

The Intermec logo is displayed in a bold, dark blue, sans-serif font. It is positioned to the left of a square icon and is partially overlaid by a large, light blue, stylized graphic of overlapping circles and lines.

Intermec



User's Manual



**SR61 Cordless
Scanner**

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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
002	8/2007	Revised to add: <ul style="list-style-type: none">• information to support firmware release 2.0 for the SR61, which is now available with a near-far range area imager.• reading distance information for all scanner options.• references to Intermec SmartWedge™.

Contents

Before You Begin	ix
Safety Information	ix
Global Services and Support	ix
Warranty Information	ix
Web Support	x
Telephone Support	x
Who Should Read This Guide	xi
Related Documents	xi
Patent Information	xii

1 Learning About the SR61 1

Introducing the SR61 Cordless Scanner	2
What's New?	3
Using the Battery	3
Charging the Battery	3
Checking the Battery Status	4
How to Turn On the SR61	4
Understanding the Lights	5
Understanding the Beeps	6
Scanning Bar Codes	8
Using Vibrate Alert	10

2 Connecting and Configuring the SR61 13

Connecting the SR61 to a Host Device	14
Connecting to an Intermec Computer	15
Connecting to a Host PC With the USB or RS-232 Bluetooth Adapter	16
Connecting as a Keyboard Wedge	16
Collecting Data With Your SR61	18

Contents

Configuring the SR61 Parameters	19
Configuring the SR61 With EasySet	19
Configuring the SR61 From Your Intermec Computer	21
Restoring Default Settings.	21
Configuring Bluetooth Communications.	22
Configuring Security	22
Configuring the Discoverable State of the SR61	23
3 Troubleshooting and Maintaining the SR61	25
Troubleshooting the SR61	26
Calling Product Support	26
Problems and Possible Solutions	27
Resetting the SR61	29
Paging the SR61	29
Maintaining the SR61	30
Upgrading the SR61	30
Cleaning the SR61	32
4 Configuration Command Reference	33
Using Configuration Commands.	34
Configuration Commands By Function.	35
SR61 Configuration Commands	39
Administrator Reset Factory Defaults	39
Aimer Flashing Mode	39
Australian Post.	39
Aztec	39
Beep Duration.	40
Beep Frequency	40
Beep Volume	40
Bluetooth Connect/Disconnect	40
Bluetooth Device Name	41
Bluetooth Device Page.	41
Bluetooth Discoverable	41
Bluetooth Pageable Mode	41
Bluetooth PIN.	42
Bluetooth Profile	42
Bluetooth Security.	42
BPO	42

Canada Post	42
Codabar	43
Codablock A.	43
Codablock F.	43
Code 11	43
Code 39	43
Code 93/93i	43
Code 128 / EAN 128	44
ISBT 128	44
GTIN Processing for EAN 128	44
Configuration Modes and Utilities	45
Consecutive Same Read Data Validation	45
Data Editing.	45
DataMatrix.	45
Decode Mode.	45
Disable All Symbologies	46
Dutch Post	46
EAN.UCC Composite	46
Error Beep	46
Good Read Beep Duration	47
Good Read Beep Number.	47
Good Read Beep Timing	47
Good Read LED Duration	47
Interleaved 2 of 5	47
Japan Post.	47
Lighting Goal	47
Matrix 2 of 5	48
Maxicode	48
Micro PDF417.	48
MSI	48
PDF417	48
Planet	49
Plessey	49
Postamble	49
Postnet	49
Preamble.	49
Predefined Security Levels.	50
QR Code	50
RSS 14	50
RSS Expanded	50
RSS Limited	50
Sensor Optimization.	50
Setup Beep	51
Stacked Code Crackle.	51
Standard 2 of 5	51
Symbology Identifier	51
Telepen.	52

Contents

Timeout Between Different Consecutive Codes	52
Timeout Between Identical Consecutive Codes	52
TLC 39	52
Trigger Mode	53
Trigger Timeout	54
Turn Off After Good Read	54
UPC/EAN	54
ISBN	54
GTIN Processing	55
User Reset Factory Defaults	55
Vibrate Alert	55
Vibrate Alert Duration	55

A Specifications and Accessories 57

Specifications	58
Physical Dimensions	58
Power and Electrical Specifications	58
Temperature and Environmental Specifications	58
Bluetooth Radio	58
Communication Range	58
Bar Code Symbolologies	59
Scan Engines	60
Accessories for the SR61	67

I Index 69

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 warnings, cautions, and notes that are in this document.



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.



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.

Global Services and Support

Warranty Information

To understand the warranty for your Intermec product, visit the Intermec web site at www.intermec.com and click **Support > Returns and Repairs > Warranty**.

Disclaimer of warranties: The sample code included in this document is presented for reference only. The code does not necessarily represent complete, tested programs. The code is provided “as is with all faults.” All warranties are expressly disclaimed, including the implied warranties of merchantability and fitness for a particular purpose.

Web Support

Visit the Intermec web site at www.intermec.com to download our current documents (in PDF). To order printed versions of the Intermec manuals, contact your local Intermec representative or distributor.

Visit the Intermec support services knowledge base (Knowledge Central) at intermec.custhelp.com to review technical information or to request technical support for your Intermec product.

Telephone Support

These services are available from Intermec.

Services	Description	In the U.S.A. and Canada call 1-800-755-5505 and choose this option
Order Intermec products	<ul style="list-style-type: none">Place an order.Ask about an existing order.	1 and then choose 2
Order Intermec media	Order printer labels and ribbons.	1 and then choose 1
Order spare parts	Order spare parts.	1 or 2 and then choose 4
Technical Support	Talk to technical support about your Intermec product.	2 and then choose 2
Service	<ul style="list-style-type: none">Get a return authorization number for authorized service center repair.Request an on-site repair technician.	2 and then choose 1
Service contracts	<ul style="list-style-type: none">Ask about an existing contract.Renew a contract.Inquire about repair billing or other service invoicing questions.	1 or 2 and then choose 3

Outside the U.S.A. and Canada, contact your local Intermec representative. To search for your local representative, from the Intermec web site, click **Contact**.

Who Should Read This Guide

This guide is for the person who is responsible for installing, configuring, and maintaining the SR61.

This guide provides you with information about the features of the SR61, and how to install, configure, operate, maintain, and troubleshoot it.

Before you work with the SR61, you should be familiar with your network and general networking terms, such as IP address. You should also be familiar with Bluetooth communications.

Related Documents

The Intermec web site contains Intermec documents (in PDF) that you can download for free.

To download documents

- 1** Visit the Intermec web site at www.intermec.com.
- 2** Click **Service & Support > Manuals**.
- 3** In the **Select a Product** field, choose the product whose documentation you want to download.

To order printed versions of the Intermec manuals, contact your local Intermec representative or distributor.

Patent Information

Product is covered by one or more of the following patents:

4,882,476; 4,894,523; 4,953,113; 4,970,379; 4,988,852;
5,019,699; 5,021,642; 5,038,024; 5,081,343; 5,095,197;
5,144,119; 5,144,121; 5,182,441; 5,187,355; 5,187,356;
5,216,233; 5,216,550; 5,218,191; 5,233,172; 5,241,488;
5,243,602; 5,258,606; 5,288,985; 5,308,966; 5,342,210;
5,359,185; 5,389,770; 5,397,885; 5,414,251; 5,416,463;
5,442,167; 5,464,972; 5,468,947; 5,468,950; 5,477,044;
5,486,689; 5,500,516; 5,502,297; 5,504,367; 5,514,858;
5,534,684; 5,536,924; 5,539,191; 5,541,419; 5,548,108;
5,550,362; 5,550,364; 5,565,669; 5,572,007; 5,576,529;
5,594,230; 5,598,007; 5,608,578; 5,616,909; 5,619,027;
5,640,001; 5,659,431; 5,672,860; 5,684,290; 5,719,678;
5,729,003; 5,742,041; 5,761,219; 5,764,798; 5,777,308;
5,777,309; 5,777,310; 5,786,583; 5,798,509; 5,798,513;
5,804,805; 5,811,776; 5,811,777; 5,818,027; 5,821,523;
5,834,749; 5,837,987; 5,841,121; 5,842,070; 5,854,478;
5,862,267; 5,869,840; 5,873,070; 5,877,486; 5,878,395;
5,886,338; 5,895,906; 5,902,987; 5,902,988; 5,912,452;
5,923,022; 5,936,224; 5,949,056; 5,969,321; 5,969,326;
5,979,768; 5,987,192; 5,992,750; 6,003,775; 6,012,640;
6,016,960; 6,018,597; 6,024,289; 6,034,379; 6,036,093;
6,039,252; 6,064,763; 6,095,422; 6,097,839; 6,102,289;
6,102,295; 6,119,941; 6,128,414; 6,138,915; 6,149,061;
6,149,063; 6,152,370; 6,155,490; 6,158,661; 6,164,542;
6,164,545; 6,173,893; 6,195,053; 6,234,393; 6,234,395;
6,249,008; 6,328,214; 6,330,975; 6,345,765; 6,356,949;
6,367,699; 6,375,075; 6,375,076; 6,435,411; 6,484,944;
6,641,046; 6,669,087; 6,681,994; 6,688,523; 6,732,930;
6,879,428; 6,889,903; 6,974,085.

There may be other U.S. and foreign patents pending.



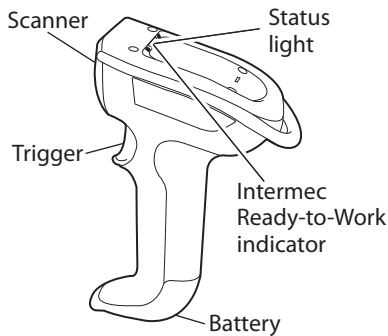
1 Learning About the SR61

Use this chapter to familiarize yourself with the SR61 Cordless Scanner. This chapter covers these topics:

- Introducing the SR61 Cordless Scanner
- What's New?
- Using the Battery
- How to Turn On the SR61
- Understanding the Lights
- Understanding the Beeps
- Scanning Bar Codes
- Using Vibrate Alert

Introducing the SR61 Cordless Scanner

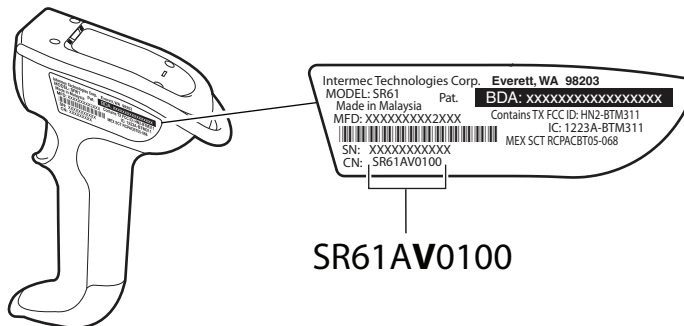
The SR61 Cordless Scanner is a small, rugged handheld scanner. The SR61 is lightweight, ergonomically designed, and uses a Bluetooth™ radio for RF communications.



SR61 Cordless Scanner

The SR61 comes with one of these scan engine options:

- 1D linear imager (SR61xV)
- 2D area imager (SR61xA)
- Laser scanner (SR61xL)
- Near-far range area imager (SR61xE)



SR61 Scan Engine Option: The scan engine option of your SR61 is the sixth character of the configuration number. In this illustration, the scan engine option is V or 1D linear imager.

For more information about the scanner options, see “[Scanning Bar Codes](#)” on page 8.

What's New?

This version of the user's guide supports the firmware version 2.0 release of the SR61 and includes these updates:

- Information to support the near-far range area imager option
- Minimum reading distance information for all scanner options
- Support for Intermec SmartWedge™, a software wedge tool that allows you to scan data directly to your host PC application

You can download the latest firmware version at no charge from the Intermec web site at www.intermec.com.

Using the Battery

The SR61 uses the AB3 lithium-ion battery as its main power source. You need to fully charge the battery before you can use the SR61.



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). Charge only with Intermec Models AC5, AC6, AC7, and AC8. Do not short circuit; may cause burns. Keep away from children.

Use only Intermec battery pack Model AB3. Use of incorrect battery pack may present risk of fire or explosion. Promptly dispose of used battery pack according to the instructions.

Charging the Battery

Make sure you fully charge the battery before you start using the SR61.

To charge the battery

- Place the SR61 with the AB3 battery installed in the desktop/wall mount 1-bay charger (AC5).
- Or,
- Remove the battery from the SR61, and insert the battery into the 2-bay, 4-bay, or 8-bay (AC6, AC7, or AC8) charger.

For more information, see the instructions that ship with the charger.

