Intermec

Product
Profile

- **Unique design enables users to increase productivity with truly "hands-free" scanning**

- **Bluetooth™ radio communication eliminates cables and facilitates complete mobility**

- **Interfaces with Intermec terminals and personal computers**

- **Intermec EV10 linear scan engine delivers unparalleled flexibility reading high density, PDF and standard range bar codes**

- **Industrial durability stands up to harsh environments and multiple drops**

- **Small size is easily articulated for quick scanning**

Intermec's SF51 scanner incorporates a unique, light weight form factor with a magnetic attach/release mechanism to maximize productivity. The unique patent pending design takes "hands free scanning" to a new level. Instead of mounting the scanner onto the user's hands or fingers and thereby restricting use, the SF51 is designed to be worn on the waist, wrist, or chest. The attach/release mechanism can be used without looking at it. This allows the user to quickly and easily access and release the scanner when it's needed, and when done scanning, reattach the SF51 for un-inhibited use of their hands.

An extremely durable scanner with a wireless personal area network (PAN) radio based on Bluetooth™ communi-cation protocol, the SF51 can cordlessly connect to Intermec terminals without a base station, delivering an affordable, high performance solution for scan intensive applications.

The SF51 utilizes the Intermec EV10, an innovative linear scan engine with new APS CMOS technology. It delivers un-paralleled flexibility by combining high density, PDF417 and standard range bar code reading in one scan engine. The solid state scan engine delivers a snappy 200 scans per second, easily reading poor quality and damaged bar codes from up to 50 cm (19.7 inches) away.

Intermec's SF51 cordless scanner is designed for applications that require complete mobility and hands free scanning in transportation, logistics, warehousing and manufacturing envi-ronments. Used alone or coupled with an Intermec terminal or vehicle mount computer the SF51 excels in scan intensive applications such as picking, inventory management, direct store delivery, and work-in-process.

Physical Characteristics
The SF51V is a small, industrial handheld scanner that fits comfortably into the user's hand, yet rugged enough to endure multiple drops and withstand harsh environments. The SF51 will connect wirelessly to a variety of fixed and mobile computer equipment using a low power Bluetooth™ radio link. The SF51 offers ease of configuration, simple one-button operation, long battery life, snappy decode performance, and general user friendliness.

Warranty
1 Year

Physical Characteristics
Length: 15.6cm (6.1 in.)
Height: 3.3cm (1.3 in.)
Width: 4.6cm (1.8 in.) in the front tapered to 3.2cm (1.26 in.) in the rear
Weight: 263gm (9.3 oz.)

Power
Battery Type: Lithium-ion
Battery Life: 10 hours
Recharging Time: 3 hours

Terminal Connectivity
Intermec terminals with a Bluetooth radio including 700 Series and CK30 with additional support for Intermec CV60 late 2005. Will also connect to PC with USB port using an Intermec Bluetooth USB adapter.

Scanning Performance of the EV10 Scan Engine
Scan rate: 200 scans per second
Minimum X dimension: 4 mils (0.1mm)
Scan Range: up to 50cm
Scan angles: 40 degrees
Print Contrast Ratio: down to 25%
Skew: ±48°
Pitch: ±48°
Light source: 617nm Highly Visible LED

Radio Characteristics
Frequency Band: 2.4 Ghz
Radio Type: Bluetooth Class 1 version 1.2
Radio Data Rate: 1 megabit per second

Range:
Host radio Class 1: 30.5 meters (100 ft.)
Host radio Class 2: 10 meters (32.8 ft.)
Features: Adaptive Frequency Hopping (ADF)

Accessories
- Single bay charger
- Four bay charger
- Belt clip holder
- Industrial belt clip holder
- Forearm Holster
- Chest Strap Holder
- USB Bluetooth Adapter
- EasySet™ Configuration Utility

Environment
Operating Temperature: -20°C to +50°C (-4°F to +122°F)
Storage Temperature: - 20°C to +60°C (-4°F to 140°F)
Recharging Temperature: 0°C to +45°C (32°F to +113°F)
Humidity: 0 - 95% RH, Non-condensing
Shock and Vibration Protection: SAE Specification J1399 Class 3 (off road vehicle)
Rain and Dust Resistance: IP-54 rated
Drop Survival: 26 drops onto concrete or steel surface from a height of 1.8m (6 ft)
Ambient light: works in any lighting conditions from 0 to 100,000 lux

Regulatory Approvals
- UL/EN 60950 – Safety of Information Technology Equipment
- EN60825-1 – Safety of Laser Products (which also regulates LEDs)
- EN 55022 / CISPR22, Class B – Information Technology Equipment: Radio frequency disturbance characteristics
- Part 15 of FCC rules, Class B – Radio Frequency Devices
- US and Canadian UL (UL60950)
- TUV or GS (Germany) (EN60950, EN60825-1)
- NOM (Mexico) (NOM-019-SCFI-1998 based on IEC60950)
- C-TICK (Australia and New Zealand) (AS/NZS 3548 based on CISPR22)

Scan Range

Bar Code Label Size	Scan Range
4 mil	11.9cm – 12.95cm (4.7 in. - 5.1 in.)
12 mil	4.57cm – 23.9cm (1.8 in. - 9.4 in.)
20 mil	4.31cm – 30cm (1.7 in. - 11.8 in.)
40 mil	11.9cm – 39.9cm (4.7 in. - 15.7 in.)
100% UPC/EAN	4.57cm – 23.9cm (1.8 in. - 9.4 in.)

Bar Code Symbologies

Type	Name
1D	Code 128/ EAN 128
1D	Code 39
1D	Interleaved 2/5
1D	UPC/EAN/ISBN incl. add-ons
1D	2/5 Matrix, standard
1D	Codabar
1D	Code 93
1D	MSI
1D	Plessey
1D	Code 93i
1D	Code 11
1D	Telepen
1D	ISBT128
1D	RSS
Stacked	RSS
Stacked	Micro PDF*
Stacked	PDF
Stacked	Macro PDF*
Stacked	Codablock

* Only on PDF enabled model

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