SR30

Handheld Scanner

User's Guide

Intermec®

Intermec Technologies Corporation

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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	9/2008	Revised to support the both the linear and area versions of the SR30.

Contents

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

Visit the Intermec technical knowledge base (Knowledge Central) at **www.intermec.com** and click **Support** > **Knowledge Central** to review technical information or to request technical support for your Intermec product.

Telephone Support

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

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

Service Location Support

For the most current listing of service locations, click **Support** > **Returns and Repairs** > **Repair Locations**.

For technical support in South Korea, use the after service locations listed below:

AWOO Systems
102-1304 SK Ventium
522 Dangjung-dong
Gunpo-si, Gyeonggi-do Korea, South 435-776
Contact: Mr. Sinbum Kang
Telephone: +82-31-436-1191
E-mail: **sbkang@awoo.co.kr**

IN Information System PTD LTD
6th Floor
Daegu Venture Center Bldg 95
Shinchun 3 Dong
Donggu, Daegu City, Korea
E-mail: **jmyou@idif.co.kr** or **korlim@gw.idif.co.kr**

Who Should Read This Manual

This guide is for the person who is responsible for installing, configuring, and maintaining the SR30 Handheld Scanner.

This guide provides you with information about the features of the SR30, and how to install, configure, operate, maintain, and troubleshoot it.

Related Documents

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

To download documents

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

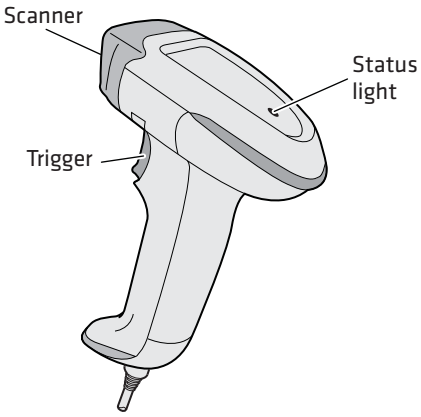
Product is covered by one or more patents. There may be other U.S. and foreign patents pending.

1 Learning About the SR30

Use this chapter to familiarize yourself with the SR30 Handheld Scanner. This chapter covers these topics:

Introducing the SR30 Handheld Scanner

The Intermec SR30 Handheld Scanner is a general duty scanner designed to collect data at the point of service (POS) for customer applications. The SR30 comes with either a linear or area imager.



SR30 Handheld Scanner

Powering the SR30

The SR30 is powered through the accessory cable connected to a host device. Depending on which accessory cable you are using, power comes from either the host device or the external power supply. For more information about each cable, see **"Cable Accessories" on page 34**.

Understanding the Status Light

The status light on the SR30 indicates a successful decode of a configuration or data bar code.

Status Light Descriptions

Light State	What It Means
Blinks green once	The SR30 successfully scanned a data bar code.
Blinks green two times	The SR30 successfully scanned a configuration bar code.
Blinks green five times	A configuration bar code was unsuccessfully scanned.
Blinks red six times	The SR30 tried to send data to a host device, but there was a communications error: • The PS2 port on the host device is not initialized. • An RS-232 protocol timeout has occurred. That is, ENQ, ACK, NAK, and RTS/CTS.

Understanding the Beeps

The SR30 beeps to give you audio feedback when performing some functions. For example, you hear a beep each time you scan a valid bar code.

Beep Sequence Descriptions

Beep Sequence	What It Means
Single beep	The SR30 successfully decoded a bar code.
Two beeps	The SR30 successfully scanned a configuration bar code.
Five beeps	The SR30 scanned a configuration bar code that it did not recognize.
Six beeps	Data was not successfully sent to the host. You are using RS-232 communications and a timeout has occurred. That is, ENQ, ACK, NAK, and RTS/CTS.

Scanning Bar Codes

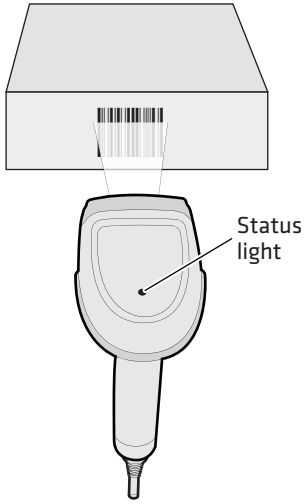
The SR30 is used to scan bar code data. When you unpack the SR30, these bar code symbologies are enabled:

- Code 39
- Code 128/GS1-128
- UPC/EAN
- DataMatrix (SR30 Area Imager only)
- PDF 417 (SR30 Area Imager only)

If you are using bar code labels that are encoded in a different symbology, you need to enable the symbology on your SR30. Use EasySet version 5.6.0.0 or later to enable and disable symbologies for your scanner. EasySet is available on the Intermec web site at **www.intermec.com/EasySet**.

To scan a bar code

1. Point the scanner window at the bar code label and hold the SR30 steady about two feet 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.

When the SR30 successfully reads a bar code label, the SR30 creates a single beep and the status light briefly turns green.

