SF61

Cordless Scanner

User's Guide

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Document Change Record

This page records changes to this document. The document was originally released as Revision 001.

Version Number	Date	Description of Change
003	07/2014	- Added IP rating for Healthcare model. - Added reading distances for SF61B2D Healthcare model. - Corrected software reset procedure.
002	01/2014	—Added the following accessories: SD62 base station USB Power Adapter AC Power Adapter — Added the SD62 base station to the connections chapter. — Took out the SD61 base station (EOL). — Updated patent info. —Added that charging time is longer for temps of 35° C and higher. — Made corrections in "Connect the SF61B to Other Bluetooth Devices" in Chapter 2. —Added how to clean the trigger.

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Before You Begin

This section provides you with safety information, technical support information, and sources for additional product information.

Safety Information

Your safety is extremely important. Read and follow all warnings and cautions in this document before handling and operating Intermec equipment. You can be seriously injured, and equipment and data can be damaged if you do not follow the safety warnings and cautions.

This section explains how to identify and understand dangers, warnings, cautions, and notes that are in this document. You may also see icons that tell you when to follow ESD procedures and when to take special precautions for handling optical parts.

Warning

A warning alerts you of an operating procedure, practice, condition, or statement that must be strictly observed to avoid death or serious injury to the persons working on the equipment.

Caution

A caution alerts you to an operating procedure, practice, condition, or statement that must be strictly observed to prevent equipment damage or destruction, or corruption or loss of data.

Note: Notes either provide extra information about a topic or contain special instructions for handling a particular condition or set of circumstances.

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Who Should Read This Manual

This guide is for the person who is responsible for installing, configuring, and maintaining the SF61B Cordless Scanner.

This guide provides you with information about the features of the SF61B Cordless Scanner, and how to install, configure, operate, maintain and troubleshoot it.

Before you work with the SF61B Cordless Scanner, you should be familiar with your network and general networking terms, such as IP address.

Related Documents

The Intermec web site at **www.intermec.com** contains our documents (as PDF files) that you can download for free.

To download documents

1 Visit the Intermec web site at **www.intermec.com**.

2 Click the **Products** tab.

3 Using the **Products** menu, navigate to your product page. For example, to find the CN3 computer product page, click **Computers** > **Handheld Computers** > **CN3**.

4 Click the **Manuals** tab.

If your product does not have its own product page, click **Support** > **Manuals**. Use the **Product Category** field, the **Product Family** field, and the **Product** field to help you locate your documentation.

Patent Information

For patent information, please refer to **www.hsmpats.com**.

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About the SF61B Cordless Scanner

This chapter provides an overview of the SF61B Cordless Scanner. This chapter covers these topics:

- **About the SF61B Cordless Scanner**
- **Charge the Battery**
- **Understand Bluetooth Terms**
- **Default settings and custom settings**
- **Understand the SF61B Behavior**
- **Scan Bar Codes**
- **Accessories**

About the SF61B Cordless Scanner

The SF61B Cordless Scanner is a rugged purpose-built handheld scanner with an ergonomic design. It uses a Bluetooth™ radio for RF communication.

Scan button

Scanner

Status light/Intermec
Ready-to-Work indicator

Magnet end-cap
or Ring end-cap
depending on version

Beeper
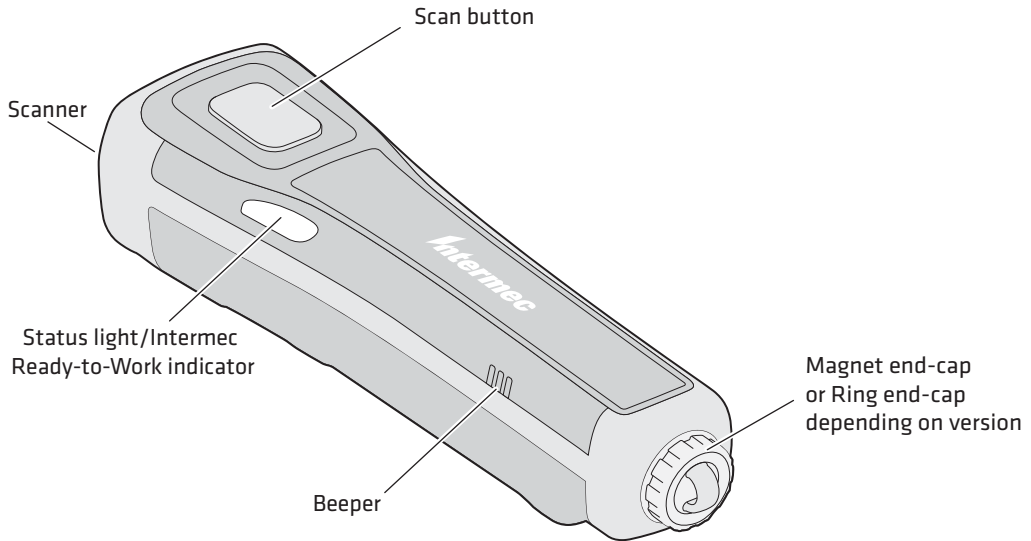
SF61B Cordless Scanner

The SF61B is available in the following models:

- 1D imager—SF61B1D-Sxxxx
- 2D imager—SF61B2D-Sxxxx
- Healthcare 2D imager—SF61B2D-Hxxxx
- High performance 2D imager—SF61BHP-Sxxxx
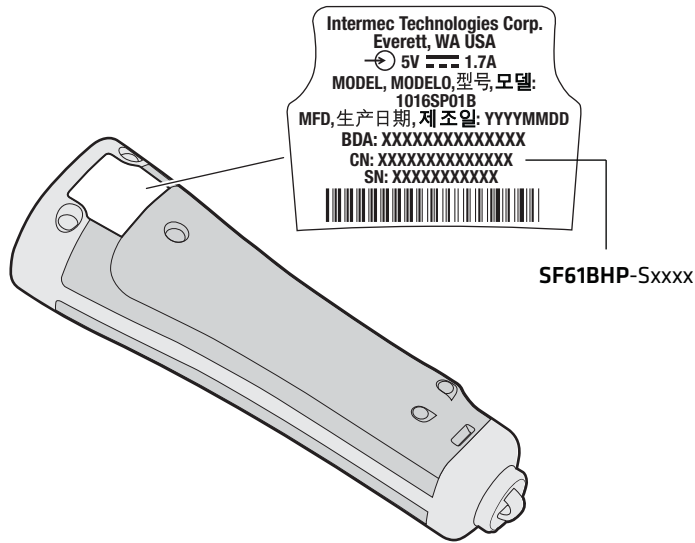
SF61BHP-Sxxxx

SF61B Model Type: The model type of your SF61B is indicated in the first part of the configuration number. In this illustration, the model type is SF61BHP-Sxxxx for high performance 2D imager.

Charge the Battery

The SF61B uses a lithium-ion battery as its main power source. You need to fully charge the scanner before using it.

The battery pack used in this device may ignite, create a chemical burn hazard, explode, or release toxic materials if mistreated. Do not incinerate, disassemble, or heat above 100°C (212°F). Do not short circuit; may cause burns. Keep away from children.

Use only Intermec battery pack Model 1016AB01 (P/N SF61-BAT-Sxxx). Use of incorrect battery pack may present risk of fire or explosion. Promptly dispose of used battery pack according to the instructions.

The SF61B can be charged using various types of charger (1-bay charger, 4-bay charger, FlexDock 4-scanner charger, a vehicle power adapter). See the **Accessories** section at the end of this chapter for more details.

Make sure you fully charge the battery before you start to use the SF61B. Should a problem arise with the battery, you can replace it (see **Replace the Battery of the SF61B** in Chapter 4).

To charge the scanner's battery

Place the SF61B in a charger bay or connect it to the vehicle power adapter. The scanner beeps twice (two-tone beep) and the status light shows the charge status:

• a fixed red light indicates "scanner charging"

• a fixed green light indicates "scanner fully charged"
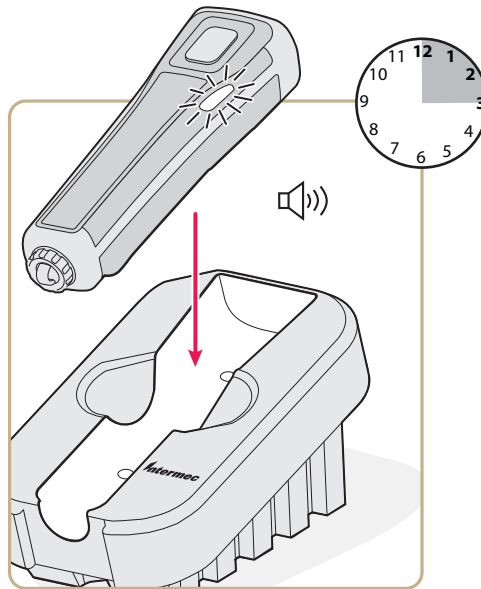
SF61B with the 1-Bay Charger

It takes approximately 3 hours to charge a fully discharged battery.

Note: Charging time is longer in temperatures of 35° C/95° F and higher.

Battery Charge Status during Operation

During SF61B operation, the status light blinks red when the battery charge is less than 20% to indicate that you should charge the battery.

Understand Bluetooth Terms

The following terms are used in this User Guide:

Pairing: To be able to connect and exchange data with a Bluetooth host device, your Bluetooth product must be "paired" with that device. The way you authorize the pairing to take place depends on the type of Bluetooth host device you are pairing with - see Chapter 2, **Connect the SF61B**, for more details.

If your Bluetooth product and your Bluetooth host device are paired but, for some reason, the connection cannot be established (your product is out of range, one or both devices have been switched off, ...), the pairing association is not lost and the devices can communicate again when they are switched on and in range.

Discoverable: Your Bluetooth product is not yet paired with a Bluetooth host device but it can be "seen" by that device (the Bluetooth host device may also be able to "see" other Bluetooth products that are nearby).

When your Bluetooth product is trying to connect or is connected to a Bluetooth host device, it is no longer discoverable.

HID and SPP: Intermec Bluetooth scanners can use two specific Bluetooth profiles to communicate with Bluetooth-enabled host devices:

- **HID**: When you use the HID (Human Interface Device) profile, your scanner is recognized as a keyboard by the host. Connection information is stored so that if the scanner loses the connection (out of range, low battery, etc.), it will try to reconnect as soon as this becomes possible again (back into range, charged battery...). No specific software is needed to collect data using the HID profile (this is not the case if you use the SPP profile).

- **SPP**: The SPP profile (Serial Port Profile) allows your scanner to communicate with the host device through the Bluetooth link as if it were a serial port. In this way, your scanner is immediately compatible with data management applications that collect data through a serial port.

Default settings and custom settings

The product behavior described in this manual corresponds to the default settings of your SF61B cordless scanner. Most of these settings can be customized using EasySet, the Intermec scanner setup software.

EasySet provides the full range of setup options for your SF61B (see **Configure Your Scanner with EasySet** in Chapter 3 for details on how to install and use EasySet).

In this Manual and in EasySet, default settings are indicated by "(*)" after the name of the default setup command.

Turn On the SF61B

To turn the scanner on, press and release the scan button. The SF61B beeps twice and vibrates at power-up (default behavior).

If your scanner connects or reconnects to a Bluetooth host device / application, it emits a series of beeps from low to high and the blue Intermec Ready-to-Work indicator turns solid blue (default scanner behavior).

Pair with a Bluetooth Host Device

If your SF61B is discoverable (not connecting or not already connected to a Bluetooth host) you can pair it with a Bluetooth host device and establish a Bluetooth connection between the two devices (see Chapter 2, **Connect the SF61B**).

Note: Being discoverable is the default behavior of the SF61B, but you can use EasySet to make your product not discoverable if you wish (**Interface > Bluetooth > Discoverable > Not discoverable**).

Connect on Power-Up

While the scanner is waiting for a connection, the blue Intermec Ready-To-Work LED blinks slowly.

Host-Initiated (Outgoing) SPP Connection

If your scanner is paired with a Bluetooth host device and was connected when it powered down, you will have to re-establish the connection manually when it powers up again.

After 5 minutes of inactivity (default behavior, modifiable), it will power down if the connection is not established.

All Other Connection Types

If your scanner is paired with a Bluetooth host device and was connected when it powered down, it will automatically try to reconnect at power-up.

After 5 minutes of inactivity (default behavior, modifiable), it will power down if the connection is not established.

Inactivity Shutdown Period

By default the SF61B shuts down after a period of inactivity of 1 hour if it is connected to a Bluetooth host and after 5 minutes of inactivity if it is not connected.

You can use EasySet to modify these inactivity timeouts (**Operating settings > Scanning / Triggering > Power down**).

Understand the SF61B Behavior

The SF61B uses lights, beeps and vibrations to indicate if a bar code has been successfully decoded.

Note: The SF61B has a different behavior (lights, beeps, vibrate alert) to its predecessor, the SF51. If you prefer to use the beep and LED mode of the SF51, you can use EasySet to activate the legacy mode (**Operating settings > Beeps / LEDs > Beep and LED mode > Legacy mode**).

Blue Intermec-Ready-to-Work Indicator

Note: The blue Intermec Ready-to-Work light is enabled by default but you can use EasySet to disable the light or choose another color if you wish (**Operating settings > Beeps / LEDs > Ready-to-Work LED**).

The blue Intermec Ready-to-Work indicator™ LED gives information about the Bluetooth connection. When a connection has been established the light is always on (blue) unless the scanner is docked in a charger (in this case the LED displays a green or red battery charge indication even though the Bluetooth connection is still active).

Blue Intermec Ready-to-Work Indicator

Light State	What it Means
Off	A Bluetooth connection has not been established.
Blinking, slow	The scanner is trying to establish a Bluetooth connection with a Bluetooth host device.
On	A Bluetooth connection is established with a Bluetooth base station or host computer and the scanner is ready to scan bar codes and send data.

When using your scanner to scan bar codes (blue light on) your scanner will also flash status information using green or red lights. See the Status Light information in the next section.

Status Light

Note: The following tables show the default behavior of the status light, you can use EasySet to modify this behavior if you wish (**Operating settings > Beeps / LEDs**).

The status light flashes green or red to indicate the status of the scanner and/or battery. Status information is sometimes shown even if the Intermec Ready-to-Work Indicator is on. This way the scanner can communicate more than one type of information at the same time.

For example while the blue LED is on to show that there is a Bluetooth connection, the scanner will flash green when you have successfully scanned and transmitted a bar code.

Default Status Light Description During Scanner Operation

Light State	What it Means
Green light on for 2 seconds	The scanner successfully decoded a bar code and sent the data to the host.
Green light flashes twice	A configuration bar code was successfully read.
Red light comes on for 2 seconds	Transmission error or Configuration bar code was not accepted
Red blinking slow	Battery power is low (< 20% - need to charge).
Red continuously on and 6 fast beeps every 2 seconds	NVM (non-volatile memory) problem.

Default Status Light Description When the Scanner is Docked in a Charger

Light State	What it Means
Red continuously on	The battery is not fully charged and is charging.
Green continuously on	The battery is fully charged.

Default Status Light Description When the Scanner is Docked in a Charger

Light State	What it Means
Red continuously on and 6 fast beeps every 2 seconds	NVM (non-volatile memory) problem.

Amber blinking	Battery charging problem:
	
	• battery failure
	  Solution: Replace the battery.
	• temperature problem: the integrated charge handler in the SF61B refuses to charge the battery due to storage or use of the SF61B and/or the battery charger outside the recommended battery charging temperature range (see recommended "Charging" temperature range in **Temperature and Environmental Specifications** in the Appendix)
	  Solution: Move the SF61B (and battery) and/or battery charger to a location where they can regain the recommended charging temperature and charge the battery (no need to replace the battery).

Beeps and Vibrate Alert

Note: The following table shows the default behavior of the beeps and vibrate alert, you can use EasySet to modify many of these settings if you wish (**Operating settings > Beeps / LEDs**).

The SF61B beeps to give you audio feedback and vibrates when performing some functions. For example, you hear a beep each time you scan a valid bar code.

Default SF61B Beep and Vibrate Alert Descriptions

Beep Sequence	What it Means
Single beep and vibrate alert	Good read - the scanner successfully scanned a bar code.
Two fast beeps and vibrate alert	Power-up.

Default SF61B Beep and Vibrate Alert Descriptions

Beep Sequence	What it Means
Two fast beeps	The scanner successfully scanned a configuration bar code
Two beeps, bi-tonal	The scanner is docked correctly in a battery charger.
Six very fast beeps and vibrate alert	Transmission error or Configuration bar code was not accepted
Series of beeps from low to high	The scanner is connecting to a Bluetooth host.
Series of beeps from high to low (cannot be deactivated)	The scanner is disconnecting from a Bluetooth host. **Note 1:** The scanner does not beep when disconnecting automatically after a long period of inactivity. **Note 2:** The scanner performs a hardware reset (restart) when it is disconnected from EasySet (two beeps and a vibrate alert by default).
Six-beep melody (cannot be deactivated)	Scanner confirmation after rescue procedure (see in Chapter 4).

Using Vibrate Alert

Note: You can use EasySet to modify the default vibrate alert settings if you wish (**Operating settings > Beeps / LEDs > Vibrate alert**).

In this Manual and in EasySet, default settings are indicated by "(*)" after the name of the default setup command.

You can configure the SF61B to vibrate when it successfully decodes a bar code. This feature can be useful in these situations:

- You are in a noisy environment, such as a busy warehouse, where it can be difficult to hear the beeps.

- You are working in a quiet environment, such as a library, where you do not want to make a lot of noise.

