

## **Cordless Hand Scanner Series 7 with *Bluetooth*<sup>®</sup> Wireless Technology**

*Featuring a Bluetooth enabled bar code scanner for wirelessly adding bar code scanning to Bluetooth enabled mobile computers running:*

- *Windows Mobile 2003, 2003SE or 5.0*
- *Windows CE.NET for the Intermec CK30*
- *Palm OS 5.2 or later*
- *Windows XP or XP Tablet Edition*

## **User's Guide**



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Other than the above, Socket Mobile can assume no responsibility for anything resulting from the application of information contained in this manual.

Please refrain from any applications of the Socket Mobile Cordless Hand Scanner that are not described in this manual. Please refrain from disassembling the Cordless Hand Scanner. Disassembly of this device will void the product warranty.

You can track new product releases, software updates and technical bulletins by visiting the Socket Mobile website at: [www.socketmobile.com](http://www.socketmobile.com).

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# 1 | INTRODUCTION

If you need to collect bar coded data but don't want to be tied to your mobile or desktop computer, the Cordless Hand Scanner (CHS) Series 7 with *Bluetooth* wireless technology is just what you're looking for. This innovative device combines the power of laser bar code scanning with the convenience of *Bluetooth* wireless technology in a single compact, lightweight device that is ergonomically designed to fit comfortably in the palm of your hand.

Bar code scanning is the most efficient way to collect data from a mobile computer. If the data to be entered is bar coded, using a laser scanner is 50 times faster and 10,000 times more accurate than manual data entry.

*Bluetooth* wireless technology transforms how devices connect with each other, offering you new possibilities for using your mobile computer with other devices.

With the Cordless Hand Scanner (CHS), you can scan bar codes while connected to the PDA in your pocket or to your laptop, tablet or desktop computer located up to 300 feet away — all without the hassle of cables or the awkwardness of a protruding antenna.



## SCANNER VERSIONS

The CHS Series 7 includes three versions of the scanner.

- The entry-level CHS 7E uses linear CMOS imaging technology.
- The mid-level CHS 7M has a Class 1 laser scanner.
- The performance level CHS 7P features a Class 2 laser scanner and a ruggedized construction.

## ABOUT THE SOFTWARE

**SocketScan™** enters scanned data directly into any open Windows or Palm OS program as if the data were manually typed, so you can use the CHS with your favorite application. Included is a utility that



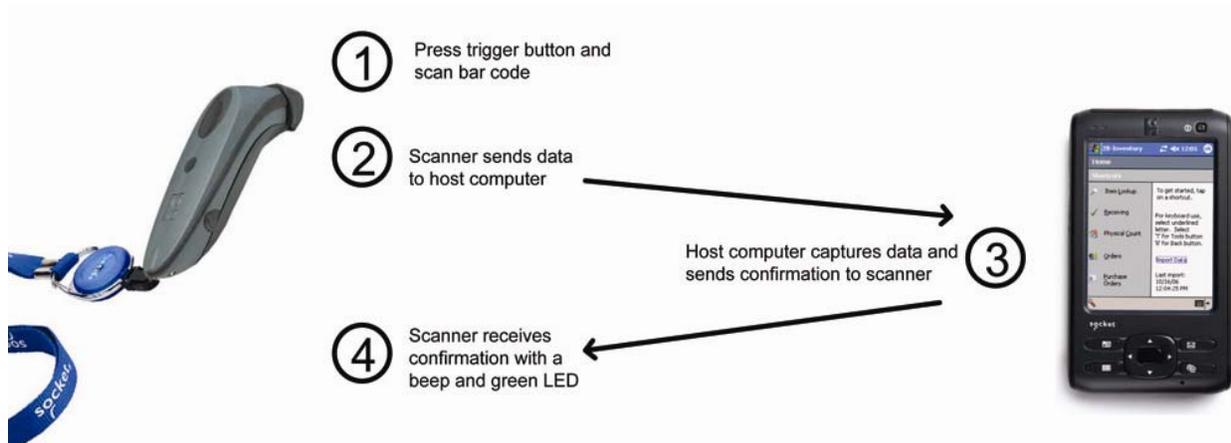
enables you to configure Prefix/Suffixes, sounds, and other special settings for the CHS.

**Connect!Agent™** for Windows Mobile and XP simplifies *Bluetooth* by automatically setting up and managing the wireless connection. Connect!Agent runs in the background, requiring no user interaction.

## ABOUT COMBINING SCANNING WITH *BLUETOOTH*

The Cordless Hand Scanner represents an optimal combination of proven laser bar code scanning and state-of-the-art *Bluetooth* connectivity. Because of the problems inherent in the intermittent storage of scanned data in on-board memory if the *Bluetooth* connection is lost, the CHS is designed to operate only when connected to the host, with the powerful Class 1 radio providing the maximum possible connection range.

The user is advised of the connection status with a single beep when the CHS connects to the host and a double beep when the connection is closed or lost. As with any wireless device, connectivity range can be affected by a variety of environmental variables.



The most likely source of errors in any cordless scanning system is not in the scanning and decoding process, but in the transmission of the data to the host. For this reason, the Cordless Hand Scanner features the exclusive *Error Proof Protocol* (patent pending) from Socket Mobile, which ensures that scanned data is

correctly received by the host computer and allows for real-time validation of data and notifies the user in case of errors.

The beeper and green LED signals provided by the CHS confirm not only a successful scan but also the successful transmission of the scanned data to the host. Users familiar with bar code scanning may notice a slight delay between the successful scan and shut off of the laser, and the beep and green LED from the CHS confirming completed transmission of the data. In most instances, this delay is less than 300 ms (milliseconds), but may be slightly longer as the connectivity range limit is approached.

*Because of the two-way transmission verification process, it is possible to cause communication problems by scanning bar codes as fast as possible. When this occurs, all transmissions will stop for several seconds before scanning can be resumed. To prevent this from happening, the user should wait until the confirming beep is received before scanning the next bar code.*

## **SYSTEM REQUIREMENTS**

Windows Mobile devices should satisfy these minimum requirements:

- Windows Mobile 2003, 2003SE or 5.0
- Any of the following *Bluetooth* stacks:•
  - Broadcom (Widcomm) v1.5 or later for Windows Mobile 2003/2003SE
  - Broadcom (Widcomm) v1.7 or later for Windows Mobile 5.0
  - Microsoft *Bluetooth* stack for Windows Mobile
  - Socket Mobile Drakar v1.4
- Software installation requires either ActiveSync 4.0 or greater or Windows Vista on a host computer.

The CHS Series 7 is also compatible with the Intermec CK30 mobile computer, which runs Windows CE.NET.

Palm OS devices should satisfy these minimum requirements:

- Palm OS 5.2 or later
- *Bluetooth* wireless technology
- Software installation requires Palm Desktop Software on a host computer.

Windows XP computers should satisfy these minimum requirements:

- Windows Mobile XP or XP Tablet Edition
- Any of the following *Bluetooth* stacks:\*
  - IVT BlueSoleil version 1.6.1.4
  - Microsoft Windows XP Service Pack 2 *Bluetooth* stack
  - Toshiba *Bluetooth* stack 3.0 or greater
  - Broadcom (Widcomm) *Bluetooth* stack

*\*Other stacks may be compatible but have not been tested by Socket Mobile. For Windows XP, only the IVT, Microsoft, and Toshiba Bluetooth stacks are compatible with the optional Socket Mobile Connect!Agent software.*

For information about using the CHS with Symbian smartphones, please visit: [www.socketmobile.com/products/bar-code-scanning-data-collection/series7/](http://www.socketmobile.com/products/bar-code-scanning-data-collection/series7/)

For software updates, please visit:  
[www.socketmobile.com/support/downloads/data-collection/series7/](http://www.socketmobile.com/support/downloads/data-collection/series7/)

## **PACKAGE CONTENTS**

The Cordless Hand Scanner package includes these items:

- Cordless Hand Scanner with *Bluetooth* Wireless Technology
- AC charging adapter with international plugs
- 2 NiMH rechargeable AAA batteries
- Lanyard with retractable tether
- Software Installation CD
- Booklets with copyright, warranty, and regulatory compliance information

## **PRODUCT REGISTRATION**

Socket Mobile highly recommends that all customers register their products. Registered users receive the following benefits:

- Priority for technical support
- Special offers for future products and upgrades
- The latest new product information.

Register online at: [www.socketmobile.com/support/support/new](http://www.socketmobile.com/support/support/new)

## ADDITIONAL DOCUMENTATION

Socket Mobile has also published Quick Start Guides and an Advanced Programming Guide for this product, available online at: [www.socketmobile.com/support/downloads/data-collection/series7/?page=Detail](http://www.socketmobile.com/support/downloads/data-collection/series7/?page=Detail)

## HARDWARE FEATURES

### **Rechargeable Batteries and AC Adapter**

Charge the internal batteries by using the included AC adapter. The adapter rating is 5V, 2A, positive pole center. A fully charged battery should provide roughly 8 hours of normal operation.

**WARNING: Charge ONLY NiMH batteries in the CHS. Damage may result if other battery types are charged. Do not store the CHS for more than 30 days with the batteries installed.**

*The red Battery Status LED will not function properly if standard AAA non-rechargeable batteries are being used.*

Besides the included AC adapter, you can also recharge the CHS by using any of the following:

- Socket Mobile Power Pack (available in Americas and Asia Pacific). [www.socketmobile.com/products/accessories/mobile-power-pack/](http://www.socketmobile.com/products/accessories/mobile-power-pack/)
- AC and DC adapters of most recent Pocket PCs from Socket Mobile, Casio, Fujitsu, HP, and Toshiba are also compatible.

### **Touch Screen Stylus**

The CHS features a stylus tip in the tail of the CHS that you can use Pocket PC and other device touch screens. The stylus can be removed with small pliers if desired. Visit the Socket Mobile website to purchase replacement styli.



**WARNING: Do not use the stylus if damaged. A damaged stylus may scratch the display screen of your computer.**

*The stylus does not work with XP Tablet computers using Active Matrix displays.*

### **Status Indicator LED**

<b>LED</b>	<b>LED Activity</b>	<b>Meaning</b>
<i>Bluetooth</i> Status (Blue)	1 blink per second	<i>Bluetooth</i> radio is on, but not connected.
	1 blink per 5 seconds	<i>Bluetooth</i> radio is on, connection established.
Good Read (Green)	Green	Data successfully scanned and transmitted to host device.
Battery Status (Red)	1 blink per second	Less than 20% of battery life remaining.
	Solid red	Batteries are charging.
	Off when connected to charger	Batteries are fully charged.

### **Status Indicator Beeps**

The scanner beeps to signal the *Bluetooth* connection status. You can also have the scanner beep to indicate scanned data reaching the host device.

<b>LED</b>	<b>Beep Pattern</b>	<b>Meaning</b>
<i>Bluetooth</i> Status (Blue)	1 beep	Connection to host device has begun.
	2 beeps	Connection to host device has ended.
Good Read (Green)	1 beep	Data was successfully scanned and transmitted to host device.

## 2 | HARDWARE PREPARATION

### INSTALLING BATTERIES AND ATTACHING THE TETHER

1. Use a coin or screwdriver to unlock and remove the battery cover. Turn the lock underneath the scanner to a horizontal position. Remove the casing.



2. Install the batteries in opposite directions, as indicated by the positive symbols.



**WARNING: Do not install the batteries incorrectly. Damage may result.**

3. If desired, attach the tether. Wrap the string loop around the inside part of the lock.
4. Replace the battery cover and lock it into place.
5. If desired, attach the tether to a lanyard or belt.