3 Release the trigger.

2 Connecting and Configuring the SR30

Use this chapter to understand how to connect the SR30 to a host device and configure the SR30. This chapter covers these topics:

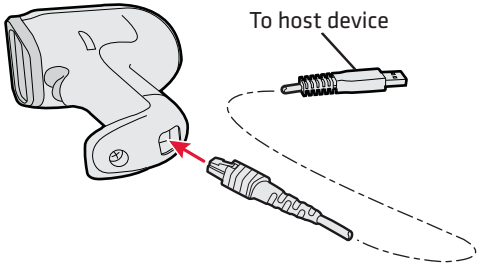
- **Connecting Your SR30 to a Host Device**
- **Configuring Your SR30 Parameters**

Connecting Your SR30 to a Host Device

To connect your SR30 to a host device, you need the appropriate accessory cable. For a list and description of each cable, see **"Cable Accessories" on page 34**.

To creating a USB connection

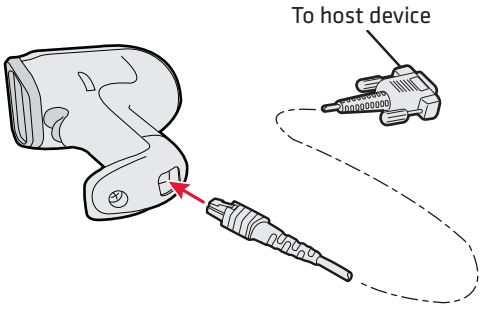
1. Make sure that you have the USB cable (P/N 236-164-xxx).
2. Turn on your host device.
3. Connect the cable to your SR30 and host device.



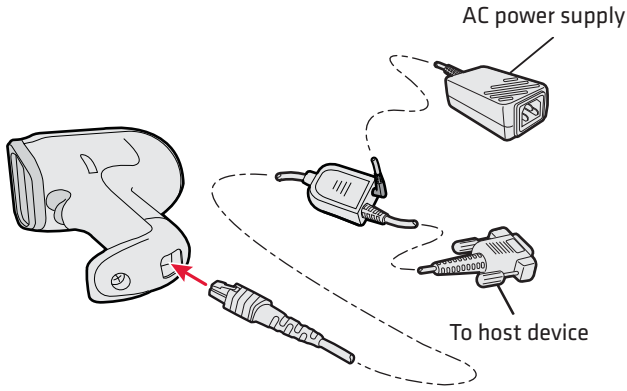
4. If necessary, configure your SR30 for an International keyboard. The default keyboard is North America. For help, see **"International Keyboard Bar Codes" on page 12**.

To create an RS-232 connection

1. Make sure that you have the appropriate RS-232 cable (P/N 236-159-xxx, P/N 236-161-xxx, P/N 236-166-xxx, or P/N 236-167-xxx) for your host device and appropriate power supply (if necessary).
2. Turn off your host device.
3. Connect the cable to your SR30 and host device.



4 If you are using the external power RS-232 cable, connect the power supply to the RS-232 cable and an AC power outlet.



5 Turn on your host device.

6 If necessary, configure your SR30 serial parameters to match the host device.

The default serial parameters for the SR30 are:

Baud Rate:	19200
Data Bits:	8
Parity:	none
Stop Bits:	1

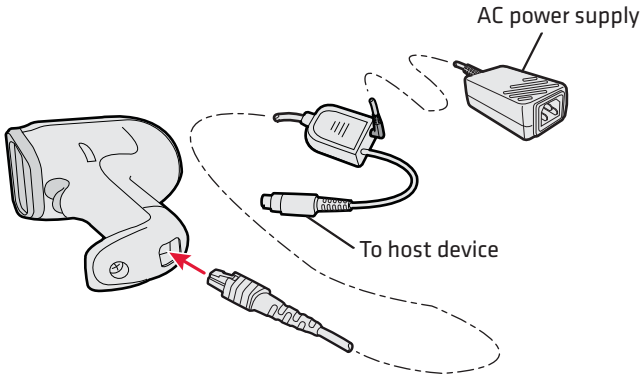
For help, see **"Serial Parameter Bar Codes" on page 14** or EasySet version 5.6.0.0 or later. EasySet is available on the Intermec web site at **www.intermec.com/EasySet**.

To create a keyboard wedge connection

1 Make sure that you have the keyboard wedge cable (P/N 236-162-xxx) and appropriate power supply (if necessary).

2 Turn off your host device.

3 Connect the cable to your SR30 and host device.



4 Connect the power supply to the keyboard wedge cable and an AC power outlet.

5 Turn on your host device.

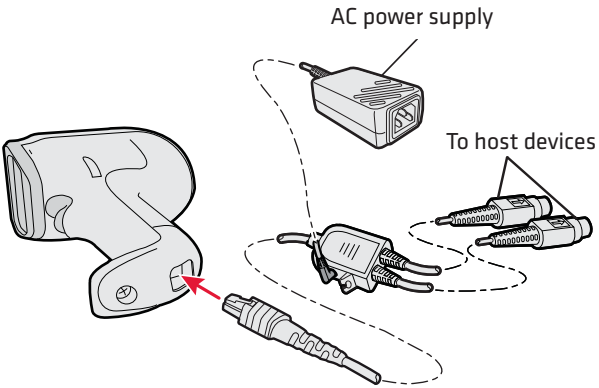
6 If necessary, configure your SR30 for an International keyboard. The default keyboard is North America. For help, see **"International Keyboard Bar Codes" on page 12**.