To turn on vibrate alert for a good read

- Scan this bar code:

  Vibrate alert - On good read - Enable (*)

To turn off vibrate alert for a good read

- Scan this bar code:

  Vibrate alert - On good read - Disable

Scan Bar Codes

For the SF61BHP do not look directly into the window area or at a reflection of the laser beam while the scanner is scanning. Long-term exposure to the laser beam can damage your vision.

Warning

The SF61B1D contains a 1D linear imager and the SF61B2D and SF61BHP contain 2D area imagers to scan bar code data. The scanner model you are using and the type of bar code you are decoding determine the way you scan the bar code.

When you unpack the SF61B, the following bar code symbologies are enabled by default:

All models (1D and 2D)
- Code 39 (*)

- Code 128 / GS1-128 (*)

- EAN/UPC (*)

2D models only
- Data Matrix (*)

- PDF417 (*)

- QR Code (*)

Note: Use EasySet to enable and configure other symbologies (you will find them in the **Symbologies** section of the EasySet commands window).

See **Configure Your Scanner with EasySet** in Chapter 3 for details on how to use EasySet.

Before you can scan bar codes and send data to your data collection application, you need to establish a Bluetooth connection between your SF61B and your Bluetooth host device. If your scanner is not connected it will emit an error beep when scanning bar codes. For more information about establishing a Bluetooth connection, see Chapter 2, **Connect the SF61B**, for more details.

To scan with an SF61B 1D imager model

1 Turn your scanner on by pressing the scan button.

2 Connect your scanner to a Bluetooth device.

3 Point the SF61B at the bar code and hold the SF61B at a slight angle 5 to 10 cm (2 to 4 in) from the label.

4 Press the scan button and direct the red beam so that it falls across all the bars in the bar code label.

Use this test bar code:

Code 39 Test Bar Code

123456

Tip: Depending on your screen resolution, you may be able to scan bar codes displayed on your computer screen.

By default, when the SF61B successfully reads a bar code label, it beeps once, the status light briefly turns green, and the scanner beam turns off. If Vibrate Alert is enabled, the SF61B briefly vibrates.

5 Release the scan button.
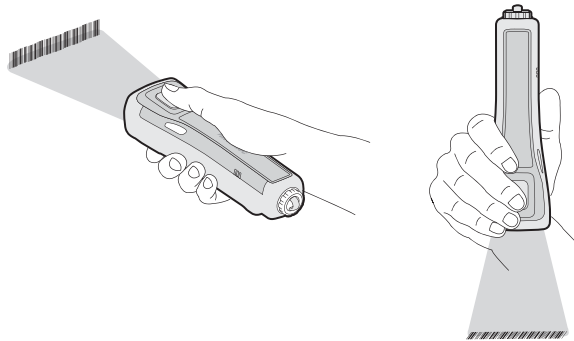
Scanning Bar Codes (example showing a 1D scanner): The aiming and scanner beams that you see depend on the SF61B model you are using.

To scan with the SF61B2D and SF61BHP

1 Turn your scanner on by pressing the scan button.

2 Connect your scanner to a Bluetooth device.

3 Point the scanner at the bar code and hold it steady a few inches from the label.

4 Press the scan button:

- If you are using the SF61B2D, use the red LED aiming beam to position the imager over the bar code or area to capture.

- If you are scanning with the SF61BHP, use the laser framing to position the imager over the bar code or area to capture.
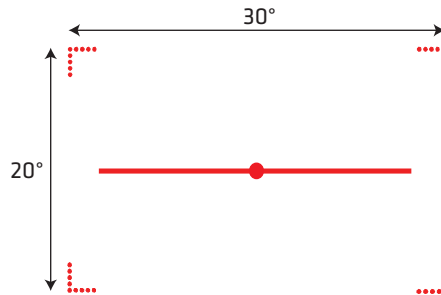
SF61BHP Laser Framing

Note: When reading bar code labels that are printed close to each other:

- use EasySet to activate the "center decoding" option to minimize the risk of reading the wrong code (**Operating settings > Data decoding security > Center decoding**)

- try to frame only the bar code you want to read to avoid reading the wrong bar code

Accessories

This section provides a list of required and optional accessories for your SF61B cordless scanner.

Required Accessories

Note: Most of the chargers in this section require a dedicated power supply. You will need to acquire a country-specific mains cable to connect it, ask your Intermec supplier or local contact for more information.

You will need one of the following chargers for your SF61B.

1-Bay Charger
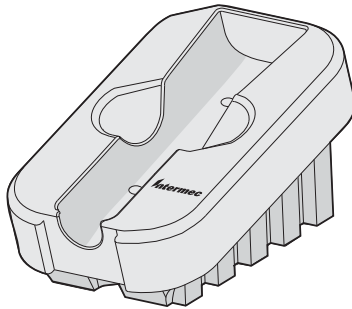
1-Bay Charger (P/N 871-221-xxx): *Used to charge a single SF61B scanner, operates with a Universal 5V power supply (P/N 851-089-306).*

4-Bay Charger
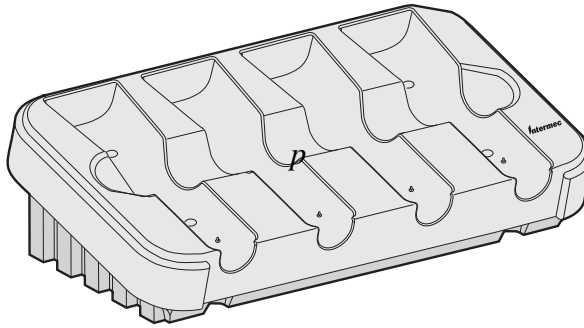
4-Bay Charger P/N 871-222-xxx: *Used to charge up to four SF61B scanners, operates with a 4-bay charger power supply (P/N 851-088-201).*

FlexDock 4-Scanner Charger
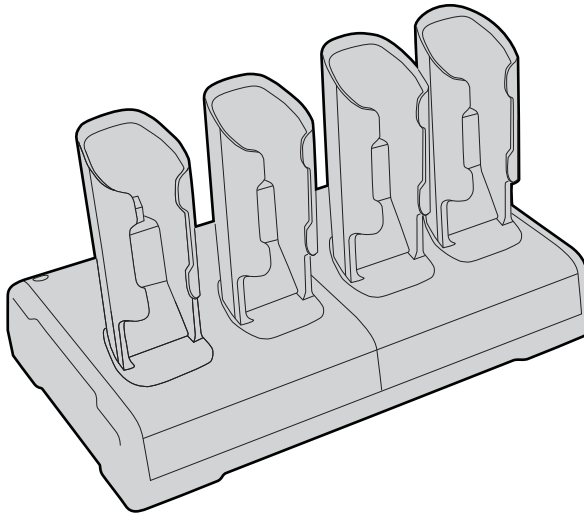
SF61 FlexDock 4-Scanner Charger (P/N DX2A28820): *Used to charge up to four SF61B scanners in two FlexDock Cups, operates with a dual-base power supply (P/N XXXXXXXX).*

FlexDock Cup
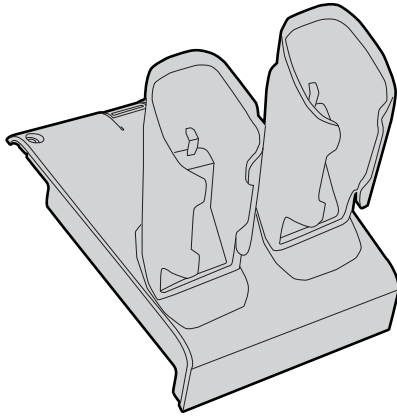
SF61 FlexDock Dual Cup (P/N 213-007-xxx): Used to charge up to two SF61B scanners in a FlexDock 4-Scanner Charger.

Vehicle Power Adapter
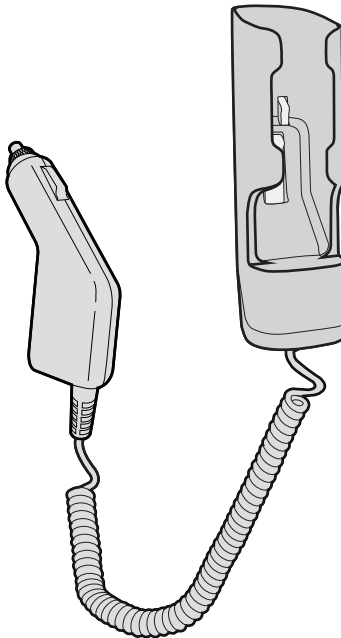
Vehicle Power Adapter (P/N SF61-VPK-Sxxx): Used to charge a single SF61B scanner from a vehicle battery (cigar lighter connection).

USB Power Adapter
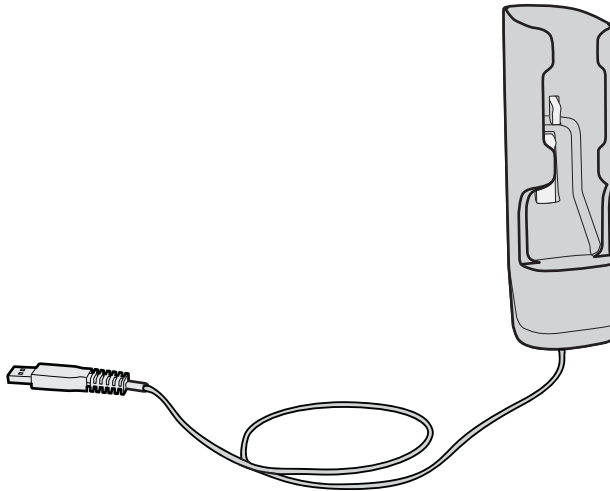
USB Power Adapter (P/N SF61-UPK-Sxxx): *Used to charge a single SF61B scanner from a USB port.*

AC Power Adapter
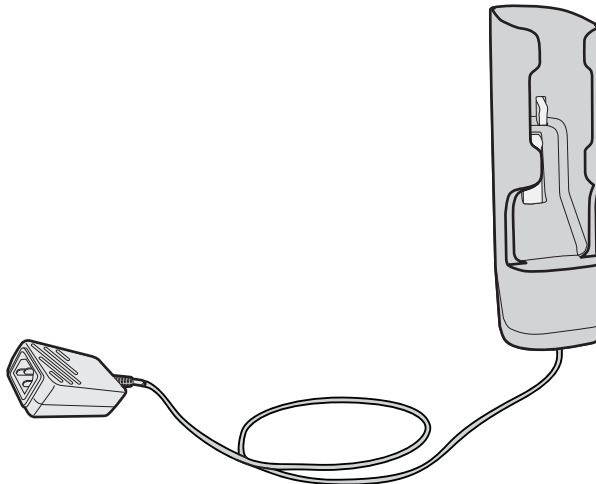
AC Power Adapter (P/N SF61-APK-Sxxx): *Used to charge a single SF61B scanner from an AC power supply. You will need a country specific power cord (sold separately).*

SF61B Battery
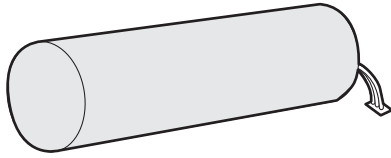
SF61B Battery (P/N SF61-BAT-xxx): *Replacement battery for the SF61B.*

Optional Accessories

The following accessories are optional.

SD62 Base Station
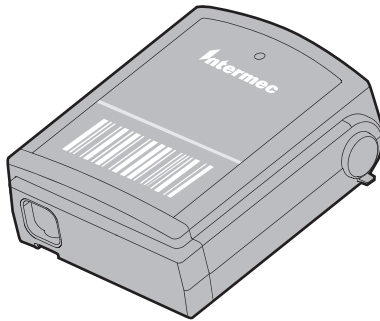
SD62 Base Station (P/N SD62-Sxxx): *The SD62 Base Station is used to connect up to seven Intermec cordless Bluetooth™ scanners to a non-Bluetooth host device.*

SF61B Magnet End-Cap & Belt Loop
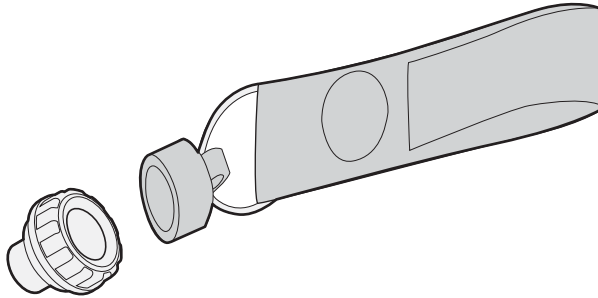
SF61B Magnet End-Cap & Belt Loop (P/N SF61-MAG-Sxxx): Convenient belt attachment accessory for the SF61B scanner, can be installed in place of a ring end-cap.

Note: For details on how to replace an SF61B end-cap, see **Replace the End-Caps of the SF61B** in Chapter 4.

SF61B Ring End-Cap & Wrist Strap
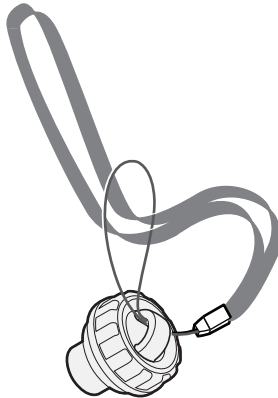
SF61B Ring End-Cap & Wrist Strap (P/N SF61-RIN-Sxxx): Convenient wrist attachment accessory for the SF61B scanner, can be installed in place of a magnet end-cap.

Note: For details on how to replace an SF61B end-cap, see **Replace the End-Caps of the SF61B** in Chapter 4.

Belt Clip Holder
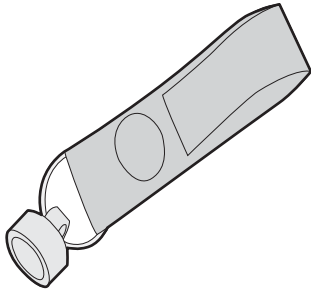
Belt Clip Holder (P/N 825-171-xxx): *Convenient accessory to attach the SF61B scanner to a belt.*

Industrial Belt Clip Holder
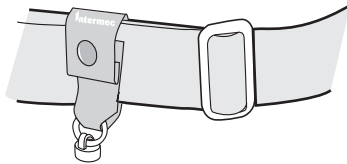
Industrial Belt Clip Holder (P/N 825-172-xxx): *Rugged accessory to attach the SF61B scanner to a belt.*

Chest Strap Holder

Chest Strap Holder (P/N 825-173-xxx): *The Chest Strap Holder is a shoulder strap and belt attachment accessory for the SF61B.*

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Connect the SF61B

Use this chapter to understand how to connect the SF61B to a number of Bluetooth devices. This chapter covers these topics:

- **Bluetooth Connection Considerations**
- **Connect the SF61B to an Intermec Computer**
- **Connect the SF61B to an Intermec SD62 Base Station**
- **Connect the SF61B to Other Bluetooth Devices**
- **Keyboard Wedge Emulation Using the SmartWedgeLite™ Application**

Bluetooth Connection Considerations

Supported Bluetooth Devices

You can use Bluetooth radio communication to connect up to seven SF61B scanners to the following devices:

- Bluetooth-enabled Intermec computers

- the Intermec SD62 Base Station (see **Optional Accessories** in Chapter 1)

- other Bluetooth-enabled devices that support the HID (Human Interface Device) or SPP (Serial Port Profile) Bluetooth profiles

Note: Intermec's SmartWedgeLite™ software provides an interesting alternative for keyboard wedge emulation for this last category of "other Bluetooth-enabled devices" as it allows simplified pairing / connection with the host.

Bluetooth Versions

Product behavior may be different depending on the Bluetooth version you are using with your product (version 2.0, 2.1, etc.).

EasySet Setup Software

To connect to a host device, you may need to install EasySet, the Intermec scanner setup software. EasySet provides the full range of setup options for your SF61B cordless scanner (see **Configure Your Scanner with EasySet** in Chapter 3 for details on how to install and use EasySet).

SF61B Bluetooth Device Address Location

When connecting your SF61B to a host device you may need to note its Bluetooth Device Address (BDA) which you will find on the product label:

Intermec Technologies Corp.
Everett, WA USA
⎯⊙ 5V ⎓ 1.7A
MODEL, MODELO,型号,모델:
1016SP01B
MFD,生产日期, 제 조일: YYYYMMDD
BDA: XXXXXXXXXXXXX
CN: XXXXXXXXXXXXX
SN: XXXXXXXXXXX

Bluetooth device address
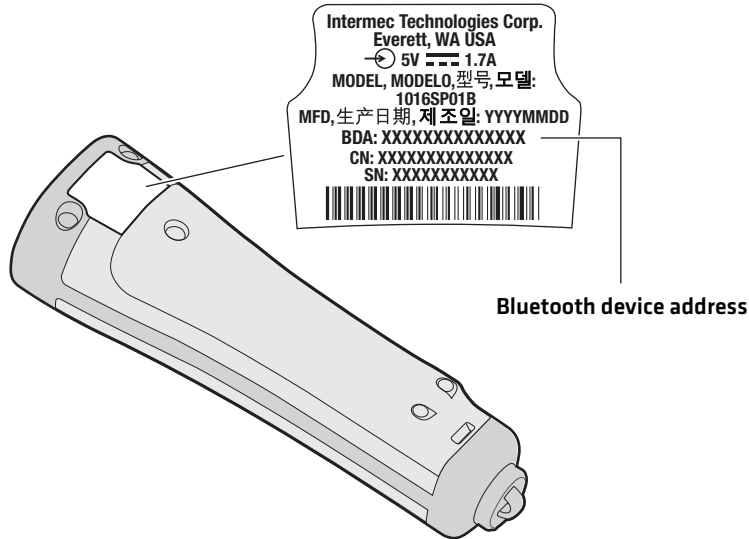
SF61B Bluetooth Device Address: *The SF61B Bluetooth Device Address (BDA) is located on the scanner label.*

You may also need the BDA of the Bluetooth host device you want to connect to.