Checking the Battery Status

You can check your battery status at any time.

To check the battery status

- Pull the trigger.

If the status light on the SR61 turns red, the battery is low (less than 20% battery capacity remaining). You need to charge the battery now.

How to Turn On the SR61

You use the trigger to turn on the SR61.

To turn on the SR61

- Pull the trigger.

When you pull the trigger to turn on the SR61, the scanner enters a discoverable state and remains discoverable for about 5 minutes. While the SR61 is discoverable and in communications range, your host Bluetooth device can discover your SR61 and establish a Bluetooth connection.



Note: If you have a near-far range imager, it may take up to 3 seconds for the status light to turn on after you pull the trigger.

If the status light on the SR61 turns red when you try to turn on the scanner, you need to charge the battery. For help, see [“Charging the Battery” on page 3](#).

To turn off the SR61

- Scan this bar code:

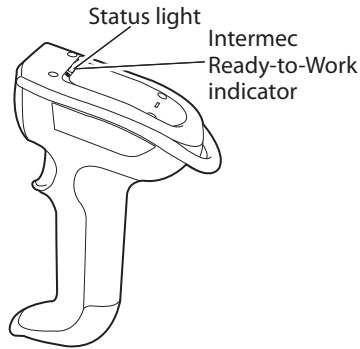
Scanner Power Down



\60\08\2A\46

Understanding the Lights

The lights on the SR61 indicate the status of the battery, a successful decode of a bar code, or the status of the Bluetooth connection.



SR61 Lights: The status light is either green or red, and the Intermec Ready-to-Work™ indicator is blue.

Status Light Description

Light State	What It Means
Blinks green one time	The SR61 successfully decoded a bar code and sent the data to the host. The SR61 successfully scanned a configuration bar code.
Flashes red when you pull the trigger	The battery is low. You need to charge the battery.
Flashes red and stays on for 2 seconds	You scanned a bar code, but the data was not sent to the host. You scanned a configuration bar code and the SR61 did not accept it.



Note: When the SR61 is in the 1-bay charger, the status light indicates the battery charging status. For more information, see the instructions that ship with the charger.


Blue Intermec Ready-to-Work Indicator Description

Light State	What It Means
On	A Bluetooth connection with the host computer has been established. The SR61 is ready to scan bar codes and send data to the host computer.
Blinking	The SR61 is trying to establish a Bluetooth connection with the host computer, or the SR61 is moving out of range of the host computer.
Off	A Bluetooth connection to the host computer is not established.

Understanding the Beeps

The SR61 beeps to give you audio feedback when performing some functions. For example, you hear a beep each time you scan a valid bar code.

SR61 Beeps Description

Beep Sequence	What It Means
Single beep	The SR61 successfully decoded a bar code or scanned a configuration bar code.
Series of beeps from low to high	The SR61 connected to a Bluetooth host.
Series of beeps from high to low	A Bluetooth connection has been lost.
Three beeps	Data was not successfully sent to the host. The SR61 is out of range of the host. A configuration bar code was not successfully scanned.
Continuous tone for several seconds	You just scanned the Administrator Reset Factory Defaults bar code and the non-volatile memory is being written.
 Caution	Do not remove the battery or place the SR61 in a 1-bay charger until the tone stops. Otherwise, the firmware memory may be corrupted.

SR61 Beeps Description (continued)

Beep Sequence	What It Means
Continuous beeping for 1 minute	The host PC sent the Bluetooth Device Page command to the SR61. Once you find the misplaced SR61, pull the trigger to stop the beeps. For more information about paging the SR61, see “Paging the SR61” on page 29.



Note: The SR61xV (linear imager) and SR61xL (laser scanner) may also produce a crackle sound when you scan a stacked (2D) bar code. For more information, see [“Stacked Code Crackle” on page 51.](#)

You can change the beep volume for your needs and environment. You can set the beep volume to Low (quiet), Medium (loud), or High (very loud - default).

To turn off the beeper

- Scan this bar code:

Beep Duration - 0



\60\03\11\21\00\00\00



Note: Turning off the beeper turns off only the bar code scanning beeps. The beeps for Bluetooth Connect/Disconnect and Bluetooth Device Page are not affected.

You can also change the beeper duration and beeper frequency. For more information about the beeper commands, see Chapter 4, [“Configuration Command Reference.”](#)

Scanning Bar Codes



For the SR61xL and SR61xE, do not look directly into the window area or at a reflection of the laser beam or laser aiming beam while the laser is scanning. Long-term exposure to the laser beam can damage your vision.

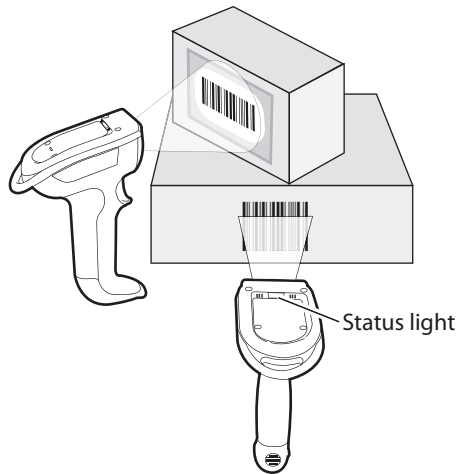
The SR61 contains either a 1D linear imager (SR61xV), 2D area imager (SR61xA), laser scan engine (SR61xL), or near-far range area imager (SR61xE) to scan bar code data. The type of scan engine you are using and the type of bar code you are decoding determines the way you scan the bar code.

When you unpack the SR61, these bar code symbologies are enabled:

- Code 39
- Code 128 / EAN 128
- UPC/EAN
- PDF417
- DataMatrix (SR61xA and SR61xE only)

If you are using bar code labels that are encoded in a different symbology, you need to enable the symbology on your SR61. Use EasySet version 5.4.1 or later to enable and disable symbologies for your scanner. EasySet is available at no charge from the Intermec web site at www.intermec.com.

Before you can scan bar codes and send data to your data collection application, you need to establish a Bluetooth connection between your SR61 and the host device. For more information about establishing a Bluetooth connection, see **“Connecting the SR61 to a Host Device” on page 14.**



Scanning Bar Codes: The aiming and scanner beams that you see depend on whether you have a laser scanner (SR61xL), 1D linear imager (SR61xV), 2D area imager (SR61xA), or near-far range area imager (SR61xE).

To scan a bar code label with a laser scanner or 1D linear imager

- 1 Point the SR61 at the bar code label and hold the SR61 at a slight angle 15 to 25 cm (6 to 10 in) from the label.
- 2 Pull the trigger, and direct the red beam so that it falls across all 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 with the 1D linear imager.

When the SR61 successfully reads a bar code label, the SR61 creates a single high beep and the status light briefly turns green. If Vibrate Alert is enabled, the SR61 briefly vibrates.

- 3 Release the trigger.

To scan omni-directionally with the 2D or near-far range area imager

- 1** Point the scanner window at the bar code label and hold the SR61 steady a few inches from the label.
- 2** Pull the trigger.
 - If you are scanning with a 2D imager, center the red aiming beam over the bar code label.
 - If you are scanning with a near-far range area imager, position the red aiming beam just to the right of the center of the bar code label.
- 3** The imager may flash repeatedly while it is trying to read a bar code. The aiming beam is smaller when the imager is closer to the bar code and larger when it is further away.

When the SR61 successfully reads a bar code label, the SR61 creates a single high beep and the status light briefly turns green. If Vibrate Alert is enabled, the SR61 briefly vibrates.

- 4** Release the trigger.

Using Vibrate Alert

You can configure the SR61 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 beep.
- 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

- Scan this bar code:

Turn On Vibrate Alert



\60\03\10\48\00\02\40

To turn off vibrate alert

- Scan this bar code:

Turn Off Vibrate Alert



\60\03\10\48\00\00\00



2 Connecting and Configuring the SR61

Use this chapter to understand how to connect the SR61 to a host device and configure the SR61 to communicate with your application. This chapter covers these topics:

- Connecting the SR61 to a Host Device
- Configuring the SR61 Parameters
- Configuring Bluetooth Communications

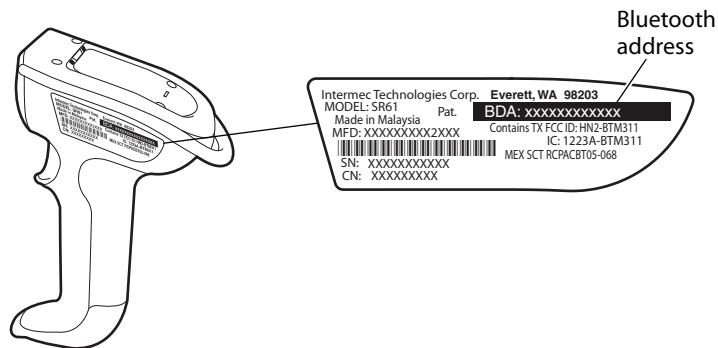
Connecting the SR61 to a Host Device

You can use Bluetooth radio communications to connect up to seven SR61 scanners to:

- an Intermec computer that is Bluetooth-enabled. For help, see “[Connecting to an Intermec Computer](#)” on page 15.
- a PC with a USB Bluetooth adapter (P/N 203-771-xxx) or RS-232 Bluetooth adapter (P/N 203-768-xxx). For help, see “[Connecting to a Host PC With the USB or RS-232 Bluetooth Adapter](#)” on page 16.
- other Bluetooth-enabled devices that support Serial Port Profile (SPP). For help, see the instructions for your Bluetooth-enabled device.

Before connecting the SR61 to a host device, note the Bluetooth address for the:

- host Bluetooth device.
- SR61.



SR61 Bluetooth Address: The SR61 Bluetooth address is located in the top right corner of the label on the side of the SR61.

To connect to a host device, you may need to install EasySet, the Intermec configuration application that allows you to change settings on the SR61. For the SR61, you need EasySet version 5.4.1 or later. You can download EasySet at no charge from the Intermec web site at www.intermec.com.

Connecting to an Intermec Computer

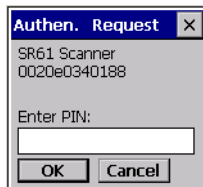


Note: When you first connect to an Intermec computer, only SR61 settings common to the Intermec computer's internal scanner settings are changed to the internal scanner's default settings.

- 1 Turn on the SR61 by pulling the trigger.
- 2 Scan the Bluetooth association bar code label that ships with your Intermec computer. If you do not have a Bluetooth association bar code label for your Intermec computer, use EasySet to create a Bluetooth connect bar code. For help, see the EasySet software.

Tip: Depending on your screen resolution, you may be able to scan this bar code displayed on your computer screen with an SR61xA, SR61xV, or SR61xE.

The SR61 beeps once, the green status light flashes once, and the blue Intermec Ready-to-Work™ indicator starts blinking. On your Intermec computer, the Authen. Request dialog box appears.



- 3 In the **Enter PIN** field, enter the default PIN (0000) and select **OK**.

When the SR61 connects to your Intermec computer, the SR61 emits a series of beeps from low to high, and the blue Intermec Ready-to-Work indicator turns on and stays on. The SR61 is ready to scan data.

- 4 Repeat Steps 1 to 3 to connect up to seven SR61s to the Intermec computer.



Note: You can also use the Intermec Bluetooth Scanner Wizard on the Intermec computer. For help, see the documentation for your Intermec computer.

Connecting to a Host PC With the USB or RS-232 Bluetooth Adapter

- 1 Install the USB Bluetooth adapter (P/N 203-771-xxx) or RS-232 Bluetooth adapter (P/N 203-768-xxx) and software on your host PC.
- 2 Connect and pair up to seven SR61s with your host PC.

For help, see the instructions that ship with the adapter.

To disconnect from a host PC

- Scan this bar code:

Bluetooth Device Disconnect



\60\02\52\05\00\00\06\00\00\00\00\00\00\00\00

The SR61 disconnects from your host PC, emits a series of beeps from high to low, and the blue Intermec Ready-to-Work indicator turns off.