To create a keyboard wedge (Y cable) connection

1 Make sure that you have the keyboard wedge cable (P/N 236-204-xxx) and appropriate power supply (if necessary).

2 Turn off your host device.

3 Connect the cable to your SR30 and host device(s).



4 Turn off your host device.

5 Connect the cable to your SR30 and host device(s).

6 Connect the power supply to the keyboard wedge Y cable and an AC power outlet.

7 Turn on your host device.

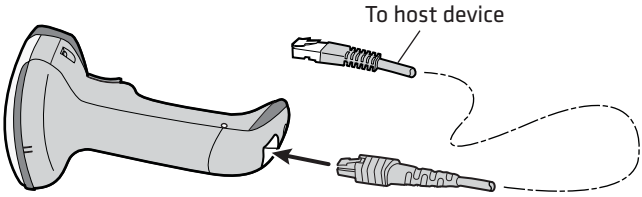
8 If necessary, configure your SR30 for an International keyboard. The default keyboard is North America. For help, see **"International Keyboard Bar Codes" on page 12**.

To create a wand emulation connection

1 Make sure that you have the wand emulation cable (P/N 236-163-xxx).

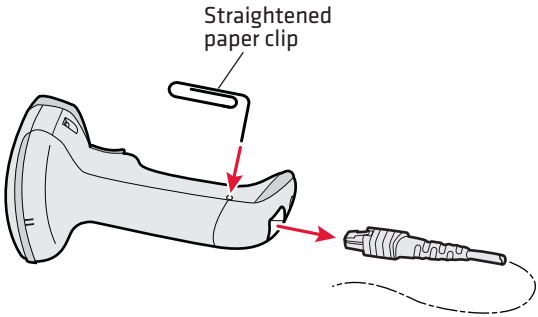
2 Turn off your host device.

3 Connect the cable to your SR30 and host device.



4 Turn on your host device.

Removing a Cable



Configuring Your SR30 Parameters

After you connect your SR30 to a host device, you may need to configure your SR30 to communicate properly with the host device. This section contains bar codes to configure your SR30:

- for an International keyboard.
- serial parameters.

To configure additional SR30 settings, see EasySet version 5.6.0.0 or later. EasySet is available on the Intermec web site at **www.intermec.com/EasySet**.

International Keyboard Bar Codes

If your SR30 is connected to a host with a USB cable or a keyboard wedge cable, you may need to configure your SR30 for an International keyboard.

* = default

North America*

French Windows

French Canadian Windows 95/98

French Canadian Windows XP/2000

German Windows

Spanish Windows

Italian Windows

Swedish Windows

UK English Windows

Brazilian Portuguese Windows

Japanese Windows

IBM/NCR Terminals

Serial Parameter Bar Codes

If your SR30 is connected to a host with an RS-232 cable, configure your SR30 serial parameters to match the host device.

This section contains bar codes for basic serial parameters. To configure additional serial parameters, see EasySet version 5.6.0.0 or later.

Note: By default, RTS/CTS hardware protocol is disabled. To enable this parameter, use EasySet version 5.6.0.0 or later. RTS/CTS hardware protocol operates only in one direction. The SR30 requests permission from the host to transmit and monitors host transmissions.

* = default

Baud Rate

1200

2400

4800

9600

19200*

38400

57600

115200

128000

230400

256000

460800

Data Bits

7

8*

Parity

None*

Even

Odd

Stop Bits

1*

2

3 Troubleshooting and Maintaining the SR30

Use this chapter to solve problems you may have while using the SR30. This chapter contains these topics:

- **Troubleshooting the SR30**
- **Maintaining the SR30**

Troubleshooting the SR30

If you have problems using the SR30, use this chapter to find a possible solution.

Calling Product Support

To talk to an Intermec Product Support representative:

- In the U.S.A. and Canada, call **1-800-755-5505**
- Outside the U.S.A. and Canada, contact your local Intermec representative. For help, go to **www.intermec.com** > **About Us** > **Contact Us**.

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

- SR30 firmware version
- SR30 decode version
- SR30 sub-system version, which includes Host Interface Processor (HIP) firmware and electronic hardware version

To get the firmware version, decode version, and sub-system version

1. Run an application that can accept bar code information from the SR30:
   - If you are using a USB or keyboard wedge cable, use Microsoft® Notepad.
   - If you are using an RS-232 cable, use the EasySet ISCP Terminal window. For help, see the EasySet software.
2. Scan one of these bar codes:

Get Firmware Version

Get Decode Version

Get Sub-System Version

Problems and Possible Solutions

Use this section to find possible solutions to problems you may have.

Problem	Possible Solution
You pull the trigger, but nothing happens.	The SR30 receives power from either a host computer or external power supply through an accessory cable. Make sure: • you are using the appropriate cable. For more information, see **"Cable Accessories" on page 34**. • the cable is connected to the appropriate port on the host computer. • the universal power supply (if necessary) is properly plugged in.
You pull the trigger, the red scanning beam turns on, but you cannot successfully scan a bar code.	Try these possible solutions: • Make sure that the SR30 is at the appropriate scanning distance from the bar code. Move the SR30 closer and farther to find the appropriate distance. • Make sure that the SR30 is configured for the type of bar code you are scanning. • The bar code you are trying to scan may be poorly printed or too small. Scan a known good bar code to make sure that the SR30 is working properly. For more information, see **"Scanning Bar Codes" on page 4**.
You scan a bar code and the status light turns on, but the SR30 does not beep.	The beep duration, volume, frequency, and number may be configured so the SR30 does not beep. To reset the SR30, scan this bar code: Reset Factory Defaults 

Problem	Possible Solution
You scan a bar code, the SR30 beeps once, and the status light blinks green two times, but the data is not transmitted to the host device.	Try these possible solutions: • Make sure that the accessory cable is properly plugged in to the SR30 and host device. • Make sure that your data collection application is set up to receive data from the SR30. • If you are using an RS-232 cable, make sure that the serial parameters on the SR30 match the serial parameters of the host device. The default serial parameters for the SR30 are: 19200 baud, 8 data bits, no parity, and 1 stop bit.  **Note:** You can use EasySet version 5.6.0.0 or later to connect to your SR30 and test the serial connection. For help, see the EasySet software.
You scan a configuration bar code and the SR30 beeps three times.	The SR30 does not recognize or support the configuration bar code you scanned, or the bar code is not enabled. Use EasySet to enable the bar codes.

