

## Product profile

# SF61B

## Rugged 2D Mobility Scanner



### SPEED

Compact form factor and available quick attach/release system enable rapid, on-demand scanning



### SCANNING

Includes the industry's fastest 2D imaging technology for snappy, omni-directional scanning



### RADIO

Bluetooth wireless easily pairs with iOS®, Android® and Windows Mobile® devices



### RUGGED

Tested to withstand 26 drops to concrete from 2 m (6.5 ft) and rated IP65 for protection from liquid and dust ingress



### BATTERY

Field-replaceable battery lasts well beyond a full shift, even in scan-intensive applications

Designed to provide the highly mobile worker with performance scanning in an extremely compact and rugged package, the SF61B integrates with existing data capture workflows and—with embedded Bluetooth wireless—easily pairs with iOS, Android and Windows Mobile smartphones and tablets. With its unique form factor and magnetic quick attach/release system, workers can accomplish their data collection tasks with more efficiency, safety and agility than ever before.

Traditional gun-shaped scanners weren't made for the worker on the go. To address this, we designed the SF61B so that it can be quickly accessed or securely stowed away as needed. A magnetic quick-disconnect system and variety of smart accessories, like wrist straps and belt loops, make it easy to rapidly access the device when needed—and just as quick to securely stow away when unencumbered use of both hands is needed.

Despite its compact size, the SF61B packs the same high performance 2D imagers as our full-size handheld scanners. With unmatched motion tolerance (up to 500 in/sec) and omni-directional reading capability, the SF61B keeps up with your workers on the go by delivering incredible scan speed at any angle. The addition of VESTA, our patented scanning algorithm,

increases read range when scanning the most common 1D codes. Advanced imaging capabilities—such as data parsing, multi-code reading, and image/video capture—are built-in and make SF61B an even more flexible data capture tool.

The robust scanning performance of SF61B is complemented with equally impressive communication and battery performance. An integrated Bluetooth Class 1 radio enables wireless communication at ranges up to 100 m (325 ft), and the field-replaceable lithium-ion battery lasts well beyond a full shift, even in the most scan-intensive applications. The SF61B offers performance characteristics commonly found in full-size scanners, at just a fraction of their size and weight.

Don't mistake the SF61B's small size for fragility. It carries an IP65 rating against liquid and solid particle ingress, making it dust-tight and capable of withstanding direct water spray-downs. Like our SR61 ultra-rugged handheld scanner, the SF61B can survive 26 drops to concrete from a distance of 2 m (6.5 ft) over a wide operating temperature range. This ruggedness, combined with a standard three-year warranty, results in decreased total operating costs over the life of the device.

### Physical Characteristics

**Dimensions with Magnet End-Cap (LxWxH):**  
15.6 cm (6.1 in) x 4.6 cm (1.8 in) x 3.9 cm (1.5 in)  
**Dimensions with Ring End-Cap (LxWxH):**  
16.0 cm (6.3 in) x 4.6 cm (1.8 in) x 3.9 cm (1.5 in)  
**Weight:** 184 gm (6.5 oz)

### Electrical Specifications

**Battery:** Lithium-ion rechargeable (2,600 mAh)  
**Battery Life**<sup>1</sup>: 28,000 scans (1D) or 25,000 scans (2D), with 1 scan every 4 seconds<sup>2</sup>  
**Recharging Time:** 3 hours

<sup>1</sup> Battery life varies depending on ambient temperature, ambient light and battery life.

<sup>2</sup> Typical number of scans possible without a battery recharge, in a typical office environment (250 lux) at ambient temperature.

### Bluetooth Radio

**Type:** Bluetooth Class 1 v2.1+EDR  
**Frequency:** 2.4 GHz with Adaptive Frequency Hopping  
**Range:** 100 m (325 ft) in open space, 30 m (100 ft) in typical work environment  
**Profiles:** HID, SPP

### Connectivity

Operating System Compatibility: Apple iOS®, Google Android®, Microsoft Windows® XP, Vista, 7, 8

### Scan Technology

**SF61BHP:** Intermec 2D Imager with Laser Aimer (EA30)  
**SF61B2D:** Intermec 2D Imager with LED Aimer (EA31)  
**SF61B1D:** Intermec Linear Imager (EV14+)

### Reading Performance

#### Maximum Code Resolution:

1D: 4 mils  
2D/HP: 6.6 mils

#### Print Contrast:

1D: 20%  
2D/HP: 20%

**Scan Rate:** 1D: Up to 200 scans/s

#### Motion Tolerance:

HP: Up to 500 in/s  
2D: Up to 400 in/s

### User Feedback

- Indication LED
- Configurable Buzzer
- Configurable Vibrator (Haptic Feedback)

