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.

Intermec®
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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[1]: 28,000 scans (1D) or 25,000 scans (2D),
with 1 scan every 4 seconds[2]
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)
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 Symbologies 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 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)

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
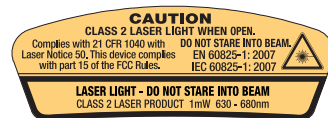& Accumulators; Packaging & Waste Packaging

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.

CAUTION
CLASS 2 LASER LIGHT WHEN OPEN.
Complies with 21 CFR 1040 with   DO NOT STARE INTO BEAM.
Laser Notice 50. This device complies   EN 60825-1: 2007
with part 15 of the FCC Rules.   IEC 60825-1: 2007

LASER LIGHT - DO NOT STARE INTO BEAM
CLASS 2 LASER PRODUCT 1mW 630 - 680nm

Note: This warning applies only to SF61BHP (EA30)
models.

Typical Reading Distances[3]
SF61BHP

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)

SF61B2D

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)

SF61B1D

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)

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).

Intermec®
by Honeywell

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About LOGISCENTER

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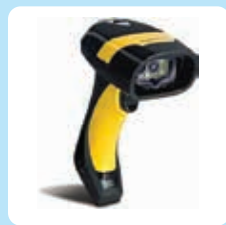## Solutions for: Industry • Consumer • Mobility Transportation and Logistics • Retail • Health

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