Resetting the SR30

If your SR30 does not respond when you pull the trigger, you can reset your SR30. When you reset your SR30, the scanner control firmware is restarted.

To reset your SR30

- Scan this bar code.

  Reset Factory Defaults

Maintaining the SR30

To keep your SR30 in good working order, you may need to upgrade the SR30 and clean the scanner window.

Upgrading the SR30

Use the procedures below to upgrade the:

- Host Interface Processor (HIP)
- Imager engine firmware

The SR30 contains a Host Interface Processor (HIP). You can upgrade the HIP firmware.

To upgrade the SR30, you need:

- an RS-232 accessory cable. For more information, see **"Cable Accessories" on page 34**.
- a PC running Microsoft® Windows® XP with SP2 or Microsoft Windows 2000.
- EasySet version 5.6.0.0 or later.
- the SR30 HIP upgrade package.

To upgrade the SR30 HIP or imager firmware

1. Download the latest SR30 HIP upgrade package from the Intermec web site at **www.intermec.com**.
   a. Go to **Support** > **Downloads**.
   b. If necessary, click the link to search the product downloads.
   c. From the **Select A Product** drop-down list, choose **Bar Code Scanners: SR30 Handheld Scanner**.
   d. Click the link to download the HIP firmware upgrade package and save it to your PC.
   e. Unzip the .zip file.
2. Connect your SR30 to a host PC with an RS-232 cable.

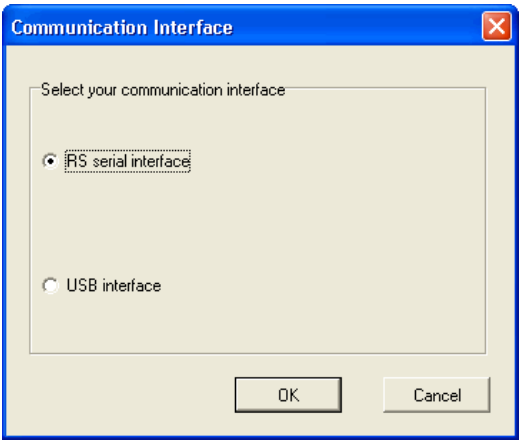
3 Scan the Reset Factory Defaults bar code:

Reset Factory Defaults

4 Start EasySet version 5.6.0.0 or later.

5 Verify that your SR30 is communicating with the host PC.

a From EasySet, select **Communication** > **Select Communication Interface**. The Communication Interface screen appears.



b Select the appropriate connection parameters, and click **OK**.

c Select **Communication** > **Terminal**. The ISCP Terminal window appears.

d Scan this sample data bar code:

Code 39 Test Bar Code

123456

The bar code data appears in the ISCP Terminal window.

e Click **Close window**.

6 Select **Communication** > **Disconnect**.

7 From the EasySet Commands window, double-click **Configuration modes and utilities**.

8 Double-click **Co-processor upgrade (HIP)**. The firmware upgrade bar code is added to the setup sheet.

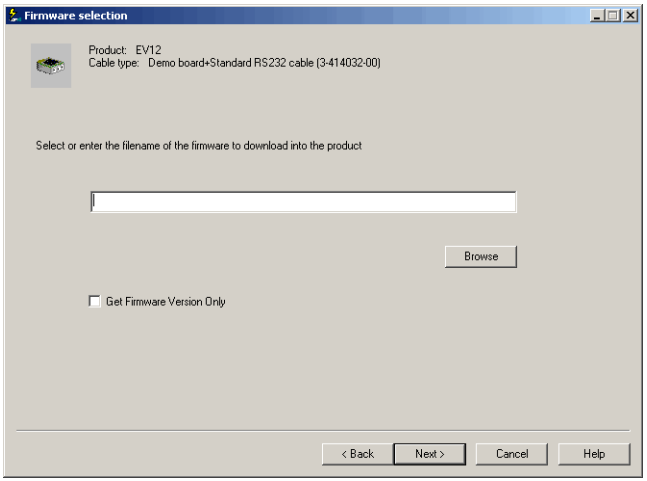
Note: After you scan the firmware upgrade bar code, you have 1 minute to start the upgrade process.