## CHARGING THE SCANNER

Use the included AC adapter to charge the Cordless Hand Scanner. The scanner's NiMH batteries must be charged for at least 4 hours before the first use. The Battery Status LED will emit a solid red light while charging, and turn off when the batteries are fully charged.



***WARNING: Do not attempt to charge alkaline batteries — this may cause alkaline batteries to leak and damage the CHS.***



*The red Battery Status LED will not function properly if standard AAA alkaline batteries are being used.*

## 3 | SETUP FOR WINDOWS MOBILE

This chapter explains how to install and use the Cordless Hand Scanner (CHS) with the SoMo 650 or other *Bluetooth* enabled Pocket PC or mobile computer running Windows Mobile 2003, 2003SE or 5.0.

Before you begin the instructions in this chapter, make sure you have installed the batteries (and tether, if desired), and charged the scanner, as described in Chapter 2, "Hardware Preparation."



### Setup Summary

- STEP 1: Uninstall other scanning software.
- STEP 2: Install the software.\*
- STEP 3: Start SocketScan.
- STEP 4: Configure scanner settings.
- STEP 5: Turn on the CHS.
- STEP 6: Connect CHS to host device.
- STEP 7: Start your application.
- STEP 8: Scan bar codes.

### Application Features

- Symbology Selector
- Scanner Settings
- Scan Demo
- Connect!Agent Utility

*\*Note: Software installation is not required for the Socket Mobile SoMo 650 handheld computer. However, you may want to update the software if a more recent version of SocketScan or Connect!Agent is available.*

## **STEP 1: UNINSTALL OTHER SCANNING SOFTWARE**

Delete any bar code scanning software already installed on your device. You can either uninstall the software directly from your device, or indirectly with ActiveSync.

*Note: The SocketScan software pre-installed on the SoMo 650 cannot be uninstalled but can be upgraded.*

### **OPTION 1: Uninstall Directly from the Pocket PC**

1. Make sure the bar code scanning software is closed, and remove the CF RFID Reader Card from your Pocket PC.
2. Tap **Start | Settings**. Tap on the **System** tab or **Control Panel**.
3. Tap on the **Remove Programs** icon.
4. Select the bar code scanning software, then tap **Remove**.
5. Tap **Yes** to confirm removal of the program.

### **OPTION 2: Uninstall via ActiveSync**

1. Make sure the bar code scanning software is closed, and remove the CF RFID Reader Card from your device.
2. Use ActiveSync and a serial/Ethernet/USB cable or cradle to make an active connection between your device and a host PC.
3. On the host PC, open Microsoft ActiveSync.
4. Click **Tools | Add/Remove Programs**.
5. Select the bar code scanning software and click **Remove**.
6. In the confirmation screen, click **OK**.
7. The next dialog will ask if you want to remove the software from your host PC as well.
  - Click **NO** to keep a copy of the software on the host PC that can later be re-installed onto a device.
  - Click **YES** to remove the software from the host PC.

## STEP 2: INSTALL THE SOFTWARE

Follow these instructions to install SocketScan into your Pocket PC. Afterwards, you may choose to repeat the same process to install the RFID Demo and/or Floating Trigger software, if desired.

1. Use a serial/USB cable or cradle to make an active connection between your device and a host PC.



- If your host computer is running Windows Vista, use the Windows Mobile Device Center.
- If your host computer is running Windows 2000/XP, ActiveSync 4.0 or greater is required. Download it free from: [www.socketmobile.com/activesync](http://www.socketmobile.com/activesync).

2. Insert the installation CD into your host PC.

3. Use **My Computer** or **Windows Explorer** to access your CD-ROM drive. In the CD, click on SETUP.EXE.



CD Drive



Setup  
Setup  
Socket Communications, Inc.

4. The SocketScan Setup Center will appear in your web browser. Read the first page and click **Installation** in the left margin.



5. In the SocketScan Installation page, in the Windows CE section, click **Install** In the first paragraph.



6. Your web browser will present a series of dialogs.

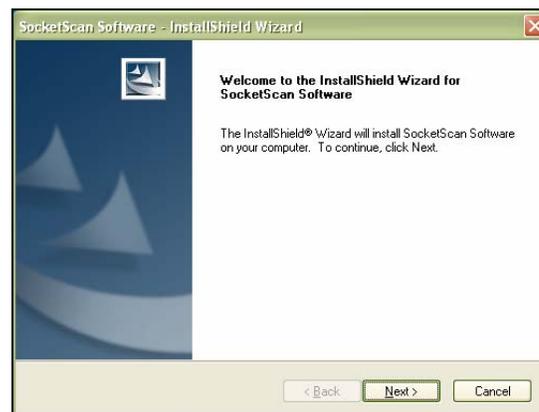
**Internet Explorer:**

- In the File Download –Security Warning dialog, click **Run**.
- In the second warning dialog, click **Run**.
- Internet Explorer will download the file.

**Firefox:**

- In the file opening dialog, click **Save File**.
- Firefox will download the file.
- In the Downloads list, next to SocketScanCE.exe, click **Open**.
- In the warning dialog, click **OK** to continue.

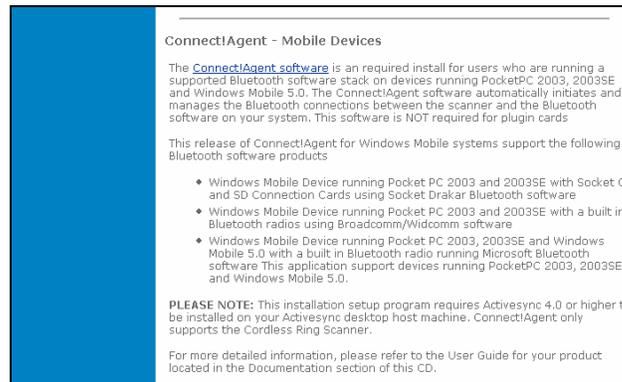
7. The InstallShield Wizard for SocketScan Software will automatically launch. Follow the wizard to install the software.



8. If your device warns that the software comes from an unknown publisher, tap **Yes** to continue installation.
9. After installing the software, a dialog on your Pocket PC will direct you to soft reset. Tap **ok**.



10. Remove your device from the cable/cradle and perform a soft reset by pressing the reset button. If you skip this step, some icons may not appear correctly.
11. Install Connect!Agent by returning to the SocketScan Setup Center. In the Installation page, scroll down to Connect!Agent – Mobile Devices section and click on the **Connect!Agent software** link there.



### STEP 3: START SOCKETSCAN

1. Tap **Start | Programs | SocketScan**.



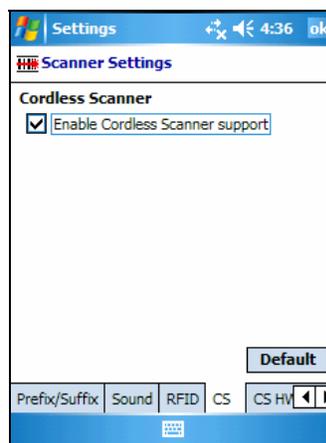
2. Return to the Today screen by tapping **Start | Today**.

## STEP 4: CONFIGURE SCANNER SETTINGS

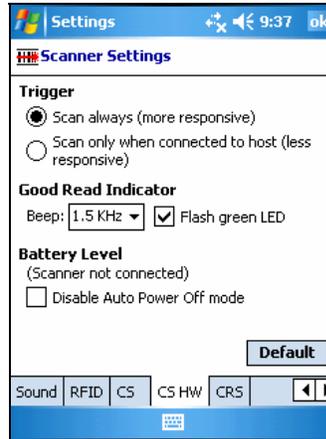
1. Tap the SocketScan icon  at the bottom of the screen. In the pop-up menu, tap **Settings**.



2. The Scanner Settings utility will appear. Tap on the **CS** tab at the bottom of the screen.
3. Check the box **Enable Cordless Scanner support**. **IMPORTANT!!!**



4. Tap on the **CS HW** tab. Enter the following settings:



- **Trigger:** Select whether you would like the CHS to scan only when a *Bluetooth* connection to the device is detected. If you require the CHS to detect a *Bluetooth* connection before each scan, scanning will be a few milliseconds slower.
- **Good Read Indicator:** Select how you would like the CHS to indicate that it has successfully read data.
- **Battery Level:** No progress bar should appear since you are not connected to the CHS.
- **Disable Auto Power Off mode:** The CHS automatically shuts off if there is no *Bluetooth* connection for 20 minutes. Check to disable.

5. After entering settings, tap **ok** to save the changes.

## STEP 5: TURN ON THE CHS

Press the small power button for five seconds, until you see the LED turn blue.

The LED should blink blue once every second to show that the *Bluetooth* radio is on but not connected. If the LED begins blinking red, the battery needs to be recharged.



## STEP 6: CONNECT DEVICE TO CHS

SocketScan supports a generic Bluetooth COM port and may be able to connect to Bluetooth stacks on mobile computers other than those listed.

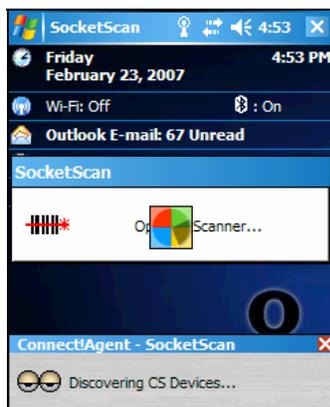
1. Tap on the SocketScan icon  at the bottom of the screen. In the menu, tap **Connect CS**.



Your mobile device cannot connect to the CHS if another device is set as the default Bluetooth serial device.

If **Connect CS** does not appear, tap **Settings** in the menu, tap on the **CS** tab, and enable cordless scanner support.

2. Connect!Agent will automatically turn on the *Bluetooth* radio and begin to search for and connect to the CHS.
  - If this is your first time connecting to a CHS or CRS (Cordless Ring Scanner) from this device, Connect!Agent will begin searching for any CHS or CRS in range.
  - If you have previously connected to a CHS or CRS, Connect!Agent will automatically begin searching for your favorite (default) device.



- If Connect!Agent does not have a favorite scanner and finds multiple CHS and/or CRS devices in range, select the one you want to connect to and tap **ok**.



*To help you identify the scanner, Connect!Agent reports the scanner's Bluetooth MAC address. The last six characters are displayed after the Bluetooth device name.*

- Connect!Agent will begin connecting to the CHS.



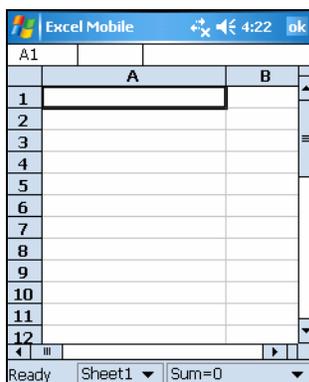
- After the devices connect, the CHS will beep once. The SocketScan icon at the bottom of the Today screen will change into a scanner icon to indicate the connection.



*Connect!Agent will save data about the CHS to automate future connections to your specific unit. To change which scanner is saved as your favorite, use the Connect!Agent utility.*

## STEP 7: START YOUR APPLICATION

1. Start the application that you want SocketScan to feed the bar code data into (e.g., Excel Mobile, Notepad, etc.). Make sure a document or spreadsheet is open.