Connecting as a Keyboard Wedge

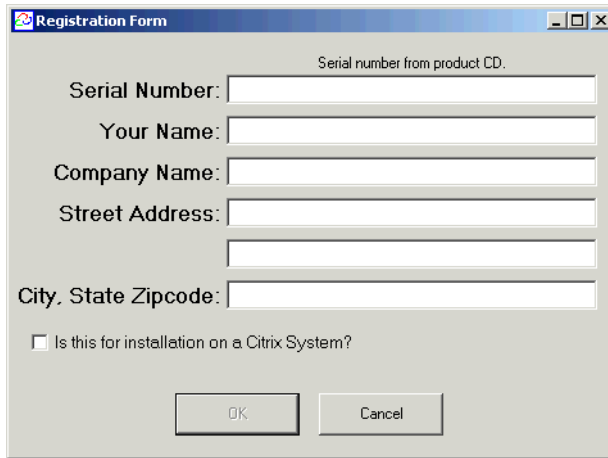
You can connect your SR61 to your host PC as a keyboard wedge. Connecting as a keyboard wedge lets your host PC receive data from the SR61 as it would from a keyboard. You can use one of these applications:

- Intermec SmartWedge™ is a software wedge tool that allows you to scan data directly to your host PC application and configure the SR61 scanner from the PC using Intermec Settings. SmartWedge runs on Microsoft® Windows® XP with SP2. For help, see the instructions that ship with SmartWedge.
- Keyport Lite is a keyboard wedge application that supports English QWERTY keyboards. Keyport Lite runs on Microsoft Windows 98 and 2000. For help, see the next section procedure, “[To connect using Keyport Lite.](#)”

To order Intermec SmartWedge or Keyport Lite, contact your local Intermec representative.

To connect using Keypoint Lite

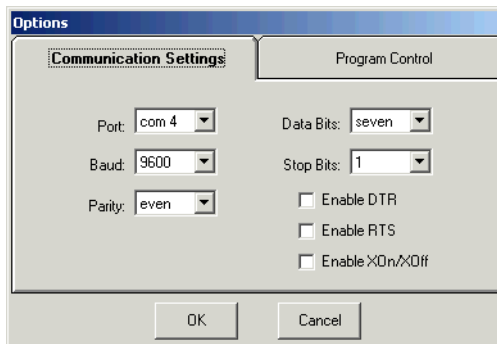
- 1 Connect your SR61 to your host PC running Microsoft Windows 98 or 2000. For help, see the previous section, [“Connecting to a Host PC With the USB or RS-232 Bluetooth Adapter.”](#)
- 2 Install Keypoint Lite on your PC.
- 3 Start Keypoint Lite. From the **Window** menu, select **Change Registration**. The Registration Form appears.



The Registration Form dialog box contains the following fields and options:

- Serial Number: [text input field]
- Your Name: [text input field]
- Company Name: [text input field]
- Street Address: [text input field]
- [text input field]
- City, State Zipcode: [text input field]
- Is this for installation on a Citrix System?
- OK button
- Cancel button

- 4 Fill in the information on the Registration Form, and click **OK**.
- 5 From the **Window** menu, select **Options**. The Options window appears.



The Options dialog box has two tabs: Communication Settings and Program Control. The Communication Settings tab is active and contains the following settings:

- Port: com 4
- Baud: 9600
- Parity: even
- Data Bits: seven
- Stop Bits: 1
- Enable DTR
- Enable RTS
- Enable XOn/XOff
- OK button
- Cancel button

- 6 In the **Port** field, select the COM port being used for Bluetooth communications, and click **OK**.



Note: You can use either the incoming or outgoing (client or server) COM port.

- 7 Click the **Start** button. Your SR61 is connected to your host PC as a keyboard wedge.

For more information about Keypoint Lite, see the documentation that ships with the product.

Collecting Data With Your SR61

After you connect your SR61 to a host device, you are ready to start collecting data. The data collection method you use depends on whether you are using:

- an Intermec computer.
- a host PC.
- the SR61 as a keyboard wedge.

To collect data with your SR61

- 1 Establish a Bluetooth connection.
- 2 Start your data collection application.
- 3 For a host PC:
 - If necessary, configure your data collection application to receive data from the incoming or outgoing COM port.Or,
 - If necessary, connect your SR61 to your host PC as a keyboard wedge. For help, see [“Connecting as a Keyboard Wedge” on page 16](#).
- 4 Scan a bar code with your SR61. The data is entered into your application.

For more information, see [“Connecting the SR61 to a Host Device” on page 14](#).

Configuring the SR61 Parameters

You can configure many parameters on the SR61, such as the bar code symbologies it decodes or the volume of the beeper. These characteristics are controlled by configuration commands. The values you set for these configuration commands determine how the scanner operates.

You can configure the SR61:

- using EasySet version 5.4.1 or later. For help, see the next section, [“Configuring the SR61 With EasySet.”](#)
- remotely from your Intermec computer. For help, see [“Configuring the SR61 From Your Intermec Computer” on page 21.](#)
- remotely from your host PC using Intermec SmartWedge. For help, see the instructions that ship with SmartWedge.

Configuring the SR61 With EasySet

EasySet is an Intermec configuration application that provides you with two ways to configure the SR61:

- Send configuration commands from EasySet directly to the SR61.
- Send configuration commands to a bar code setup sheet. You can scan the bar codes onscreen with your SR61xA, SR61xV, or SR61xE or you can print the setup sheet and scan the bar codes. You do not need a Bluetooth connection to use this method.

To configure the SR61 by sending commands from EasySet

- 1 Establish a Bluetooth connection with your host PC.
- 2 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**.
- 3 Select the SR61.
- 4 Select **Communication > Connect**. The Online Setup dialog box appears.

- 5 Select the COM port that your SR61 is using for Bluetooth communications, and click **OK**.

EasySet connects to your SR61 and retrieves the current configuration of the SR61. This configurations are indicated with blue text.

- 6 In the Commands window, choose configuration command settings for your SR61.

Your SR61 is updated with the new configuration command settings, and the settings are added to the bar code setup sheet.



Note: The SR61 does not beep when you send configuration commands online from EasySet.

To configure the SR61 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**.
- 2 Select the SR61.
- 3 In the Commands window, choose configuration command settings for your SR61 and add them to the bar code setup sheet.
- 4 Scan the bar codes onscreen with your SR61xA, SR61xV, or SR61xE, or print the setup sheet and scan the commands. When you scan bar code configuration commands, the SR61 emits a series of beeps unless the volume is turned off.
 - One beep means you scanned a valid configuration command.
 - Three beeps means you scanned an invalid configuration command.

For more information about EasySet, see the EasySet software. For descriptions of the configuration commands, see Chapter 4, “[Configuration Command Reference](#).”

Configuring the SR61 From Your Intermec Computer

You can configure many settings for the SR61 from your Intermec computer. For descriptions of the configuration commands, see Chapter 4, “[Configuration Command Reference](#).”

To configure the SR61 from your Intermec computer

- 1 Establish a Bluetooth connection with your Intermec computer.



Note: When you first connect to an Intermec computer, only SR61 settings common to the Intermec computer’s internal scanner settings are changed to the internal scanner’s default settings.

- 2 On your Intermec computer, start the Intermec Settings application.
- 3 Select **Data Collection > SR61 Scanner Bluetooth Address**, where *Bluetooth Address* is the Bluetooth address of your SR61. The SR61 Bluetooth address is located in the top right corner of the label on the side of the SR61.
- 4 Configure commands from the SR61 Scanner menu for your SR61.
- 5 Select **File > Save Settings**. The SR61 is updated with the new configuration command settings.
- 6 Close Intermec Settings.

Restoring Default Settings

You can restore the SR61 to its default settings by scanning the Administrator Reset Factory Defaults bar code. For a list of the default settings, see “[Configuration Commands By Function](#)” on page 35.



Note: The Administrator Reset Factory Defaults command resets all parameters. When you scan this bar code, you will lose Bluetooth communications.

To restore default settings

- Scan this bar code:

Administrator Reset Factory Defaults



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After you scan the Administrator Reset Factory Defaults bar code, the SR61 produces a continuous tone while writing to the non-volatile memory. Do not remove the battery or place the SR61 in a 1-bay charger until the tone stops. Otherwise, the firmware memory may be corrupted.

Configuring Bluetooth Communications

The SR61 can communicate with a host device through the Bluetooth communications Serial Port Profile (SPP). SPP allows your SR61 to use the Bluetooth link as a serial port to communicate with your host device. You can send information from the SR61 to your serial application without having to modify your application.

You can initiate a Bluetooth connection from either your SR61 or host device:

- SR61-initiated Bluetooth connection.
- Host device-initiated Bluetooth connection.

Configuring Security

The SR61 provides Bluetooth wireless security for transmitting data. By default, security is active on your SR61. For maximum security, you need to configure a Bluetooth PIN (personal identification number).

This section assumes that you have already installed EasySet version 5.4.1 or later.

To configure a Bluetooth PIN for your SR61

- 1 Start EasySet.
- 2 In the Commands window, select **Data transmission settings** > **Bluetooth parameters** > **security**.
- 3 Select **active**.
- 4 Select **compose PIN** and create a Bluetooth PIN that is up to 16 characters in length. The default Bluetooth PIN is 0000.



Note: For security reasons, you can only change the Bluetooth PIN by scanning a bar code.

- 5 Scan both the active and compose PIN configuration bar codes onscreen with your SR61xA, SR61xV, or SR61xE, or print the bar code setup sheet and scan both bar codes.

Configuring the Discoverable State of the SR61

By default, the SR61 is always discoverable. For enhanced security, you should configure your SR61 for limited discoverability, which allows the SR61 to be discoverable by Bluetooth management applications for only 30 seconds. For more information, see [“Bluetooth Discoverable” on page 41](#).

To configure your SR61 for limited discoverability

- Scan this bar code:

Bluetooth parameters - discoverable - limited



\60\02\50\41\00\02\40

The SR61 is discoverable for 30 seconds.



3 Troubleshooting and Maintaining the SR61

Use this chapter to solve problems you may have while using the SR61. This chapter contains these topics:

- Troubleshooting the SR61
- Maintaining the SR61

Troubleshooting the SR61

If you have problems using the SR61, use this chapter to find a possible solution.

Calling Product Support

To talk to an Intermec Product Support representative, call:

1-800-755-5505

Before you call Intermec Product Support, make sure you have the following information:

- Product version
- Sub-system versions
- Bluetooth address of your SR61

To get the product version, sub-system versions, or Bluetooth address

- 1 If necessary, install the USB Bluetooth adapter (P/N 203-771-xxx) or RS-232 Bluetooth adapter (P/N 203-768-xxx) and create a Bluetooth connection between your SR61 and PC. For help, see the instructions that ship with the adapter.
- 2 Run an application that can accept bar code information from the SR61, such as HyperTerminal.
- 3 Scan one of these bar codes:

Get Product Version



\60\0F\37\20

Get Sub-System Versions



\60\0F\37\24

Get SR61 Bluetooth Device Address



\60\0F\37\23

Tip: Depending on your screen resolution, you may be able to scan these bar codes displayed on your computer screen with an SR61xA, SR61xV, or SR61xE.

Problems and Possible Solutions

Some possible solutions recommend scanning the Administrator Reset Factory Defaults bar code. Please read the following caution and note about this command.






Caution

After you scan the Administrator Reset Factory Defaults bar code, the SR61 produces a continuous tone while writing to the non-volatile memory. Do not remove the battery or place the SR61 in a 1-bay charger until the tone stops. Otherwise, the firmware memory may be corrupted.



Note: The Administrator Reset Factory Defaults command resets all parameters. When you scan this bar code, you will lose Bluetooth communications.

Problem	Possible Solution
You cannot establish a Bluetooth connection (the blue Intermec Ready-to-Work indicator is not on).	Scan the following bar code to reset the scanner to its default configuration and try establishing a connection again. Administrator Reset Factory Defaults  \60\08\55\22
You misplaced your SR61 and you need to find it.	If your SR61 is within Bluetooth communication range of your host PC, you can send the Bluetooth Device Page command from EasySet to locate your SR61. For help, see “Paging the SR61” on page 29 .
When you pull the trigger, the Status light flashes red.	The battery is low. Charge the battery immediately, and then try scanning again.
When you pull the trigger, the red scanner beam does not turn on.	The battery is low. Charge the battery immediately, and then try scanning again.
The blue Intermec Ready-to-Work indicator is blinking.	The SR61 is trying to establish a Bluetooth connection with the host computer, or the SR61 is moving out of range of the host computer.