9 Scan the firmware upgrade bar code on screen, or print the bar code set up sheet and scan the bar code.

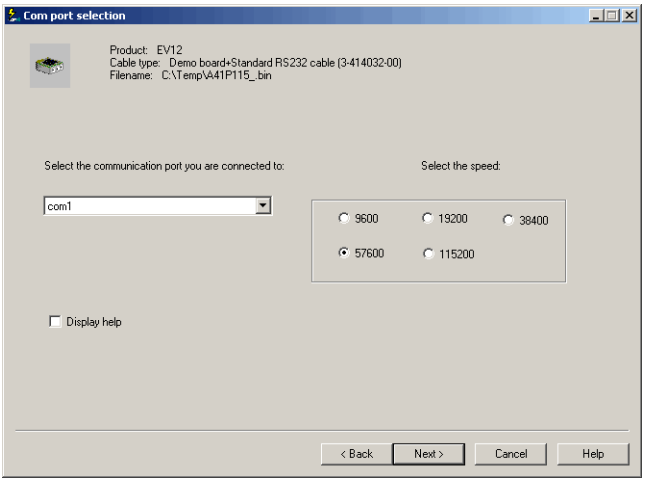
10 From the **Tools** menu, select **Upgrade product firmware**. The next screen appears.

11 Select the component you want to upgrade and click **Next**. The Firmware selection window appears.

12 Click **Browse** to browse to the location of the HIP firmware upgrade file, select the file, and click **Open**.



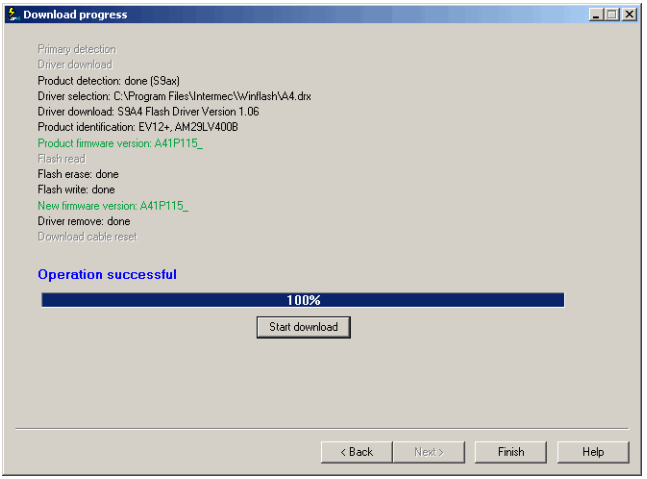
13 Click **Next**. The Com port selection window appears.



14 Select the COM port the SR30 is connected to, select a baud rate, and deselect the **Display help** check box.

15 Click **Next**. The Download progress window appears.

16 Click **Start download**. When the firmware download is complete, the "Operation successful" message appears.



17 Click **Finish**. You have successfully upgraded your SR30 firmware.

Cleaning the SR30

Clean the scanner window as often as needed for the environment in which you are using the SR30. To clean the scanner window, you can use soapy water, a solution of ammonia and water, or isopropyl alcohol.

Opening the SR30 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.

A Specifications and Accessories

Specifications

Use this section to find technical information about the SR30.

Physical Dimensions

Length:	10.79 cm (4.25 in)
Height:	17.27 cm (6.80 in)
Width:	7.37 cm (2.90 in)
Weight:	184.3 g (6.5 oz)

Power and Electrical Specifications

Electrical rating:	⎓ 5 V, 0.5 A

Temperature and Environmental Specifications

Operating:	0°C to 50°C (32°F to 122°F)
Storage:	-20°C to 60°C (-4°F to 140°F)
Relative humidity:	5 to 95% non-condensing
Environmental rating:	IP30

Bar Code Symbologies

- Aztec*
- Codabar
- Codablock*
- Code 11
- Code 39
- Code 93/Code 93i
- Code 128/GS1-128
- DataMatrix*
- EAN/UPC
- GS1 Composite*
- GS1 DataBar (RSS)
- Interleaved 2 of 5
- Matrix 2 of 5
- MaxiCode*
- MicroPDF 417*
- MSI Code
- PDF417*
- Plessey Code
- QR Code*
- RSS
- Standard 2 of 5
- Telepen
- TLC 39

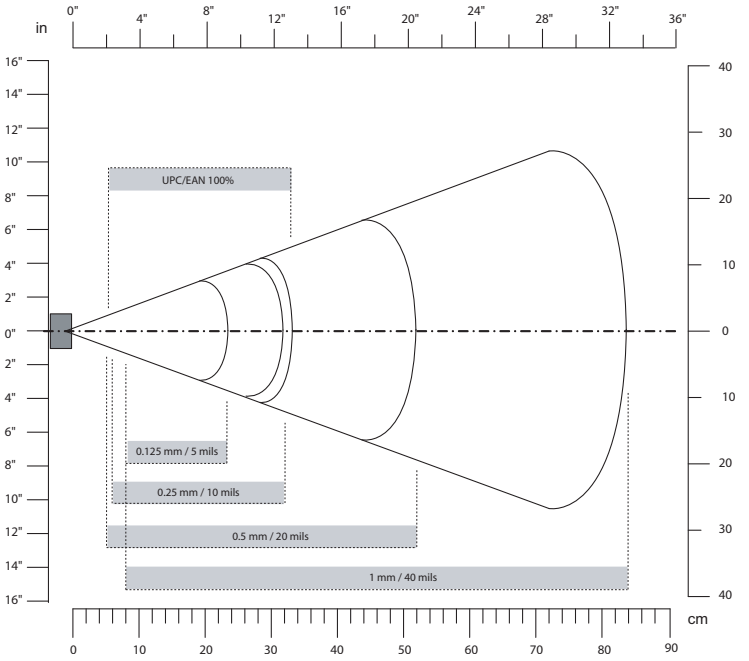
* = Symbologies that are supported by the SR30 Area Imager only.