2. Place the cursor where you want data from the next scan to go.

## STEP 8: SCAN DATA INTO YOUR APPLICATION

1. Press the trigger button and scan the bar code.

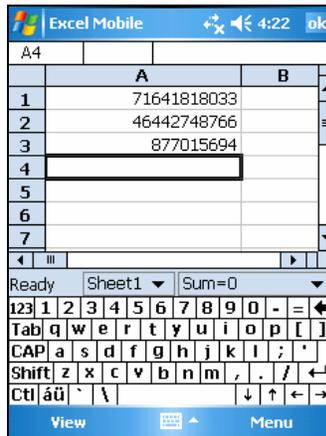


*When data is read and sent to device, the scanner beam will turn off. Depending on your settings, the scanner may beep and/or the CHS's LED may flash green to indicate a good read.*

*If no data is read in a few seconds, the scanner beam will turn off, and you must try again.*

2. After a successful scan, data should appear in your document. For example, after you scan a bar code into an Excel Mobile spreadsheet, data should appear in the first cell. The default

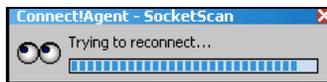
“CR” (carriage return) suffix will advance the cursor to the next cell, ready for the next scan.



Wait for the “Good Scan” indication before you scan another bar code. If you try to scan too fast, the device can lock up until you stop scanning.

### SocketScan Auto-Reconnect

If your mobile device suspends or the CHS moves out of range, the connection will end. After the mobile device turns on again or returns in range, SocketScan will try to re-connect for approximately three minutes. If, after 3 minutes, they have not re-connected, you will need to manually re-connect them.



## DISCONNECTING

To disconnect, tap on the SocketScan icon at the bottom of the Today screen and tap **Disconnect**. Your mobile device will disconnect from the CHS, and Connect!Agent will turn off the Bluetooth radio of your mobile device.

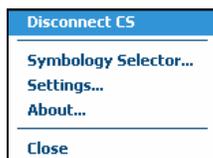
### Turning off the CHS

To turn off the CHS, press the power button at least 2 seconds, until the LED stops blinking.

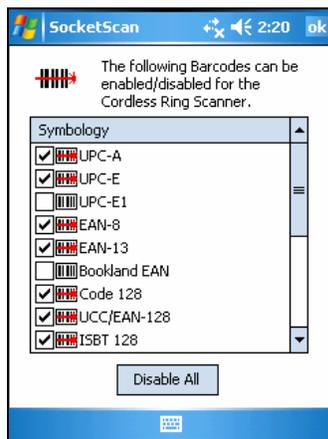
## SYMBOLGY SELECTOR

The applet makes it quick and convenient to modify which symbologies you want the scanner to recognize. By default, the scanner is set to recognize nine of the most common symbologies.

1. Tap on the SocketScan icon. In the pop-up menu, tap **Symbology Selector...**



2. In the screen that appears, check the symbologies you wish to enable. Uncheck those you wish to disable. For convenience, you can tap **Disable All** to disable all the symbologies and select the ones you want. Tap **ok**.



*Symbologies not supported by the CHS will be gray. Enabling all possible symbologies will make the decode process slightly longer.*

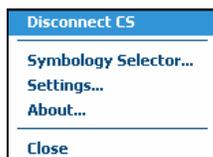
## SCANNER SETTINGS

1. Tap on the SocketScan icon. In the pop-up menu, tap **Settings**.

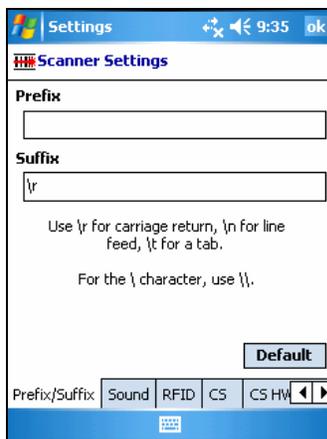


You can configure prefix/suffixes whether or not the CHS is connected to your Pocket PC.

2. In the pop-up menu, select **Settings...**



3. In the screen that appears, enter the characters you want to be appended to each scan (128 character maximum).

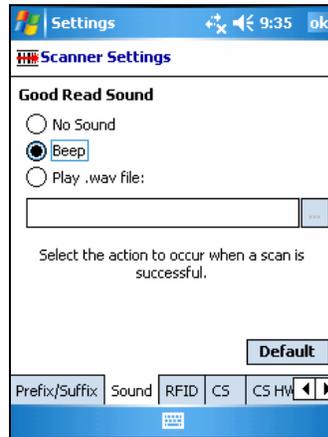


By default, SocketScan enters a carriage return after every data scan.

- Use `\r` for Carriage Return, `\n` for Linefeed, `\t` for Tab., `\\` for a single `\` character.
- Other characters can be typed or entered using the format `\nnn`, where `nnn` = ASCII character 001 through 255.

4. Tap on the **Sound** tab.

5. Select which sound you want your mobile computer to use to indicate a good read. If you select **Play .wav file**, tap on the ... button to search for the .wav file you want to use (the file must be in the **My Documents** folder).



6. Tap **ok**.

## SCAN DEMO

Scan Demo makes it easy to determine the symbology, number of characters, and decoded data (in either ASCII or Hex) of any bar code supported by the scanner. This is especially useful if you encounter a bar code that the scanner will not decode by default.

1. Tap **Start | Programs | Scan Demo**.



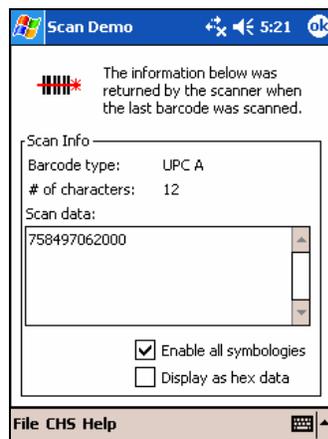
*Accessing Scan Demo disconnects the Bluetooth link. If you have not configured the CHS to automatically connect, select the CHS tab at the bottom of the page to re-establish this link.*

2. The Scan Demo screen will appear. If desired, use the check boxes at the bottom of the screen to modify the test.

**Enable all symbologies:** By default, this option is checked. Different symbologies can sometimes interpret the same bar code differently, so you may want to uncheck this option.

**Display as hex data:** Check this box to view scanned data in hexadecimal format. Otherwise, data will appear as ASCII.

3. Scan the bar code. Scan Demo will report the properties of the bar code.



# CONNECT!AGENT UTILITY

The Connect!Agent utility enables you to view and change the default Socket Mobile Bluetooth peripherals that Connect!Agent will try to connect to.

- 1. Tap **Start | Settings | System tab | Connect!Agent.**

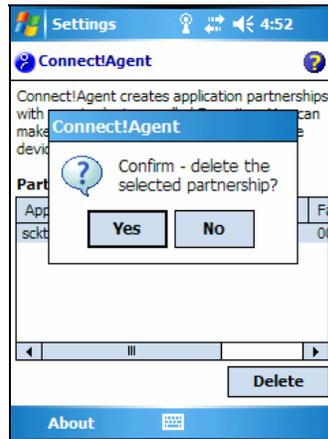


- 2. The Connect!Agent utility lists the wireless bar code scanners and/or modems that it has saved as favorite devices. These are specific devices that Connect!Agent automatically attempts to connect to whenever SocketScan or a Bluetooth dial-up connection is initiated.



*Note: The Connect!Agent utility can save a favorite CHS and CRS for SocketScan as well as for Scan Demo. The same CHS/CRS can be the favorite for both SocketScan and Scan Demo.*

3. If you wish to remove a device from the partnership list, select the device and tap **Delete**. In the confirmation screen, tap **Yes**.



## 4 | SETUP FOR THE INTERMEC CK30

This chapter explains how to install and use the Cordless Hand Scanner (CHS) with the Intermec CK30 mobile computer, which runs the Windows CE.NET operating system.

Before you begin the instructions in this chapter, make sure you have installed the batteries (and tether, if desired), and charged the scanner, as described in Chapter 2, "Hardware Preparation."



### **Setup Summary**

- STEP 1: Install the software.
- STEP 2: Turn on the CHS.
- STEP 3: Connect CHS to CK30.
- STEP 4: Open your application.
- STEP 5: Scan data into your application.

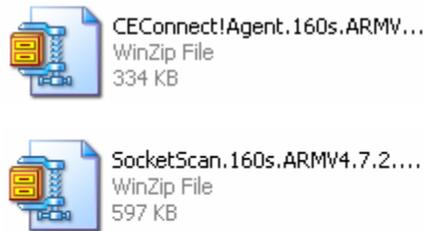
### **Application Features**

- Symbology Selector
- Prefixes/suffixes
- Power settings

## STEP 1: INSTALL THE SOFTWARE

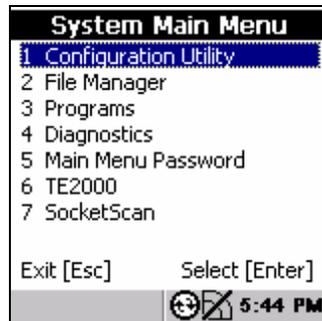
You must install both SocketScan and Connect!Agent.

1. Use ActiveSync (4.0 or greater), the Windows Mobile Device Center (for Windows Vista) or another method to copy the **CEConnect!Agent.160s.ARM...** and **SocketScan.160s.ARM...** CAB files from the 160s folder in the installation CD and paste them into the CK30. Refer to your CK30 manual for instructions.



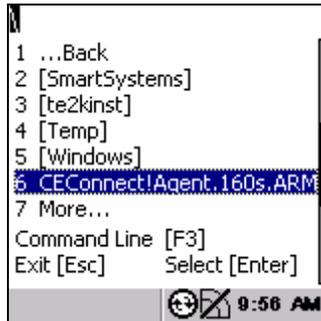
Remember where you save the CAB files in the CK30. For example, you may want to save the files in the My Documents folder.

2. After copying the CAB files into the CK30, push the green button then the orange button on the CK30 to access the System Main Menu.
3. In the System Main Menu, press **2 File Manager**.

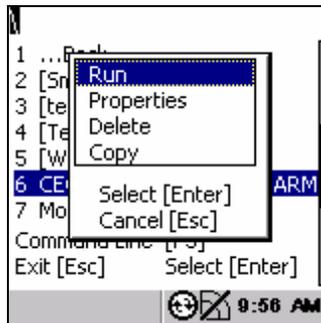


4. Navigate to the location where you saved the CAB files.

5. Select the **CE.Connect!Agent.160s.ARM...** CAB file and press the **Enter** button on the right side.



6. In the options window, select **Run** and press the **Enter** button on the right side.



7. Follow the instructions on your screen to install Connect!Agent.
8. After you finish Connect!Agent installation, navigate to where you saved the CE.SocketScan.160s.ARM... CAB file and run it.

## STEP 2: TURN ON THE CHS

**Press the small power button for five seconds,** until you see the LED turn blue. The LED should blink blue once per second to show that the *Bluetooth* radio is on but not connected. If the LED begins blinking red, the battery needs to be charged.



### STEP 3: START SOCKETSCAN

1. On the CK30, press the green button and then the orange button to access the System Main Menu.
2. In the System Main Menu, press **7 SocketScan**.