Connection Lost Behavior

If the Bluetooth connection is lost (out of range, scanner battery too low, host reboot, etc.) the scanner will automatically try to reconnect once the problem is resolved (back into range, recharge scanner battery, etc.). If you try to read a bar code while the scanner is disconnected from the host, the scanner will emit an error beep.

Note: This automatic reconnection will not occur if the SPP Outgoing (host-initiated) profile is used to pair with the host.

Connect the SF61B to an Intermec Computer

Note: The following procedure is valid for recent Intermec computers. If your Intermec computer has a different interface to the one described here, the general principle will be the same.

Refer to the product-specific documentation for your Intermec computer for full details on how to connect Bluetooth devices to your product.

This procedure tells you how to connect your SF61B cordless scanner to a recent Intermec computer running Windows CE.

To activate Bluetooth on the Intermec computer

1 Tap **Start > Settings > Bluetooth > Mode** and check the **Turn on Bluetooth** check box.

To pair and connect the SF61B with the Intermec computer

1 Tap **Start > Settings > System > Wireless Scanning > Add Device > Quick Connect > Next**.

 The computer displays a Bluetooth association bar code containing the computer's Bluetooth Device Address (BDA).

2 Read the association bar code with your SF61B (you should be able to read it on the screen of the Intermec computer).

 The SF61B's blue Intermec Ready-to-Work indicator blinks slowly to show that it is waiting for a Bluetooth connection and the computer asks if you want to add the scanner to its device list.

3 Tap **Yes**, enter the scanner's pairing code in the **Passcode** field if it is requested (the default Intermec Bluetooth pairing code is "0000") and tap **Next**.

 The SF61B emits the "connection successful" beep sequence (series of beeps from low to high) and the Intermec Ready-to-Work indicator comes on (continuous blue by default).

 The Intermec computer displays a **Device Added** message to indicate successful pairing and connection.

4 Tap **Done** and **Finish** to exit the connection procedure.

To test the Bluetooth communication

1 Open a data input application on the Intermec computer (**Start >
   Text** for example).

2 Read the following test code to make sure your connection is
   working correctly:

Code 39 Test Bar Code

||| |||| ||| ||| |||| ||| |||| ||| ||| ||| |||

123456

Disconnect the SF61B from an Intermec Computer

Note: The following procedure is valid for recent Intermec computers.
If your Intermec computer has a different interface to the one
described here, the general principle will be the same.

Refer to the product-specific documentation for your Intermec
computer for full details on how to disconnect Bluetooth devices from
your product.

This procedure tells you how to disconnect your SF61B cordless
scanner from a recent Intermec computer running Windows CE.

To remove the SF61B from the Intermec computer

1 Tap **Start > Settings > System > Wireless Scanning > Remove
   Device > Remove**.

   The SF61B emits the "disconnect successful" beep sequence (series
   of beeps from high to low) and the Intermec Ready-to-Work
   indicator goes off.

2 Tap **Finish** to exit the disconnect procedure.

Connect the SF61B to an Intermec SD62 Base Station

You can connect up to seven Intermec Bluetooth scanners to the SD62 Base Station.

Note: If you are connecting the SR61B to the SD62 base station use the *SD62 Base Station User's Guide* and the SD62 system command file in EasySet for connections and setup.

To connect up to 7 scanners

1 Connect the SD62 base station to a host device using the correct cable for your interface.

 See the *SD62 Base Station User's Guide* available on the Intermec web site at **www.intermec.com** for details on how to connect your SD62.

2 With each scanner you want to connect, scan the **Bluetooth System Connect** bar code label on the SD62 base station and wait for the connection to be established.

 The scanner beeps twice, the green status light flashes twice and the blue Intermec Ready-to-Work indicator starts blinking (may blink for a few seconds). When the scanner connects to the base station it emits a series of beeps from low to high. The blue Intermec Ready-to-Work indicator turns on and stays on for both the scanner and base station.

Disconnect the SF61B from an SD62 Base Station

To disconnect your SF61B from the SD62 base station

1 Read the **Bluetooth Device Disconnect** bar code.

Bluetooth Device Disconnect

The SF61B emits the "disconnect successful" beep sequence (series of beeps from high to low) and the SF61B's Intermec Ready-to-Work indicator goes off.

Connect the SF61B to Other Bluetooth Devices

Bluetooth Device Profile

Choose the appropriate Bluetooth profile to communicate with your host device (a Bluetooth-enabled PC for example) depending on the requirements of your data management application:

- HID (Human Interface Device Profile) emulates keyboard data entry
- SPP (Serial Port Profile) emulates data acquisition through a virtual COM port.

HID Bluetooth Profile

With the HID (Human Interface Device) profile, your SF61B is recognized as a keyboard. No specific software is needed to collect data using the HID profile (this is not the case if you use the SPP profile).

When you pair using the HID profile, you connect straight away directly with the host.

SPP Bluetooth Profile

The SPP profile (Serial Port Profile) allows your SF61B to communicate with the host device as if the Bluetooth link was a serial port. In this way, your SF61B is immediately compatible with data management applications that collect data through a serial port.

When you pair using the SPP profile, you do not connect straight away with the host, you must then connect with your host application either through an Outgoing (host-initiated) SPP connection or through an Incoming (scanner-initiated) SPP connection.

Bluetooth Connections

You can connect to your Bluetooth device using one of the following Bluetooth connections:

- HID connection (host initiated)
- SPP outgoing connection (host initiated)
- SPP incoming connection (scanner initiated)

This section will provide the procedure for each type of connection.

Note: To connect up to EasySet, Intermec's scanner setup software, running on a Windows PC you can use either of the following:

- a HID Bluetooth connection
- a host-initiated (Outgoing) SPP Bluetooth connection

See **Configure Your Scanner with EasySet** in Chapter 3 for details on how to install and use EasySet.

HID Connection

When connected in HID, connection information is stored, meaning that if the scanner loses the connection (out of range, low battery, etc.), it will try to reconnect as soon as possible (back into range, charged battery, etc.).

To connect in HID device profile

1 Before trying to pair and connect your scanner, make sure that:

- the scanner is not already trying to establish a Bluetooth connection (blinking blue Intermec Ready-to-Work indicator), in this case read the **Bluetooth Device Disconnect** bar code:

Bluetooth Device Disconnect

- the scanner is not already paired with your Bluetooth device using another profile, in this case remove it from your host's list of Bluetooth devices
- your host is equipped for Bluetooth communication
- the scanner is turned on (if not pull the trigger to turn it on)

2 Scan the **HID Bluetooth device profile** configuration code:

Bluetooth device profile - HID

3 Pair the scanner with your device.

- Double-click the Bluetooth icon in the Windows system tray (or equivalent). The Bluetooth Devices window showing the current list of paired devices is displayed.

- Click **Add a device** or the equivalent command depending on your operating system.

  The host searches for all active Bluetooth devices within range. Your SF61B scanner appears in the Bluetooth device list with the name **SF61B - *BDA***, where *BDA* is the scanner's Bluetooth Device Address (by default - name can be changed).

Note: If the scanner does not appear in the list, it might already be paired with the host (under some operating systems, already-paired Bluetooth devices do not appear in the Bluetooth device search list).

It may also be switched off and therefore not visible to the host, press the scan button to restart the scanner.

- Select your scanner in the list and click **Next** (or the equivalent command).

  Note: If a pairing code is requested, click **Enter the device's pairing code** (or the equivalent command), enter the scanner's pairing code (the default Intermec Bluetooth pairing code is "0000") and confirm.

  Your SF61B scanner is now displayed in the host PC's list of paired devices.

After a successful pairing the scanner is automatically connected to the host - you hear the "connection successful" beep sequence (series of beeps from low to high) and see the Intermec Ready-to-Work indicator (continuous blue by default).

Test Your HID Connection With the Host
Start a simple data acquisition software such as Microsoft® Notepad and read the following test code to make sure your connection is working correctly:

Code 39 Test Bar Code

123456

> **Note:** By default the SF61B uses the North American keyboard layout. See **"Select an International Keyboard (HID Connections Only)" on page 51** if you are working with a different keyboard configuration.

To Disconnect From the Host

To disconnect from the host, scan the disconnect bar code:

Bluetooth Device Disconnect

Check that the scanner is no longer in the host's device list. If necessary, manually remove the scanner from the list

SPP Outgoing Connection (Host Initiated)

A host-initiated (Outgoing) SPP connection requires opening the Outgoing virtual COM port from your host application (EasySet or a terminal emulation program for example).

The advantage of this method is that no Bluetooth association bar code is required. However, if the connection with the host application is lost, you must reconnect by re-opening the COM port (s.

To connect in SPP device profile–outgoing connection

1 Before trying to pair and connect your scanner, make sure that:

- the scanner is not already trying to establish a Bluetooth connection (blinking blue Intermec Ready-to-Work indicator), in this case read the **Bluetooth Device Disconnect** bar code:

    Bluetooth Device Disconnect

- the scanner is not already paired with your Bluetooth device using another profile, in this case remove it from your host's list of Bluetooth devices

- your host is equipped for Bluetooth communication

- the scanner is turned on (if not pull the trigger to turn it on)

2 Scan the **SPP Bluetooth device profile** configuration code:

Bluetooth device profile - SPP (*)

3 Pair the scanner with your device:

- Double-click the Bluetooth icon in the Windows system tray (or equivalent). The Bluetooth Devices window showing the current list of paired devices is displayed.

- Click **Add a device** or the equivalent command depending on your operating system.

  The host searches for all active Bluetooth devices within range. Your SF61B scanner appears in the Bluetooth device list with the name **SF61B - *BDA***, where *BDA* is the scanner's Bluetooth Device Address (by default - name can be changed).

  Note: If the scanner does not appear in the list, it might already be paired with the host (under some operating systems, already-paired Bluetooth devices do not appear in the Bluetooth device search list).

  It may also be switched off and therefore not visible to the host, press the scan button to restart the scanner.

- Select your scanner in the list and click **Next** (or the equivalent command).

  Note: If a pairing code is requested, click **Enter the device's pairing code** (or the equivalent command), enter the scanner's pairing code (the default Intermec Bluetooth pairing code is "0000") and confirm.

  Your SF61B scanner is now displayed in the host PC's list of paired devices. The scanner is paired but not connected to your host application - you will not hear the "connection successful" beep sequence (series of beeps from low to high) or see the blue Intermec Ready-to-Work indicator (default scanner behavior) until you connect to your host application.

  SPP pairing created two Bluetooth virtual serial ports (Outgoing and Incoming).

For an Outgoing SPP Bluetooth connection, you will need to know which Outgoing virtual COM port to open from your host application.

4 Note the outgoing virtual COM port that has been created:

- Right-click the Bluetooth icon in the Windows system tray and choose **Open Settings** (or its equivalent).

  A Bluetooth settings window is displayed.

- Locate the **COM Ports** section and note the **outgoing COM** port number.

- Close the Bluetooth settings window.

5 Connect the host to the scanner by opening the COM port:

- Press the scan button to turn on your SF61B.

- Start your host application and select the Outgoing COM port that you noted previously (see above).

  Depending on your host configuration and the time elapsed since your last connection / scanner reset, a popup may indicate that a Bluetooth device is trying to connect.

  If a pairing code is requested, click **Enter the device's pairing code** (or the equivalent command) and enter the scanner's pairing code (the default Intermec Bluetooth pairing code is "0000")

- When the scanner connects to your host application, it emits a series of beeps from low to high, and the blue Intermec Ready-to-Work indicator turns solid blue (default scanner behavior).

Test Your SPP Outgoing Connection With the Host

Read the following test code and check that it is correctly displayed by the host application to make sure that your connection is working correctly:

Code 39 Test Bar Code

123456

To Disconnect from the Host

Use the Bluetooth disconnect procedure specific to your host application.

When the scanner disconnects from the host, it emits a "disconnect successful" beep sequence (series of beeps from high to low), and the blue Intermec Ready-to-Work indicator turns off (default scanner behavior).

SPP Incoming Connection (Scanner Initiated)

A scanner-initiated (Incoming) SPP connection requires reading a Bluetooth association bar code then opening the Incoming port from the host application (a terminal emulation program for example).

The advantage of this method is that the scanner automatically tries to reconnect to the host application each time the connection is lost. This method is recommended when you are collecting data for a data management application.

To connect in SPP device profile—incoming connection

1 Before trying to connect your scanner, make sure that:

- it is not already trying to establish a Bluetooth connection with another host (blinking blue Intermec Ready-to-Work indicator), in this case read the **Bluetooth Device Disconnect** bar code:

Bluetooth Device Disconnect

- it is not already paired with your Bluetooth device using another profile, in this case remove it from your host's list of Bluetooth devices

- your host is equipped for Bluetooth communication

2 Scan the **SPP Bluetooth device profile** configuration code:

Bluetooth device profile - SPP (*)

3 make sure that your host PC is enabled for Bluetooth connection from an external device (your SF61B).

- Right-click the Bluetooth icon in the Windows system tray and choose **Open Settings** (or its equivalent).

  A Bluetooth settings window is displayed.

- Under the **Options** tab (or equivalent), activate the following options or their equivalents:

  Allow Bluetooth devices to find this computer

  Allow Bluetooth devices to connect to this computer

  Alert me when a new Bluetooth device wants to connect

- Under the **COM Ports** tab (or equivalent):

  Note the host computer's Incoming COM port. If there is no incoming COM port, you must create one.

- Under the **Hardware** tab (or equivalent):

  Select **Properties > Advanced** and note the host computer's Bluetooth address.

4 Create a Bluetooth connection bar code in EasySet

- Run the EasySet scanner setup software and select the SF61B product (**Product > Select > Handheld scanners > SF61B**).

- In the EasySet commands window, open the **Interface > Bluetooth > Bluetooth connection** folder and chose **Bluetooth Quick Connect**.

- Double-click the **Compose BT address** command to enter the host's Bluetooth Device Address (BDA) you noted previously (see above), and click **OK** to confirm.

  A Bluetooth association bar code is created containing the BDA of your host computer.

5 Read the Bluetooth connection bar code. You may be able to read it on the screen in EasySet, if not you can print it out as a label and perhaps stick it on your host device where it is easy to read (suggestion).

  The blue Intermec Ready-to-Work indicator blinks slowly for 5 minutes to indicate it is waiting to connect (default scanner behavior).

      If a pairing code or validation is requested, click **Enter the device's pairing code** (or the equivalent command) and enter the scanner's pairing code (the default Intermec Bluetooth pairing code is "0000")

6 Start the host application you want to connect to and open the Incoming COM port you noted previously.

      When the scanner connects to your host application, it emits a series of beeps from low to high, and the blue Intermec Ready-to-Work indicator turns solid blue (default scanner behavior).

Test Your SPP Incoming Connection With the Host

Read the following test code and check that it is correctly displayed by the host application to make sure that your connection is working correctly:

Code 39 Test Bar Code

123456

To Disconnect From the Host

Use the Bluetooth disconnect procedure specific to your host application to close the Incoming COM port.

When the scanner disconnects from the host PC, it emits a "disconnect successful" beep sequence (series of beeps from high to low), and the blue Intermec Ready-to-Work indicator blinks slowly for 5 minutes to indicate it is waiting to connect (default scanner behavior).

When you open the Incoming COM port again, if the scanner is switched on it will reconnect to the host application.

Note: Using the **Bluetooth Device Disconnect** bar code to disconnect your scanner will disconnect it permanently - it will not go into the "waiting to connect" state (no blinking blue light) and you will have to read the hosts' association bar code label again to re-establish the connection.

Bluetooth Device Disconnect

Connect to Other HID Devices (Smartphones, Tablets, PDAs, etc.)

You can use your SF61B with many types of portable computer devices running various operating systems (Win32, Android, WinCE, iOS, ...).

EasySet provides some useful predefined quick-setup commands to simplify the HID Bluetooth connection for devices of this type (see the **Interface > Device profile > Predefined HID profile** folder in the EasySet commands window):

- PC/Linux
- WinCE 5 / WinMobile 6.x / Android
- iOS & MacOS (including a way to control the iOS virtual keyboard from your scanner)

The Intermec web site also provides Technical Bulletins to help you connect to devices of this type:

- **Connecting a scanner via HID to an Android tablet**
- **Connecting a scanner via HID to iPad or iPhone**

Note: When using your SF61B with an iPad tablet computer, reading bar codes containing more than 200 characters may cause problems (iPad application crash, unwanted restart of the scanner).

We recommend that you take this limitation into account when working with an iPad.

Keyboard Wedge Emulation Using the SmartWedgeLite™ Application

Intermec's SmartWedgeLite™ software provides an interesting alternative for keyboard wedge emulation as it allows simplified pairing / connection with the host.

SmartWedgeLite uses the SPP Bluetooth profile to make the connection but sends data from the scanner as if it was entered from a keyboard.

Note: For more information about SmartWedgeLite, see the application's integrated help or online help at **http:// intermec.custhelp.com/app/answers/detail/a_id/13629/kw/ smartwedgelite**.

Run SmartWedgeLite

Note: You can download SmartWedgeLite at: **http://www.intermec.com/products/scansf61b/index.aspx**

Before connecting your scanner using SmartWedgeLite, make sure that your host PC is Bluetooth-enabled and that SmartWedgeLite is installed.

To connect your scanner as a keyboard wedge using SmartWedgeLite

1 Scan the **Bluetooth device profile - SPP** configuration bar code:

Bluetooth Device Profile - SPP (*)

2 Start SmartWedgeLite.

3 Perform one of the following procedures to connect to the host.

Scanner-initiated (Incoming) Connection with SmartWedgeLite

Note: With the scanner-initiated (Incoming) connection, if your scanner loses the connection with the host PC it will automatically try to reestablish it.

