



# DualRunners 1D

1D Barcode and RFID HF 13.56 MHz reader / encoder  
dedicated to traceability in mobile environments



- A "2-in-1" reader / encoder that combines assets of both RoadRunners and TagRunners
- Huge battery autonomy
- Bluetooth Class 1 ( up to 100 meters )
- Real-time clock : ideal for proof of visit or time management
- Withstands multiple drops onto concrete with its protective boot
- Internal memory available for Batch mode
- Interfaces with a large variety of Bluetooth® devices : PDA / mobile phone / laptop / tablet PC...

- Field Services
- Parcel Delivery
- Asset Tracking
- Merchandising

# BDR-L Specifications

## STANDARD - REGULATORY

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 captured data can be activated

## READING MODES

Trigger Possibility to switch ON beam via Bluetooth®  
Autoscan Beam always on  
Smart Autoscan Save power consumption  
Aiming To target then scan the barcode

No duplicate scan available function

## BARCODE CAPABILITIES

Reading technology CMOS (Intermec EV10)  
Reading distance 4 to 50 cm (1.9 to 19 in) for barcode scanning  
Scan rate 200 scan/s  
Scan angle 40°

## SUPPORTED BARCODES

Interleaved 2 of 5, Code 2 of 5 Standard, Matrix 2 of 5  
Codabar / Monarch, Code 11, Code 128  
GS1-128 (UCC/EAN-128), Code 39, Italian PharmaCode  
Code 93, UPC-A/E, EAN8 / EAN13, JAN 8 / JAN13  
ISSN/ISBN, MSI,  
GS1 DataBar Omnidirectionnel (ex RSS-14)  
GS1 DataBar Limited (ex RSS Limited)

## 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 up to 10,000 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 148g (5.3 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 1D 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-L can also be used as a stylus on PDA

### Rugged product

DualRunners 1D, 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-L can read more than 10,000 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

### "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 within internal memory until they are acknowledged by the application.

If you scan barcodes out of the radio range, they will be stored in memory and automatically downloaded when getting back into range.

### Internal time clock

Every data can be date and time stamped.

### Batch mode

If used in batch mode, DualRunners 1D can store up to 20,000 Tag ID or UPC barcodes 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 v.1.5 - 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