### STEP 4: CONNECT CK30 TO CHS

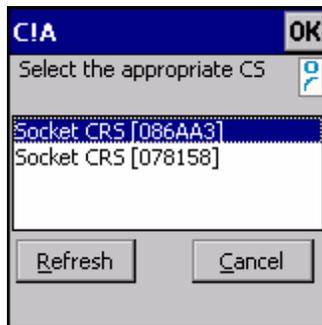
1. In the SocketScan menu, press **1 Connect Cordless Scanner**.



2. Connect!Agent will automatically turn on the *Bluetooth* radio and begin to search for and connect to the CHS.



- If this is your first time connecting to a CHS or CRS (Cordless Ring Scanner) from this CK30, Connect!Agent will begin searching for any CHS or CRS in range.
  - If you have previously connected to a CHS/CRS, Connect!Agent will begin searching for the last one you connected to.
3. If Connect!Agent does not have a favorite scanner and finds multiple CHS and/or CRS devices in range, select the one you want to connect to and press the **Enter** button on the right side.



*The characters in brackets are the last six characters of the Bluetooth MAC address.*

4. Connect!Agent will begin connecting to the CHS.
5. After the CK30 connects to the CHS, the CHS will beep once, and the bottom of the screen will report, "CHS connected."
6. In the SocketScan menu, press **6 Hide SocketScan**.



**IMPORTANT! Do not press the Esc button, or you will close SocketScan and won't be able to scan bar codes into the CK30.**

## STEP 5: OPEN YOUR APPLICATION

1. Start the Windows application that you want to receive the data (e.g., Word Pad). Make sure a document is open.
2. Place the cursor where you want data from the next scan to go.

## STEP 6: SCAN DATA INTO YOUR APPLICATION

1. Press the trigger button and scan the code.



*When data is read and sent to the CK30, the scanner beam will turn off. Depending on your scanner settings, the scanner may beep and/or the CHS LED may flash green to indicate a good read.*

*If no data is read in a few seconds, the scanner beam will turn off, and you must try again.*

2. After a successful scan, data should appear in your document. For example, after you scan a bar code into a spreadsheet, data should appear in the first cell. The default "CR" (carriage return) suffix will advance the cursor to the next cell, ready for the next scan.

*Wait for the "Good Scan" indication before you scan another bar code. If you try to scan too fast, the device can lock up until you stop scanning.*

### **SocketScan Auto-Reconnect**

If your CK30 suspends or the CHS moves out of range, the connection will end. After the mobile device turns on again or returns in range, SocketScan will try to re-connect for

approximately 3 minutes. If, after 3 minutes, they have not re-connected, you will need to manually re-connect them.

## **DISCONNECTING**

In the SocketScan menu, press **2 Disconnect Cordless Scanner**.

### **Turning off the CHS**

*To turn off the CHS, press the power button at least 2 seconds, until the LED stops blinking.*

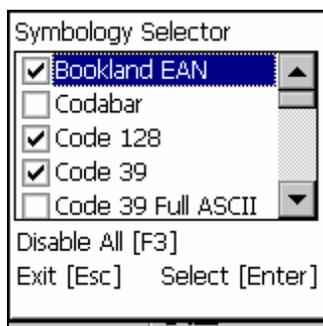
## SYMBOLGY SELECTOR

The SocketScan utility makes it easy to choose which symbologies you want the scanner to recognize.

1. In the SocketScan menu, press **4 Symbology Selector**.



2. In Symbology Selector, press the arrow buttons to scroll through the list. To enable/disable a symbology, select it from the list and press the **Enter** button on the right side. For convenience, you can press **F3** to disable all the symbologies, and later select the ones you want.



3. After making all of your selections, press **Esc** to exit Symbology Selector.



*Enabling all possible symbologies will make the decode process slightly longer.*

## PREFIXES/SUFFIXES

The SocketScan utility lets you specify prefix and/or suffix characters to be added automatically to the data you scan. This helps to further eliminate manual data entry.

1. In the SocketScan menu, press **3 Settings**.



*You can configure prefix/suffixes whether or not the CHS is connected to the CK30.*

2. In the Settings menu, press **1 Prefix and suffix**.

```
Settings
1 Prefix and suffix
2 CRS triggers
3 Battery level

Exit [Esc] Select [Enter]
```

3. In the screen that appears, enter the characters you want to be appended to each scan (128 character maximum).

```
Settings

Prefix
_____

Suffix
\r_____

Exit [Esc]
```

*By default, SocketScan enters a carriage return after every data scan.*

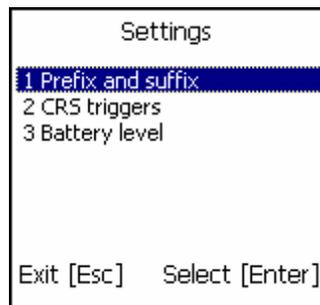
- Use `\r` for Carriage Return, `\n` for Linefeed, `\t` for Tab., `\\` for a single `\` character.
- Other characters can be typed or entered using the format `\nnn`, where `nnn` = ASCII character 001 through 255.

4. When you have finished entering prefixes/suffixes, press **Esc**.

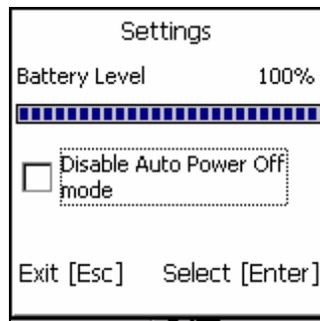
## POWER SETTINGS

The SocketScan utility lets you manage the power settings of the CHS.

1. Make sure the CHS is connected to the CK30.
2. In the SocketScan menu, press **3 Settings**.
3. In the Settings menu, press **3 Battery level**.



4. The next screen will report the battery level of the CHS.



By default, the CHS will automatically turn off when there is no *Bluetooth* connection in 20 minutes. If desired, check **Disable Auto Power Off mode** if you would like the CHS to always stay on. Press the **Enter** button on the right side.

5. Press **Esc** to exit the Battery Level screen.

## 5 | SETUP FOR PALM

This chapter explains how to install and use the Cordless Hand Scanner (CHS) with a *Bluetooth* enabled device running Palm OS 5.2 or later.

Before you begin the instructions in this chapter, make sure you have installed the batteries (and tether, if desired), and charged the scanner, as described in Chapter 2, "Hardware Setup."



### Setup Summary

- STEP 1: Uninstall other scanning software.
- STEP 2: Install the software.
- STEP 3: Turn on the CHS.
- STEP 4: Start SocketScan
- STEP 5: Connect PDA to CHS.
- STEP 6: Open your application.
- STEP 7: Scan data into your application.

### Application Features

- Scanner settings
- Symbology Selector
- Scan Test



*For help using SocketScan, tap on the  button on the top of any screen.*

## STEP 1: UNINSTALL OTHER SCANNING SOFTWARE

Delete any bar code scanning software already installed in your device, including previous versions of SocketScan.

1. Make sure the software is closed.
2. Tap **Home**, then tap **Menu**.
3. In the App menu, tap **Delete**.
4. Use the utility to delete the bar code scanning software.

## STEP 2: INSTALL THE SOFTWARE

1. Use HotSync and a serial/USB cable or cradle to connect your device to a host PC.



2. Insert the installation CD into your host PC.
3. Use **My Computer** or **Windows Explorer** to access your CD-ROM drive. In the CD, click on SETUP.EXE.



CD Drive

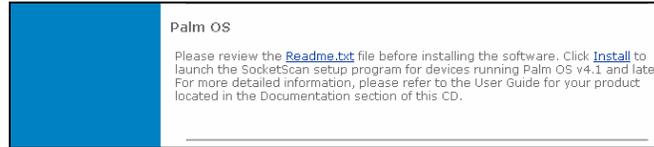


Setup  
Setup  
Socket Communications, Inc.

4. The SocketScan Setup Center will appear in your web browser. Read the first page and click **Installation** in the left margin.



5. In the SocketScan Installation page, scroll down to the Palm OS section and click the **Install** link there.



6. Your web browser will present a series of dialogs.

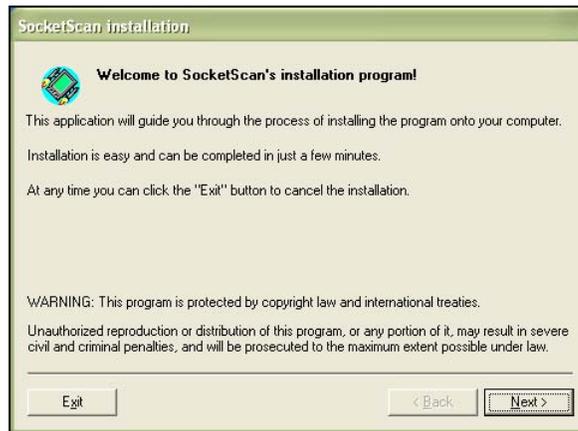
#### **Internet Explorer:**

- In the File Download –Security Warning dialog, click **Run**.
- In the second warning dialog, click **Run**.
- Internet Explorer will download the file.

#### **Firefox:**

- In the file opening dialog, click **Save File**.
- Firefox will download the file.
- In the Downloads list, next to SocketScanCE.exe, click **Open**.
- In the warning dialog, click **OK** to continue.

7. The SocketScan Installation program will begin. Follow the instructions on your screen to install the software.



8. When software installation is complete, disconnect the device from the host PC. Soft reset the device by pressing the reset button.

### STEP 3: TURN ON THE CHS

**Press the small power button for five seconds,** until you see the LED turn blue. The LED should blink blue once every second to show that the *Bluetooth* radio is on but not connected. If the LED begins blinking red, the battery needs to be recharged.



### STEP 4: START SOCKETSCAN

1. Tap **Home**.
2. In the upper right corner, make sure **All** is selected.
3. Scroll down and tap on the **SocketScan** icon.

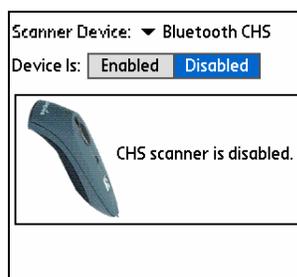


## STEP 5: CONNECT CHS TO PDA WITH BLUETOOTH

1. After you start SocketScan, the main screen of SocketScan will appear, showing a picture of the Socket Mobile SD Scan Card. In the **Scanner Device** drop-down menu, select **Bluetooth CHS**.



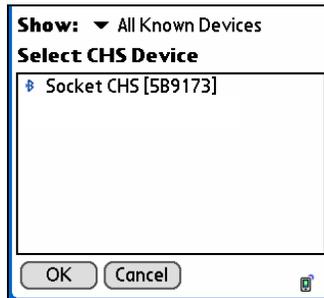
2. The screen will display a picture of the Cordless Hand Scanner. In the **Device is** field, tap **Enabled**.



3. If you have not yet enabled your *Bluetooth* hardware, a message will ask if you wish to do so. Tap **OK**.



- Your device will begin searching for *Bluetooth* enabled devices in range. After it finishes searching, select the **Socket CHS** from the list of discovered devices and tap **OK**.

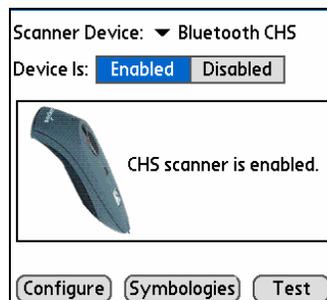


*Note: The characters in brackets are the last 6 characters of the scanner's Bluetooth MAC address.*

- Your device will connect to the CHS. If a passkey is requested, enter **1234**.