Linear Imager Specifications for EV12

The following reading distances apply to the EV12 decoded 1D linear imager (P/N 3-103013-00-51) installed in the SR30.

Symbology	Density	Minimum Distance*	Maximum Distance
Code 39	0.125 mm (5 mils)	9.5 cm (3.2 in)	17.5 cm (7.4 in)
	0.25 mm (10 mils)	7.5 cm (2.5 in)	22.5 cm (9.3 in)
	0.5 mm (20 mils)	6.5 cm (2.1 in)	28.5 cm (11.5 in)
	1 mm (40 mils)	9.5 cm (3.2 in)	32.5 cm (13.3 in)
UPC/EAN	0.33 mm (13 mils)	7.0 cm (2.3 in)	23.5 cm (9.7 in)

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



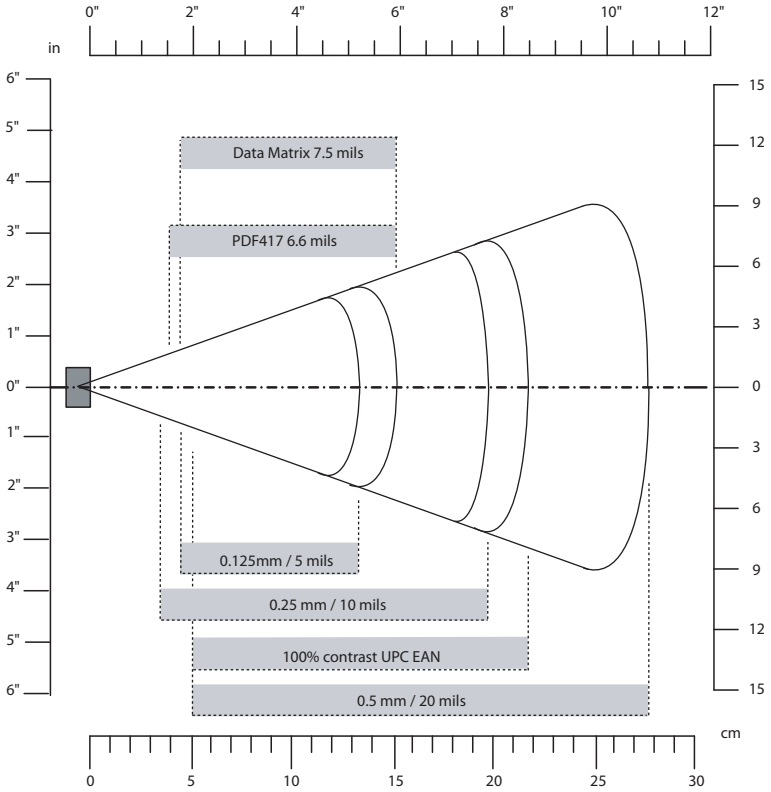
EV12 Linear Imager Typical Reading Distances: *This graphic does not include the 1.5 mm (0.1 in) setback for the SR30.*

Imager Specifications for EA15

The following reading distances apply to the EA15 decoded 2D area imager (P/N 3-140019-01-01) installed in the SR30.

Symbology	Density	Minimum Distance*	Maximum Distance
Code 39	0.125 mm (5 mils)	7.2 cm (3.2 in)	2.8 cm (5.1 in)
	0.20 mm (8 mils)	3.8 cm (1.5 in)	22.5 cm (8.8 in)
	0.25 mm (10 mils)	3.4 cm (1.3 in)	27 cm (10.5 in)
	1 mm (40 mils)	8 cm (3.1 in)	83 cm (32.4 in)
EAN/UPC	0.33 mm (13 mils)	5 cm (2 in)	32 cm (12.5 in)
Data Matrix	0.191 mm (7.5 mils)	6.3 cm (2.5 in)	17.3 cm (6.7 in)
	0.254 mm (10 mils)	4.8 cm (1.9 in)	22 cm (8.6 in)
	0.381 mm (15 mils)	*	29 cm (11.3 in)
PDF417	0.16 mm (6.6 mils)	6.2 cm (2.4 in)	15.4 cm (6 in)
	0.254 mm (10 mils)	4.5 cm (1.8 in)	23 cm (9 in)
	0.381 mm (15 mils)	4 cm (1.6 in)	37 cm (14.4 in)

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

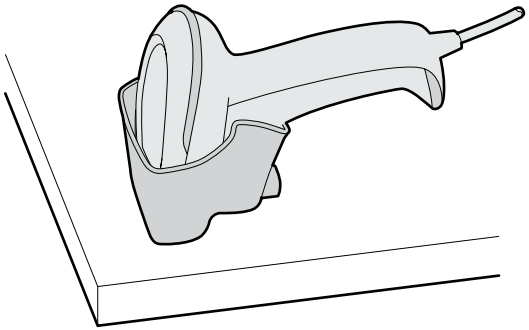


EA15 Area Imager Typical Reading Distances: *This graphic does not include the 1.5 mm (0.1 in) setback for the SR30.*

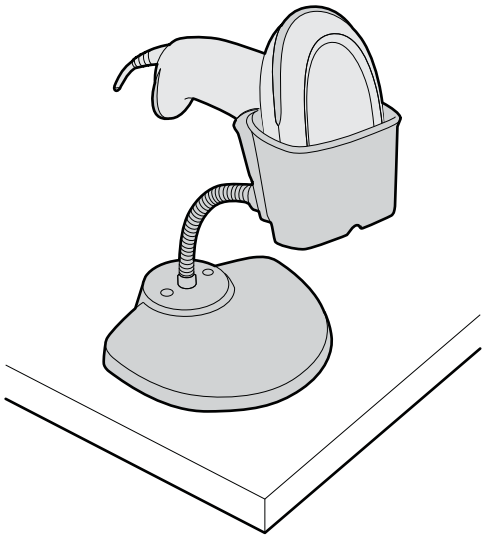
Accessories

You can use these accessories (sold and ordered separately) with the SR30 Handheld Scanner. To order accessories, contact your local Intermec sales representative.

