baracoda™
Traceability

RoadRunners Evolution 2D

Designed for applications where form factor, weight and autonomy are key

- Highly performant on very small and dense 2D barcodes

- Superior Imager reading quality, can decode barcodes on screens

- 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

- Parcel Delivery

Bluetooth®

www.baracoda.com

BRR-FS Specifications

STANDARD - REGULATORY

Bluetooth® 2.0
SPP profile
Bluetooth certified

USER INTERFACE

Two tricolors LEDs (Orange, Green, Red)
Buzzer (85dBA)

BLUETOOTH RANGE

Class 1: up to 330 ft (100m)

OPERATING MODES

Real Time (with or without timestamp)

Batch (with or without timestamp): 10,000 UPC codes

Mode No Data Loss with buffer: up to 10,000 UPC codes

Flash Memory 1 MByte.

SCAN ENGINE

Reading technology	CMOS / Imager (IT5180SF Honeywell)
Reading distance	2 to 8 in (5 to 22 cm)
Scan angle	40°

READING MODES

Switch (option : Laser beam ON via Bluetooth)
Autoscan
Smart Autoscan

Option : "No duplicate scan"

DECODING CAPABILITIES

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

POWER

Battery	1 X 2000 mAh Li-ion rechargeable
Autonomy	over 30,000 scans
Charging time	4h for a full charge 2h30 for a charget at 80%

PHYSICAL

Length	4,84 in	(123 mm)
Width	2.05 in	(52 mm)
Height	1,3 in	(33 mm)
Weight	4,9 oz	(140g)

ENVIRONMENT

Operating temperature	32°F - +104°F	(0°C - +40°C)
Storage temperature	+14°F - +140°F	(-10°C - +60°C)
Operating humidity	5 - 95% (Non condensing)	
Shock	Several 6 ft (2 m) drops onto concrete (with protective boot)	
Ambient light	Full darkness to sunlight	

General features

Ideal for mobile applications
RoadRunners Evolution 2D has a slick design, is small and lightweight (fits 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, BRR-FS Evolution can also be used as a stylus on PDA.

Rugged product
RoadRunners, with their 3 mm of plastic casing protected by an additional layer of elastomer and the optional protective boot, are particularly adapted for harsh environments and remain fully functional even after multiple drops on concrete.

Extremely durable battery
BRR-FS Evolution can read more than 30,000 barcodes over 48 hours of continuous use.
Battery monitoring possible: visualise in real time from the mobile device the battery level status of the RoadRunners

Superior reading quality
Can decode damaged or low quality barcodes.
Thanks to its Smart Focus technology, it is very aggressive on very small 2D barcodes.

No Data Loss mode and Auto Reconnection
When RoadRunners Evolution 2D 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 and automatically downloaded when getting back into the range.

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

Batch mode:
If used in batch mode, RoadRunners Evolution 2D can store up to 10,000 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 environments).

Platforms compatibility
Baracoda provides a user-friendly middleware (BaracodaManager) and also supplies developers with state of the art SDK to ease the integration on the following platforms:
PC ; PPC 2002/2003; WM5/6; CE.NET; Palm OS, Symbian serie 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.

Available accessories

Protective boot

Key retractable reel

Cradle

Only to be used with RoadRunners AND Protective Boot

Car Charger

Neck Lanyard