- When the devices connect, the CHS will beep once. The main screen of SocketScan will report that the CHS is enabled, and the **Configure**, **Symbologies**, and **Test** buttons will appear.



*If the PDA suspends, the CHS will automatically re-connect once you turn on the PDA again.*



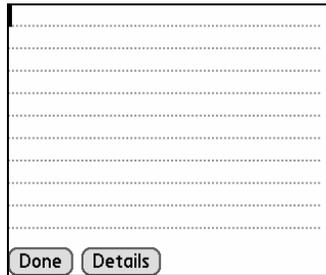
*If the CHS is taken out of range, or if the Bluetooth connection is otherwise lost, to resume operation you must enable it again in SocketScan.*



*For more information about the meanings of LEDs and beeps, please see page 9.*

## **STEP 6: OPEN YOUR APPLICATION**

1. Start the Palm application that you want to receive the data (e.g., Memo). Make sure a document or spreadsheet is open.



*Note: You cannot scan data into Palm Note Pad, because it is a graphics-based program.*

2. Place the cursor where you want data from the next scan to enter.

## STEP 7: SCAN DATA INTO YOUR APPLICATION

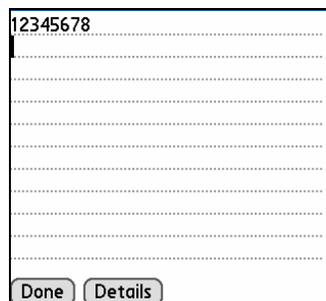
1. Press the trigger button and scan the bar code.



When data is read and transmitted to the host, the scanner beam will turn off. Depending on the settings chosen in the SocketScan Configure screen, the scanner may beep and/or the LED may flash green.

If the Scanner fails to read data within a few seconds, the scanner beam will turn off, and you must try again.

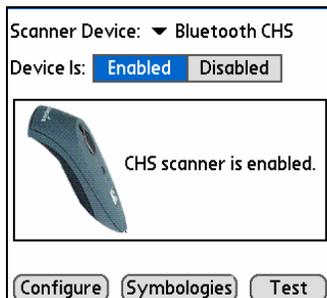
2. After a successful scan, data should appear in your document. For example, after you scan a bar code into a Memo, data should appear in the first line. The default "CR" (carriage return) suffix will advance the cursor to the next line, ready for the next scan.



*Wait for the "Good Scan" indication before you scan another bar code. If you try to scan too fast, the device can lock up until you stop scanning.*

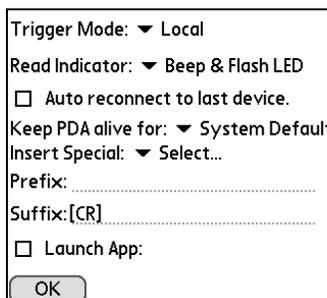
## SCANNER SETTINGS

1. Make sure the main screen of SocketScan reports that the CHS is enabled. Tap **Configure**.



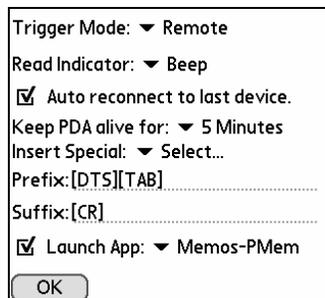
*You can configure prefix/suffixes whether or not the CHS is connected to your device.*

2. The Configure screen will appear. Enter any settings, as desired:



- **Trigger Mode:** Select **Local** to directly trigger the scanner whenever you press the trigger button. Select **Remote** to have the scanner verify a connection to your PDA before it activates the laser.
- **Read Indicator:** Select how you would like the CHS to indicate that data was successfully decoded and transmitted to the PDA.
- **Auto reconnect to last device:** Check to have your PDA automatically connect to the last CHS unit it connected to whenever you tap **Enabled** in the main screen of SocketScan.

- **Keep PDA alive for:** Select how long you would like the PDA to stay alive after the last scan. This feature allows you to scan data for several hours without touching the PDA, as long as you scan at least once before the time limit passes. Select **System Default** to keep your PDA alive for the amount of time set as default in the PDA's system settings.
- **Insert Special:** First tap in the **Prefix** or **Suffix** field to indicate where you would like to enter special data, such as a date stamp, time stamp, tab, etc. Then tap on the Insert Special drop-down menu and select the type of special data to enter.



- **Prefix:** Tap to enter characters you would like appended before scanned data (128 character maximum). Besides special data items, only printable ASCII characters can be used.
- **Suffix:** Tap to enter characters you would like appended after scanned data (128 character maximum). Besides special data items, only printable ASCII characters can be used. The default suffix is a carriage return [CR].
- **Launch App:** Check the box, then use the drop-down menu that appears to select an application that you would like SocketScan to automatically enter data into whenever you press the trigger button. The application will launch only when you are outside of SocketScan (i.e., SocketScan is running in the background).



**TIP**

*If you configured SocketScan to launch an application, whenever you scan data into a document, the data will only be entered after any existing data, no matter where you place the cursor. You will not be able to scan data into the middle of existing data.*

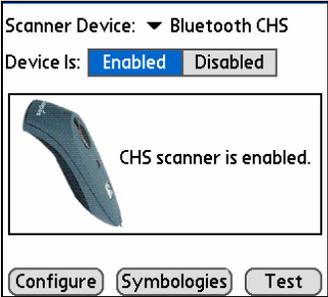
*For example, if you already scanned three lines of data into Memo, the next data you scan will appear on the fourth line, even if you place the cursor on a previous line before scanning.*

3. After entering any settings, tap **OK** to make the changes take effect.

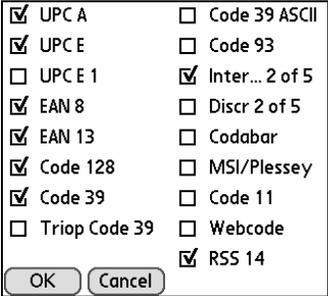
## SYMBOLGY SELECTOR

The feature makes it easy to modify which symbologies you want the scanner to recognize. By default, the scanner is set to recognize eight of the most common symbologies.

1. In the main screen of SocketScan, tap **Symbologies**.



2. In the screen that appears, check the symbologies you wish to enable. Uncheck those you wish to disable. Tap **OK**.

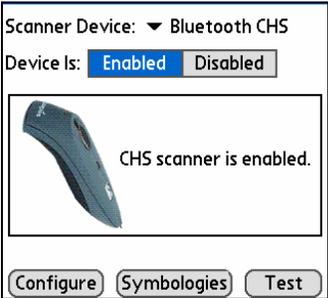


*Enabling all possible symbologies will make the decode process slightly longer.*

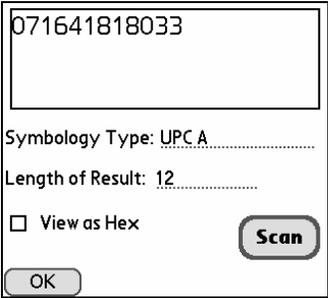
### SCAN TEST

SocketScan includes a Test feature that makes it easy to determine the symbology, number of characters, and decoded data (in either ASCII or Hex) of any bar code supported by the scanner. This is especially useful if you encounter a bar code that the scanner will not decode by default.

- 1. In the main screen of SocketScan, tap **Test**.



- 2. The Test Scan screen will appear. If desired, check the **View as Hex** box to view scanned data in hexadecimal format. Otherwise, data will appear as ASCII.
- 3. Scan the bar code. You can either press the trigger button on the CHS, or press the **Scan** button on the screen. SocketScan will report the properties of the bar code.



- 4. After you complete your testing, tap **OK**.

## 6 | SETUP FOR WINDOWS XP

This chapter explains how to install and use the Cordless Hand Scanner (CHS) with a *Bluetooth* enabled computer running Windows XP or Windows XP Tablet Edition.



Before you begin the instructions in this chapter, make sure you have installed the batteries (and tether, if desired), and charged the scanner, as described in Chapter 2, "Hardware Setup."

### Setup Summary

- STEP 1: Uninstall other scanning software
- STEP 2: Install the software.
- STEP 3: Turn on the CHS.
- STEP 4: Start *Bluetooth* on your computer.
- STEP 5: Configure *Bluetooth* settings.
- STEP 6: Configure scanner settings
- STEP 7: Restart SocketScan.
- STEP 8: Connect computer to CHS.
- STEP 9: Open your application.
- STEP 10: Scan data into your application.

### Application Features

- Scanner settings.
- Advanced *Bluetooth* settings.
- Remote trigger button.
- Symbology selector
- Version information

## **STEP 1: UNINSTALL OTHER SCANNING SOFTWARE**

Delete any bar code scanning software already installed in your computer, including previous versions of SocketScan.

1. Make sure the software is closed.
2. Click **Start | Control Panel | Add or Remove Programs**.
3. Use the utility to delete the software.

## **STEP 2: INSTALL THE SOFTWARE**

You must install SocketScan, but installing Connect!Agent is optional. Connect!Agent is only compatible with the IVT BlueSoleil, Toshiba and Microsoft XP SP2 *Bluetooth* stacks.



### ***Should I install Connect!Agent?***

*Connect!Agent simplifies the Bluetooth setup and connection process. Once the CHS is turned on and SocketScan is running, Connect!Agent will automatically set up and manage the Bluetooth connection. It runs in the background and requires no interaction from the user.*

*ADVANCED USERS: Refer to the README file for CAB installation instructions.*

## Software installation instructions

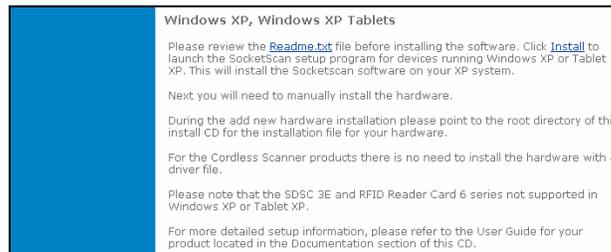
1. Insert the installation CD into your host PC.
2. Use **My Computer** or **Windows Explorer** to access your CD-ROM drive. In the CD, click on SETUP.EXE.



3. The SocketScan Setup Center will appear in your web browser. Read the first page and click **Installation** in the left margin.



4. In the SocketScan Installation page, scroll down to the Windows XP, Windows XP Tablets section and click on the **Install** link there.



5. Your web browser will present a series of dialogs.

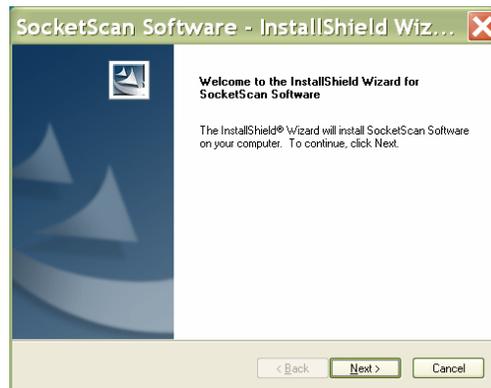
**Internet Explorer:**

- In the File Download –Security Warning dialog, click **Run**.
- In the second warning dialog, click **Run**.
- Internet Explorer will download the file.

**Firefox:**

- In the file opening dialog, click **Save File**.
- Firefox will download the file.
- In the Downloads list, next to SocketScanCE.exe, click **Open**.
- In the warning dialog, click **OK** to continue.