Problem	Possible Solution
<p>You are trying to establish a Bluetooth connection from a host device to your SR61, but the host device cannot find your SR61.</p>	<p>The SR61 may not be in a discoverable state. For help, see “Bluetooth Discoverable” on page 41.</p> <p>The SR61 may be connected and paired to another Bluetooth device. Scan the following bar code to reset the SR61 to its default settings and disconnect Bluetooth communications. Try establishing a connection again.</p> <p>Administrator Reset Factory Defaults</p>  <p>\60\08\55\22</p>
<p>You established a Bluetooth connection with an Intermec computer, and the settings on your SR61 were restored to their default values.</p>	<p>When you first connect to an Intermec computer, only SR61 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 SR61 settings.</p>
<p>You changed the Bluetooth PIN from its default value of 0000, but you forgot your new PIN number.</p>	<p>Scan this bar code to reset the scanner to its default configuration and default Bluetooth PIN of 0000.</p> <p>Administrator Reset Factory Defaults</p>  <p>\60\08\55\22</p>
<p>You pull the trigger to scan a data bar code, the SR61 does not beep, and the scanner beam starts blinking.</p>	<p>The data may still be in the process of being sent to the host. Data transmission may be slow if there is interference with Bluetooth communications or if the SR61 is too far from the host device. If you are using Level Trigger Mode, the scanner beam blinks while the SR61 is waiting. For more information, see “Trigger Mode” on page 53.</p>
<p>You scan a bar code, the Status light flashes red for two seconds, and the scanner beeps three times.</p>	<p>The SR61 may not be connected to a host. Make sure the blue Intermec Ready-to-Work indicator is on and the SR61 is connected to your host device. For help, see “Connecting the SR61 to a Host Device” on page 14.</p>
<p>You are using the SR61 in keyboard wedge mode, and when you try to scan a bar code, nothing happens.</p>	<p>Try these possible solutions:</p> <ul style="list-style-type: none"> • Make sure that your data collection application is open and running. • If you are using Keyport Lite, make sure that you pressed the Start button. <p>For help, see “Connecting as a Keyboard Wedge” on page 16.</p>

Resetting the SR61

If your SR61 does not respond when you pull the trigger, you can reset your SR61. When you reset your SR61, the scanner control firmware is restarted.

To reset your SR61

- Remove and install the AB3 battery from the SR61.

If you have a Bluetooth connection, the SR61 disconnects from the host device. After a reset, the SR61 tries to reestablish a Bluetooth connection with the host device.

Paging the SR61

If you have misplaced your SR61, but your SR61 is turned on and within Bluetooth communication range of your host PC, you can send the Bluetooth Device Page command from EasySet to find your SR61.



Note: By default, the Bluetooth Device Page command is disabled. You need to enable the command on the SR61 before you can use it. For help, see the EasySet software version 5.4.1 or later.

To page the SR61

- 1 Start EasySet version 5.4.1 or later.
- 2 Select **Communication > Connect**.
- 3 Select the COM port that your SR61 is using for Bluetooth communications, and click **OK**.
- 4 Select the **Send to product** check box below the commands window.
- 5 In the EasySet Commands window, select **Configuration modes and utilities > Bluetooth device page**.

Your SR61 beeps continuously either for 1 minute or until you find your SR61 and pull the trigger.

Maintaining the SR61

To keep your SR61 in good working order, you may need to upgrade the SR61 firmware and clean the scanner window.

Upgrading the SR61

When you upgrade your SR61 firmware, you update the SR61 processor firmware as well. The current settings are erased and replaced with the default settings for the SR61. You need to reestablish Bluetooth communications between your SR61 and other Bluetooth devices and applications in your data collection system.

To upgrade the SR61 firmware, you need these items:

- Interlink firmware upgrade application
- SR61 firmware upgrade package:
 - Firmware upgrade file (.ldr)
 - Upgrade instructions (readme.txt)
 - Full firmware version text file (.txt)
- PC running Microsoft® Windows® XP with SP2 or Microsoft Windows 2000
- USB Bluetooth adapter (P/N 203-771-xxx)



Note: The SR61 firmware cannot be upgraded using the RS-232 Bluetooth adapter (P/N 203-768-xxx) to connect to the host PC.

Before upgrading the SR61, you need to:

- fully charge the SR61 battery. For help, see [“Charging the Battery” on page 3](#).
- download the latest SR61 firmware upgrade package and Interlink firmware upgrade application from the Intermec web site at www.intermec.com.
 - a** Go to **Service & Support > Downloads**.
 - b** From the **Select A Product** drop-down list, choose **Bar Code Scanners: SR61 Cordless Scanner**.

- c** Click the link to download the SR61 firmware upgrade package or the Interlink firmware upgrade application, and save it to your PC.
 - d** Unzip the .zip file.
- If the SR61 is in the 1-bay charger, remove it from the charger.
 - If necessary, install the USB Bluetooth adapter on your PC. For help, see the instructions that ship with the adapter.
 - Make sure that all applications on your PC are closed.

To upgrade the SR61

- 1** Start Interlink.
- 2** Scan the Administrator Reset Factory Defaults bar code on screen, or below, and click **Next**:

Administrator Reset Factory Defaults



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- 3** Click **Browse** to go to the location of the firmware upgrade file (.ldr).
- 4** Select the firmware file, click **Open**, and then click **Next**.
- 5** Pull the trigger to turn on your SR61. The SR61 enters a discoverable state and remains discoverable for about 5 minutes.

If you have a near-far range imager, it may take up to 3 seconds for the status light to turn on after you pull the trigger

- 6** If you are running Microsoft Windows XP with SP2, enter the Bluetooth address of your SR61, and click **Next**.

Your SR61 connects to the host PC, emits a series of beeps from low to high, and the blue Intermec Ready-to-Work indicator turns on and stays on.

The status bar appears, and Interlink upgrades your SR61 with the firmware file you selected. Interlink notifies you when the upgrade is complete. Continue with Step 8.

7 If you are running Microsoft Windows 2000:

- a Create a Bluetooth connection between your SR61 and host PC. For help, see the instructions that ship with the USB Bluetooth adapter.

When your SR61 connects to the host PC, your SR61 emits a series of beeps from low to high, and the blue Intermec Ready-to-Work indicator turns on and stays on.

- b From the drop-down list box, select the COM port that the SR61 is using for Bluetooth communications.

- c Click **Next**.

The status bar appears, and Interlink upgrades your SR61 with the firmware file you selected. Interlink notifies you when the upgrade is complete.

8 Click **Quit**.



Note: If you have a near-far range imager, after a firmware upgrade, you need to pull the trigger, wait for about 3 seconds, and then pull the trigger again.

Cleaning the SR61

Clean the scanner window as often as needed for the environment in which you are using the SR61. To clean the scanner window, you can use soapy water, a solution of ammonia and water, or isopropyl alcohol.



Caution

Opening the SR61 will void the warranty and may cause damage to the internal components.

To clean the scanner window

- 1 Dip a clean towel or rag in soapy water, ammonia and water solution, 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.



4 Configuration Command Reference

Use this chapter to learn about the configuration commands supported on the SR61. This chapter contains these topics:

- Using Configuration Commands
- Configuration Commands By Function
- SR61 Configuration Commands

Using Configuration Commands

A configuration command changes the way the SR61 operates. For example, you can change the Beep Volume and make the SR61 beeper very quiet.

You can configure the SR61:

- by sending commands to your SR61 from your PC using EasySet.
- by sending commands to a bar code setup sheet. Then, scan the bar codes onscreen with your SR61, or print the setup sheet and scan the bar codes. You do not need a Bluetooth connection to use this method.
- from your Intermec computer. Send commands to your SR61 from your Intermec computer using Intermec Settings.



Note: When you first connect to an Intermec computer, only SR61 settings common to the Intermec computer’s internal scanner settings are changed to the internal scanner’s default settings.

- remotely from your host PC using Intermec SmartWedge. For help, see the instructions that ship with SmartWedge.

For a list of all the commands and their default values as they are organized in EasySet, see the next section, “[Configuration Commands By Function.](#)”

For descriptions of each command organized alphabetically, see “[SR61 Configuration Commands](#)” on page 39.

Configuration Commands By Function

The configuration commands are grouped by function and reflect the organization of the Commands window in EasySet.

Reset All Parameters

Command	Default Value	See Page
Administrator reset factory defaults	N/A	39
User reset factory defaults	N/A	55

Data Transmission Settings

Bluetooth Command	Default Value	See Page
Bluetooth security	Active	42
Bluetooth PIN	0000	42
Bluetooth discoverable	Fully discoverable	41
Bluetooth pageable mode	Not active	41
Bluetooth profile	Serial port profile (SPP)	42
Bluetooth device name	SR61 Scanner <Bluetooth Address>	41
Bluetooth connect/disconnect	Disconnect	40

Data Transmission Command	Default Value	See Page
Data editing	N/A	45
Postamble	<CR><LF>	49
Preamble	None	49
Symbology identifier	Not transmitted	51

Symbology Settings

Symbology	Default Value	See Page
Disable all symbologies	N/A	46
Australian Post	Not active	39
Aztec	Not active	39
BPO	Not active	42
Canada Post	Not active	42
Codabar	Not active	43
Codablock		
Codablock A	Not active	43
Codablock F	Not active	43
Code 11	Not active	43
Code 39	Active	43
Code 93/93i	Not active	43
Code 128 / EAN 128	Active	44
ISBT 128	Active	44
GTIN processing	Not active	44
DataMatrix	Active	45
Dutch Post	Not active	46
EAN.UCC Composite	Not active	46
Interleaved 2 of 5	Not active	47
Japan Post	Not active	47
Matrix 2 of 5	Not active	48
Maxicode	Not active	48
Micro PDF417	Not active	48
MSI	Not active	48
PDF417	Active	48
Planet	Not active	49
Plessey	Not active	49
Postnet	Not active	49
QR Code	Not active	50

Symbology Settings (continued)

Symbology	Default Value	See Page
RSS		
RSS 14	Not active	50
RSS Expanded	Not active	50
RSS Limited	Not active	50
Standard 2 of 5	Not active	51
Telepen	Not active	52
TLC 39	Not active	52
UPC/EAN	Active	54
ISBN	Not active	54
GTIN processing	Not active	55

Operating Settings

Trigger Activation Command	Default Value	See Page
Trigger mode	Level	53
Trigger timeout	2 sec	54
Turn off after good read	Active	54

Data Decoding Security Command	Default Value	See Page
Predefined security levels	Normal	50
Consecutive same read data validation	Auto read count before transmission	45
Timeout between identical consecutive codes	300 ms	52
Timeout between different consecutive codes	None	52

Operating Settings (continued)

Beeps/Green Indicator LED Command	Default Value	See Page
Beep volume	High	40
Note (Beep frequency)	2610 Hz	40
Good read beeps		
Number	1	47
Duration	80 ms	47
Timing	After transmission	47
Good read LED duration	2000 ms	47
Error beep	On	46
Setup beep	On	51
2D symbologies		
Stacked code crackle	On	51
Vibrate alert		
Vibrate alert	Off	55
Duration	300 ms	55

Sensor Optimization and Imager Settings Command	Default Value	See Page
Sensor optimization	Automatic	50
Imager settings		
Decode mode	2D imager	45
Lighting goal	40	47
Aimer flashing mode	Aimer off during frame acquisition	39

Configuration Modes and Utilities

Command	Default Value	See Page
Configuration modes and utilities	Configuration Enabled	45
Bluetooth device page	N/A	41

SR61 Configuration Commands

This section lists the configuration commands in alphabetical order and provides a description of each command. To configure your SR61 using these commands, see the EasySet software.

Administrator Reset Factory Defaults

Causes the SR61 to perform a restart and restores all configuration commands to their default settings, including the Bluetooth PIN. When you restore all configuration commands to their default settings, you need to reestablish Bluetooth communications.

Aimer Flashing Mode

SR61xA (area imager) and SR61xE (near-far range area imager) only. By default, the SR61 aimer beam flashes repeatedly while the imager attempts to read a bar code. The aimer beam flashes on so that you can see where to aim the SR61 and flashes off to read the bar code (with the least amount of interference from the light of the aimer beam). You can change this default setting so that the aimer is always on.

Australian Post

SR61xA (area imager) and SR61xE (near-far range area imager) only. Enables or disables decoding of Australian Post symbology. Australian Post is a 4-state bar code that allows Australian Post to sort incoming mail using a bar code. There are three types of bar codes corresponding to FCC values 11, 59, and 62. BarDIMM only needs the DPID and Customer information, and automatically generates all the other information like the FCC or Reed-Solomon checksum.

Aztec

SR61xA (area imager) and SR61xE (near-far range area imager) only. Enables or disables decoding of Aztec symbology. Aztec is a 2D matrix symbology made up of square modules on a square grid, with a square bulls eye pattern at their center. Aztec Code symbols can encode large amounts of data with user-defined error-correction level.

Beep Duration

Sets the length of the beeps. You can set Beep Duration to a value from 0 to 2550 ms. When Beep Duration is set to 0 ms, the beeper is off. Turning off the beeper does not affect the beeps associated with Bluetooth Connect/Disconnect or Bluetooth Device Page.

Use Beep Duration in combination with Beep Frequency and Beep Volume to define beeps according to operator preference and work environment.

