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 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): 15.5 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*: 29,000 scans (1D) or 25,000 scans (2D), with 1 scan every 4 seconds*
Recharging Time: 3 hours

1 Battery life varies depending on ambient temperature, ambient light and battery life.
2 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)
SF61BD: Intermec Linear Imager (EV14+)

Reading Performance
Maximum Code Resolution:
1D: 4 mils
2D/HP: 6.6 mils
Print Contrast:
2D: 100%
Print Contrast:
2D/HP: 90%
Maximum Code Resolution:
1D: 0.25 mm (0.01 in)
2D: 0.1 mm (0.004 in)

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
Ambient Light: 0 to 100,000 lux

Regulatory Approvals & Compliance
1016SP01B (SF61B)
Safety: cULus Listed, CDRH, CE
EMC: classB-FCC/ICES, CE
Radio: FCC, IC, CE, IDA (Singapore), IFETEL (Mexico), A-Tick
Other: BIS, ANATEL, EAC, NTC, SIRIM, MSIP, 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 SF61 Accessory Guide for complete details.
• Charger, Single-Bay*
• Charger, Quad-Bay*
• Charger, Vehicle
• End Cap, Ring with Wrist Strap
• End Cap, Magnet with Belt Loop
• FlexDock Cup, Dual-Charge
• Holder, Belt Clip*
• Holder, Chest Strap
• Power Adapter, AC
• Power Adapter, USB
• Wireless Base Station*

* These accessories, originally developed for SF51, are also compatible with SF61.

Bar Code Symbologies for 2D Models (SF61BHP/2D)
All above symbologies 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)

Typical Reading Distances*
SF61BHP
<table>
<thead>
<tr>
<th>Symbology</th>
<th>Density</th>
<th>Minimum Distance</th>
<th>Maximum Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code 39</td>
<td>0.1 mm</td>
<td>5 cm (0.197 in)</td>
<td>22 cm (0.866 in)</td>
</tr>
<tr>
<td></td>
<td>0.125 mm</td>
<td>4 cm (0.157 in)</td>
<td>27 cm (1.063 in)</td>
</tr>
<tr>
<td></td>
<td>0.5 mm</td>
<td>6 cm (0.236 in)</td>
<td>71 cm (2.795 in)</td>
</tr>
<tr>
<td></td>
<td>1 mm</td>
<td>14 cm (0.551 in)</td>
<td>125 cm (4.192 in)</td>
</tr>
<tr>
<td>EAN/UPC</td>
<td>0.33 mm</td>
<td>5 cm (0.197 in)</td>
<td>47 cm (1.866 in)</td>
</tr>
<tr>
<td>PDF417</td>
<td>0.25 mm</td>
<td>4 cm (0.157 in)</td>
<td>27 cm (1.063 in)</td>
</tr>
<tr>
<td></td>
<td>0.38</td>
<td>4 cm (0.157 in)</td>
<td>36 cm (1.417 in)</td>
</tr>
<tr>
<td>DataMatrix</td>
<td>0.25 mm</td>
<td>6 cm (0.236 in)</td>
<td>22 cm (0.866 in)</td>
</tr>
</tbody>
</table>

SF61B2D
<table>
<thead>
<tr>
<th>Symbology</th>
<th>Density</th>
<th>Minimum Distance</th>
<th>Maximum Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code 39</td>
<td>0.1 mm</td>
<td>4 cm (0.157 in)</td>
<td>19 cm (0.748 in)</td>
</tr>
<tr>
<td></td>
<td>0.125 mm</td>
<td>4 cm (0.157 in)</td>
<td>24 cm (0.945 in)</td>
</tr>
<tr>
<td></td>
<td>0.5 mm</td>
<td>6 cm (0.236 in)</td>
<td>67 cm (2.638 in)</td>
</tr>
<tr>
<td></td>
<td>1 mm</td>
<td>14 cm (0.551 in)</td>
<td>117 cm (4.606 in)</td>
</tr>
<tr>
<td>EAN/UPC</td>
<td>0.33 mm</td>
<td>5 cm (0.197 in)</td>
<td>41 cm (1.614 in)</td>
</tr>
<tr>
<td>PDF417</td>
<td>0.25 mm</td>
<td>4 cm (0.157 in)</td>
<td>25 cm (0.984 in)</td>
</tr>
<tr>
<td></td>
<td>0.38</td>
<td>4 cm (0.157 in)</td>
<td>36 cm (1.417 in)</td>
</tr>
<tr>
<td>DataMatrix</td>
<td>0.25 mm</td>
<td>5 cm (0.197 in)</td>
<td>19 cm (0.748 in)</td>
</tr>
</tbody>
</table>

SF61BD
<table>
<thead>
<tr>
<th>Symbology</th>
<th>Density</th>
<th>Minimum Distance</th>
<th>Maximum Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code 39</td>
<td>0.1 mm</td>
<td>6 cm (0.236 in)</td>
<td>23 cm (0.906 in)</td>
</tr>
<tr>
<td></td>
<td>0.125 mm</td>
<td>5 cm (0.197 in)</td>
<td>25.5 cm (1.014 in)</td>
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<td></td>
<td>0.25 mm</td>
<td>5 cm (0.197 in)</td>
<td>32.5 cm (12.80 in)</td>
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<td>1 mm</td>
<td>10 cm (0.394 in)</td>
<td>87.5 cm (34.45 in)</td>
</tr>
<tr>
<td>EAN/UPC</td>
<td>0.33 mm</td>
<td>5 cm (0.197 in)</td>
<td>33 cm (12.99 in)</td>
</tr>
</tbody>
</table>

3 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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