Intermec

Product
Profile

- **Unique form factor and quick attach/release mechanism for truly "hands-free" scanning**

- **Bluetooth™ radio enabled for a cordless connection to Intermec terminals and personal computers**

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

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

- **Small size is easily articulated in your hand for scanning**

The combination of a flashlight style form factor and magnetic attach/release mechanism of the new Intermec® SF51 cordless scanner renders a compact, unique scanning device that easily fits in your hand or clipped to your waist. An extremely durable scanner with a wireless personal area network (PAN) radio based on Bluetooth™ communication protocol, the SF51 can cordlessly connect to Intermec terminals including the CV60, CK30, and 700 Series, without a base station, delivering an affordable, high performance solution for scan intensive applications.

Up to seven SF51s can connect to a single host with an easy association. Simply scan a bar code to establish a link to a new host device.
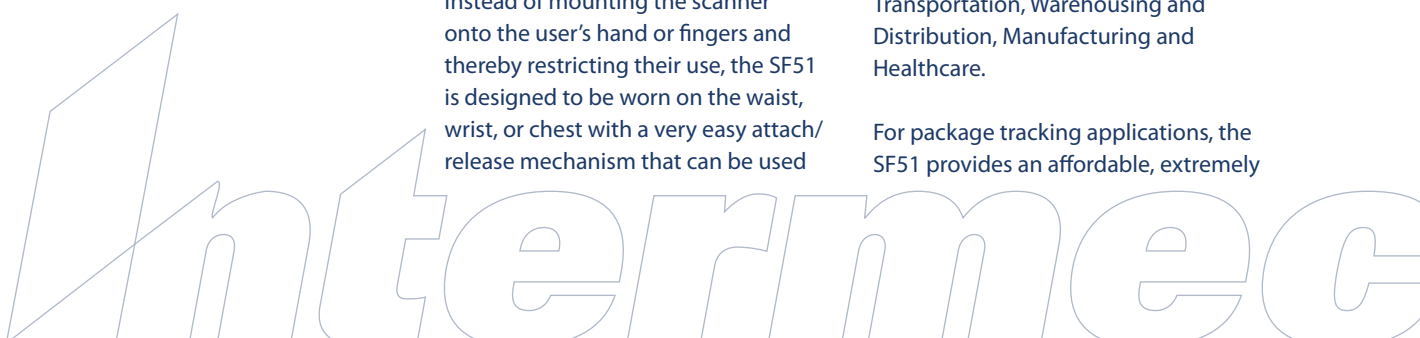
With its unique form factor and patent pending, quick attach / release mechanism, the SF51 scanner takes "hands free scanning" to a new level. Instead of mounting the scanner onto the user's hand or fingers and thereby restricting their use, the SF51 is designed to be worn on the waist, wrist, or chest with a very easy attach/release mechanism that 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.

The SF51 utilizes the Intermec EV10, an innovative linear scan engine with new APS CMOS technology. It delivers unparalleled 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 50cm away.

A ten hour battery life delivers 5000+ scans, and only needs a one hour recharge to reach 70% battery life, making the SF51 an ideal accessory for mobile or vehicle mounted computers that support scan-intensive applications within the following vertical markets: Logistics/ Transportation, Warehousing and Distribution, Manufacturing and Healthcare.

For package tracking applications, the SF51 provides an affordable, extremely

durable, yet lightweight cordless scanning solution to optimize the flow of the product from shipper to receiver. With direct store delivery applications, the SF51 acts as a peripheral scanning device to a radio-enabled PDA when applications demand 50 or more scans and the PDA proves to be less than ideal. The 100+ foot range of the SF51 allows the user to leave the more expensive host device in their truck while performing routine scanning tasks.

In warehousing and distribution, the SF51 is the ideal accessory to a vehicle mount computer because it allows the forklift driver to locate, remove and reattach the device without removing his eyes from the computer screen. In addition, the scanner is safely "stored" in a location that doesn't obstruct the driver's view with cables or mounting brackets.

The primary distribution application for the SF51 is picking as the scanner allows the user to be "hands-free" after easily reattaching the scanner to the magnetic clip, enabling the worker to quickly and easily pick products with both hands.

Within the manufacturing market, the SF51 will be used in work-in-process applications, especially when large scale products such as airplanes, trucks, and large appliances are being assembled and there is the need to get into tight spaces without the restrictions of a traditional cabled scanner or when a PDA is too large and inconvenient to scan the barcode. The 70 decibel speaker emits a clear beep, in addition to a vibration to indicate "good read", to overcome extremely noisy environments.

Used as part of a "power cart" system, or alone, for the dispersion of drugs to hospital patients, the SF51 with its harmless illumination is a safe scanning choice for healthcare. Its small form factor and ability to effortlessly attach to the magnetic tether leaving the healthcare worker's hands free, not only lessens the misplacement of the scanner in a patient's room, but gives the worker un-inhibited use of their hands.

The SF51 accessories include single and 4-bay chargers, belt-mounted, wrist-mounted and chest mounted holsters, and a USB Bluetooth adapter.

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

All Intermec terminals with a Bluetooth radio. Will also connect to PC with USB port using an Intermec Bluetooth USB Dongle.

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 Accessory
- Torso Sash Holster Accessory
- 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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