Beep Frequency

Sets the frequency, or pitch, of the beeps. You can set Beep Frequency to a value from 1000 to 5110 Hz.

Use Beep Frequency in combination with Beep Volume and Good Read Beep Duration to define beeps according to operator preference and work environment.

Beep Volume

Adjusts the volume of the beeps. You can set Beep Volume to Low, Medium, or High.



Note: To turn off the beeper, set the Beep Duration to 0. Turning off the beeper does not affect the beeps associated with Bluetooth Connect/Disconnect or Bluetooth Device Page.

Use Beep Volume in combination with Beep Frequency and Good Read Beep Duration to define beeps according to operator preference and work environment.

Bluetooth Connect/Disconnect

Connects or disconnects Bluetooth communications between the SR61 and host computer using Serial Port Profile (SPP).

To connect to a host computer, enter the Bluetooth address of the computer and scan the bar code with the SR61. To disconnect, scan the disconnect bar code.

Bluetooth Device Name

Assigns the name to the scanner. If the scanner is in a discoverable state, its Bluetooth device name is available to host computers during device discovery.

Bluetooth Device Page

If your SR61 is within Bluetooth communication range of the host PC and Bluetooth Pageable Mode is enabled, you can page the SR61 from EasySet. For help, see [“Paging the SR61” on page 29](#).

Bluetooth Discoverable

Determines the discoverable state of your SR61. When your SR61 is discoverable, it is visible to other Bluetooth devices in communication range.

Bluetooth Discoverable States

State	Description
Fully	Your SR61 is discoverable to Bluetooth management applications.
Limited	Your SR61 is discoverable to Bluetooth management applications for 30 seconds.
Not	Your SR61 is not discoverable to Bluetooth management applications.



Note: Your SR61 is not discoverable by other Bluetooth devices while connected to a host device.

Bluetooth Pageable Mode

Enables or disables the Bluetooth Device Page command. With Bluetooth Pageable Mode enabled, the SR61 maintains Bluetooth communication with the host device so that you can use the Bluetooth Device Page command to locate the SR61. For help, see [“Paging the SR61” on page 29](#).

With Bluetooth Pageable Mode disabled, the SR61 turns off and disconnects after 30 minutes of inactivity. Disabling Bluetooth Pageable Mode also saves battery power.

Bluetooth PIN

When Bluetooth security is enabled, the Bluetooth PIN is used to authenticate the Bluetooth link and encrypt the data. Depending on the Bluetooth software on your host device, you should only need to enter the Bluetooth PIN the first time you connect and pair the SR61.

For help configuring a Bluetooth PIN, see [“Configuring Security” on page 22](#).

Bluetooth Profile

Configures the SR61 to connect to a host device through the Serial Port Profile (SPP) Bluetooth communications profile. SPP allows the SR61 to use the Bluetooth link as a serial port to communicate with the host device.

For more information, see [“Configuring Bluetooth Communications” on page 22](#).

Bluetooth Security

Enables or disables Bluetooth security. When Bluetooth security is enabled, you need to enter the SR61 Bluetooth PIN before you can use the scanner. For more information, see [“Configuring Security” on page 22](#).

BPO

SR61xA (area imager) and SR61xE (near-far range area imager) only. Enables or disables decoding of BPO (British Post Office) 4-state bar code symbology. BPO was developed by the British Post office for encoding European postcode data similar to the way the U.S. Postnet symbology is used for encoding Zip Code data. BPO provides European countries with a simple and efficient postal bar coding scheme.

Canada Post

SR61xA (area imager) and SR61xE (near-far range area imager) only. Enables or disables decoding of Canada Post 4-state bar code symbology. Canada Post contains addressing as well as customer-specific information. Canada Post sends mail pieces through Canada Post’s integrated distribution system in the most cost-efficient way.

Codabar

Enables or disables decoding of Codabar symbology. Codabar is a self-checking, discrete symbology. The American Blood Commission (ABC) Codabar requires that you retain and transmit the start/stop code digits when processing a Codabar symbol. As a result, configuration CD10 is an illegal configuration.

Codablock A

Enables or disables decoding of Codablock A symbology. Codablock A is a 2D bar code that is an extension of Code 39. If Code 39 is enabled with check digit, you cannot enable Codablock A. For best results, disable Code 39 before you enable Codablock A. If Code 39 is enabled with check digit, Codablock A will not be decoded properly.

Codablock F

Enables or disables decoding of Codablock F symbology. Codablock F is a 2D bar code that is an extension of Code 128. If Code 128 is enabled with check digit, you cannot enable Codablock F. For best results, disable Code 128 before you enable Codablock F.

Code 11

Enables or disables decoding of Code 11 symbology. Code 11 is a very high-density, discrete numeric bar code used extensively in labeling telecommunications components and equipment.

Code 39

Enables or disables decoding of Code 39 symbology. Code 39 is discrete, variable length, and self-checking. The character set is uppercase A to Z, 0 to 9, dollar sign (\$), period (.), slash (/), percent (%), space (), plus (+), and minus (-).

Code 93/93i

Enables or disables decoding of Code 93/93i symbology. Code 93/93i is a variable length, continuous symbology that uses four element widths.

Code 128 / EAN 128

Enables or disables decoding of Code 128 / EAN 128 symbology. Code 128 is a very high-density alphanumeric symbology that supports the extended ASCII character set. It is a variable length, continuous code that uses multiple element widths.

Code 128 supports the following function codes.

Code 128 Function Codes

Function Code	Description
FNC1	FNC1 is used as a separator when multiple identifiers and their fields are concatenated. For example, FNC1 can be useful in keyboard wedge mode when the GS character cannot be transmitted.
FNC2	When the FNC2 character occurs in a bar code, the SR61 temporarily stores the data from the bar code and transmits it as a prefix to the next symbol. In this way, FNC2 can be used to concatenate several symbols before the data is transmitted.

ISBT 128

Enables and configures decoding of ISBT Code 128 symbology. ISBT Code 128 is the global bar code labeling standard for the blood banking industry and is used to support the worldwide distribution, tracking, and handling of blood bags and blood components.

GTIN Processing for EAN 128

With Global Trade Item Number (GTIN) processing enabled, a GTIN-compliant EAN 128 label will strip the first two digits output 14 digits.

GTIN-compliant EAN 128 labels:

- are 16 digits long.
- have "01" as the first two digits of the label.

Configuration Modes and Utilities

Use Configuration Modes and Utilities to:

- allow the SR61 to always accept configuration commands by scanning bar codes or to timeout 1 minute after the last configuration command is set by scanning a bar code.
- get the product version, sub-system versions, and Bluetooth address of your SR61.
- page the SR61 from the host PC or turn off the SR61.

For more information and bar codes, see [“Troubleshooting the SR61” on page 26](#).

Consecutive Same Read Data Validation

To ensure you have a valid read before transmitting data, you can set the SR61 to scan a bar code multiple times.

You can set Consecutive Same Read Data Validation from 0 to 10. The default value of 0 sets the scanner to automatically adapt to the consecutive same read based on the bar code quality and the trust level of the bar code. For example, labels with a check digit require fewer reads than labels without a check digit.

Data Editing

Data editing allows you to edit data scanned by the SR61 before it is transmitted to the host. You can define up to seven input scenarios to filter the data you want to edit. For more information, see the EasySet software.

DataMatrix

SR61xA (area imager) and SR61xE (near-far range area imager) only. Enables or disables decoding of DataMatrix symbology, a high density 2D matrix code that can store a large amount of information. DataMatrix has excellent error correction abilities and is mostly used for marking and tracking parts.

Decode Mode

SR61xA (area imager) and SR61xE (near-far range area imager) only. Sets the imager decode mode to linear imager emulation (1D) or 2D imager mode.

2D imager mode allows you to hold the SR61xA or SR61xE in any direction and perform a good read, regardless of the orientation of the bar code. The ability to read bar codes in any direction lets you use a comfortable and ergonomic hand position.

Linear imager emulation allows you to increase your imaging performance (similar to a laser scanner), but requires that you hold the SR61xA or SR61xE horizontal to the 1D bar code label.

Disable All Symbologies

This command disables all symbologies. However, disabling all symbologies does not reset symbology parameters to their default values. To reset all symbology parameters to their default factory settings, use the Administrator Reset Factory Defaults command. For more information, see [“Administrator Reset Factory Defaults” on page 39](#).

Dutch Post

SR61xA (area imager) and SR61xE (near-far range area imager) only. Enables or disables decoding of Dutch Post symbology. Dutch Post is a 4-state bar code that contains addressing, as well as customer-specific information.

EAN.UCC Composite

Enables or disables European Article Numbering Universal Character Coding (EAN.UCC) Composite symbology. An EAN.UCC Composite symbol consists of a linear component (encoding the item’s primary identification) associated with an adjacent 2D Composite Component (encoding supplementary data, such as a batch number or expiration date). The Composite symbol always includes a linear component to ensure that the primary identification is readable by all scanning technologies, and so that 2D imagers can use the linear component as a finder pattern for the adjacent 2D Composite Component.

Error Beep

Enables or disables the error beep. Your SR61 emits an error beep without affecting the configuration of your SR61, when you scan a configuration bar code that is damaged or unknown.

Good Read Beep Duration

Sets the length of the SR61 good read beeps. You can set Good Read Beep Duration to a value from 0 (off) to 2550 ms.

Use Good Read Beep Duration in combination with Beep Volume and Beep Frequency to define beeps according to operator preference and work environment.

Good Read Beep Number

Establishes the number of beeps used for the good read beep: one, two, or none.

Good Read Beep Timing

Sets the good read beep to occur either before or after successfully transmitting data.

Good Read LED Duration

Sets the amount of time the green Status light stays on after a good read. You can set Good Read LED Duration to a value from 0 (off) to 5110 ms. When the Status light is on due to a long duration setting, the SR61 can still read new bar codes and receive commands.

Interleaved 2 of 5

Enables or disables decoding of Interleaved 2 of 5 symbology. Interleaved 2 of 5 is a high-density, self-checking, continuous numeric symbology mainly used in inventory distribution and the automobile industry.

Japan Post

SR61xA (area imager) and SR61xE (near-far range area imager) only. Enables or disables decoding of Japan Post 4-state code symbology. Japan Post is a simple and efficient postal bar coding scheme.

Lighting Goal

SR61xA (area imager) and SR61xE (near-far range area imager) only. The lighting goal is the average light intensity that the SR61 tries to achieve when capturing an image. Do not change this setting without assistance from a representative from the Intermec Engineering Department.

Matrix 2 of 5

Enables or disables decoding of Matrix 2 of 5 symbology. Matrix 2 of 5 is a discrete bar code derived from Code 11.

China Post is available as part of the Matrix 2 of 5 symbology start/stop code. China Post encodes 11 digits with no check digit and has unique start and stop patterns.

Maxicode

SR61xA (area imager) and SR61xE (near-far range area imager) only. Enables or disables decoding of Maxicode symbology. Maxicode is a fixed 2D symbology that contains an array of hexagons arranged around a circular pattern. Maxicode is mostly used in package sorting and tracking applications.

Micro PDF417

Enables or disables decoding of Micro PDF417 symbology. Micro PDF417 is a multi-row symbology based on PDF417, designed to maximize area efficiency for applications that do not need the maximum data capacity of PDF417. Micro PDF417 contains a limited set of symbol sizes that each includes a fixed level of error correction.

MSI

Enables or disables decoding of MSI symbology. MSI code is similar to Plessey code in that it includes a start pattern, data characters, one or two check digits, and a stop pattern.

PDF417

Enables or disables decoding of PDF417 symbology. The PDF417 symbology is a stacked 2D symbology that allows you to scan across rows of code. Each row consists of start/stop characters, row identifiers, and symbol characters (which consist of four bars and four spaces each and contain the actual data). This symbology uses error-correction symbol characters appended at the end to recover loss of data.

Macro PDF417, a feature of PDF417, extends the capability of PDF417 by allowing up to 99,999 PDF417 symbols to be used to store data. The symbols are concatenated as they are scanned and can be scanned in any order.

Planet

SR61xA (area imager) and SR61xE (near-far range area imager) only. Enables or disables decoding of Planet symbology. The United States Postal Service (USPS) uses a combination of two tracking numbers (the Postnet code and Planet code) to track a customer's piece of mail. A Planet symbol has 12 or 14 digits.

Plessey

Enables or disables decoding of Plessey symbology. Plessey code is pulse-width modulated like most other bar codes and includes a start character, data characters, an eight-bit cyclic check digit, a termination bar, and usually a reverse start character. The code is continuous and not self-checking. You need to configure two parameters for Plessey code: Start Code and Check Digit.