### Bar Code Symbolologies for 1D Model (SF61B1D)

Codabar, Code 11, Code 39, Code 93/93i, Code 128 / GS1-128, EAN/UPC, GS1 DataBar Limited, GS1 Composite (linear only), GS1 DataBar Expanded, GS1 DataBar limited, GS1 DataBar Omnidirectional, Interleaved 2 of 5, Matrix 2 of 5, MSI, Plessey, Standard 2 of 5, Telepen

### Bar Code Symbolologies for 2D Models (SF61BHP/2D)

All above symbolologies supported by 1D model plus the following: DataMatrix, QR Code, Micro QR, PDF417, Micro PDF417, Aztec, Maxicode, Han Xin, Codablock A, Codablock F, GS1 Composite, TLC 39, and Postal Codes (Australian Post, BPO, Canada Post, Dutch Post, Infomail, Intelligent Mail, Japan Post, Planet, Postnet, Sweden Post)

### Environment

**Operating Temperature:** -20°C to +50°C (-4°F to +122°F)  
**Storage Temperature:** -40°C to +70°C (-40°F to +158°F)  
**Charging Temperature:** 0°C to 45°C (32°F to 113°F)  
**Relative Humidity:** 5 to 95% non-condensing  
**Drop:** 26 drops from 2m (6.5 ft.) to concrete  
**Environmental Rating:** IP65  
**Ambient Light:** 0 to 100,000 lux

### Regulatory Approvals & Compliance

1016SP01B (SF61B)  
**Safety:** cULus Listed  
**EMC:** Class B - FCC/ICES, CE  
**Radio:** FCC, Industry Canada, CE  
**Environmental:** EU Directives-WEEE; RoHS; Batteries & Accumulators; Packaging & Waste Packaging

### Standard Warranty

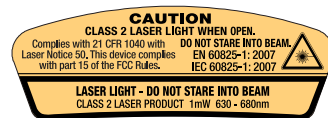
Three year standard warranty, with extended protection available through [Intermec Medallion Support Services](#).

### Accessories

View the SF61B Accessory Guide for complete details.

- Single Bay Charger\*
- Four Bay Charger\*
- Belt Clip Holder\*
- Industrial Belt Clip Holder\*
- Chest Strap Holder\*
- Wireless Base Station\*
- Ring End-Cap With Wrist Strap
- Magnet End-Cap And Belt Loop
- EasySet™ Configuration Software

\* These accessories, originally developed for SF51, are also compatible with SF61B.



Note: This warning applies only to SR31THP (EA30) models.

### Typical Reading Distances\*

Symbology	Density	Minimum Distance	Maximum Distance
Code 39	0.1 mm (4 mils)	5 cm (1.97 in)	22 cm (8.66 in)
	0.125 mm (5 mils)	4 cm (1.57 in)	27 cm (10.63 in)
	0.5 mm (20 mils)	6 cm (2.36 in)	71 cm (27.95 in)
	1 mm (40 mils)	14 cm (5.51 in)	125 cm (49.21 in)
EAN/UPC	0.33 mm (13 mils)	5 cm (1.97 in)	47 cm (1.50 in)
PDF417	0.25 mm (10 mils)	4 cm (1.57 in)	27 cm (10.63 in)
	0.38 (15 mils)	4 cm (1.57 in)	36 cm (14.17 in)
DataMatrix	0.25 mm (10 mils)	6 cm (2.36 in)	22 cm (8.66 in)
<b>SF61B2D</b>			
Symbology	Density	Minimum Distance	Maximum Distance
Code 39	0.1 mm (4 mils)	4 cm (1.57 in)	19 cm (7.48 in)
	0.125 mm (5 mils)	4 cm (1.57 in)	24 cm (9.45 in)
	0.5 mm (20 mils)	6 cm (2.36 in)	67 cm (26.38 in)
	1 mm (40 mils)	14 cm (5.51 in)	117 cm (46.06 in)
EAN/UPC	0.33 mm (13 mils)	5 cm (1.97 in)	41 cm (16.14 in)
PDF417	0.25 mm (10 mils)	4 cm (1.57 in)	25 cm (9.84 in)
	0.38 mm (15 mils)	4 cm (1.57 in)	36 cm (14.17 in)
DataMatrix	0.25 mm (10 mils)	5 cm (1.97 in)	19 cm (7.48 in)
<b>SF61B1D</b>			
Symbology	Density	Minimum Distance	Maximum Distance
Code 39	0.1 mm (4 mils)	6 cm (2.36 in)	23 cm (9.06 in)
	0.125 mm (5 mils)	5 cm (1.97 in)	25.5 cm (10.04 in)
	0.25 mm (10 mils)	5 cm (1.97 in)	32.5 cm (12.80 in)
	1 mm (40 mils)	10 cm (3.94 in)	87.5 cm (34.45 in)
EAN/UPC	0.33 mm (13 mils)	5 cm (1.97 in)	33 cm (12.99 in)

\* The reading distances for each scanner are typical distances measured from the front end of the scanner bezel in an office environment (200 lux) with extended reading range activated (if applicable).

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