Read the Host's Association Bar Code in SmartWedgeLite
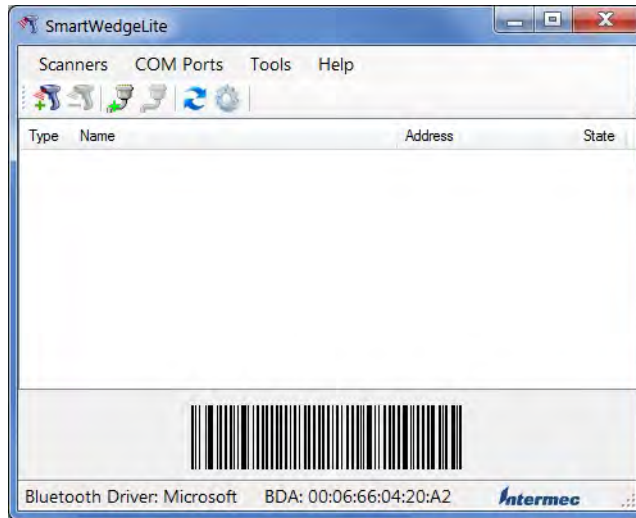
SmartWedgeLite main screen with the host's association bar code

To read the host's association bar code in SmartWedgeLite

1 Read the association bar code displayed in the SmartWedgeLite main window (the bar code contains the host's Bluetooth Device Address).

Host-initiated (Outgoing) Connection with SmartWedgeLite

Note: With the host-initiated (Outgoing) connection, if your scanner later loses the connection with the host PC, you will need to follow the connection procedure again to reestablish the Bluetooth connection.

Use the SmartWedgeLite Device List to Connect
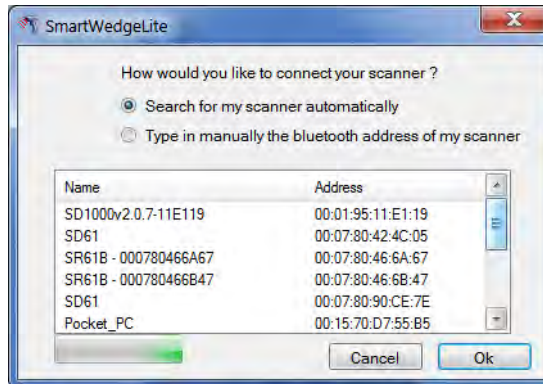
Host-initiated connection: Choosing your scanner from SmartWedgeLite's list of detected Bluetooth devices

To choose your scanner from the SmartWedgeLite device list

1 Click on **Scanners** > **Add scanner** (or the ![icon] icon).

2 Select **Search for my scanner automatically**.

3 Choose your scanner from the list of detected Bluetooth devices and click **OK**.

Use the Scanner's Bluetooth Device Address to Connect
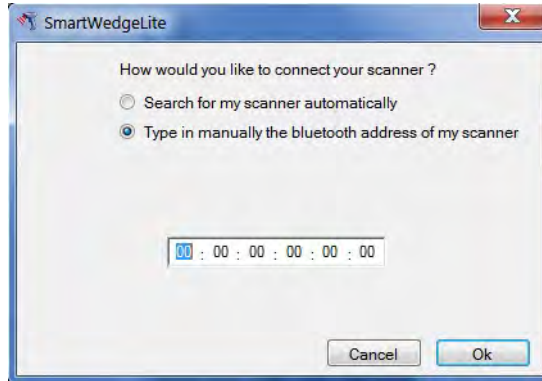
Host-initiated connection: Entering your scanner's Bluetooth Device Address in SmartWedgeLite

To enter your scanner's Bluetooth Device Address in SmartWedgeLite

1 Click on **Scanners** > **Add scanner** (or the 📟 icon).

2 Select **Type in manually the Bluetooth address of my scanner**.

3 Enter your scanner's Bluetooth Device Address and click **OK**.

Successful Scanner Connection (SmartWedgeLite)
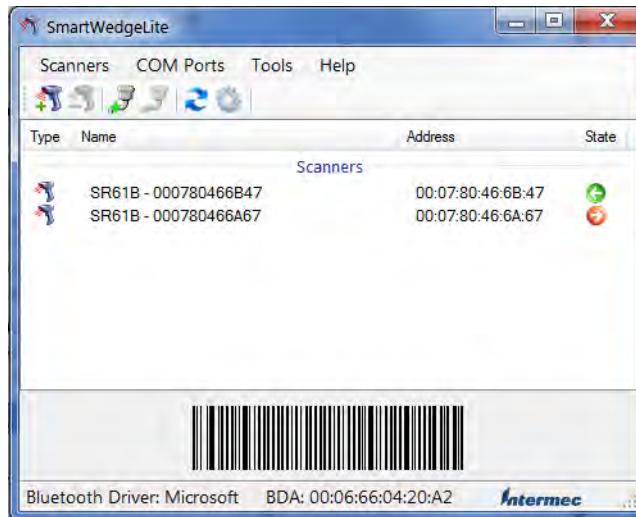
Connected scanners and connection statuses: *An operational Incoming connection and a problem with an Outgoing connection*

When the scanner connects to the host PC, it emits a "connection successful" beep sequence (series of beeps from low to high) and the Intermec Ready-to-Work indicator comes on (continuous blue by default).

The scanner is added to the list of connected scanners in the SmartWedgeLite *Scanners* window.

An arrow indicates if the connection is incoming 🟢 or outgoing 🟢. The color of the arrow indicates if the connection is operational (green) or if there is a connection problem (red).

Disconnect your Scanner from SmartWedgeLite

To disconnect your scanner

1 Select your scanner in the list of connected devices in the SmartWedgeLite *Scanners* window.

2 Do one of the following:

- click **Scanners** > **Remove scanner**
- click the icon
- press the <Del> key on your keyboard

Your scanner is disconnected.

3

Configure the SF61B Cordless Scanner

This chapter provides some basic configuration bar codes and information on how to configure the SF61B using the EasySet scanner setup software or your Intermec computer. This chapter includes:

- **Basic Setup with Configuration Bar Codes**
- **Configure Your Scanner with EasySet**
- **Configure your Scanner From Your Intermec Computer**

Basic Setup with Configuration Bar Codes

This section provides configuration bar codes for a basic setup of your scanner. Many more configuration options are available with EasySet or with your Intermec computer, see **Configure Your Scanner with EasySet** and **Configure your Scanner From Your Intermec Computer** in the present chapter.

Default values are indicated by "(*)" in this manual and in EasySet.

Reset Your Scanner (Software Reset)

Read the **Reset factory defaults** configuration bar code to reset your scanner's parameter settings to their initial values.

Reset factory defaults

You can also perform a software reset of your SF61B using one of the following methods:

- by sending a **Reset factory defaults** command to the scanner in online setup with EasySet (see **Online Setup with EasySet** in the present chapter)

- by forcing a software reset of the scanner (see **Force a Software Reset** in Chapter 4, **Troubleshoot and Maintain the SF61B**)

The resulting software reset will reset your scanner's parameter settings to their initial values so you will have to reconfigure any custom settings you have programmed in your scanner.

✎ **Note:** Depending on your host configuration (device, Bluetooth version), after a software reset of your scanner (**Reset factory defaults**) you may have to re-pair your product with your host device / application (see the appropriate section in Chapter 2, **Connect the SF61B**), and in all cases you will have to re-connect with your host.

Select an International Keyboard (HID Connections Only)

By default the SF61B uses the **North American Windows** keyboard layout when it is connected using the HID Bluetooth profile.

Use the following configuration bar codes to select the keyboard for your country. Additional keyboards are available in EasySet.

North American Windows (*)

French Windows

French Canadian Windows 95/98

French Canadian Windows XP/2000

German Windows

Spanish Windows

Italian Windows

UK English Windows

Japanese Windows

Brazilian Portuguese Windows

Czech Republic Windows

Slovakian Windows

Hungarian 101-key

Configure the Postamble

The default postamble is **<CR> <LF>**. For certain applications or when using your scanner as an HID Bluetooth device you may need to change this setting. Use the following configuration bar codes to change the default postamble in your scanner.

More postamble options are available with EasySet or with your Intermec computer (see **Configure Your Scanner with EasySet** and **Configure your Scanner From Your Intermec Computer** in the present chapter).

Carriage Return + Line Feed (*)

||| | ||||| ||||||||||||| ||| | |||||| |

None

||| | |||||| ||||||||||||| |||

Carriage Return

||| | |||||| ||||||||||||| ||| | ||||| |

Enter

||| | | |||||| ||||||||||||| ||| |||||| |||

Configure Your Scanner with EasySet

EasySet is Intermec's Windows-based scanner setup software application.

You can use EasySet to set up your scanner product in two ways:

- Online setup—send configuration commands from EasySet directly to your scanner.

- Online setup via the SD62 base station—send configuration commands from EasySet to the scanner via the SD62 base station

- Offline setup—send configuration commands to a bar code setup sheet, print out the setup sheet and scan the bar codes with your scanner.

If it is not already installed on your host PC, download and install the latest version of EasySet at this link on the Intermec web site:

www.intermec.com/EasySet

We recommend that you install EasySet in the default location proposed by the installer.

Online Setup with EasySet

Note: In the following procedure you will use one of the following methods to connect your scanner to EasySet for online setup:

- HID Bluetooth connection
- host-initiated (Outgoing) SPP Bluetooth connection

To configure your scanner online by sending commands from EasySet

1 Pair your SF61B with your EasySet host PC and connect it using one of the following methods described in Chapter 2:

   - **for an HID connection:** see **To connect in HID device profile** (with HID, pairing and connection are simultaneous)

   - **for a host-initiated (Outgoing) SPP connection:** see **To connect in SPP device profile—outgoing connection**.

2 Start EasySet and select the SF61B product (**Product > Select > Handheld scanners > SF61B**).

   If the Select product dialog box does not appear, choose **Product > Select** or click on the product icon in the upper left corner of the EasySet window.

3 Select **Communication > Select communication interface.** The Device Selection dialog box appears.

4 Select the connection channel corresponding to the connection method you have chosen (Bluetooth Keyboard for an HID connection or the Outgoing virtual COM port for a host-initiated SPP connection) and click **OK**.

5 EasySet connects to your scanner and displays your scanner's current configuration settings in blue next to the commands.

   These settings are indicated by a blue check mark or blue text.

   Open the folders in the EasySet commands window to find the configuration commands you need and double-click each command to send it to your scanner.

Note: The scanner does not beep when you send configuration commands online from EasySet. It powers off when you select **Disconnect** from the **Communication** menu in Easyset.

To disconnect your scanner from EasySet

1 Select **Disconnect** from the **Communication** menu in Easyset.

HID connection: the scanner disconnects from EasySet and restarts, and then goes into "ready to work" mode (the blue Intermec Ready-to-Work indicator comes on) as it is still connected to the host PC.

Host-initiated Outgoing SPP connection: the scanner disconnects from EasySet and restarts but it is no longer connected to the host PC.

Online Setup Via the SD62 Base Station

You can also setup you scanner via the SD62 base station using the SD62 System command file in EasySet. See the *SD62 Base Station User's Guide* for more information.

Offline Setup with EasySet

To configure your scanner offline by scanning bar codes

1 Start EasySet. The first time you start EasySet, the **Select product** dialog box appears.

If the **Select product** dialog box does not appear, choose **Product > Select** or click on the product icon in the upper left corner of the EasySet window.

2 Select your product.

3 Open the folders in the EasySet commands window to find the configuration commands you need and double-click each command to send it to the setup sheet.

4 Click on the **Print** icon to print out the setup sheet and then scan the commands with your SF61B cordless scanner.

Configure your Scanner From Your Intermec Computer

You can configure many settings for the SF61B from your Intermec computer using **Intermec Settings**.

To Configure the SF61B from Your Intermec Computer

Note: The description in this section is provided as a general guideline. Consult your Intermec computer's documentation for full details on how to set up your Bluetooth scanner from your Intermec computer.

Note: When you first connect to an Intermec computer, only SF61B settings common to the Intermec computer's internal scanner settings are changed to the internal scanner's default settings.

1   Establish a Bluetooth connection with your Intermec computer (see **Connect the SF61B to an Intermec Computer** in Chapter 2).

2   On your Intermec computer, start the **Intermec Settings** application which may be located in **Settings > System** folder depending on your Intermec computer.

3   Select **Data Collection** > **SF61 Scanner *BDA***, where *BDA* is the Bluetooth Device Address (BDA) of your SF61B. The SF61B Bluetooth address is located on the label of your SF61B, see **SF61B Bluetooth Device Address Location** in Chapter 2.

4   Configure commands from the SF61 Scanner menu for your SF61B.

5   Select **File** > **Save Settings**. The SF61B is updated with the new configuration command settings.

6   Close **Intermec Settings**.

4

Troubleshoot and Maintain the SF61B

Use this chapter to solve problems you may have while using the SF61B. This chapter contains these topics:

- **Troubleshoot the SF61B**
- **Recover the SF61B**
- **Call Product Support**
- **Upgrade the SF61B Firmware**
- **Replace the Battery of the SF61B**
- **Replace the End-Caps of the SF61B**
- **Clean the SF61B**

Troubleshoot the SF61B

Problems and Possible Solutions

If you have problems using your SF61B, use this section to try to find a solution.

Problems and Possible Solutions

Problem	Possible Solution
You press the scan button, but nothing happens.	The SF61B is powered by a rechargeable lithium-ion battery. Make sure the battery is not fully discharged. Charge the battery then try scanning again (see **Charge the Battery** in Chapter 1).
The Status Light blinks red slowly.	The battery is low. Charge the battery (see **Charge the Battery** in Chapter 1).
You press the scan button, the red scanning beam (1D) or laser framing (2D) turns on, but you cannot successfully scan a bar code.	Try these possible solutions: • Make sure that the SF61B is configured for the symbology you are scanning. • Make sure that the SF61B is at the appropriate scanning distance and angle from the bar code. Move the SF61B closer and farther away and tilt it up and down to find the appropriate distance and angle. • Make sure that the SF61B is able to read the type of bar code you are scanning (1D, 2D). • Make sure the bar code you are trying to scan is not poorly printed or not too small. Scan a known good bar code to make sure that the SF61B is working properly. • Clean the scan window if it is dirty. For more information, see **Scan Bar Codes** in Chapter 1.
You scan a bar code, the SF61B vibrates and emits six very fast beeps.	This indicates a transmission error, check that: • your product is correctly connected to your host device / application • your host device / application is able to receive the data from your scanner

Problems and Possible Solutions (continued)

Problem	Possible Solution
You scan a bar code, the SF61B beeps twice, and the status light blinks green twice, but the data is not transmitted to the host computer.	Try these possible solutions: • Make sure that your data collection application is set up to receive data from the SF61B. • If you are using an SD61 Base Station connected to your host using an RS-232 cable, make sure that the serial parameters on the SD61 match the serial parameters of the host computer. The default serial parameters for the SD61 are 19200 baud, 8 data bits, no parity, and 1 stop bit.
You scan a configuration bar code and the SF61B emits six very fast beeps.	The SF61B does not recognize or support the configuration bar code you scanned.
You scan a bar code and the status light turns on, but the SF61B does not beep.	The beep duration, volume, frequency, and number may be deactivated: • use EasySet to check your product's settings (see **Online Setup with EasySet** in Chapter 3, **Configure the SF61B Cordless Scanner**) and reconfigure your product if required
You cannot establish a Bluetooth connection with your scanner.	There may be a problem with your host Bluetooth interface, try one or more of the following: • disable then enable your host Bluetooth radio from the **Device Manager** (Windows host) or equivalent for your host device • disconnect then reconnect your Bluetooth adapter if applicable • force a restart of your SF61B (hardware reset), see **Force a Hardware Reset** in the present chapter) • re-pair your scanner with your host device / application (see the appropriate section in Chapter 2, **Connect the SF61B**) • your scanner may be connecting with / connected to another Bluetooth host, disconnect the other Bluetooth connection if required (see Chapter 2, **Connect the SF61B**)

Problems and Possible Solutions (continued)

Problem	Possible Solution
After a software reset: • by reading / sending a **Reset factory defaults** command • by performing a firmware upgrade you can see the Outgoing and Incoming virtual COM ports in your host's Bluetooth settings (SPP connection) but your host device / application tells you that they are not available.	Depending on your host configuration (host device, Bluetooth version), you may have to re-pair your product with your host device /application to reset your scanner-host Bluetooth settings (see the appropriate section in Chapter 2, **Connect the SF61B**).
You have added your scanner to your host device during an SPP pairing procedure but you cannot see the corresponding Outgoing and Incoming COM ports in your host's Bluetooth settings.	There may be a Bluetooth management problem on your host device, try the following procedure: **1** Disconnect your scanner from your host device (see Chapter 2, **Connect the SF61B**). **2** Remove your scanner from the host's device list. **3** Restart your host device (power down / power up). **4** Re-pair your scanner with your host for SPP connection and check the available COM ports in your host device's Bluetooth settings. If this does not solve the problem, try this workaround (see Chapter 2, **Connect the SF61B** for details on the different pairing / connection methods): **1** Pair / connect your scanner with your host device using the HID profile. **2** Disconnect your scanner from the host device. **3** Remove your scanner from the host's device list if applicable. **4** Re-pair your scanner with your host for SPP connection and check the available COM ports in your host device's Bluetooth settings.