Postamble

Sets the postamble that is appended to any data you scan. Common postambles include cursor controls such as a tab or a carriage return line feed. You can set up to 20 ASCII characters for Postamble.

Postnet

SR61xA (area imager) and SR61xE (near-far range area imager) only. Enables or disables decoding of Postal Numeric Encoding Technique (Postnet) symbology. The Postnet bar code was invented by the United States Postal Service (USPS) to encode ZIP information. Enabling your letter printing system as Postnet-capable allows you to receive a discount on postage. The U.S.A. delivery address coding can be of three forms (1) 5-digit ZIP; (2) 5-digit ZIP + 4 code (3) 11-digit delivery point code. So a valid Postnet bar code contains either 32 bars, 52 bars or 62 bars. Postnet is a numeric symbology. Different from most other symbologies, Postnet has requirements to the actual bar height and width. The information is encoded in the height and has nothing to do with the spaces.

Preamble

Sets the preamble that precedes any data you scan. Common preambles include a data location number or an operator number. You can set Preamble to up to 20 ASCII characters.

Predefined Security Levels

Defines the security level to use when decoding bar codes. When you select a lower decode security level, the SR61 can decode bar codes with poorer print quality.

QR Code

SR61xA (area imager) and SR61xE (near-far range area imager) only. Enables or disables decoding of QR Code symbology. QR Code is a 2D matrix symbology containing dark and light square data modules.

RSS 14

Enables or disables decoding of Reduced Space Symbology (RSS) 14 1D or stacked 2D codes. RSS 14 is a numeric symbology that can read stacked omni-directional bar code labels. It is a member of the EAN.UCC RSS symbology family.



Note: To read RSS 14 stacked 2D codes, RSS Expanded or RSS Limited must also be enabled.

RSS Expanded

Enables or disables decoding of Reduced Space Symbology (RSS) Expanded. RSS Expanded is an alphanumeric symbology that can read RSS limited and stacked bar code labels. It is a member of the EAN.UCC RSS symbology family.

RSS Limited

Enables or disables decoding of Reduced Space Symbology (RSS) Limited. RSS Limited is a numeric symbology that does not read stacked bar code labels. It is a member of the EAN.UCC RSS symbology family.

Sensor Optimization

SR61xV (linear imager) only. Sets the linear imager configuration for the type of bar code being scanned. If you are going to scan only standard 1D bar codes or only stacked 2D bar codes, you can set Sensor Optimization to 1D or 2D for optimal imager performance.

Setup Beep

Enables or disables the setup beep. When you successfully scan a configuration bar code, you hear the setup beep, and the configuration of the SR61 is changed.

Stacked Code Crackle

SR61xV (linear imager) and SR61xL (laser scanner) only. Enables or disables the crackle sound when you scan a stacked (2D) bar code.

Standard 2 of 5

Enables or disables decoding of Standard 2 of 5 symbology. Standard 2 of 5 is a low-density numeric symbology that encodes all information in the bars separated by fixed-width spaces. Standard 2 of 5 is used in warehouse sorting, photofinishing, and airline ticketing.

Symbology Identifier

Symbology identifiers allow you to indicate the type of data being sent by prepending an identifier. You can prepend one of the following types of character strings to identify which symbology the data is using.

Symbology Identifier Options

Character String	Description
AIM identifier	The AIM Standard for symbology identifiers consists of a three-character structure indicating the symbology and the optional features of the symbology. For more information about the AIM Standard for symbology identifiers, refer to the AIM ISO/IEC Standard.
User-defined symbology identifier (UDSI)	The user-defined symbology identifier (UDSI) is one to four ASCII characters in length. You can configure user-defined symbology identifiers to assign custom identifier strings to the bar code symbologies.
Code mark	Enables the code mark symbology identifier for all symbologies.

Telepen

Enables or disables decoding of Telepen symbology. Telepen is the only symbology to directly represent the full ASCII character set without shift characters. Considered extremely secure, Telepen has negligible risk of misreads and a double-density numeric only mode.

Timeout Between Different Consecutive Codes

This command invalidates a second bar code read before the timeout expires. Use this command when consecutively scanning bar codes that contain different data, as opposed to the Timeout Between Identical Consecutive Codes command.

You can set Timeout Between Different Consecutive Codes to a value from 0 to 2550 ms.

Timeout Between Identical Consecutive Codes

This command invalidates a second bar code read before the timeout expires. Use this command when consecutively scanning bar codes with identical data, as opposed to the Timeout Between Different Consecutive Codes command.

You can set Timeout Between Identical Consecutive Codes to a value from 0 to 2550 ms.

TLC 39

TLC 39 is a composite symbology designed for the Telecommunications Industry. TLC 39 combines a Code 39 symbol that encodes a part number (for items such as plug-in boards at central switching stations) with a linked MicroPDF417 symbol that encodes a serial number and other optional information.

The first six characters must be numeric and include the ECI number. The seventh character is a delimiter between the linear data portion and the composite data portion, typically a comma, although other delimiters are allowed. The next piece of data is a mandatory unique Serial Number.

There can be other data fields after the Serial Number, usually either AppIDs or DataIDs, which are governed by whether or not there are alpha characters in the serial number. Country Of Origin is another typical data field included in this symbology.

Trigger Mode

SR61xV (linear imager), SR61xA (area imager), and SR61xE (near-far range area imager) only. Trigger mode allows you to set different types of triggering options for the imager. For more information, see the next table.

Trigger Mode Options

Mode	Description
Continuous/ Edge	When you pull the trigger, the red scanner beam turns and stays on. When you pull the trigger a second time, the scanner beam turns off. Simply releasing the trigger does not turn off the scanner.
Level	When you pull the trigger, the red scanner beam turns on and stays on until you release the trigger or until the SR61 successfully decodes a bar code. When you scan a data (versus configuration) bar code, data transmission may be slow if there is interference with Bluetooth communications, or if the SR61 is too far from the host device. The scanner beam blinks while the SR61 is waiting to transmit data. During this time, you can scan configuration bar codes but not data bar codes. When the SR61 receives acknowledgement from the host, the scanner turns off, and the SR61 beeps.
Pulse	When you pull the trigger, the red scanner beam turns on. The scanner remains on until the Trigger Timeout period is reached.
Flashing	When you pull the trigger, the red scanner beam turns on and the SR61 checks for a bar code to read. The scanner starts flashing when the Trigger Timeout period is reached. When the SR61 finds and reads a bar code, it resets the Trigger Timeout period. If you pull the trigger a second time, the scanner beam turns off.
Autostand	Autostand mode allows you to switch between level mode and flashing mode. The first time you pull the trigger, the scanner beam turns on and the scanner is in flashing mode. Switch to level mode by pulling the trigger again. If the scanner is idle and the Trigger Timeout period is reached, the scanner returns to flashing mode.

Trigger Mode Options (continued)

Mode	Description
Aim	Aim triggering allows you to turn on the scanner and aim the red scanner beam without causing a decode. Releasing the trigger enables the decode.

Trigger Timeout

SR61xV (linear imager), SR61xA (area imager), and SR61xE (near-far range area imager) only. Sets the trigger timeout for the Trigger Mode command. You can set trigger timeout from 1 to 4095 seconds.

Turn Off After Good Read

Sets how the SR61 operates in level and pulse trigger modes.

Trigger Mode	Turn Off After Good Read	SR61 Behavior
Level	Enabled	The SR61 turns off after it successfully reads a bar code.
Level	Disabled	The SR61 stays on until you release the Scan button.
Pulse	Enabled	The SR61 turns off after it successfully reads a bar code.
Pulse	Disabled	The SR61 stays on until the Trigger Timeout period is reached.

UPC/EAN

Enables or disables decoding of Universal Product Code (UPC)/European Article Numbering (EAN) symbology. UPC/EAN are fixed-length, numeric, continuous symbologies that use four element widths. A scanner that is configured to decode EAN bar codes can decode UPC, but the reverse is not true. UPC code is a subset of EAN code.

ISBN

International Standard Book Number (ISBN) is a 10-digit symbology that uniquely identifies books for tracking and ordering.

With ISBN enabled, the first three characters (978) are ignored, and the checksum is calculated on the remaining characters.

GTIN Processing

With Global Trade Item Number (GTIN) processing enabled, two zeros are padded to the beginning of UPC-A, and one zero is padded to the beginning of EAN-13 to expand the numbers to 14 digits. To use GTIN processing you also need to enable the corresponding UPC/EAN symbology.

User Reset Factory Defaults

SR61xV (linear imager), SR61xA (area imager), and SR61xL (laser scanner) only. Causes the SR61 to perform a restart and restores all configuration commands to their default settings, only if no settings are locked. To reset all settings on the SR61, including locked settings, use the Administrator Reset Factory Defaults command. For more information, see [“Administrator Reset Factory Defaults” on page 39](#).

When you restore all configuration commands to their default settings, you need to reestablish Bluetooth communications.

Vibrate Alert

Enables or disables the vibrate alert. When Vibrate Alert is enabled, the scanner vibrates when you scan a valid bar code.

Vibrate Alert Duration

Sets the amount of time that the vibrate alert remains on. You can set Vibrate Alert Duration to a value from 0 to 2550 ms.



A Specifications and Accessories

Specifications

Use this section to find technical information about the SR61.

Physical Dimensions

Length:	12.7 cm (5 in)
Height:	19.3 cm (7.6 in)
Width:	6.9 cm (2.7 in)
Weight:	390 g (13.8 oz)

Power and Electrical Specifications

Operating:	Rechargeable lithium-ion battery
Electrical rating:	≡ 5V, 1.7A

Temperature and Environmental Specifications

Operating:	-20°C to 50°C (-4°F to 122°F)
Storage:	-20°C to 60°C (-4°F to 140°F)
Charging:	0°C to 35°C (32°F to 95°F)
Relative humidity:	0 to 95% non-condensing
Environmental rating:	IP54

Bluetooth Radio

Radio Type:	Bluetooth Class 1 version 1.2
Frequency:	2.4 GHz
Radio Data Rate:	721 Kbits per second

Communication Range

Host radio Class 1:	30.5 m (100 ft)
Host radio Class 2:	10 m (32.8 ft)
Features:	Adaptive Frequency Hopping (ADF)

Bar Code Symbolologies

- Australian Post*
- Aztec*
- BPO*
- Canada Post*
- Codabar
- Codablock A
- Codablock F
- Code 11
- Code 39
- Code 93/93i
- Code 128 / EAN 128
- DataMatrix*
- Dutch Post*
- EAN.UCC Composite
- Interleaved 2 of 5
- Japan Post*
- Matrix 2 of 5
- Maxicode*
- Micro PDF417
- MSI
- PDF417
- Planet*
- Plessey
- Postnet*
- QR Code*
- RSS 14
- RSS 14 Stacked
- RSS Limited
- RSS Expanded
- Standard 2 of 5
- Telepen
- TLC 39
- UPC/EAN

* = These symbolologies are only available on the SR61xA (2D area imager) and SR61xE (near-far range area imager).

