



# 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

# 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  
Aiming  
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 charge 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 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 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