption

No duplicate scan available function

BARCODE CAPABILITIES

Reading technology	CMOS / Imager (IT5180SF Honeywell)
Reading distance	5 to 22 cm (1.9 to 8.6 in) for barcode scanning
Scan angle	40°

SUPPORTED BARCODES

Linear barcodes	Code 2 of 5 standard, Code 2 of 5 industrial Codabar / Monarch, Code 39, Interleaved 2 of 5, Code 93, Code 11, Code 2 of 5, IATA Code 2 of 5, Matrix 2 of 5, UCC / EAN 128, UPC-E Code 128, UPC-A, GS1 Databar Omnidirectionnel (ex-RSS-14) GS1 DataBar Stacked Omnidirectionnel (RSS-14 Stacked) GS1 DataBar Expanded (RSS expanded) GS1 DataBar Expanded Stacked (RSS Expanded Stacked) GS1-128 (UCC /EAN 128)
Stacked barcodes	Code49, PDF417, Micro PDF417 Codablock.
Postal barcodes	Postnet, PosiCode, Planet Code, Canadian post, Kiw (Netherlands) Post, Japanese Post,
Matrix barcodes	QR Code, DataMatrix, MaxiCode, Aztec Code Australian Post, British Post, Code 16K, Korea Post, Telepen, China Post

RFID TECHNOLOGY

Reading technology	RFID HF 13.56 MHz
Reading distance	Contact

SUPPORTED RFID PROTOCOLS

ISO/IEC 14443-A (NXP Mifare 'Classic' 1K / 4K, Ultra Light, etc)
ISO/IEC 14443-B (ST SR, etc)
ISO/IEC 15693 (NXP ICODE-SLI, TI Tag-it, ST LRI64, ST LRI 2K)
ISO/IEC 15693 (KSW Variosens®)
NXP ICODE-1
Inside Contactless PicoTAG
ASK CTS256B/CTS512B
NFC

POWER

Battery	1 X 2200 mAh Li-ion rechargeable
Autonomy	8,000 data
Charging time	4 hours for a full charge 2h30 for a charge at 80%

PHYSICAL

Length	123 mm	(4.84 in)
Width	52 mm	(2.05 in)
Height	33 mm	(1.3 in)
Weight	144g	(5.1 oz)

ENVIRONMENT

Operating temperature	0°C - +40°C	(+32°F - +104°F)
Storage temperature	-10°C - +60°C	(+14°F - +140°F)
Operating humidity	5 - 95% (Non condensing)	
Shock	Several drops onto concrete (with protective boot)	
Ambient light	Full darkness to sunlight	

General features

Ideal for mobile applications
• DualRunners 2D has a slick design, is small and lightweight
(fits neatly in one hand and can be easily attached to a belt via the key retractable reel accessory).
• Very reliable, efficient, durable.
• Thanks to its PDA stylus, BDR-FS can also be used as a stylus on PDA

Rugged product
DualRunners 2D, with its 3 mm of plastic casing protected by an additional layer of elastomer and the optional protective boot, is particularly adapted to harsh environments and remain fully functional even after multiple drops on concrete.

Extremely durable battery
BDR-FS can read more than 8,000 barcodes or Tag ID over 24 hours of continuous use.
Battery monitoring : Check in real time the battery status of the reader on your mobile device

Superior reading quality
Can decode damaged or low quality barcodes; superior reading performance for RFID Tags also. Thanks to its Smart Focus technology, it is very aggressive on very small 2D barcodes.

"No Data Loss" mode and Auto-Reconnection
When DualRunners is connected to a host, scanned barcodes are transmitted in real time to this host. Barcodes are stored in internal memory until they are ackowledged by the application.
If you scan barcodes out of the radio range, they will be stored in memory

Internal time clock
Every data can be date and time stamped.

Batch mode
If used in batch mode, DualRunners 2D can store up to 20,000 Tags ID or UPC codes with timestamp.

Intuitive user interface
• Same button to switch on, connect and scan barcodes.
• Multi color led for connection and battery status.
• Sound beeps for successful scanning (loud volume option available for noisy environment).

Platforms compatibility
Baracoda provides you with an easy-to-use middleware (BaracodaManager) and SDK to ease the integration on the following mobile platforms: PC (including Windows 7); PPC 2002/2003 WM5 / WM6; Windows phone; CE.NET; Symbian series 9 (mobile phones) and Java phones (BlackBerry and JSR82)

Plug and Scan Solutions
For instant replacement of corded scanners, Baracoda supplies advanced Bluetooth Serial (RS232) and USB adapters with its wireless scanners. Just plug & scan - there is no need for driver installation.

Package content

1 Scanner with rechargeable battery
1 PDA stylus
1 Charger (5V, 500mA)
1 CD with all the documentation and software needed.

Non contractual data - v1.5 February 2010

Available accessories

Protective boot

Key retractable reel

Holster

Cradle 1 bay

Only to be used with DualRunners AND Protective Boot

Car Charger

Neck Lanyard