Scan Engines

EV10 1D Linear Imager (SR61xV)

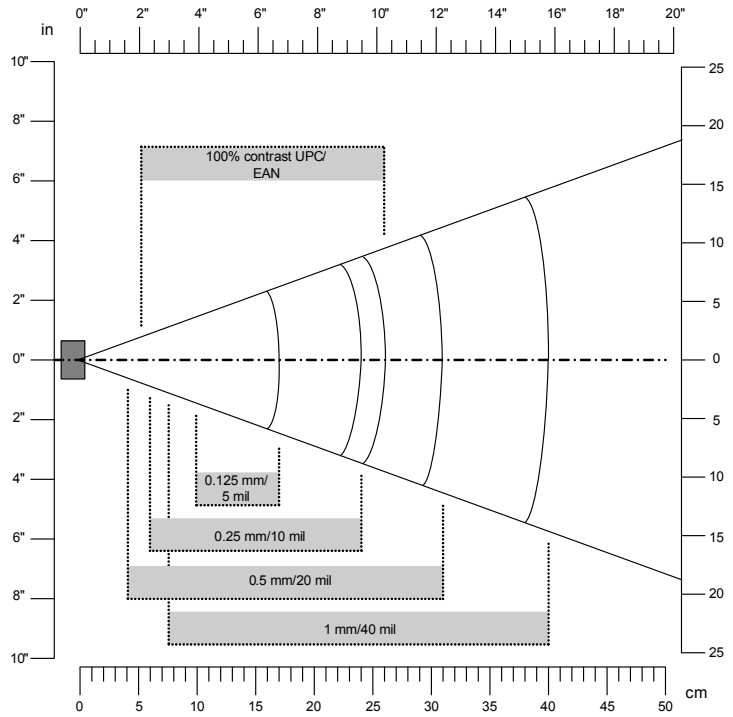
Scan rate: 200 scans per second
 Scan range: up to 50 cm (19.7 in)
 Scan angle: 40°
 Minimum X dimension: 4 mils (0.1 mm)

Minimum Reading Distances With 0.255 cm (0.100 in) Setback

Symbology	Bar Code Contents	Density	Minimum Distance*	Maximum Distance
Code 39	RESO 0.100 MM	0.1 mm (4 mils)	11.255 cm (4.400 in)	13.745 cm (5.400 in)
	R 0.125 MM	0.125 mm (5 mils)	10.255 cm (4.000 in)	16.745 cm (6.600 in)
	0.25	0.25 mm (10 mils)	6.255 cm (2.500 in)	23.745 cm (9.300 in)
	0.5	0.5 mm (20 mils)	4.255 cm (1.700 in)	30.745 cm (12.100 in)
	R1MM	1 mm (40 mils)	7.755 cm (3.100 in)	39.745 cm (15.600 in)
UPC/EAN	120010010100	0.33 mm (13 mils)	5.455 cm (2.100 in)	25.745 cm (10.100 in)
PDF417	10 mils	0.254 mm (10 mils)	10.255 cm (4.000 in)	16.745 cm (6.600 in)
	15 mils	0.381 mm (15 mils)	8.255 cm (3.200 in)	18.745 cm (7.400 in)

*Minimum reading distances are measured in the dark (0 lux).

Appendix A— Specifications and Accessories



Linear Imager Minimum Reading Distances: This graphic does not include the 0.255 cm (0.100 in) setback for the SR61.

Appendix A — Specifications and Accessories

EL20 Laser Scanner (SR61xL)

Scan rate:	500 scans per second
Scan angle:	38 degrees
Minimum X dimension:	4 mils (0.1 mm)

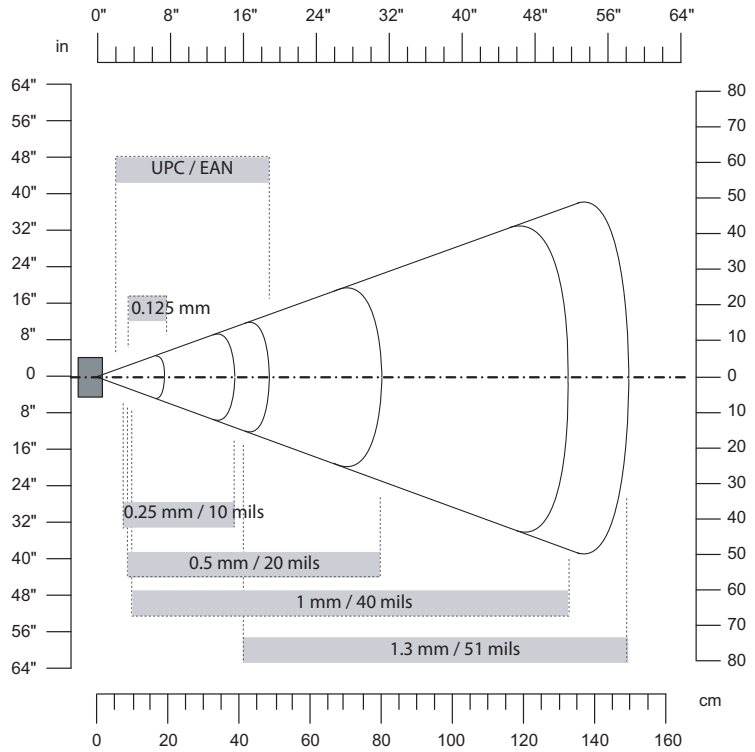
Minimum Reading Distances With 0.260 cm (0.102 in) Setback

Symbology	Density	Minimum Distance*	Maximum Distance
Code 39	0.125 mm (5 mils)	9.760 cm (3.802 in)	18.740 cm (7.398 in)
	0.25 mm (10 mils)	7.260 cm (2.802 in)	38.740 cm (15.198 in)
	0.5 mm (20 mils)	9.260 cm (3.602 in)	79.740 cm (31.398 in)
	1 mm (40 mils)	10.260 cm (4.002 in)	131.740 cm (51.898 in)
	1.3 mm (51 mils)	41.260** cm (16.202 in)	149.740 cm (58.898 in)
UPC/EAN	0.33 mm (13 mils)	6.760 cm (2.702 in)	47.740 cm (18.798 in)

*Minimum reading distances are measured in the dark (0 lux).

**Depends on symbology length and scan angle.

Appendix A— Specifications and Accessories



Standard Range Laser Scanner Minimum Reading Distances: This graphic does not include the 0.260 cm (0.102 in) setback for the SR61.

Appendix A — Specifications and Accessories

EA11 2D Area Imager (SR61xA)

Frame rate:	30 to 60 frames per second
Scan angles:	38.9° horizontal 25.4° vertical 45.5° diagonal
Dynamic range:	60 dB linear 80 dB to 100 dB high dynamic

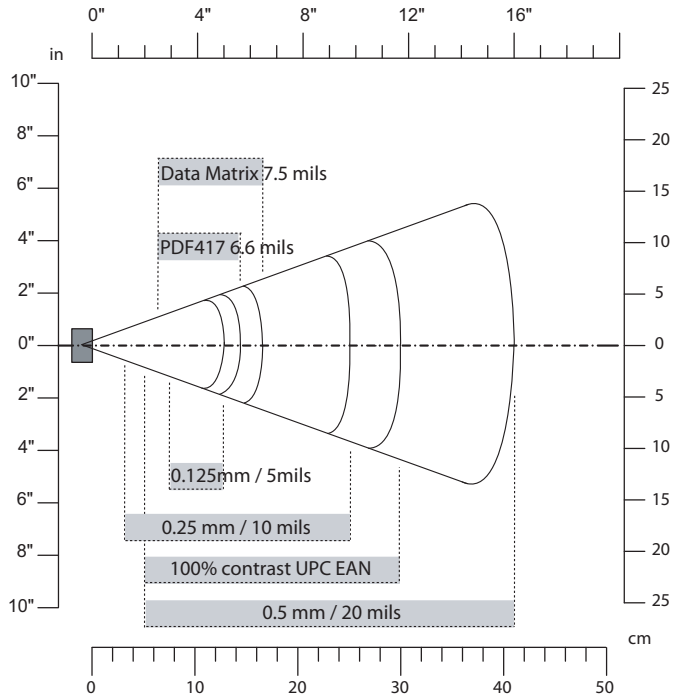
Minimum Reading Distances With 0.180 cm (0.071 in) Setback

Symbology	Density	Minimum Distance*	Maximum Distance
Code 39	0.125 mm (5 mils)	7.580 cm (2.971 in)	12.220 cm (4.729 in)
	0.20 mm (8 mils)	4.380 cm (1.671 in)	21.020 cm (8.229 in)
	0.25 mm (10 mils)	3.680 cm (1.471 in)	25.320 cm (9.829 in)
	0.5 mm (20 mils)	5.280 cm (2.071 in)	40.620 cm (15.829 in)
UPC/EAN	0.33 mm (13 mils)	5.180 cm (2.071 in)	29.820 cm (11.629 in)
Data Matrix	0.191 mm (7.5 mils)	6.680 cm (2.571 in)	16.420 cm (6.429 in)
	0.254 mm (10 mils)	5.180 cm (2.071 in)	20.80 cm (8.129 in)
	0.381 mm (15 mils)	**	27.820 cm (10.229 in)
PDF417	0.160 mm (6.6 mils)	6.480 cm (2.571 in)	14.020 cm (5.429 in)
	0.254 mm (10 mils)	4.880 cm (1.871 in)	21.820 cm (8.529 in)
	0.381 mm (15 mils)	5.280 cm (2.071 in)	33.620 cm (13.129 in)

*Minimum reading distances are measured in the dark (0 lux).

**Depends on symbology length and scan angle.

Appendix A— Specifications and Accessories



2D Area Imager Minimum Reading Distances: This graphic does not include the 0.180 cm (0.071 in) setback for the SR61.

Appendix A — Specifications and Accessories

EX25 Near-Far Range Area Imager (SR61xE)

Frame rate (decoded mode):	up to 56 frames per second
Scan angles:	12.2° horizontal 7.8° vertical 17° diagonal
Light source angles:	13° horizontal 11° vertical 14.4° diagonal
Light source:	650 nm laser (aiming beam and auto focus) 617 nm highly visible LED (lighting system)

1D Symbologies Minimum Reading Distances With 0.325 cm (0.128) Setback

Symbology	Density	Minimum Distance*	Maximum Distance
Code 39	0.1 mm (3.8 mils)	18.325 cm (7.218 in)	31.675 cm (12.472 in)
	0.25 mm (10 mils)	18.325 cm (7.218 in)	68.675 cm (27.032 in)
	0.5 mm (20 mils)	19.325 cm (7.608 in)	109.675 cm (43.182 in)
	1 mm (40 mils)	40.325 cm (15.878 in)	219.675 cm (86.482 in)
	1.3 mm (51 mils)	100.325 cm (39.498 in)	309.675 cm (121.922 in)
	2.5 mm (100 mils)	130.325 cm (51.308 in)	429.675 cm (169.162 in)
EAN 100%	0.33 mm	22.325 cm (7.998 in)	99.675 cm (39.242 in)

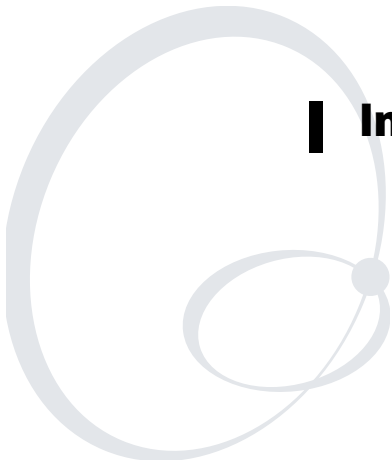
*Minimum reading distances are measured in the dark (0 lux).

Accessories for the SR61

You can use these accessories (sold and ordered separately) with the SR61. To order accessories, contact your local Intermec sales representative.

Accessories for the SR61

Accessory	Description
SR61 Battery	The SR61 battery (AB3) provides power to the SR61.
Desktop/ Wallmount 1-Bay Charger	The 1-bay charger (AC5) charges the AB3 battery while the battery is installed in the SR61.
Desktop/ Wallmount 1-Bay Charger Power Supply	This power supply provides AC power to the 1-bay charger. It comes with power supply adapters for Australia, Continental Europe, United Kingdom, North America, Central America, Mexico, and Japan. The power supply also comes with a flat plate for use with an AC power cord (AC power cord not included).
2-Bay, 4-Bay, or 8-Bay Charger	The 2-bay (AC6), 4-bay (AC7), and 8-bay (AC8) chargers charge the AB3 battery.
2-Bay, 4-Bay, or 8-Bay Charger Power Supply	This power supply provides AC power to the 2-bay, 4-bay, and 8-bay chargers.
USB Bluetooth Adapter	The USB Bluetooth Adapter (P/N 203-771-xxx) provides wireless communications to your host computer and data collection application through a USB port on your PC.
RS-232 Bluetooth Adapter	The RS-232 Bluetooth Adapter (P/N 203-768-xxx) provides wireless communications to your host computer and data collection application through an RS-232 serial port on your PC.
SR61 Belt Holster	The belt holster provides you with an easy way to carry the SR61. The holster supports either right-handed or left-handed use.



| Index

Index

Numerics

- 1-bay charger, 67
- 1D linear imager (EV10, SR61xV)
 - illustration of using, 9
 - scanning bar codes, 9
 - specifications, 60
- 2-bay charger, 67
- 2D area imager (EA11, SR61xA)
 - illustration of using, 9
 - scanning bar codes, 10
 - specifications, 64
- 4-bay charger, 67
- 8-bay charger, 67

A

- AB3 battery
 - chargers, described, 67
 - charging, 3
 - status, checking, 4
- AC5 (desktop/wallmount charger), 67
- AC6 (2-bay charger), 67
- AC7 (4-bay charger), 67
- AC8 (8-bay charger), 67
- accessories, described, 67
- adapters, USB and RS-232
 - described, 67
 - host PCs, connecting to, 16
- Administrator Reset Factory Defaults
 - bar code, 22, 27
- AIM Standard, Symbology Identifier
 - command option, 51
- aim, Trigger Mode command option, 54
- Aimer Flashing Mode command, 39
- area imagers
 - 2D (EA11, SR61xA)
 - illustration of using, 9
 - scanning bar codes, 10
 - specifications, 64
 - near-far range (EX25, SR61xE)
 - illustration of using, 9
 - scanning bar codes, 10
 - specifications, 66
- audio feedback (beeps)
 - crackle, stacked (2D) bar code, 51
 - overview, 6
 - turning off, 7
- Australian Post command, 39