6. The installation wizard will launch. Follow the wizard to install the software.



7. If a screen reports that the product has not passed Windows logo testing, ignore and click **Continue Anyway**.



8. After software installation, icons for **SocketScanXP** and **Socket CS Connect** will appear on your desktop.



9. If desired, install Connect!Agent by returning to the SocketScan Setup Center. In the Installation page, scroll down to the Connect!Agent section for Windows XP and click the **Install** link there. Download and install Connect!Agent just as you did for SocketScan.

### **STEP 3: TURN ON THE CHS**

**Press the small power button for five seconds, until you see the LED turn blue.** The LED should blink blue once per second to show that the *Bluetooth* radio is on but not connected.

### **STEP 4: START *BLUETOOTH* ON YOUR COMPUTER**

1. If you are using an add-on *Bluetooth* card or adapter, plug it into your computer.
2. If you did not install Connect!Agent, turn on the *Bluetooth* radio. Please refer to the documentation that came with your computer's *Bluetooth* hardware for instructions.
3. If you did not install Connect!Agent, start your computer's *Bluetooth* software. Please refer to the documentation that came with your *Bluetooth* software for instructions.

## STEP 5: CONFIGURE *BLUETOOTH* SETTINGS

**Skip this step if you installed Connect!Agent**, which automatically configures the *Bluetooth* settings. Connect!Agent works only with the IVT and Microsoft stacks.

If you will not be using Connect!Agent, follow the appropriate instructions for your *Bluetooth* stack. Configuration is only needed the first time you connect the CHS to your computer.

*SocketScan* supports a generic *Bluetooth* COM port and may be able to connect to *Bluetooth* stacks on host mobile computers other than those listed.

Refer to your *Bluetooth* software documentation for complete instructions.

### **IVT BlueSoleil software:**

1. In BlueSoleil, click **My Bluetooth | Security**. Check the box **Set Default Paskey** and enter the default PIN **1234** in the field below.

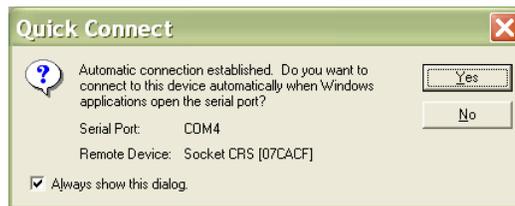


2. Double-click on the red ball to search for the Cordless Hand Scanner, which will appear as **Socket CHS [xxxxxx]**.

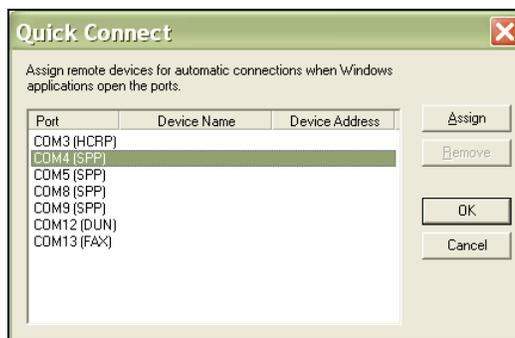


*The characters in brackets are the last 6 characters of the scanner's Bluetooth MAC address.*

3. Double-click on the Socket CHS icon to begin the service discovery. After the Serial Port Service icon is highlighted at the top of the screen, right-click on the Serial Port Service icon and click **Connect**.
4. BlueSoleil will ask whether you want to connect to the CHS automatically when Windows applications open the serial port. Click **Yes**.



5. When the devices connect, the CHS will beep once, and the *Bluetooth* logo in the task tray will turn green.
6. Click **Tools | Configurations | Quick Connect**. Choose a COM port assigned to **SPP** (Serial Port Profile) and click **Assign**. In the next screen, select the CHS and click **OK**. **Remember which COM number you assigned to the CHS** and click **OK**.



**Microsoft Windows XP Service Pack 2:**

1. Use the Add Bluetooth Device Wizard to discover and connect to the CHS. Click on the *Bluetooth* icon in the task tray. In the pop-up menu, click **Add a Bluetooth Device**.



2. During the device discovery, the Cordless Hand Scanner will appear as **Socket CHS [xxxxxx]**



*The characters in brackets are the last 6 characters of the scanner's Bluetooth MAC address.*

3. In the passkey options screen, select the option **Use the passkey found in the documentation** and enter the default PIN **1234**.
4. To indicate the connection, the CHS will beep once.
5. In the last screen of the Add *Bluetooth* Device Wizard, note the COM number of the **Outgoing COM port**.



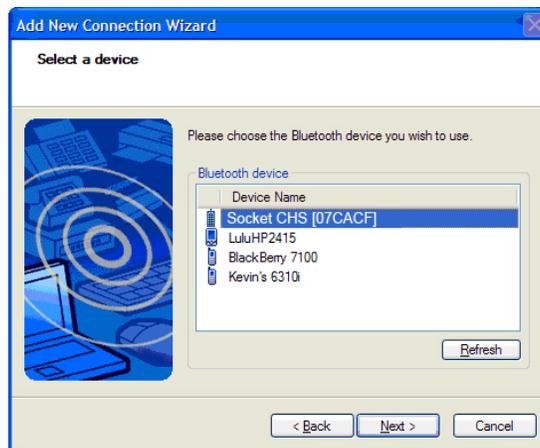
**Toshiba Bluetooth Stack:**

These instructions are based on a Motion Computing tablet.

1. Double-tap on the *Bluetooth* icon at the bottom of your screen.
2. In *Bluetooth* Settings, tap **New Connection** at the bottom of the screen.
3. The Add New Connection Wizard will launch. Select **Custom Mode** and tap **Next**. The tablet will begin searching for *Bluetooth* devices in range.

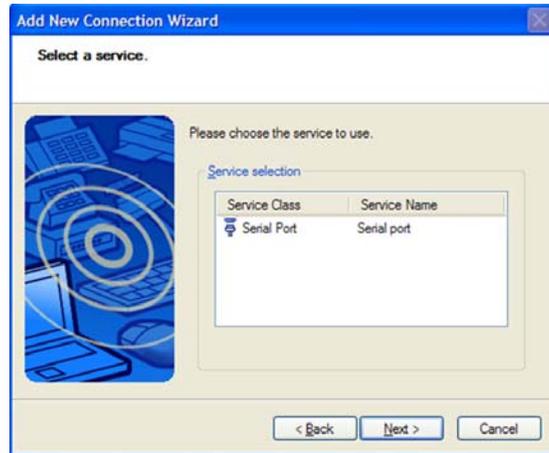


4. In the list of found devices, select **Socket CHS [xxxxxx]**. Tap **Next**.



5. If a passkey is requested, enter the default PIN **1234**. Tap **OK**. To indicate the connection, the CHS will beep once.

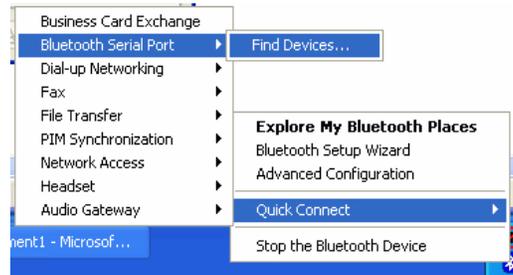
6. In the list of device services, select **Serial Port**. Tap **Next**.



7. Note which COM port is assigned to the CHS.

**Broadcom (Widcomm) Bluetooth Stack:**

1. Perform a Quick Connect to a *Bluetooth* Serial Port. Click the *Bluetooth* icon in the task tray. Click **Quick Connect | Bluetooth Serial Port | Find Devices**.



*It is essential to connect to the CHS via Quick Connect because this sets the CHS as your default Bluetooth serial device.*

2. During the device search, the CHS will appear as **Socket CHS [xxxxxx]**

*The characters in brackets are the last 6 characters of the scanner's Bluetooth MAC address.*

3. If a passkey is requested, enter **1234**. To indicate the connection, the CHS will beep once.

*By default, the Bluetooth software will ask you for the passkey each time you connect.*

*To stop the automatic prompts, under Advanced Configuration, disable the Secure Connection requirement for both the Local Service and Client Application, then unpair the devices. Refer to the documentation for your Bluetooth hardware/software for complete instructions.*

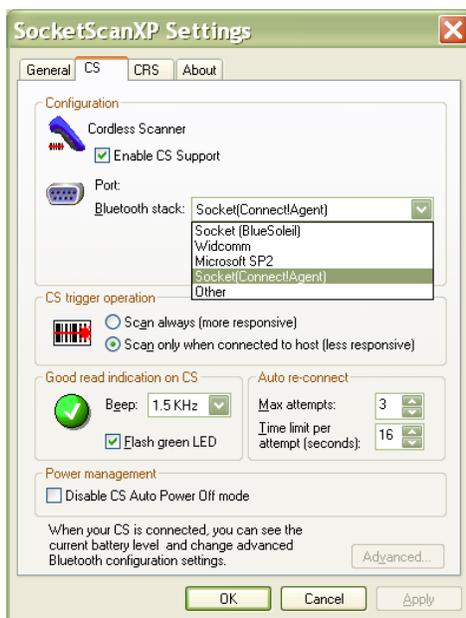
## STEP 6: CONFIGURE SCANNER SETTINGS

1. Click the SocketScan icon  at the bottom of the screen. In the pop-up menu, click **Settings**.



*If the icon does not appear, click Start | Control Panel | SocketScanXP Settings.*

2. Tap on the **CS** tab. Enter the following settings:



- **Enable CS support:** Check this box. **IMPORTANT!!!**
- **Enable ActivePairing:** This feature is not compatible with the CHS. Do not check the box.
- **Bluetooth stack:** Select **Socket (Connect!Agent)** if you want to use it. Otherwise, select your computer's *Bluetooth* stack. The Connect!Agent option will only appear if you installed the Connect!Agent software.

- **COM Port:** Select the COM port number assigned to the CHS. This field will only appear for some *Bluetooth* stacks.
  - **CS trigger operation:** Select whether you want the CHS to scan only when a *Bluetooth* connection to the device is detected. If you select
  - **Scan only when connected to host,** scanning will be a few milliseconds slower.
  - **Good read indication on CS:** Select how you would like the CHS to indicate that it has successfully read data.
  - **Auto re-connect:** Select the maximum number of attempts and time limit per attempt for the CHS to try to reconnect to your computer in case they are moved out of range from each other.
  - **Battery Level:** No progress bar should appear since you are not connected to the CHS.
  - **Power management:** The CHS automatically shuts off if there is no *Bluetooth* connection for 20 minutes. Check to disable.
  - **Advanced:** When the computer is connected to the CHS, you can modify the *Bluetooth* friendly name and security settings of the CHS.
3. After entering settings, click **OK** to save the changes.
  4. If SocketScan is open, you will be prompted to exit and restart SocketScan. Click **OK**. Click on the SocketScan icon at the bottom of your screen and in the pop-up menu, click **Exit**.

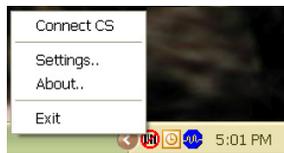
## STEP 7: RESTART SOCKETSCAN

Double-click on the SocketScanXP icon on your desktop.



## STEP 8: CONNECT COMPUTER TO CHS

1. Right-click the SocketScan icon at the bottom of the screen and click **Connect CS**.



*If you installed Connect!Agent, it will automatically open the Bluetooth software and turn on the Bluetooth radio.*

*After you configure the correct Bluetooth hardware settings in SocketScan, the **Connect CS** menu option allows you to connect to the CHS directly from SocketScan, instead of manually connecting via your Bluetooth software.*

*The **Connect CS** option will not appear unless you checked the box **Enable CS Support** in the SocketScanXP settings.*

*SocketScan cannot connect to the CHS if another device is assigned as your favorite/default Bluetooth serial device.*

2. If you are using Connect!Agent, and this is your first time connecting, Connect!Agent will automatically begin searching for the CHS. After it finds the CHS, it will automatically configure the connection.