Problems and Possible Solutions (continued)

Problem	Possible Solution
You are trying to establish a Bluetooth connection from a host device to your SF61B, but the host device cannot find your scanner.	Your SF61B may be switched off or connected to another Bluetooth host, or there may be a Bluetooth management problem on your host device. Try one or more of the following (see Chapter 2, **Connect the SF61B** for details on the different pairing / connection methods): • press the scan button to power up your product • disconnect your product if it is connected to another host • re-pair your product with your host device • restart your host device (power down / power up)
You established a Bluetooth connection with an Intermec computer, and the settings on your SF61B were restored to their default values.	When you first connect to an Intermec computer, only SF61B settings common to the Intermec computer's internal scanner settings are changed to the internal scanner's default settings. Scan configuration bar codes, or use Intermec Settings on your Intermec computer to change your SF61B settings.
You cannot use your SF61B to change the configuration settings of an SD61 base station.	You must use an SF51 scanner or another compatible product if you want to change the settings of an SD61 base station.
Your scanner is unresponsive or appears to be locked.	Try to perform a hardware reset of your scanner (see below, , in the present chapter). A hardware reset will restart your scanner but it will not reset your custom configuration settings. Depending on the type of Bluetooth connection you are using, your scanner will automatically reconnect with your host device / application or you will have to reconnect manually.
The trigger button is stuck.	Clean around the edges of the trigger button with a can of compressed air.

Problems and Possible Solutions (continued)

Problem	Possible Solution
None of the previous suggestions have solved your problem	**Perform a software reset** (Reset factory defaults) of your SF61B using one of the following methods: • read the **Reset factory defaults** configuration code (see **Reset Your Scanner (Software Reset)** in Chapter 3, **Configure the SF61B Cordless Scanner**) • send a **Reset factory defaults** command from EasySet to the scanner in online setup mode (see **Online Setup with EasySet** in Chapter 3, **Configure the SF61B Cordless Scanner**) • force a software reset of the scanner (see below, **Force a Software Reset**, in the present chapter) **Bear in mind however:** • This will reset your scanner's parameter settings to their initial values so you will have to reconfigure any custom settings you have programmed in your scanner (see Chapter 3, **Configure the SF61B Cordless Scanner**). • Depending on your host configuration (host device, Bluetooth version), you may have to re-pair your product with your host device / application (see the appropriate section in Chapter 2, **Connect the SF61B**). • In all cases you will have to re-connect with your host (see the appropriate section in Chapter 2, **Connect the SF61B**).

Note: You may find a solution to your problem in *Knowledge Central*, the online knowledge base for Intermec products:

http://intermec.custhelp.com/app/home

and you can also find useful scanner-specific information on the *Scanner FAQ (Meta-Answer)* page:

http://intermec.custhelp.com/app/answers/detail/a_id/ 12923/kw/meta

Recover the SF61B

If your SF61B appears "dead" or does not respond when you press the scan button, you can try to:

- restart the product (hardware reset)
- reset the product's configuration settings to their initial values (software reset)

A hardware reset does not lose the current configuration settings.

A software reset sets all the configuration settings of the scanner back to their default values, including custom default settings (same effect as when you read the **Reset factory defaults** configuration bar code).

Note: If your scanner does not turn on after a hardware and/or software reset and you are using a correctly charged and functioning Intermec battery pack Model 1016AB01 (P/N SF61-BAT-xxx,), please contact your Intermec representative.

Force a Hardware Reset

A hardware reset will restart your scanner, keeping the current configuration.

To force a hardware reset (restart) of your SF61B

1 Turn the scanner on by pressing the trigger one time, then release.

Note: You may not be able to tell if the scanner is on, for example if the LEDs have been disabled and do not light up when you pull the trigger.

2 Press and hold the scan button for more than 20 seconds until the scanner beeps twice and vibrates (no red LED).

3 Release the scan button.

If you have a Bluetooth connection, the SF61B disconnects from the host device when it switches off.

After a restart, your scanner may try to reestablish the Bluetooth connection with the host depending on the type of connection (it

will do so with an HID connection or a scanner-initiated Incoming SPP connection for example).

Force a Software Reset

A software reset of your scanner will reset its parameter settings to their initial values so you will have to reconfigure any custom settings you have programmed in your scanner (see Chapter 3, **Configure the SF61B Cordless Scanner**).

To force a software reset (Reset factory defaults) of your SF61B

1 Turn the scanner on by pressing the trigger one time, then release.

Note: You may not be able to tell if the scanner is on, for example if the LEDs have been disabled and do not light up when you pull the trigger.

2 Press and hold the scan button for 30 seconds until the red LED comes on.

The scanner will beep after 20 seconds (hardware reset) however, keep the trigger pressed until the red LED comes on (10 more seconds after the hardware reset).

3 Press the scan button very rapidly five times in succession while the red LED is on (you need to be quick as the red LED only stays on for 2 seconds).

The green LED comes on, the scanner beeps a reset confirmation (six-beep melody) and powers off and powers on (two beeps and vibrate alert by default).

If you had a Bluetooth connection before the software reset, the SF61B will disconnect from the host device.

Note: Depending on your host configuration (device, Bluetooth version), after a software reset of your scanner (Reset factory defaults) you may have to re-pair your product with your host device / application (see the appropriate section in Chapter 2, **Connect the SF61B**).

Call Product Support

To talk to an Intermec Product Support representative:

- In the U.S.A. and Canada, call **1-800-755-5505**

- Outside the U.S.A. and Canada, contact your local Intermec representative. For help, go to **www.intermec.com** > **About Us** > **Contact Us**.

Before you call Intermec Product Support, make sure you have the following information for your SF61B product:

- configuration number ("CN" on the product label)

- serial number ("SN" on the product label)

- firmware version

- sub-system versions

- decode version

Get SF61B Version Information

There are two ways to get the firmware version, subsystem versions and decode version of your SF61B:

- read **Get version** bar codes and display your product's version information on your host device's screen

- use EasySet in online setup mode to display your product's version information

Read "Get version" Bar Codes

You can read **Get version** bar codes to display your product's version information if your SF61B is connected to a Bluetooth host device / application.

To get version information by reading bar codes

1 Connect your SF61B to a Bluetooth host using the appropriate procedure for your host device /application (see Chapter 2, **Connect the SF61B**).

2 Run an application that can accept bar code information from your SF61B (Microsoft® Notepad if you are using an HID connection for example, or the host application you use for Bluetooth serial emulation).

3 Scan the following bar codes:

Get firmware version

Get sub-system version

Get decode version

The version information is displayed in your host application.

Use EasySet to Display Current Version Information

You can use EasySet to get version information if your SF61B is connected using an HID connection or a host-initiated (Outgoing) SPP connection.

To get version information by reading bar codes

1 Follow the procedure for online setup with EasySet (see **Online Setup with EasySet** in Chapter 3).

2 When the scanner is connected to EasySet, open the **Configuration modes and utilities** section in the EasySet commands window.

The current firmware, subsystem and decode versions appear in blue next to the **Get firmware version**, **Get sub-system versions** and **Get decode version** commands.

Upgrade the SF61B Firmware

You may need to upgrade the SF61B firmware if there is an update that incorporates changes to a feature or adds functionality to the scanner. When you upgrade your scanner, the current settings are erased and replaced with the default settings.

After a firmware upgrade, you will need to reestablish Bluetooth communication between your SF61B and the other Bluetooth devices and applications in your data collection system.

Upgrading the SF61B takes about 10 minutes to complete.

Note: Depending on your host configuration (device, Bluetooth version), after a firmware upgrade of your scanner you may have to re-pair your product with your host device /application (see the appropriate section in Chapter 2, **Connect the SF61B**).

Prepare for Firmware Upgrade with EasySet and WinFlash

To upgrade the SF61B you will need:

- a Bluetooth connection with a Bluetooth enabled host (internal Bluetooth controller or external Bluetooth adapter)

- a host PC running Microsoft® Windows® XP with SP2, Microsoft Windows 2000 with SP4, or a more recent version of Microsoft Windows

- the latest version of EasySet (includes the WinFlash firmware upgrade utility) installed on the host PC (available at **www.intermec.com/EasySet**)

- the SF61B **.bin** firmware file for your SF61B model (1D or 2D) available at **http://www.intermec.com/products/scansf61b/index.aspx**.

Note: If your SF61B LED blinks red before you start the upgrade procedure, you will need to charge it before you perform the firmware upgrade (see **Charge the Battery** in Chapter 1).

Download the Latest SF61B Firmware Version

To download the latest firmware upgrade package

1 Go to the SF61B section of the Intermec web site:
http://www.intermec.com/products/scansf61b/index.aspx

2 Open the **Downloads** tab.

3 Click the link to download the appropriate SF61B firmware upgrade package for your SF61B model (1D or 2D) and save it to your PC.

Disconnect any Existing Bluetooth Connection with your SF61B

Firmware upgrade using EasySet and WinFlash requires a host-initiated (Outgoing) SPP Bluetooth connection. If your SF61B is currently connected to the host with another type of Bluetooth connection, you will have to disconnect/deactivate that connection before you perform the firmware upgrade procedure.

To disconnect your scanner from the host

1 If your SF61B is connected to the host, read the **Bluetooth Device Disconnect** bar code to disconnect it.

Bluetooth Device Disconnect

2 Remove your SF61B from the host's list of Bluetooth devices:

- Double-click the Bluetooth icon in the system tray, select your scanner and click **Remove device** (or equivalent).

3 Close the host's Outgoing COM port if it is open.

Use EasySet and WinFlash to Upgrade your SF61B Firmware

To upgrade your scanner's firmware

1 Connect the SF61B to the host in SPP outgoing (host initiated) connection - see **"To connect in SPP device profile—outgoing connection" on page 34**.

2 Start the latest version of EasySet and select the **SF61B** product (**Product > Select > Handheld scanners**) if it is not already selected.

3 From the **Tools** menu, select **Upgrade product firmware** to start WinFlash.

If WinFlash is not already installed you will be asked to install it - click **Yes** and follow the installation instructions.

If you are connected to EasySet for online setup, a message will ask if you want to quit online setup mode and start WinFlash.exe. Click **Yes** to continue, the scanner disconnects (the blue Intermec Ready-to-Work indicator goes off) and then restarts (2 beeps and vibrate alert by default).

4 Select your scanner model and click **OK**.
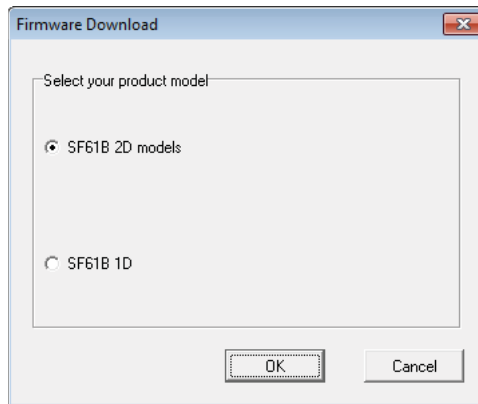
5 Click **Browse** to find the correct **.bin** firmware upgrade file you downloaded for your product model and click **Next**.
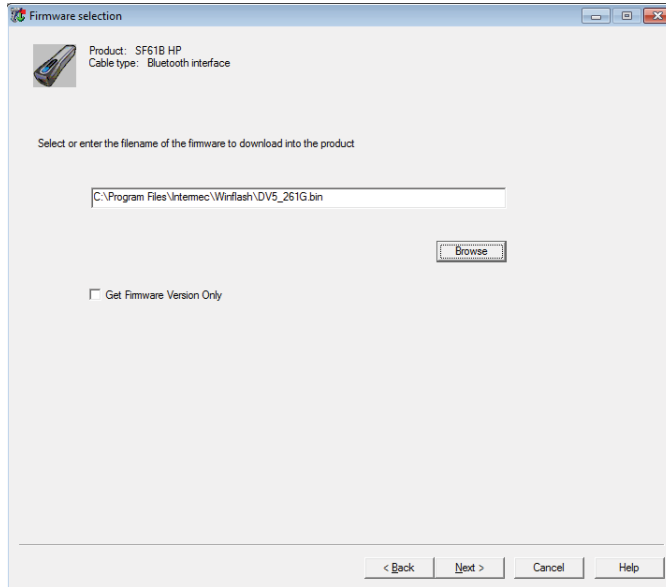
6 Scan the **Firmware upgrade** bar code that appears on the screen - print out and read the code on this page if you can't read it on the screen.
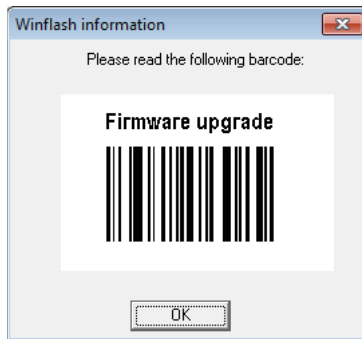
The scanner emits two beeps and two green flashes to indicate a good configuration bar code read and then blinks with a regular red blink.

7 Click **OK** to continue.

Note: If you do not proceed with the firmware upgrade procedure within 5 minutes, the scanner performs a restart (emits two beeps and vibrates). Close WinFlash and close EasySet and repeat the entire procedure including removing your SF61B from the host's list of Bluetooth devices and re-pairing with the host system.

If you cannot re-pair successfully after interrupting the software upgrade (you cannot see the Outgoing and Incoming virtual COM ports in your host PC's Bluetooth settings), try the following workaround:

- remove your scanner from your host's device list if present

- pair and connect your scanner using the HID profile

- disconnect your scanner from this HID connection (your scanner should no longer be present in the host's device list)

- repeat the entire firmware upgrade procedure including removing your SF61B from the host's list of Bluetooth devices (if applicable) and re-pairing with the host system

8 Select the Outgoing COM port your SF61B is connected to.
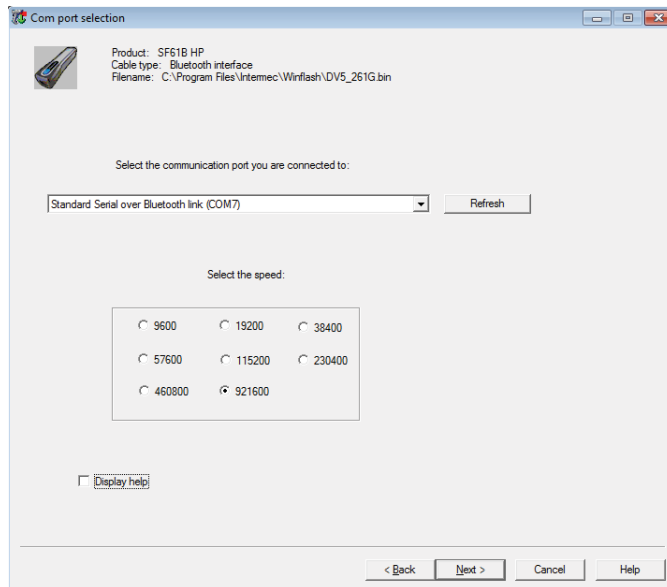
✎ **Note:** To identify the correct Outgoing port, right-click the Bluetooth icon in the Windows system tray, choose the **Open Settings** option (or equivalent) and look at the **COM Ports** details.

9 Click **Start download**.
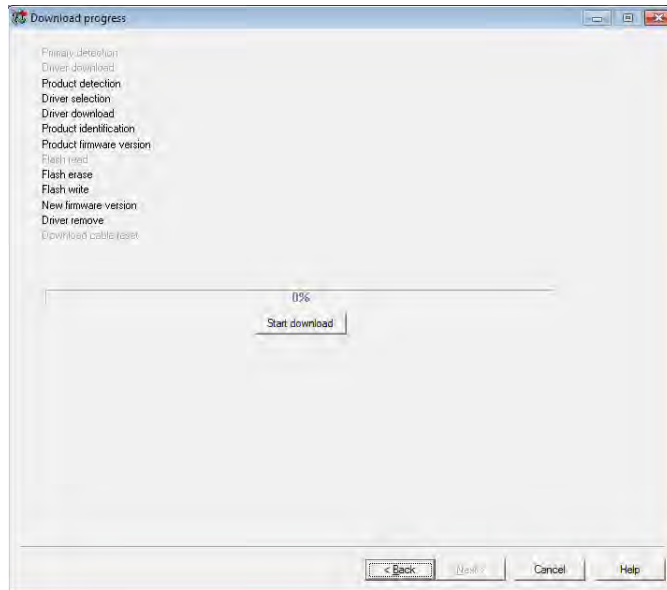
Your host PC may display a message saying that a Bluetooth device is trying to connect, if this is the case, click **OK** to launch the upgrade process (you may have to enter your scanner's pairing code, the default pairing code is "0000").

The scanner blinks with a slower red blink when the firmware upgrade has started and is in progress.

When the firmware upgrade is complete, an "Operation successful" message is displayed in the Download progress window, the scanner emits a "success" beep sequence and then powers down and restarts.

10 Click **Finish**. You have successfully upgraded your scanner firmware.

Note: If the firmware upgrade procedure is interrupted, with a "Can't open communication port" message for example, close WinFlash and close EasySet and repeat the entire procedure including removing your SF61B from the host's list of Bluetooth devices and re-pairing with the host system.

When the firmware upgrade is completed you will need to pair again with your host device and re-establish your Bluetooth connection.

Replace the Battery of the SF61B

Follow ESD Procedures

Integrated circuits on printed circuit boards (PCBs) in this equipment are sensitive to damage by electrostatic discharge (ESD). Prevent ESD by always wearing skin contact ground straps firmly attached to the equipment metal base assembly when working inside of the equipment housing. Failure to comply may result in damage to PCB components.