- autostand, Trigger Mode command
 - option, 53
- Aztec command, 39

B

- bar code symbologies
 - Australian Post, 39
 - BPO, 42
 - Canada Post, 42
 - Codabar, 43
 - Codablock A, 43
 - Codablock F, 43
 - Code 11, 43
 - Code 128 / EAN 128, 44
 - Code 39, 43
 - Code 93/93i, 43
 - DataMatrix, 45
 - Dutch Post, 46
 - EAN.UCC Composite, 46
 - Interleaved 2 of 5, 47
 - ISBT 128, 44
 - Japan Post, 47
 - Matrix 2 of 5, 48
 - Maxicode, 48
 - MSI, 48
 - PDF417, 48
 - Planet, 49
 - Plessey, 49
 - Postnet, 49
 - QR Code, 50
 - RSS 14, 50
 - RSS Expanded, 50
 - RSS Limited, 50
 - Standard 2 of 5, 51
 - Telepen, 52
 - UPC/EAN, 54
- bar codes
 - Administrator Reset Factory Defaults, 22, 27
 - Get Product Version, 26
 - Get SR61 Bluetooth Device Address, 26
 - Get Sub-System Versions, 26
 - Limited Discoverable, 23
 - scanning
 - configuring SR61, 20
 - troubleshooting, 28

- bar codes (*continued*)
 - setup sheet, described, 19
 - supported symbologies, 59
 - symbologies, default, 8
- battery, AB3
 - chargers, described, 67
 - charging, 3
 - described, 67
 - status, checking, 4
- Beep Duration command, 40
- Beep Frequency command, 40
- Beep Volume command, 40
- beeps
 - overview, 6
 - turning off, 7
- belt holster accessory, 67
- blue light (Intermec Ready-to-Work indicator)
 - described, 6
 - illustration, 5
- Bluetooth, 38
 - adapters, USB and RS-232
 - described, 67
 - host PCs, connecting to, 16
 - communications
 - configuring, 22
 - connecting as a keyboard wedge, 16
 - initiating from host device, 22
 - initiating from your SR61, 22
 - troubleshooting, 27, 28
 - discoverable state, configuring, 23
 - host devices supported, 14
 - PIN
 - forgot, troubleshooting, 28
 - security, configuring, 23
 - radio
 - communication range, 58
 - configuring communication, 22
 - specifications, 58
 - security, configuring, 22
 - SR61 Bluetooth address
 - how to get, 26
 - illustration, 14
 - Bluetooth Connect/Disconnect
 - command, 40
 - Bluetooth Device Disconnect, bar code, 16
 - Bluetooth Device Name command, 41
 - Bluetooth Device Page
 - command, 41
 - how to find your SR61, 29
 - Bluetooth Discoverable command, 41
 - Bluetooth Pageable Mode command, 41
 - Bluetooth PIN command, 42
 - Bluetooth Profile command, 42
 - Bluetooth Security command, 42
 - BPO command, 42
- C**
 - calling Product Support, 26
 - Canada Post command, 42
 - chargers, described, 67
 - charging the battery, 3
 - China Post, Matrix 2 of 5 setting,
 - described, 48
 - cleaning, scanner window, 32
 - Codabar command, 43
 - Codablock A command, 43
 - Codablock F command, 43
 - Code 11 command, 43
 - Code 128 / EAN 128 command
 - described, 44
 - function codes, described, 44
 - GTIN Processing for EAN 128, 44
 - ISBT 128, 44
 - Code 39 command, 43
 - Code 93/93i command, 43
 - code mark, symbology identifier, 51
 - collecting data, how to, 18
 - commands. *See* configuration commands
 - communication range, Bluetooth radio, 58
 - computers
 - host PC, connecting to
 - Bluetooth adapters, using, 16
 - keyboard wedge, as a, 16
 - supported, 14
 - configuration commands
 - described, 39–55
 - function, listed by, 35–38
 - using to configure the SR61, 34
 - Configuration Modes and Utilities
 - command, 45
 - configuring
 - Bluetooth communications, 22
 - from your Intermec computer, 21

Index

- configuring (*continued*)
 - parameters, 19
 - security, 22
 - using EasySet, 19
- connecting to a host device
 - as a keyboard wedge, 16
 - host PC, 16
 - Intermec computers, 15
 - overview, 14
- Consecutive Same Read Data Validation
 - command, 45
- continuous/edge, Trigger Mode,
 - described, 53
- D**
- Data Editing command, 45
- data transmission settings, configuration
 - commands, list of, 35
- data, collecting, 18
- DataMatrix command, 45
- Decode Mode command, 45
- default configuration
 - Administrator Reset Factory Defaults
 - bar code, 22
 - command, 39
 - restoring, 21
 - values, 35–38
- desktop/wallmount charger, 67
- Disable All Symbologies command, 46
- discoverable state
 - described, 41
 - security, configuring, 23
- Dutch Post command, 46
- E**
- EA11 2D area imager (SR61xA)
 - illustration of using, 9
 - scanning bar codes, 10
 - specifications, 64
- EAN 128, GTIN processing, 44
- EAN.UCC Composite command, 46
- EasySet
 - described, 14
 - using to configure SR61
 - offline, 20
 - online, 19
 - where to download, 8, 14
- EL20 laser scanner (SR61xL)
 - illustration of using, 9
 - scanning bar codes, 9
 - specifications, 62
- Error Beep command, 46
- EV10 1D linear imager (SR61xV)
 - illustration of using, 9
 - scanning bar codes, 9
 - specifications, 60
- EX25 near-far range area imager (SR61xE)
 - illustration of using, 9
 - scanning bar codes, 10
 - specifications, 66
- F**
- factory default settings
 - Administrator Reset Factory Defaults
 - command, 39
 - restoring, 21
- firmware
 - upgrading, 30
 - version, how to get, 26
- flashing, Trigger Mode, described, 53
- FNC1 and FNC2, Code 128 / EAN 128
 - function code, described, 44
- forgot Bluetooth PIN, troubleshooting, 28
- G**
- Get Product Version, bar code, 26
- Get SR61 Bluetooth Device Address, bar code, 26
- Get Sub-System Versions, bar code, 26
- Good Read Beep Duration command, 47
- Good Read Beep Number command, 47
- Good Read Beep Timing command, 47
- green light (status light), 5
- GTIN processing
 - EAN 128, 44
 - UPC/EAN, 55
- guide, audience, xi
- H**
- help, calling Intermec, x
- holster, belt, accessory, 67

I

imagers

- 1D linear (EV10, SR61xV)
 - illustration of using, [9](#)
 - scanning bar codes, [9](#)
 - specifications, [60](#)
- 2D area (EA11, SR61xA)
 - illustration of using, [9](#)
 - scanning bar codes, [10](#)
 - specifications, [64](#)
- near-far range area (EX25, SR61xE)
 - illustration of using, [9](#)
 - scanning bar codes, [10](#)
 - specifications, [66](#)

Interleaved 2 of 5 command, [47](#)

Interlink firmware upgrade application,
described, [30](#)

Intermec

- computers
 - connecting to, [15](#)
 - supported, [14](#)
 - using to configure the SR61, [21](#)
- contact information, [ii](#)
- Ready-to-Work indicator
 - described, [6](#)
 - illustration, [5](#)
- SmartWedge, described, [16](#)
- telephone support, [x](#)

ISBT 128 command, [44](#)

J

Japan Post command, [47](#)

K

keyboard wedge

- connecting, [16](#)
- Intermec SmartWedge, described, [16](#)
- Keyport Lite, described, [16](#)
- troubleshooting, [28](#)

Keyport Lite, described, [16](#)

L

labels, bar code, scanning, [8](#)

laser scanner (EL20, SR61xL)

- illustration of using, [9](#)
- scanning bar codes, [9](#)
- specifications, [62](#)

ldr, firmware upgrade file, [30](#)

level, Trigger Mode, described, [53](#)

light

- blue (Intermec Ready-to-Work
indicator), [6](#)
- red or green (status), [5](#)

Lighting Goal command, [47](#)

limited discoverable

- bar code, [23](#)
- described, [41](#)

M

Macro PDF417, described, [48](#)

Matrix 2 of 5 command, [48](#)

Maxicode command, [48](#)

MSI command, [48](#)

N

near-far range area imager (EX25, SR61xE)

- illustration of using, [9](#)
- scanning bar codes, [9, 10](#)
- specifications, [66](#)

new features, [3](#)

O

off, turning off SR61, [4](#)

offline, configuring SR61 with EasySet, [20](#)

omni-directional scanning, [10](#)

on, turning on SR61, [4](#)

online, configuring SR61 from EasySet, [19](#)

operating settings, list of, [37](#)

P

paging the SR61, how to, [29](#)

parameters, configuring SR61, [19](#)

patent information, [xii](#)

PC, connecting to

- Bluetooth adapters, using, [16](#)
- keyboard wedge, as a, [16](#)

PDF417 command, [48](#)

Planet command, [49](#)

Plessey command, [49](#)

Postamble command, [49](#)

Postnet command, [49](#)

power down bar code, [4](#)

power supplies, [67](#)

Preamble command, [49](#)

Predefined Security Levels command, [50](#)

problems, finding and solving, [27](#)

Index

Product Support, calling, 26
product version, how to get, 26
pulse, Trigger Mode, described, 53

Q

QR Code command, 50

R

radio, Bluetooth
communications, configuring, 22
specifications, 58
Ready-to-Work indicator
described, 6
illustration, 5
red light (status light), 5
resetting, SR61
behavior after reset, 29
how to, 29
restoring default settings
Administrator Reset Factory Defaults
command, 39
described, 21
RS-232 Bluetooth adapter
connecting to a host PC, 16
described, 67
RSS 14 command, 50
RSS Expanded command, 50
RSS Limited command, 50

S

scan engine option, how to find, 2
scanner window, cleaning, 32
scanner. *See* SR61
scanning
bar codes
configuring SR61, 20
how to, 8
omni-directional, 10
troubleshooting, 28
security
Bluetooth PIN, 23
configuring, 22
discoverable state, 23
Sensor Optimization command, 50
Serial Port Profile (SPP), Bluetooth
configuring, 22
described, 42

settings, restoring default, 21
Setup Beep command, 51
SmartWedge, described, 16
sounds (beeps)
overview, 6
turning off, 7
specifications, 58–66
SPP (Serial Port Profile), Bluetooth
configuring, 22
described, 42
SR61
configuring, 19–23
connecting to a host device, 14–18
initiating from the host device, 22
initiating from your SR61, 22
firmware, upgrading, 30
overview, 2
Stacked Code Crackle command, 51
Standard 2 of 5 command, 51
status light, 5
sub-system version, how to get, 26
support, calling Intermec, x
symbolologies, bar code
default, 8
list of, 36
supported, 59
Symbology Identifier command, 51

T

Telepen command, 52
Timeout Between Different Consecutive
Codes commands, 52
Timeout Between Identical Consecutive
Codes commands, 52
trigger
checking the battery status, 4
troubleshooting, 27
turning on the SR61, 4
Trigger Mode command, 53
Trigger Timeout command, 54
troubleshooting
Bluetooth PIN, forgot, 28
cannot establish a Bluetooth
connection, 27, 28
guide to finding problems, 27
keyboard wedge mode, 28
resetting the SR61, 29

troubleshooting (*continued*)
 scanning, [28](#)
 trigger, [27](#)
Turn Off After Good Read command, [54](#)
turning on and off, SR61, [4](#)

U

UPC/EAN command, [54](#)
 GTIN processing, [55](#)
 ISBN, [54](#)
upgrading
 how to, [31](#)
 what you need, [30](#)
USB Bluetooth adapter
 connecting to a host PC, [16](#)
 described, [67](#)
User Reset Factory Defaults command, [55](#)

V

Vibrate Alert
 command, described, [55](#)
 turning on and off, [10](#)
Vibrate Alert Duration command, [55](#)
volume, adjusting, [40](#)

W

wedge, keyboard
 connecting, [16](#)
 Intermec SmartWedge, described, [16](#)
 Keyport Lite, described, [16](#)
 troubleshooting, [28](#)
what's new, [3](#)
wireless communications, configuring, [22](#)



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SR61 Cordless Scanner User's Manual



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