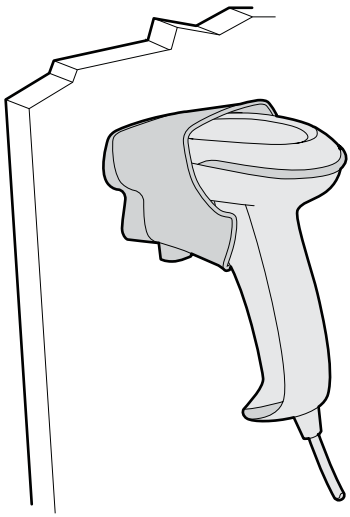
Stand Accessories



SR30 Desktop Stand (P/N 203-846-xxx): *The desktop stand provides you with a convenient way to store the SR30 when you are not using it.*



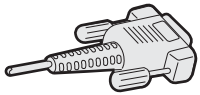
SR30 Hands-Free Stand (P/N 203-845-xxx): *The hands-free stand provides you with a convenient way to store the SR30 when you are not using it or scan items without having to hold your scanner.*



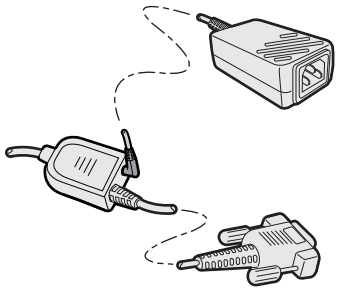
SR30 Wall Mount Stand (P/N 203-847-xxx): *The wall mount stand provides you with a convenient way to store the SR30 when you are not using it.*

Cable Accessories

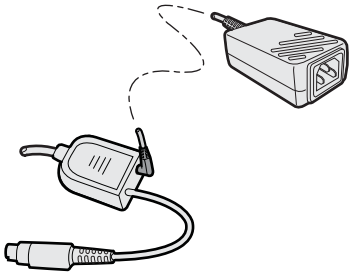
USB Cable (P/N 236-164-xxx)



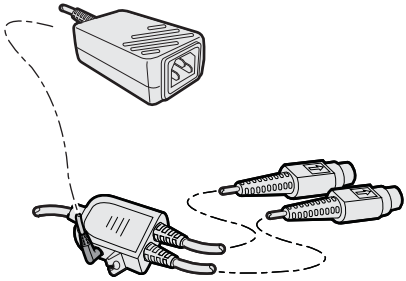
Powered RS-232 (P/N 236-159-xxx. P/N 236-160-001): *This cable supports the Intermec 700, 2435, 5055, 6400, CK3, CK30, CK31, CK61, CN3, CV60, and CV30 computers.*



External powered RS-232 (P/N 236-161-xxx): *This cable also requires one of these universal power supplies: U.S.A. and Canada (Model AE26) or all other countries (P/N 851-086-xxx).*



Keyboard Wedge Cable (P/N 236-162-xxx): *This cable also requires one of these universal power supplies: U.S.A. and Canada (Model AE26) or all other countries (P/N 851-086-xxx).*



Keyboard Wedge Y Cable (P/N 236-204-xxx): *This cable also requires one of these universal power supplies: U.S.A. and Canada (Model AE26) or all other countries (P/N 851-086-xxx).*

Wand Emulation (P/N 236-163-xxx): *This cable supports the Intermec 242X, 2455, 2475, 246X, 248X, and 5020 computers.*

B Default Settings

Default Configuration

Use the following tables to see the default values of the configuration commands supported on your SR30. The commands are grouped by function and reflect the organization of the Commands window in EasySet version 5.6.0.0 or later.

For detailed command descriptions, see the EasySet online help. The latest version of EasySet is available at no charge from the Intermec web site at **www.intermec.com**.

* = Symbologies and/or settings that are supported by the with area imager only.

Command	Default Value
Reset factory defaults except locked parameters	N/A

Interface Setting Commands

Command	Default Value
RS-232 parameters	
Baud rate	19200
Data bits	8
Parity	None
Stop bits	1
Hardware/software protocols timeout	1000 ms
ENQ	Not active (default 05h)
ACK	Not active (default 06h)
NAK	Not active (default 15h)
XON/XOFF software protocol	Not active
RTS/CTS hardware protocol	Not active
LRC (longitudinal redundancy check)	Not active

Interface Setting Commands (continued)

Command	Default Value
Inter-character delay	None
Inter-message delay	None
USB parameters	
USB cable mode	Keyboard HID
Keyboard selection	North America
Override caps lock key	Active
Keyboard wedge	
Keyboard selection	North America
Override caps lock key	Active