To change the battery

1 Loosen the screw holding the battery cover.

2 Remove the battery cover.

3 Disconnect the battery cable and remove the battery.

4 Install the new battery

 • Plug in connector

 • Place connector side of battery gently against foam padding

 • Lower the battery in to place

5 Install the battery cover and tighten the screw (56 N cm/4.956 in-lb).
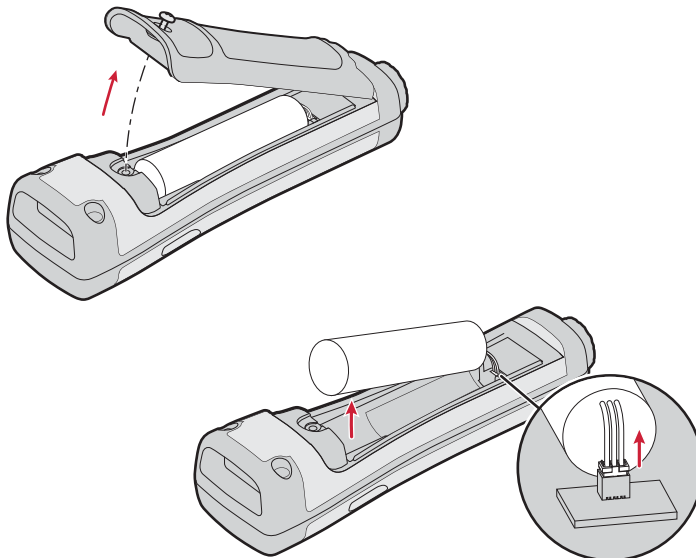
Note: Do not apply excessive pressure to the battery cover when removing and installing the screw (applying excessive pressure on the battery cover during removal/installation may damage your product).

Replace the End-Caps of the SF61B

Remove the SF61B End-Cap
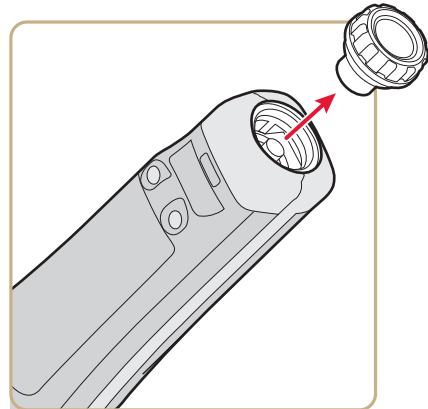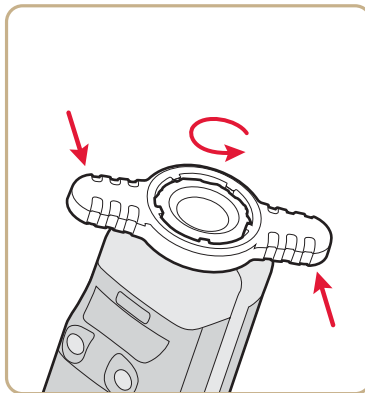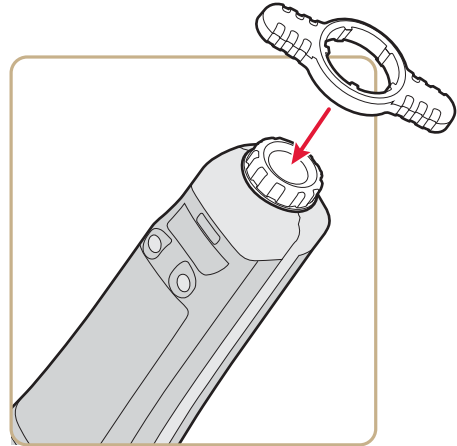
Install the SF61B End-Cap

Torque 200 Ncm/
17.70 lb in

Clean the SF61B

⚠️
Caution
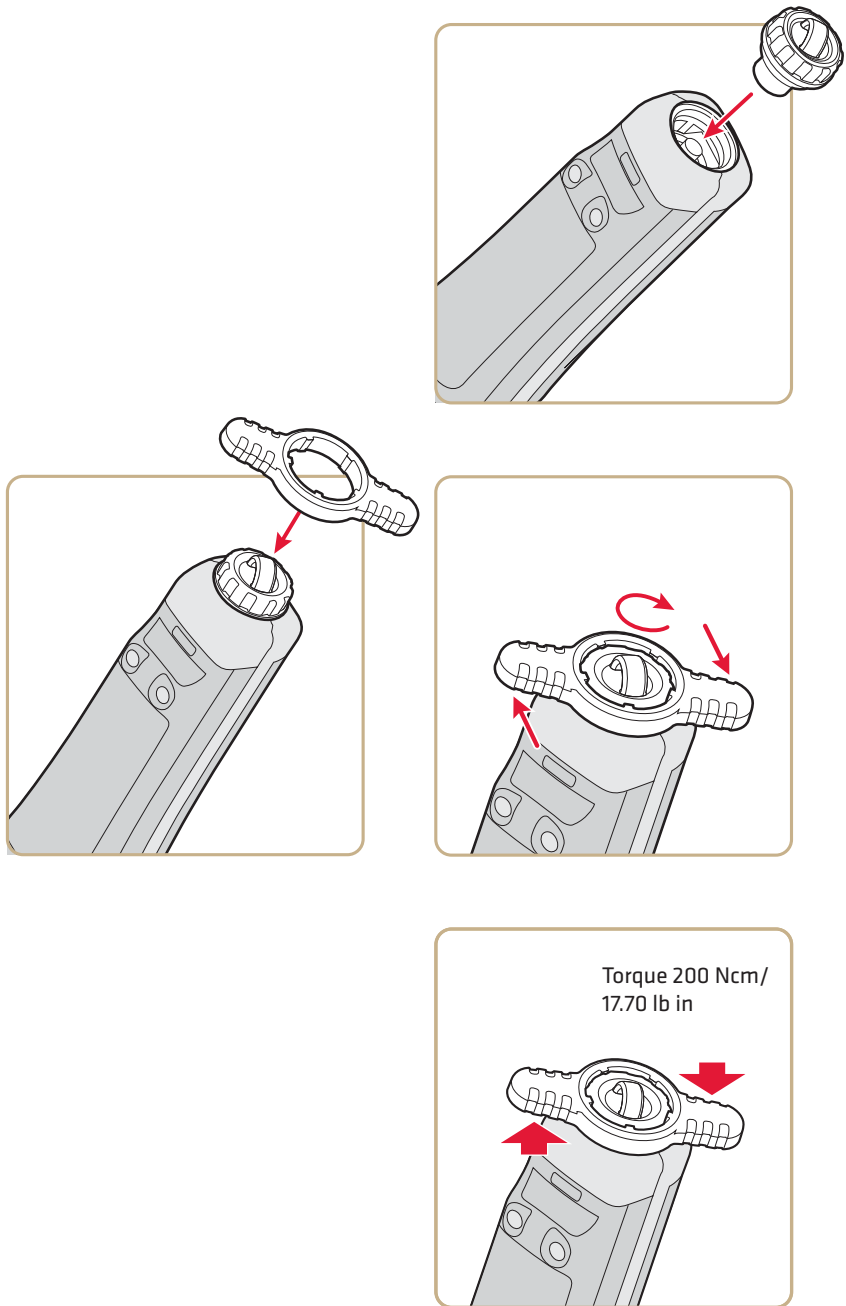
Opening the SF61B may cause damage to the internal components.

Clean Scanner Window

Clean the scanner window as often as needed for the environment in which you are using the SF61B. To clean the scanner window, you can use soapy water or isopropyl alcohol.

To clean the scanner window

1 Dip a clean towel or rag in soapy water or isopropyl alcohol and wring out the excess. Wipe the scanner window. Do not allow any abrasive material to touch the window.

2 Wipe dry with a lint-free cloth.

Clean Scanner Trigger Button

When working in a dusty environment, the trigger may collect dust around it and even become stuck if there is too much dust. Clean around the trigger button using compressed air (standard can of compressed air).

A
Specifications and Reading Distances

This appendix contains the technical specifications and reading distances for the different SF61B scanner models:

- **Specifications**
- **Reading Distances**

Agency Model: 1016SP01B (SF61B Scanner)

Product documentation is available at www.honeywellaidc.com.	La documentation sur le produit est disponible à www.honeywellaidc.com.	La documentation du produit est disponible sur le site www.honeywellaidc.com.	La documentazione sul prodotto è disponibile sul sito www.honeywellaidc.com.	Die Produktdokumentation ist unter www.honeywellaidc.com verfügbar.	La documentación del producto está disponible en www.honeywellaidc.com.	La documentación del producto está disponible en www.honeywellaidc.com.	A documentação do produto está disponível em www.honeywellaidc.com.
产品文档请参见 www.honeywellaidc.com。	產品文件集請參閱 www.honeywellaidc.com。	製品ドキュメントは www.honeywellaidc.com で利用可能です。	제품 설명서는 www.honeywellaidc.com 에서 확인할 수 있습니다.	Документацию по изделию можно найти на сайте www.honeywellaidc.com.	Ürün belgelerine www.honeywellaidc.com adresinden ulaşılabilir.	تتوفر وثائق المنتج على الموقع التالي www.honeywellaidc.com.	Hebrew Translation

FCC Part 15 Subpart B Class B

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or television technician for help.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. Honeywell International Inc. is not responsible for any radio or television interference caused by unauthorized modifications of this equipment or the substitution or attachment of connecting cables and equipment other than those specified by Honeywell International Inc. The correction is the responsibility of the user.

Para su uso en México, la operación de este equipo está sujeta a las siguientes dos condiciones:
1. Es posible que este equipo o dispositivo no cause interferencia perjudicial.
2. Este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

Canadian Compliance	**Conformité à la règlementation canadienne**
This ISM device complies with Canadian RSS-247. Operation is subject to the following conditions: 1. This device may not cause harmful interference. 2. This device must accept any interference received, including interference that may cause undesired operation.	Cet appareil ISM est conforme à la norme CNR-247 du Canada. Son fonctionnement est assujetti aux conditions suivantes : 1. Cet appareil ne doit pas causer de brouillage préjudiciable. 2. Cet appareil doit pouvoir accepter tout brouillage reçu, y compris le brouillage pouvant causer un fonctionnement indésirable.

Caution: Any changes or modifications made to this equipment not expressly approved by Honeywell International Inc. may void the authorization to operate this equipment.

FRENCH CANADIAN TRANSLATION

| Use only shielded data cables with this system. This unit has been tested with cables less than 3 meters. Cables greater than 3 meters may not meet class B performance. | Utiliser uniquement des câbles de données blindés avec ce système. L'appareil a été testé avec des câbles de moins de 3 mètres. Les câbles de longueur supérieure à 3 mètres peuvent ne pas satisfaire à la performance de la classe B. | Utilisez uniquement des câbles de données blindés avec ce système. Ce dispositif a été testé avec des câbles de moins de 3 mètres. Il est possible que les câbles de plus de 3 mètres ne permettent pas d'atteindre des performances de classe B. | Utilizzare solo cavi dati schermati con questo sistema. Questa unità è stata testata con cavi di lunghezza inferiore a 3 metri. I cavi di lunghezza superiore a 3 metri potrebbero non essere conformi alle prestazioni di classe B. | Für dieses System nur abgeschirmte Datenkabel verwenden. Dieses System wurde mit Kabeln unter 3 Metern Länge geprüft. Kabel mit einer Länge von über 3 Metern erfüllen möglicherweise nicht die Richtlinien der Klasse B. | Utilice sólo cables de datos blindados con este sistema. Esta unidad se ha probado con cables de longitud inferior a 3 metros. Cables superiores a 3 metros quizá no satisfagan los requisitos de rendimiento de la clase B. | Use únicamente cables protegidos para datos con este sistema. Esta unidad ha sido evaluada con cables de menos de 3 metros. Es posible que los cables de más de 3 metros no cumplan con el desempeño de clase B. | Use somente cabos de dados blindados com este sistema. Esta unidade foi testada com cabos com menos de 3 metros. Cabos com mais de 3 metros não atendem o desempenho de classe B. |

| The CE marking indicates compliance with the following directives:
• 20014/53/EU Radio Equipment Directive (RED)
• 2011/65/EU RoHS (Recast)
In addition, complies to 2014/35/EU Low Voltage Directive, when shipped with recommended power supply.
European contact:
Hand Held Products Europe B.V.
Lagelandseweg 70
6545CG Nijmegen
The Netherlands | Le marquage CE indique la conformité avec les directives suivantes :
• 20014/53/EU Radio Equipment Directive (RED)
• 2011/65/UE – RoHS (Refonte)
De plus, ce produit est conforme à la Directive européenne 2014/35/EU relative aux basses tensions lorsqu'il est expédié avec le bloc d'alimentation recommandé.
Personne-ressource en Europe :
Hand Held Products Europe B.V.
Lagelandseweg 70
6545CG Nijmegen
Les Pays-Bas | Le marquage CE indique la conformité aux directives suivantes :
• 20014/53/EU Radio Equipment Directive (RED)
• 2011/65/UE RoHS (refonte)
De plus, indique la conformité à la directive 2014/35/EU Basse tension, lorsque le dispositif est livré avec l'alimentation électrique recommandée. Contact en Europe :
Hand Held Products Europe B.V.
Lagelandseweg 70
6545CG Nijmegen
Pays-Bas | La marcatura CE indica conformità alle seguenti direttive:
• 20014/53/EU Radio Equipment Directive (RED)
• Direttiva RoHS 2011/65/UE
È inoltre conforme ai sensi della Direttiva bassa tensione 2014/35/EU, se spedito con l'alimentatore consigliato. Contatto in Europa:
Hand Held Products Europe B.V.
Lagelandseweg 70
6545CG Nijmegen
Paesi Bassi | Die CE-Kennzeichnung signalisiert die Konformität mit folgenden Richtlinien:
• 20014/53/EU Radio Equipment Directive (RED)
• 2011/65/EU RoHS (Recast)
Weiterhin entspricht dieses Produkt der Niederspannungsrichtlinie 2014/35/EU, wenn es mit dem empfohlenen Netzteil geliefert wird. Ansprechpartner Europa:
Hand Held Products Europe B.V.
Lagelandseweg 70
6545CG Nijmegen
Niederlande | La marca CE indica el cumplimiento de las siguientes normativas:
• 20014/53/EU Radio Equipment Directive (RED)
• 2011/65/EU RoHS (Refundida)
Asimismo, cumple la normativa de bajo voltaje 2014/35/EC cuando se envía con la fuente de alimentación recomendada. Contacto europeo:
Hand Held Products Europe B.V.
Lagelandseweg 70
6545CG Nijmegen
Países Bajos | La indicación CE indica el cumplimiento con las siguientes directivas:
• 20014/53/EU Radio Equipment Directive (RED)
• 2011/65/EU RoHS (Reformulada)
Además, cumple con la directiva de bajo voltaje 2014/35/EC cuando se envía con la fuente de poder recomendada. Contacto europeo:
Hand Held Products Europe B.V.
Lagelandseweg 70
6545CG Nijmegen
Países Bajos | A marca CE indica conformidade com as seguintes diretivas:
• 20014/53/EU Radio Equipment Directive (RED)
• 2011/65/EU RoHS (Reformulação)
Além disso, o produto está em conformidade com a Diretiva para baixa tensão 2014/35/EU, quando fornecido com a fonte de alimentação recomendada. Contato na Europa:
Hand Held Products Europe B.V.
Lagelandseweg 70
6545CG Nijmegen
Holanda |

Bluetooth Class II	Bluetooth Catégorie II	Bluetooth Classe II	Bluetooth Klasse II	Bluetooth Clase II	Bluetooth II 类	Bluetooth 第 II 類	Bluetooth فئة 2
CAUTION: Improper battery replacement or incompatible device usage may result in risk of burns, fire, explosion, or other hazard. Dispose of lithium-ion batteries according to local regulations.	ATTENTION : Un remplacement inadéquat de la batterie ou une utilisation incompatible de l'appareil peut présenter des risques de brulures, d'incendie, d'explosion ou d'autres dangers. Jetez les piles en lithium-ion conformément aux régulations locales.	MISE EN GARDE : Le remplacement incorrect de la pile ou l'usage d'un appareil non compatible peut représenter des risques de brûlures, d'incendie, d'explosion ou d'autres dangers. Éliminez les piles lithium-ion usagées conformément aux réglementations locales.	Attenzione. La sostituzione inadeguata delle batterie o un uso incompatibile del dispositivo possono causare rischi di ustioni, incendi, esplosioni o altri pericoli. Smaltire le batterie agli ioni di litio in conformità ai regolamenti locali.	VORSICHT. Ungeeignete Ersatz-Akkus oder nicht kompatible Gerätenutzung kann zu Verbrennungen, Feuer, Explosion oder anderen Gefahren führen. Entsorgen Sie die Lithium-Ionen-Batterien gemäß den lokalen Richtlinien.	PRECAUCIÓN: El reemplazo inadecuado de la batería o el uso de un dispositivo incompatible puede resultar en riesgos de quemaduras, incendio, explosión u otros riesgos. Descarte todas las baterías de litio según las regulaciones locales.	PRECAUCIÓN: El reemplazo inadecuado de la batería o el uso de un dispositivo incompatible puede presentar riesgo de quemaduras, incendio, explosión, u otro tipo de riesgos. Deseche las baterías de iones de litio de acuerdo a las normativas locales.	CUIDADO: a substituição incorreta da bateria ou o uso de um dispositivo incompatível pode resultar em riscos de queimaduras, incêndio, explosão ou outros perigos. Descarte as baterias de íon de lítio de acordo com as regulamentações locais.

LED Safety Statement

LED Safety Statement	Norme de sécurité sur les DEL	Norme de sécurité DEL	Disposizione di sicurezza LED	Hinweis zur Lasersicherheit	Declaración de seguridad del LED	Declaración de seguridad del LED	Declaração de segurança do LED
LEDs have been tested and classified as "EXEMPT RISK GROUP" to the standard: IEC 62471:2006.	Les DEL ont été testées et classées en tant que « GROUPE DE RISQUE EXEMPT » par rapport à la norme : IEC 62471:2006.	Les DEL ont été testées et classées « GROUPE SANS RISQUE » selon la norme : CEI 62471:2006.	I LED sono stati testati e classificati come "GRUPPO ESENTE DA RISCHI" rispetto allo standard: IEC 62471:2006.	Die LEDs wurden geprüft und gemäß der Norm IEC 62471:2006 unter „EXEMPT RISK GROUP" eingestuft.	Los LED se han probado y clasificado como "GRUPO EXENTO DE RIESGOS" según la normativa: IEC 62471:2006.	Las LED han sido evaluadas y clasificadas como "GRUPO LIBRE DE RIESGOS" según la norma: IEC 62471:2006.	Os LEDs foram testados e classificados como "GRUPO DE RISCO ISENTO" conforme a norma: IEC 62471:2006.