3. SocketScan will connect the computer to the CHS, indicated by a beep and a status balloon.

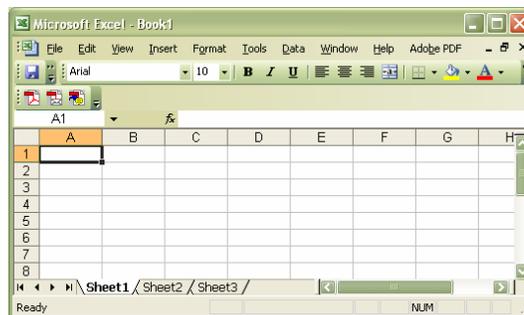


4. The task tray icon at the bottom of your screen will change to an image of a scanner to indicate that SocketScan is connected to the CHS.



## STEP 9: OPEN YOUR APPLICATION

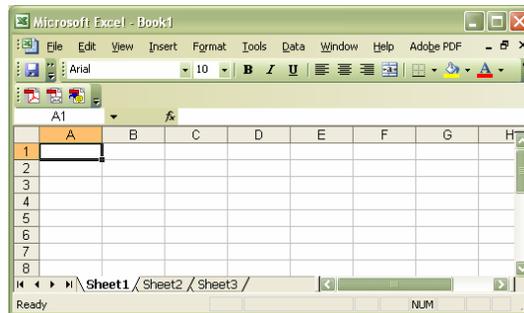
1. Start the application that you want SocketScan to feed scanned data into (e.g., Excel, Notepad, etc.). Make sure a document or spreadsheet is open.



2. Place the cursor where you want data from the next scan to be entered.

## STEP 10: SCAN DATA INTO YOUR APPLICATION

1. Start the Windows application that you want to enter scanned data into (e.g., Excel, Notepad, etc.). Make sure a document or spreadsheet is open.

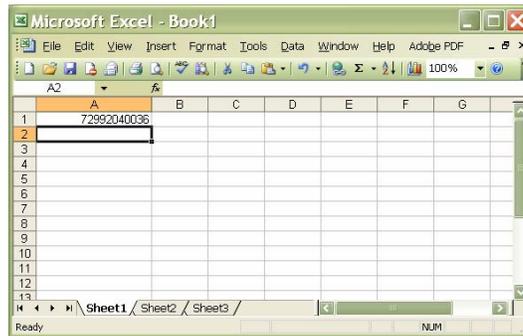


2. Place the cursor where you want data from the next scan to be entered.
3. Press the trigger button and aim your finger at the bar code. The red scanner beam should cover the entire width of the bar code. See Chapter 1 for scanning tips.



*When data is read and sent to the mobile computing device, the scanner beam will turn off. Depending on your scanner settings, the scanner may beep and/or the CHS LED may flash green to indicate a good read. If no data is read in a few seconds, the laser will turn off, and you must try again.*

4. After a successful scan, data should appear in your document. By default, the cursor automatically advances to the next cell or line, ready for the next scan.



*Wait for the "Good Scan" indication before you scan another bar code. If you try to scan too fast, the device can lock up until you stop scanning.*

### **SocketScan Auto-Reconnect**

If your computer suspends or the CHS is moved out of range, the connection will be lost. After the computer turns on again or returns in range, SocketScan will try to re-connect according to the "auto re-connect" settings you chose in SocketScan.



After the time limit for re-connection attempts has passed, you can click on the Socket CS Connect icon on the desktop to manually initiate re-connection.



### **DISCONNECTING**

To disconnect, click on the SocketScan icon. In the menu, click **Disconnect CS**.

### **Turning off the CHS**

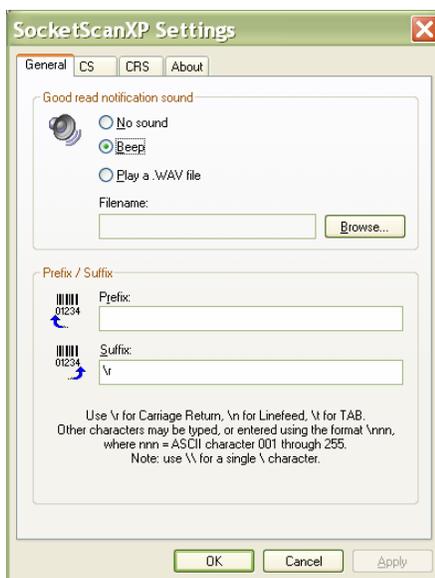
To turn off the CHS, press the power button for at least 2 seconds, until the LED stops blinking.

## SCANNER SETTINGS



You can configure these settings whether or not the CHS is connected to your computer.

1. In SocketScanXP Settings, click on the **General** tab.



2. Adjust any settings as desired:

### **Good read notification sound:**

Select which sound you want your computer to use to indicate good readings of data. By default, your computer will beep. If you would like your computer to play a .WAV file, select **Play a .WAV file** and click **Browse** to indicate the file location.

### **Prefix/Suffix:**

Enter any prefixes and/or suffixes you would like SocketScan to automatically add to scanned data (128 character max., printable ASCII characters only). By default, SocketScan will enter a carriage return after every data scan.

3. After adjusting any settings, click **OK**. As prompted, exit and restart SocketScanXP to have your changes take effect.

## ADVANCED BLUETOOTH SETTINGS

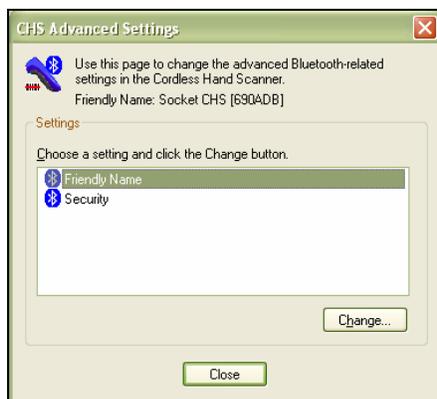
The SocketScanXP utility enables you configure advanced *Bluetooth* settings of the CHS, including the Bluetooth friendly name and security settings.

1. In SocketScanXP Settings, click on the **CS** tab.



*The **Trigger** and **Barcodes** tabs will only appear if you are connected to the CHS.*

2. At the bottom of the CS screen, the CHS battery level will be indicated by a status bar. Click **Advanced**.
3. The CHS Advanced Settings screen will appear, reporting the current *Bluetooth* friendly name assigned to the CHS.
4. If desired, select **Friendly Name** or **Security** and click **Change**.



5. In the screen that appears, enter any changes and click **OK**.

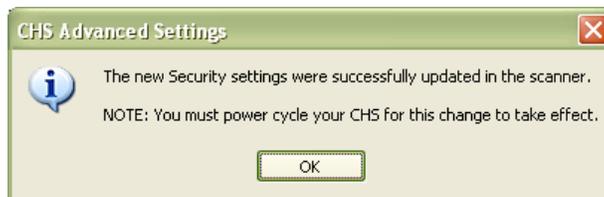
**CHS Friendly Name:** Enter a new friendly name and click **OK**.



**CHS Security Settings:** Enter a PIN code and/or any authentication or encryption settings. If desired, click **Delete Bonding** to delete any bonding/pairing information in the CHS. After making any changes, click **OK**.



6. If you modified any security settings, you will be prompted to turn your CHS off and back on to make the changes take effect. Read the message and click **OK**. Turn the CHS off and back on again.



7. When you return to the CHS Advanced Settings screen, click **Close**.
8. In the SocketScanXP Settings screen, click **OK**.
9. Exit and restart SocketScanXP to have your changes take effect.

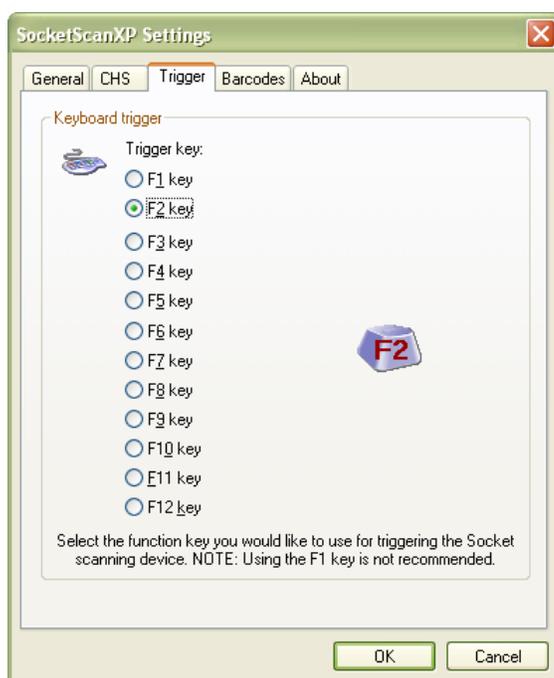
## REMOTE TRIGGER BUTTON

The SocketScanXP utility enables you to assign one of your computer's function keys to trigger the CHS.

1. In SocketScanXP Settings, click on the **Trigger** tab.



*The **Trigger** and **Barcodes** tabs will only appear if you are connected to the CHS.*



2. Select the function key you would like to use as a trigger key. Click **OK**.
3. As prompted, exit and restart SocketScanXP to have your changes take effect.

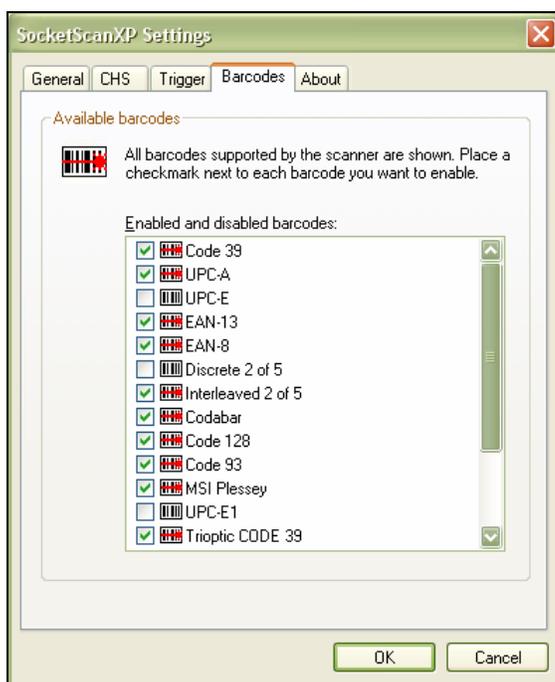
## SYMBOLGY SELECTOR

The SocketScanXP utility makes it easy to modify which symbologies you want the scanner to recognize and decode.

1. In SocketScanXP Settings, click on the **Barcodes** tab.



*The **Trigger** and **Barcodes** tabs will only appear if you are connected to the CHS.*



2. Check the symbologies you wish to enable. Uncheck those you wish to disable. Click **OK**.



*Enabling all possible symbologies will make the decode process slightly longer.*

3. As prompted, exit and restart SocketScanXP to have your changes take effect.

## VERSION INFORMATION

1. In SocketScanXP Settings, click on the **About** tab.



2. View the SocketScan software version information. If the computer is connected to a CHS, the control panel applet (CPL) and CHS firmware version information will also be displayed. Click **OK**.