Data Transmission Commands

Command	Default Value
Data transmission settings	
ISCP	Not Active
Data format	Raw
Transmission frame size (TFS)	2048
Event notification	
EasySet label	Active
Preprocessing ISCP bar code	Not active
Wake-up	Not active
Unsuccessful decoding	Not active
Start of read session	Not active
End of read session	Not active
Start-up	Not active
Trigger pulled	Not active
Trigger released	Not active
Symbology identifier	Not transmitted
Preamble	
Keyboard wedge	None
RS-232	None

Data Transmission Commands (continued)

Command	Default Value
USB	
Keyboard HID	None
Generic HID	None
Postamble	
Keyboard wedge	Carriage Return + Line Feed
RS-232	Carriage Return + Line Feed
USB	
Keyboard HID	Carriage Return + Line Feed
Generic HID	Carriage Return + Line Feed
Data editing	
Active scenarios	N/A
Scenario 1	Not active
Scenario 2	Not active
Scenario 3	Not active
Scenario 4	Not active
Scenario 5	Not active
Scenario 6	Not active
Scenario 7	Not active

Symbology Setting Commands

Command	Default Value
Disable all symbologies	N/A
Disable all extended reading ranges	N/A
Aztec*	Not active
Codabar	Not active
Codablock*	
Codablock A	Not active

Symbology Setting Commands (continued)

Command	Default Value
Codablock F	Not active
Code 11	Not active
Code 39	Active
Reading range	Extended
Reading tolerance	High
Code 93/Code 93i	Not active
Code 128/GS1-128	Active
Reading range	Extended
Reading tolerance	High
DataMatrix*	Active
EAN/UPC	
UPC-A	Active
UPC-E	Active
EAN-8	Active
EAN-13	Active
UPC-E1	Not active
GS1 Composite*	Not active
CC-A/B	Not active
CC-CC	Not active
GS1 DataBar (RSS)	
Omni-directional	Not active
Limited	Not active
Expanded	Not active
Interleaved 2 of 5	Not active
Reading range	Extended
Reading tolerance	High
Matrix 2 of 5	Not active
Maxi Code*	Not active
MicroPDF417*	Not active
MSI Code	Not active
PDF417*	Active
Plessey Code	Not active

Symbology Setting Commands (continued)

Command	Default Value
QR Code*	Not active
Standard 2 of 5	Not active
Telepen	Not active
TLC 39	Not active

Operating Setting Commands

Command	Default Value
Scanning/Triggering	
Triggering modes	Level
Trigger Timeout	2 sec
Hardware trigger	Active
Software trigger	Not active Start character <STX> (02h) Stop character <ETX> (03h)
Turn off after good read	Active
Aiming beam	
Activation	Off
Duration	0.5 sec
Data decoding security	
Predefined security levels	Normal
Consecutive same read data validation	Auto read count before transmission
Timeout between identical consecutive codes	300 ms
Timeout between different consecutive codes	None
Sensor optimization	
Lighting	LED brightness 100%
Center decoding*	
Activation	Not active

Operating Setting Commands (continued)

Command	Default Value
Tolerance	No tolerance
Beeps/green indicator LED	
Volume	High
Note (tone frequency)	High (2090 Hz)
Power-up beeps/Power-up LED	On
Good read beeps	
Number	1
Duration	80 ms
Timing	Before transmission
Good read LED duration	80 ms
Error beep	On
Setup beep	On
Bad read message	Not active Default="NOREAD"

Note: The next table applies to area imagers only.

Imager Setting Commands

Command	Default Value
Pre-defined imager settings	
1D codes only	N/A
Standard 1D and 2D codes	N/A
1D and 2D codes, bright environment	N/A
1D and 2D codes with reflective surface	N/A
General	
Aimer flashing	Aimer flashing (optimized for decode)
Decode mode	2D imager

Imager Setting Commands (continued)

Command	Default Value
Illumination level	Maximum 100%
Illumination mode	Illumination LEDs always on
Image data interface	RS-232
Image data transmission	Synchronous
Image flip	None
Image rotation	Sensor view (no rotation)
Initial 1D search area	Center
Lighting goal	42
Lighting mode	Illumination priority
Snapshot	
Snapshot compression	None
Snapshot resolution	Full resolution
Events	
Snapshot ready event	Not active
Video	
Select video start condition	N/A
Select video stop condition	N/A
Video on	N/A
Video off	N/A
Video compression	None
Video compression quality	No compression
Video resolution	Full resolution
Video decode mode	Not active
Events	
Video start event	Not active
Video stop event	Not active
Signature capture	
Scenario 1-4	
Activation	Not active

Imager Setting Commands (continued)

Command	Default Value
Capture area definition	
Automatic correction	Both horizontal and vertical
Image validation	
Focus check	Not active
Image ratio check	Not active
Image processing	
Projective mapping and resolution	Not active
Contrast enhancement	Disable
Noise reduction	No noise reduction
Edge enhancement	Disable
Image output	
Output format	Grayscale
Output compression	None
Output compression quality	50
Reset scenario	

Configuration and Utility Commands

Command	Default Value
Get firmware version	N/A
Get decode version	N/A
Get shutter speed	N/A
Get configuration signature	N/A
Get 1D filter sequence	N/A
Get filter list	N/A
Firmware upgrade with RS-232 cable	N/A
Host Interface Processor (HIP) firmware upgrade	N/A
Optical setup (using configuration bar codes)	Enable

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