CB Scheme

CB Scheme	Plan OC (organismes de certification)	Schéma OC	Schema CB	CB-Zertifizierung	Esquema CB	Esquema CB	Esquema CB
Certified to CB Scheme IEC 60950-1, Second Edition.	Certifié CB CEI 60950-1, deuxième édition.	Certifié selon la norme CEI 60950-1 seconde édition (schéma OC).	Certificato in base allo Schema CB IEC 60950-1, seconda edizione.	CB-zertifiziert gemäß IEC 60950, Second Edition.	Se ha certificado que cumple el esquema CB IEC 60950-1, segunda edición.	Se ha certificado que cumple con el esquema CB IEC 60950-1, segunda edición.	Certificação CB Scheme IEC 60950-1, Segunda edição.

Patents

Patents	Brevets	Brevets	Brevetti	Patente	Patentes	Patentes	Patentes
For patent information, please refer to www.hsmpats.com.	Veuillez consulter le site www.hsmpats.com pour obtenir des renseignements au sujet du brevet.	Pour plus d'informations sur les brevets, visitez la page www.hsmpats.com.	Per i dettagli sui brevetti, fare riferimento al sito Web www.hsmpats.com.	Patentinformationen sind unter www.hsmpats.com erhältlich.	Para obtener información sobre las patentes, visite www.hsmpats.com.	Para obtener información sobre patentes, consulte www.hsmpats.com.	Para obter informações sobre patente, consulte www.hsmpats.com.

Laser Safety Statement

If the following label is attached to your product, it indicates the product contains a laser:

> LASER LIGHT - DO NOT STARE INTO BEAM
> CLASS 2 LASER PRODUCT
> Max. 1mW: 630-680nm
> IEC 60825-1:2007

> RAYONNEMENT LASER NE PAS
> REGARDER DANS LE FAISCEAU
> APPAREIL A LASER DE CLASSE 2

This device has been tested in accordance with and complies with IEC60825-1 ed2.0 and 21 CFR 1040.10 and 1040.11, except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007.
LASER LIGHT, DO NOT STARE INTO BEAM, CLASS 2 LASER PRODUCT, 1.0 mW MAX OUTPUT: 630-680nM.
Caution - use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Déclaration de sécurité relative au laser

Si l'étiquette suivante est apposée à votre produit, cela signifie que le produit contient un laser :

Cet appareil a été testé et reconnu conforme aux normes IEC60825-1 ed2.0 et 21 CFR 1040.10 et 1040.11sauf pour les dérogations en accord avec l'avis de conformité sur les lasers No. 50, en date du 24 juin 2007.
LUMIÈRE LASER, NE PAS REGARDER DIRECTEMENT DANS LE FAISCEAU, PRODUIT LASER DE CLASSE 2, SORTIE MAX. DE 1,0 MW: 630-680 nM.
Mise en garde – l'utilisation de contrôles ou d'ajustements ou de performance de procédures autres que ceux spécifiées dans la présente peut provoquer une exposition dangereuse au rayonnement.

Déclaration de sécurité laser

Si l'étiquette suivante est attachée à votre produit, elle indique que le produit contient un laser :

Cet appareil a été testé et certifié conforme aux normes CEI 60825-1 ed2.0, 21 CFR 1040.10 et 21 CFR 1040.11, à l'exception des déviations selon le document Laser Notice n° 50 en date du 24 juin 2007.
ATTENTION, LUMIÈRE LASER : NE PAS FIXER LE FAISCEAU, PRODUIT LASER DE CLASSE 2 1 mW SORTIE MAX :630-680 nM.
L'utilisation de contrôles ou réglages ou la réalisation de procédures autres que ceux spécifiés dans la documentation utilisateur peut entraîner une exposition à des rayonnements dangereux.

Dichiarazione sulla sicurezza del dispositivo laser

La presenza della seguente etichetta sul prodotto indica che il prodotto contiene un laser:

Questo dispositivo è stato testato in base a ed è conforme agli standard IEC60825-1 ed. 2.0 e 21, CFR 1040.10 und 1040.11, ad eccezione delle deviazioni ai sensi del documento Laser Notice No. 50, datato 24 giugno 2007.
LUCE LASER, NON FISSARE IL RAGGIO LASER, PRODOTTO DI CLASSE 2, POTENZA DI USCITA MAX 1.0 mW : 630-680nM.
Un utilizzo dei comandi, dei dispositivi di regolazione o delle procedure non conforme a quanto specificato nella documentazione d'uso può determinare un'esposizione pericolosa alle radiazioni.

Hinweis zur Lasersicherheit

Wenn Ihr Produkt mit dem folgenden Etikett gekennzeichnet ist, bedeutet dies, dass das Produkt einen Laser enthält:

Dieses Gerät wurde geprüft und erfüllt die Anforderungen von IEC60825-1 ed2.0 y 21 CFR 1040.10 und 1040.11, mit Ausnahme von Abweichungen gemäß Laser Notice Nr. 50, vom 24. Juni 2007.
LASERSTRAHLUNG, NICHT IN DEN STRAHL BLICKEN, LASERPRODUKT DER KLASSE 2, MAXIMALE ENERGIE DER LASERSTRAHLUNG 1,0 mW: 630-680 nm.
Die Verwendung oder Einstellung von Reglern bzw. die Ausführung von anderen als in dieser Bedienungsanleitung beschriebenen Abläufen kann zu gefährlicher Laserstrahlung führen.

Declaración de seguridad del láser

Si la siguiente etiqueta se encuentra adherida al producto, indica que éste contiene un láser:

Este dispositivo se ha probado de acuerdo con las normativas IEC60825-1 ed2.0 y 21 CFR 1040.10 y 1040.11 y se ha certificado que cumple, excepto en lo referente a desviaciones según el aviso sobre láser n.º 50 del 24 de junio de 2007.
RAYO LÁSER, NO MIRAR FIJAMENTE EL HAZ, PRODUCTO LÁSER DE CLASE 2, POTENCIA MÁXIMA 1 mW: 630-680 nm.
El uso de controles, ajustes o procedimientos diferentes a los descritos en la documentación del usuario puede suponer la exposición a radiaciones peligrosas.

Declaración de seguridad de láser

Si la siguiente etiqueta está adherida al producto, indica que éste contiene un láser:

Este dispositivo ha sido evaluado según las normas IEC60825-1 ed2.0 y 21 CFR 1040.10 y 1040.11, y cumple con ellas, excepto por las diferencias en virtud del Aviso sobre láser N.º 50 del 24 de junio de 2007.
RAYO LÁSER, NO MIRAR FIJAMENTE EL HAZ, PRODUCTO LÁSER DE LA CLASE 2, POTENCIA MÁXIMA 1 mW: 630-680 nm.
El uso de controles, ajustes o procedimientos diferentes a los indicados en la documentación para el usuario puede provocar la exposición a radiaciones peligrosas.

Declaração de segurança de laser

Se a seguinte etiquete estiver colada no seu produto, indica que ele contém um laser:

Este dispositivo foi testado de acordo e em conformidade com as normas IECC60825-1 ed2.0 e 21 CFR 1040.10 e 1040.11, exceto por divergências de acordo com o Laser Notice nº50, datado de 24 de junho de 2007.
LUZ DE LASER, NÃO OLHE FIXAMENTE PARA O FEIXE, PRODUTO A LASER CLASSE 2, SAÍDA MÁXIMA DE 1,0 mW: 630-680 nM.
A utilização de controles ou ajustes ou a execução de procedimentos de modo diferente do especificado na documentação do usuário pode resultar em exposição nociva à radiação.

激光安全声明

如果您的产品附有以下标签，说明产品具有激光功能：

> LASER LIGHT - DO NOT STARE INTO BEAM
> CLASS 2 LASER PRODUCT
> Max. 1mW: 630-680nm
> IEC 60825-1:2007

此设备已经过测试，符合 IEC60825-1 ed2.0 以及 21 CFR 1040.10 和 1040.11 标准，此外，2007 年 6 月 24 日颁布的第 50 号激光通告所规定的偏离除外。
激光辐射，不可凝视光束，2 类激光产品，最大输出为 1.0 mW： 630-680nM。
如果使用了用户文档范围之外的操作步骤控制或调整或执行，可能会导致危险的辐射暴露。

鐳射安全聲明

若品貼上貼有下列之標籤，即表示該品具有雷射功能：

此裝置已經過測試，符合 IEC60825-1 ed2.0 以及 21 CFR 1040.10 與 1040.11 標準，但是 2007 年 6 月 24 日發佈的第 50 號 射通告中所述的偏差不在此限。
雷射光，請勿直視雷射光束，CLASS 2 雷射品，1.0 mW 最大輸出功率： 630-680nM。
若使用的控制、調整或執行等程序並非依照使用者文件中所指示，可能會發生危險，導致輻射暴露。

レーザーの安全性について

製品に次のラベルが添付されている場合は、製品にレーザーが含まれていることを示しています。

> LASER LIGHT - DO NOT STARE INTO BEAM
> CLASS 2 LASER PRODUCT
> Max. 1mW: 630-680nm
> IEC 60825-1:2007

この装置は、IEC60825-1:1993+A1+A2 と、21 CFR 1040.10 および 1040.11 に従ってテストされ、クラス2レーザー製品として認証されています。ただし、2007 年 6 月 24 日発効の第 50 号 射通告中に所述の偏差不在此限。
雷射光，請勿直視雷射光束，CLASS 2 雷射品，1.0 mW 最大輸出： 630-680nM。
ユーザー マニュアルで指定されていない制御や調整の使用または手順の実行によって、有害な放射線照射が発生する可能性があります。

레이저 안전 고지 사항

제품에 다음과 같은 라벨이 부착되어 있는 경우 제품에 레이저가 포함되어 있음을 의미합니다.

본 장치는 IEC60825-1 ed2.0과 21 CFR 1040.10 및 1040.11 에 따라 테스트되었으며 이를 준수하는 것으로 확인되었습니다. 단, 2007년 6월 24일자 Laser Notice No. 50 에 의거한 편차는 제외합니다.
레이저 광선, 연구에 직접적인 광선 노출 금지, CLASS 2 레이저 제품, 1.0 mW 최대 출력: 630-680nM
사용자 설명서에 명시된 내용 이외의 장치를 통해 장치를 조작하거나 조정하거나 작동하는 경우 인체에 심각한 위해를 끼치는 방사선에 노출될 수 있습니다.

Заявление о безопасности лазера

Если к изделию прикреплена нижеуказанная этикетка, то это означает, что в изделии имеется

> LASER LIGHT - DO NOT STARE INTO BEAM
> CLASS 2 LASER PRODUCT
> Max. 1mW: 630-680nm
> IEC 60825-1:2007

Это устройство прошло испытания согласно следующим стандартам, которым оно соответствует: МЭК 60825-1 ред. 2.0 и 21 CFR 1040.10 и 1040.11, с учетом разрешений на отступление от требований согласно Уведомлению о лазерах № 50 от 24 июня 2007 г.
ЛАЗЕРНЫЙ СВЕТ, НЕ СМОТРИТЕ НА ЛУЧ, ЛАЗЕРНЫЙ ПРОДУКТ КЛАССА 2, 10 МвТ МАКСИМАЛЬНОЙ МОЩНОСТИ: 630-680nM.
Внимание – использование средств управления, регулирования или изменения производственных процедур, отличающихся от указанных в данном документе, может привести к опасному воздействию радиации.

نشرة السلامة الخاصة بالليزر

إذا كان الملصق التالي مرفقًا بالمنتج فإنه يشير إلى أن المنتج يحتوي على الليزر.

> LASER LIGHT - DO NOT STARE INTO BEAM
> CLASS 2 LASER PRODUCT
> Max. 1mW: 630-680nm
> IEC 60825-1:2007

تم اختبار هذا الجهاز وفقًا لمواصفات المعايير-IEC60825 1:2007 و21 CFR 1040.10 و1040.11 باستثناء الانحرافات بموجب الإشعار الخاص بالليزر رقم 50، بتاريخ 24 يونيو.
ضوء الليزر، لا تُحدِّق بالبؤرة بعينك، منتج يعمل بالليزر من الفئة 2، الحد الأقصى للإخراج 1.0 مللي وات: 630-680 نانو مولار.
قدِّير – قد يؤدي استخدام عناصر التحكم أو التعديلات أو القيام بإجراءات أخرى غير تلك المحددة هنا إلى احتمال التعرض إلى الإشعاعات الخطيرة.

הצהרת בטיחות בנושא לייזר

אם התווית הבאה מודבקת על המוצר שלך, המוצר מכיל לייזר:

> LASER LIGHT - DO NOT STARE INTO BEAM
> CLASS 2 LASER PRODUCT
> Max. 1mW: 630-680nm
> IEC 60825-1:2007

מכשיר זה נבדק בהתאם לתקני IEC60825-1 מהדורה 2.0 ו-21 CFR 1040.10 ו-1040.11 ונמצא עומד בהם, פרט לסטיות בכפוף להוראות לייזר מס' 50 מתאריך 24 ביוני 2007.
קרן לייזר, אין להביט לתוך הקרן, מוצר לייזר מדרגה 2, הספק מרבי 1-mW: 630-680nM
זהירות: שימוש בפקדי הבקרה או בציוד התאמות או הליכים אחרים מלבד אלה המפורטים בעלון זה, עלולה לגרום לחשיפה מסוכנת לקרינה.

Product Environmental Information

Refer to www.honeywellaidc.com/environmental for the RoHS / REACH / WEEE information.

Renseignements relatifs à l'environnement à propos des produits

Reportez-vous à la page www.honeywellaidc.com/environmental pour obtenir des renseignements concernant les directives RoHS/REACH/WEEE.

Informations environnementales sur les produits

Reportez-vous au site www.honeywellaidc.com/environmental pour obtenir des informations sur les directives RoHS/REACH/WEEE.

Informazioni ambientali relative al prodotto

Consultare il sito web www.honeywellaidc.com/environmental per informazioni su RoHS/REACH/RAEE.

Informationen zur Umweltverträglichkeit von Produkten

Unter www.honeywellaidc.com/environmental finden Sie Informationen über RoHS/REACH/WEEE.

Información ambiental del producto

Consulte www.honeywellaidc.com/environmental para obtener información sobre RoHS/REACH/WEEE.

Información ambiental de producto

Consulte la información RoHS/REACH/WEEE en www.honeywellaidc.com/environmental.

Informações ambientais sobre produtos

Consulte a página www.honeywellaidc.com/environmental para obter informações sobre as normas RoHS/REACH/WEEE.

产品环境信息

有关 RoHS / WEEE 信息，请参阅 www.honeywellaidc.com/environmental。

產品環境資訊

請參閱 www.honeywellaidc.com/environmental 以瞭解 RoHS / REACH / WEEE 資訊。

製品の環境情報

RoHS / REACH / WEEE に関する情報については、www.honeywellaidc.com/environmental を参照してください。

제품 환경 정보

RoHS / REACH / WEEE 정보는 www.honeywellaidc.com/environmental 에서 참조하십시오 .

Экологическая информация о продукции

Информация о соответствии требованиям RoHS / REACH / WEEE приведена на сайте www.honeywellaidc.com/environmental.

المواصفات البيئية للمنتج

للحصول على معلومات حول توجيهات RoHS / REACH / WEEE انتقل إلى الموقع www.honeywellaidc.com/environmental.

לפרטים אודות המידע הסביבתי של מוצרי

באתר האינטרנט ובכתובת: www.honeywellaidc.com/environmental for the RoHS / REACH / WEEE information.

C-UL-US UL and C-UL Statement

UL and C-UL listed: UL 60950-1, Second Edition and CSA C22.2 No.60950-1-07, Second Edition.

C-UL-US Norme UL and C-UL

Homologué UL et C-UL : UL 60950-1, seconde édition et CSA C22.2 No. 60950-1-07, seconde édition.

This document was prepared and executed in the English language. In the event this document is translated into another language and a conflict arises between the English version and a non-English version, the English version shall prevail. It being recognized and acknowledged that the English language version most clearly expresses the intent of the parties. Any notice or communication given in connection with this document must include a version in the English language.

Ce document a été préparé et exécuté dans la langue anglaise. Dans l'éventualité où le document serait traduit dans une autre langue et qu'un litige surviendrait entre la version en anglais et la version autre qu'en anglais, la version en anglais prévaudra, étant confirmé et reconnu que la version en anglais exprime de façon plus précise l'intention des parties. Tout avis ou toute communication relatif à ce document doit inclure une version en anglais.

Ce document a été préparé et finalisé en anglais. Si ce document est traduit dans une autre langue et qu'un conflit survient entre la version en anglais et la version traduite, la version en anglais prévaudra tant il est reconnu et établi que l'anglais exprime le plus clairement les intentions des parties. Tout avis ou communication produit en relation avec ce document doit comporter une version en anglais.

Questo documento è stato preparato e redatto in lingua inglese. In caso di traduzione in altre lingue, nell'eventualità sorgano conflitti fra la versione non inglese e quella inglese, prevarrà quest'ultima in quanto viene riconosciuto e accettato che la versione in lingua inglese esprime più chiaramente gli accordi fra le parti. Qualsiasi notifica o comunicazione inviata in rapporto a questo documento deve includere una versione in lingua inglese.

Dieses Dokument wurde in englischer Sprache erstellt und ausgefertigt. Wenn dieses Dokument in eine andere Sprache übersetzt wird, und ein Konflikt zwischen der englischen und nicht-englischen Fassung auftritt, hat die englische Fassung Vorrang, da die Parteien anerkennen, dass die Fassung in englischer Sprache Ihren Absichten am deutlichsten Ausdruck verleiht. Alle Hinweise oder Mitteilungen in Zusammenhang mit diesem Dokument müssen auch in einer Fassung in englischer Sprache erfolgen.

Originalmente, este documento se creó y redactó en inglés. En caso de que se traduzca a otro idioma y surja un conflicto entre la versión en inglés y la versión en otro idioma, prevalecerá la versión en inglés, ya que se reconoce y admite que, en la versión en inglés, expresa la intención de las partes con más claridad. Cualquier aviso o comunicación proporcionada en relación con este documento debe incluir una versión en inglés.

Este documento se preparó y redactó en inglés. En caso de que se traduzca a otro idioma y surja algún conflicto entre la versión en inglés y la versión en otro idioma, prevalecerá la versión en inglés, dado que se reconoce y admite que la versión en inglés expresa más claramente la intención de las partes. Cualquier aviso o comunicación proporcionada en relación con este documento deberá incluir una versión en inglés.

Este documento foi preparado e feito em língua inglesa. Se este documento for traduzido para outro idioma e surgirem conflitos entre a versão em inglês e a versão no outro idioma, a versão em inglês prevalecerá, sendo reconhecido e atestado que a versão em língua inglesa expressa mais claramente a intenção das partes. Qualquer comunicação ou aviso relacionado a este documento deve conter a versão em inglês.

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تم إعداد هذا المستند وتنفيذه باللغة الإنجليزية. إذا قمت بترجمة هذا المستند إلى لغات أخرى وكان هناك اختلاف بين الإصدار الإنجليزي وإصدار آخر غير الإنجليزي، يُعد الإصدار الإنجليزي هو السائد حيث إن الإصدار الإنجليزي هو الذي يعبر بوضوح وصراحة عن نية الأطراف. يجب أن تشتمل أية إشعارات أو اتصالات ذات صلة بهذا المستند على إصدار باللغة الإنجليزية.

מסמך זה נערך ונוסח בשפה האנגלית. במקרה שמסמך זה יתורגם לשפה אחרת ותתגלה סתירה בין משמעות הגרסה באנגלית לגרסה המתורגמת, הגרסה באנגלית תהיה הגרסה הקובעת. מסכם על התחלה כי הגרסה האנגלית מבטאת באופן הברור ביותר את כוונת הצדדים. כל הודעה שתימסר בהקשר למסמך זה חייבת לכלול את הגרסה בשפה האנגלית.

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Specifications

Use this section to find technical information about the SF61B scanner models.

Physical Dimensions	
Length	15.6 cm (6.1 in) with magnet end-cap
	16.0 cm (6.3 in) with ring end-cap
Height	3.9 cm (1.5 in)
Width	4.6 cm (1.8 in)
Weight	184 g (6.5 oz) with the battery
	137 g (4.8 oz) without the battery
	Battery = 47 g (1.7 oz)

Power and Electrical Specifications	
Operating	Rechargeable lithium-ion battery (2600 mAh)
Electrical rating	⎓ 5V, 2A
ESD sensitivity	± 8 kV (air discharge)
	± 4 kV (contact discharge)

Temperature and Environmental Specifications	
Operating	-20°C to 50°C (-4°F to 122°F)
Storage	-40°C to 70°C (-40°F to 158°F)
Charging	0°C to 45°C (32°F to 113°F)
Relative humidity	5 to 95% non-condensing
Shock	40G, half sinus, 6 ms, 6 directions
Vibrations	8G, from 10Hz to 500Hz, 2hr/axis, 3 axes
Tumble test	2000 tumbles at 1m height
Environmental rating	Standard model IP65, Healthcare model IP64
Ambient light	0 to 100 000 lux

Bluetooth Radio

Radio Type	Bluetooth Class 1 version 2.1 + EDR
Frequency	2400 - 2483.5 MHz

Scanning Performance

SF61B1D	Scan angle: 38°
	Minimum X dimension: 4mils (0.1 mm)
	Maximum scan rate: 200 scans/second
	Minimum print contrast: 20%
SF61B2D	Scan angles: 39° horizontal, 25.5° vertical
	Minimum X dimension 1D: 4 mils (0.1 mm)
	Minimum X dimension 2D: 6.6 mils (0.17 mm)
	Minimum print contrast: 20%
SF61BHP	Scan angles: 34.4° horizontal, 22.2° vertical
	Framing angles: 30° horizontal, 20° vertical
	Minimum X dimension 1D: 4 mils (0.1 mm)
	Minimum X dimension 2D: 6.6 mils (0.17 mm)
	Minimum print contrast: 20%

Bar Code Symbologies for 1D Models (SF61B1D)

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

| Bar Code Symbologies for 2D Models (SF61B2D, SF61BHP)	
Australian Post	Han Xin Code
Aztec	Infomail
BPO	Intelligent mail
Canada Post	Interleaved 2 of 5
Codabar	Japan Post
Codablock A	Matrix 2 of 5
Codablock F	Maxicode
Code 11	Micro PDF417
Code 39	MSI
Code 93/93i	Multicode
Code 128 / GS1-128	PDF417
DataMatrix	Planet
Dutch Post	Plessey
EAN/UPC	Postnet
GS1 Composite	QR Code
GS1 DataBar Expanded	Standard 2 of 5
GS1 DataBar Limited	Sweden Post
GS1 DataBar Omni-Directional	Telepen
GS1 DataBar Stacked	TLC 39

Reading Distances

Values shown are for typical distances measured from the front end of the scanner bezel in an office environment (200 lux) with extended reading range activated.
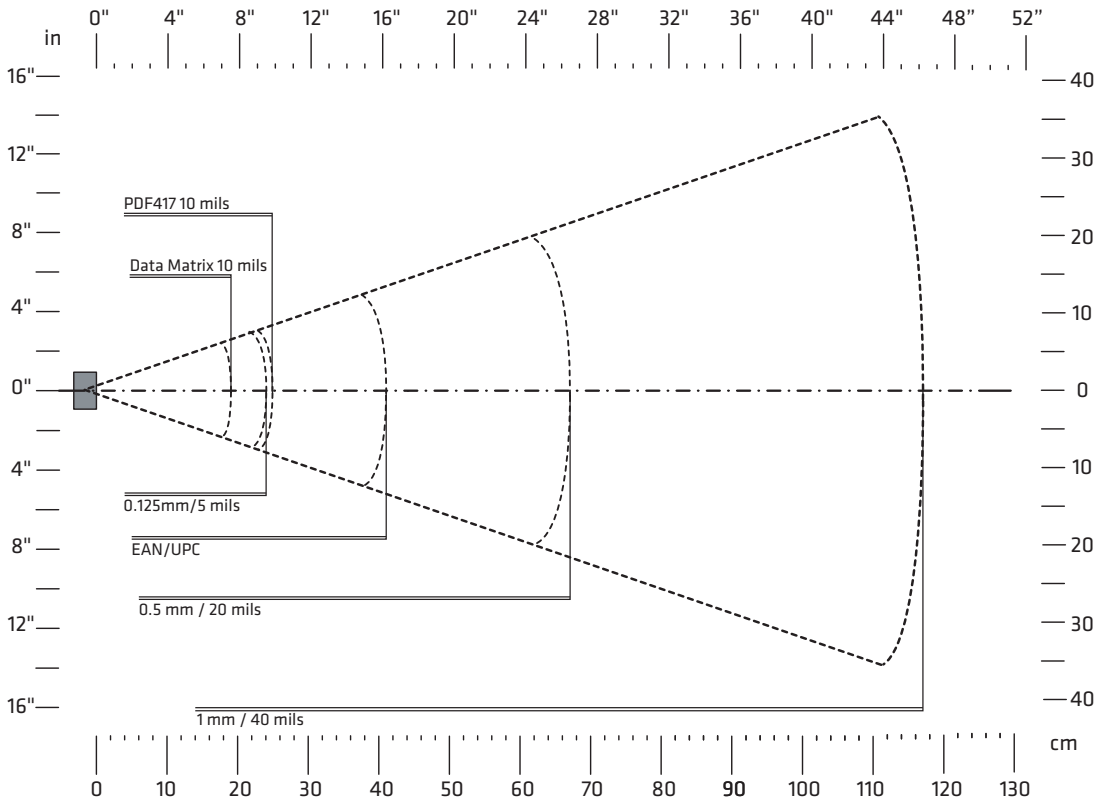
Note: Minimum distances depend on the number of characters encoded in the bar code.
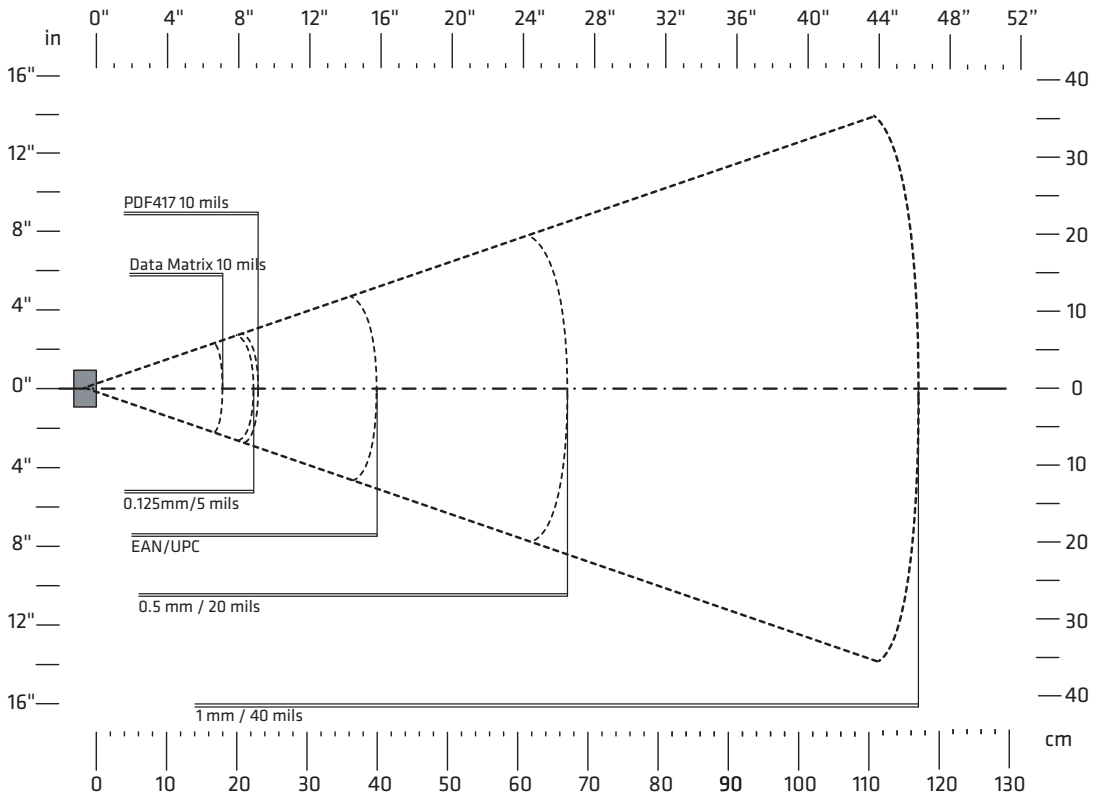
SF61B1D
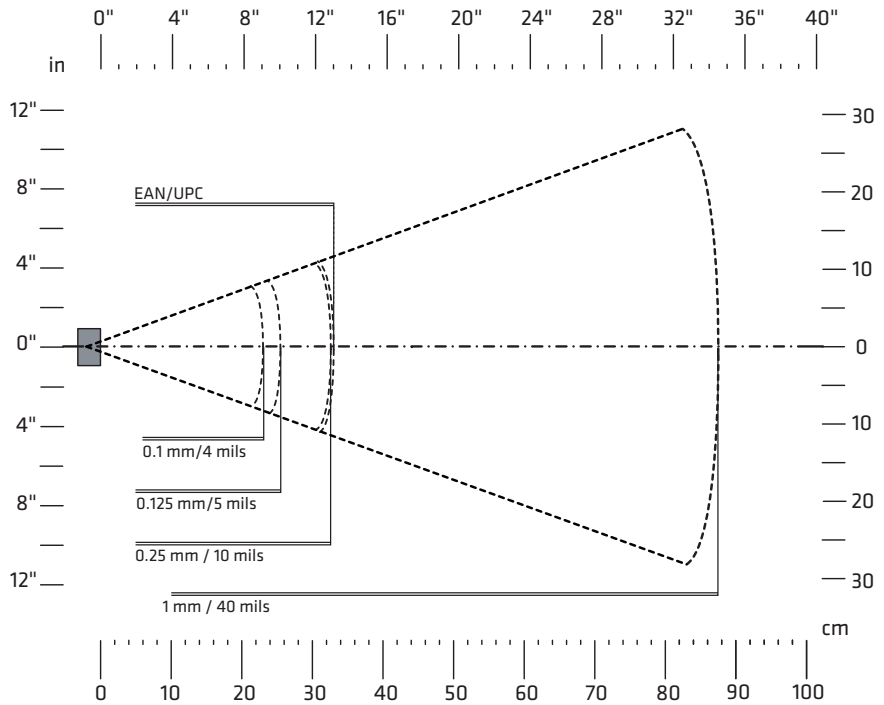
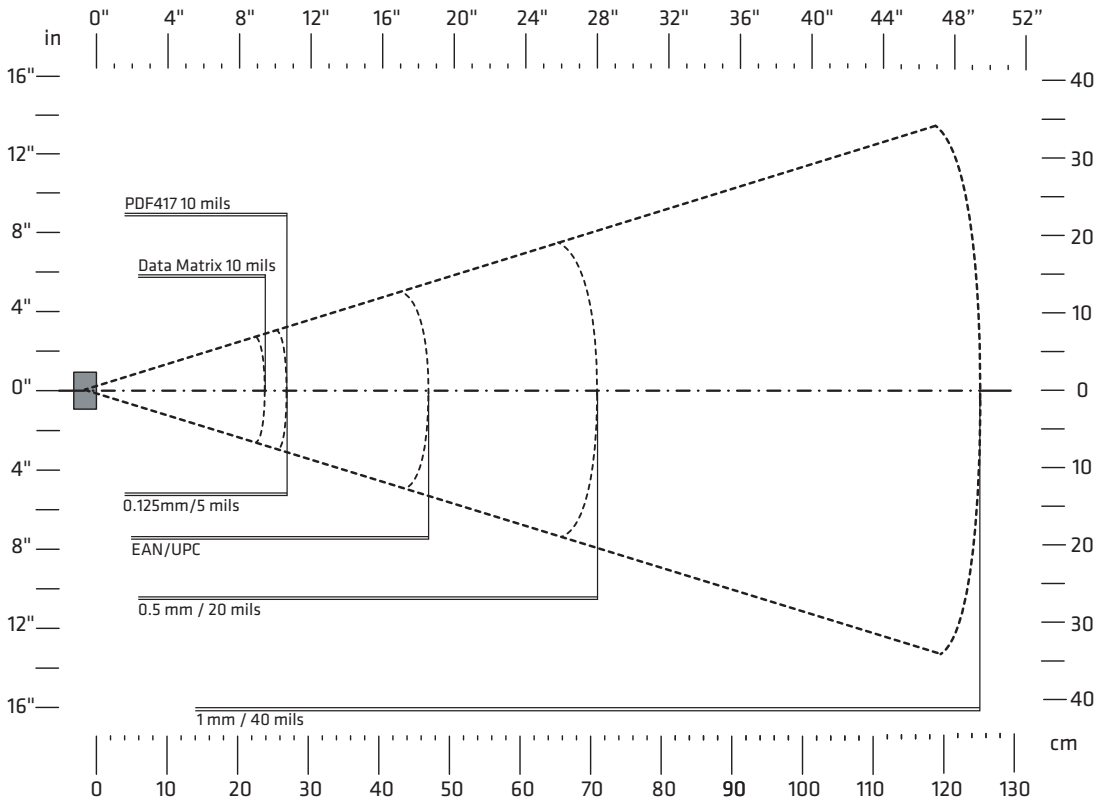| Symbology	Density	Minimum Distance	Maximum Distance
Code 39	0.1 mm (4 mils)	6 cm (2.36 in)	23 cm (9.06 in)
	0.125 mm (5 mils)	5 cm (1.97 in)	25.5 cm (10.04 in)
	0.25 mm (10 mils)	5 cm (1.97 in)	32.5 cm (12.80 in)
	1 mm (40 mils)	10 cm (3.94 in)	87.5 cm (34.45 in)
EAN/UPC	0.33 mm (13 mils)	5 cm (1.97 in)	33 cm (12.99 in)

SF61B2D Standard Model

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)

SF61B2D Healthcare Model

Symbology	Density	Minimum Distance	Maximum Distance
Code 39	0.1 mm (4 mils)	4 cm (1.57 in)	18 cm (7.09 in)
	0.125 mm (5 mils)	4 cm (1.57 in)	22.5 cm (8.86 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)	40 cm (15.75 in)
PDF417	0.25 mm (10 mils)	4 cm (1.57 in)	23 cm (9.06 in)
	0.38 mm (15 mils)	4 cm (1.57 in)	34 cm (13.39 in)
DataMatrix	0.25 mm (10 mils)	5 cm (1.97 in)	18 cm (7.09 in)

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 (18.50 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)

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SF61 Cordless Scanner User's Guide

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