*To view the SocketScan software version, click on the SocketScan icon and in the menu, click About.*

# APPENDIX A

## SPECIFICATIONS

### **Physical Characteristics**

Size: 125l x 31h x 35w (mm) 4.9l x 1.2h x 1.4w (in.)

Total Mass: approx. 90 g (0.2 lb)

Power Source: Two AAA NiMH rechargeable batteries  
Expected Battery Life with Normal Operation (connected via  
Bluetooth and minimum 2,000 bar code scans): 8 hours

Operating Temp: 32 to 120°F (0 to 50°C)

### **Operating System Support:**

- Windows Mobile 2003, 2003SE, 5.0
- Windows CE.NET for the Intermec CK30
- Windows XP, XP Tablet Edition
- Palm OS 5.2 and later

For information about using the CHS with Symbian OS, please visit: [www.socketmobile.com/products/bar-code-scanning-data-collection/series7/](http://www.socketmobile.com/products/bar-code-scanning-data-collection/series7/)

### **2005 Sunrise Date Compliant**

### **Scanning Characteristics**

Bar Code Symbolologies Decoded:

CHS 7E: Code 39, UPC/EAN/JAN, MSI, Code 128, Code 93, Codabar, I 2 of 5, D 2 of 5

CHS 7M/7P: Code 39, UPC/EAN/JAN, MSI, Code 128, Code 93, Codabar, I 2 of 5, D 2 of 5, RSS-14, RSS Limited/Expanded Stacked, Chinese 2 of 5

Scanner Type:

CHS 7E: CMOS linear imager

CHS 7M: Class 1 laser

CHS 7P: Class 2 laser

Laser Scan Angle: 46.5°

**Laser Scanner Performance:**

*Scan Repetition Rate:* 100 scans/sec (bi-directional)

*Decode Distance* (depends on symbol size, symbology, label media, W-N Ratio, scan angle)

CHS 7E: 2.2 to 24 inches typical

CHS 7M: 1.00 to 35.00 inches typical

CHS 7P: 1.00 to 45.00 inches typical

**Bluetooth Characteristics**

*Protocol:* Bluetooth 2.45 GHz ISM band frequency hopping

*Antenna:* Integrated

*Radio Range:* Up to 330 ft (100 m), depending on environment

*Connection:* Point-to-point    *Security:* Encrypted link

*RF Power:* Class 1 radio; Typical Output: 12 dbm

**Bluetooth Stack Support**

- Socket Mobile Drakar 1.4
- Broadcom (Widcomm) 1.5 or greater for Windows Mobile 2003/2003SE
- Broadcom (Widcomm) 1.7 or greater for Windows Mobile 5.0
- Broadcom (Widcomm) *Bluetooth* stack for Windows XP
- IVT BlueSoleil 1.6.1.4 or greater
- Microsoft *Bluetooth* stack for Windows Mobile
- Microsoft Windows XP SP 2
- Palm *Bluetooth* Stack
- Toshiba *Bluetooth* stack 3.0 or greater

**Certification/Compliance**

FCC: Part 15, Class B    CE: EN55024:1998

C-TICK: s.182    *Bluetooth* 1.1

TELEC    *Bluetooth* QD ID B0164000

ETS 300 328    ETS 300 826

**About Bluetooth Range**

The Cordless Hand Scanner features a powerful Class 1 *Bluetooth* radio to provide the maximum possible range. As with all wireless technologies, the connection range can vary widely depending on many factors such as the brand and placement of the host device, the type and size of physical obstacles and the presence and activity level of competing radio transmissions.

In range testing of the CHS while connected to a variety of typical host devices with Class 2 radios, functional connection

distances from 18 to over 100 feet have been experienced depending on the environment. The following conditions appear to reduce the *Bluetooth* connection range:

- The presence of soft, absorbent materials such as paper, fiberglass insulation, foam material in office cubical walls, carpeting and, to a lesser extent, even sheetrock and wood construction materials. Hard materials such as concrete increase the range.
- Human bodies or containers of liquid positioned between the host and the CHS.
- The presence and activity level of competing *Bluetooth* or 802.11 (Wi-Fi) systems using the same 2.4 GHz frequency.
- Metal in a grid pattern, such as chain link fencing or chicken wire. This type of material may block the *Bluetooth* (or Wi-Fi) signal completely.

## APPENDIX B

# SAFETY AND USAGE TIPS

### ***About Bluetooth and Health***

*Bluetooth* wireless technology allows you to use short-range radio signals to connect a variety of devices, such as bar code scanners, mobile phones, Pocket PCs, notebook computers, printers, LAN access points, and many other devices at home or work. These radio signals replace the cables that have traditionally connected these devices.

*Bluetooth* products have small radio transmitters and receivers. Output power is normally very low, only 15.75 mW. This gives a working range of approximately 10 meters.

The maximum exposure levels from *Bluetooth* products are far below recommended safety guidelines. At most, typical *Bluetooth* devices (15.75 mW) reach only one percent of the prescribed safety levels.

### ***Product Care***

- Do not expose your product to liquid, moisture or extreme humidity.
- Do not expose your product to extreme high or low temperatures.
- Do not expose your product to lit candles, cigarettes, or cigars, or to open flames, etc.
- Do not drop, throw or try to bend the product, as rough treatment could damage it.
- Do not paint your product, as the paint could obstruct parts and prevent normal use.
- Do not attempt to disassemble your product: a broken warranty seal will void the warranty. The product does not contain consumer serviceable components. Should your CHS need service, please contact Socket Mobile technical support at: [www.socketmobile.com/support/support/new](http://www.socketmobile.com/support/support/new)
- Treat your product with care. Keep in a clean and dust-free place.

- Changes or modifications of this product, not expressly approved by Socket Mobile, may void the user's authority to operate the equipment.

**Antenna Care**

Do not place a metallic shield around the Cordless Hand Scanner since it will reduce the radio transmission efficiency.

**Efficient Use**

For optimum performance, please make sure that there is no metal surrounding your Cordless Hand Scanner.

**Driving**

RF energy may affect some electronic systems in motor vehicles, such as car stereo, safety equipment, etc. Check with your vehicle manufacturer to be sure that the Cordless Hand Scanner will not affect the vehicle's electronics.

**Aircraft**

- Turn off your Cordless Hand Scanner before boarding any aircraft.
- To prevent interference with communications systems, you must not use your Cordless Hand Scanner while the plane is in the air.
- Do not use it on the ground without permission from the crew.

**Radio Frequency Exposure**

Your Cordless Hand Scanner contains a radio transmitter and receiver. When in operation, it communicates with a *Bluetooth* enabled mobile computer by receiving and transmitting radio frequency (RF) magnetic fields in the frequency range 2400 to 2483.5 MHz. The output power of the radio transmitter is 15.75 mW. The Cordless Hand Scanner is designed to be in compliance with the RF exposure limits set by national authorities and international health agencies<sup>1</sup> when installed or used separately from other antennas or radio transmitters.

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<sup>1</sup> Examples of RF exposure standards and guidelines:

ICNIRP, "Guidelines for limiting exposure to time-varying electric, magnetic, and electromagnetic fields (up to 300 GHz)", International Commission on Non-Ionizing Radiation Protection (ICNIRP), Health Physics, vol. 74, pp 494-533, April 1998.

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99/519/EC, EU Council Recommendation on the limitation of exposure to the general public to electromagnetic fields 0 Hz – 300 GHz, Official Journal of the European Communities, July 12, 1999.

ANSI/IEEE C95.1-1992, “Safety levels with respect to human exposure to radio frequency electromagnetic fields, 3 kHz to 300 GHz”, The Institute of Electrical and Electronics Engineers, Inc., New York, 1991.

FCC Report and Order, ET Docket 93-62, FCC 96-326, Federal Communications Commission (FCC), August 1996.

Radiocommunications (Electromagnetic Radiation Human Exposure) Standard 1999, Australian Communications Authority (ACA), May 1999.

# APPENDIX C

## BAR CODE LABEL SPECIFICATIONS

All bar code symbols/labels should satisfy the appropriate AIM Uniform Symbology Specification.

### **Background Substrate:**

The bar code symbol should be printed on material (media) that is reflective and has a matte (not glossy) finish. A background diffuse reflectance of at least 70% to 80% is desirable for optimum contrast. Retro-reflective media should be used to obtain decode distances greater than 36 inches.

### **Ink Color and Type:**

The inked bars should not exceed 25% reflectance at the wavelength that is being used for reading, whether printed with black ink or colored ink. The reflectance value should not vary more than 5% within the same character.

### **Voids and Specks:**

The code should be printed clearly, free of voids, specks, blemishes and lines that could "fool" the scanner. Specks or blemishes in the white spaces, or false or missing bar sections could be interpreted by the reading equipment as part of the code. Generally, the width of such flaws is more serious than the height. Code symbols/ labels should be rejected if these defects are present.

### **Definition:**

The bars in the bar code symbol should be well defined. Their edges should not be rough or fuzzy, so that the bars and spaces have the proper widths intended for the bar code symbology used.

### **Contrast:**

Background reflectance (that of the substrate on which the codes are printed) should always provide a good contrast relative to the ink reflectance (that of the code bars). The difference between the two should be at least 37.5% at the wavelength used for reading.

**Tolerance:**

The ratio of the widths of bars and spaces in a bar code symbol must conform to the appropriate AIM bar code specifications and can cause problems if not correct throughout the bar code. Problems can occur when bar edges are smeared or rough, or when they exhibit voids.

## APPENDIX D

# ENABLING OR DISABLING SYMBOLOGIES

The CHS is pre-set to automatically detect and decode (auto-discriminate) the most common bar code symbologies. To enable or disable symbologies, use the SocketScan Symbology Selector.

Notes:

- The length of some symbologies will change after Symbology Selector is used. See Table 1.
- Enabling more symbologies will make the scanner work harder to search through more possible combinations, making the decoding process slightly longer.
- The advanced symbology parameters listed in Table 2 can only be modified with the SocketScan Advanced Programming Guide or SocketScan SDK. Check the Socket Mobile website for updates.

Table 1. Default Symbologies

Symbology	Scanner Default	Default Length	Length after Symbology Selector
<b>UPC/EAN/JAN</b>			
UPC-A	Enabled	N/A	N/A
UPC-E	Enabled	N/A	N/A
UPC-E1	Disabled	N/A	N/A
EAN-8	Enabled	N/A	N/A
EAN-13	Enabled	N/A	N/A
<b>Code 128 (USS-128 &amp; UCC/EAN 128)</b>	Enabled	Any	Any
<b>Code 39*</b>			
Code 39	Enabled	2 to 23	2 to 55
Trioptic Code 39	Enabled	2 to 23	2 to 55
Code 39 Full ASCII	Disabled	2 to 23	2 to 55
<b>Code 93</b>	Disabled	2 to 38	2 to 55
<b>Interleaved 2 of 5*</b>	Enabled	14 Only	2 to 55
<b>Discrete 2 of 5*</b>	Disabled	12 Only	2 to 55
<b>Codabar</b>	Disabled	5 to 55	2 to 55
<b>MSI Plessey*</b>	Disabled	1 to 30	2 to 55
<b>RSS-14 (Standard, Limited, Expanded)</b>	Disabled	N/A	N/A

\*Warning: Setting the length to "Any" may lead to inaccurate decodes of these symbologies.

Table 2. Other Symbology Parameters

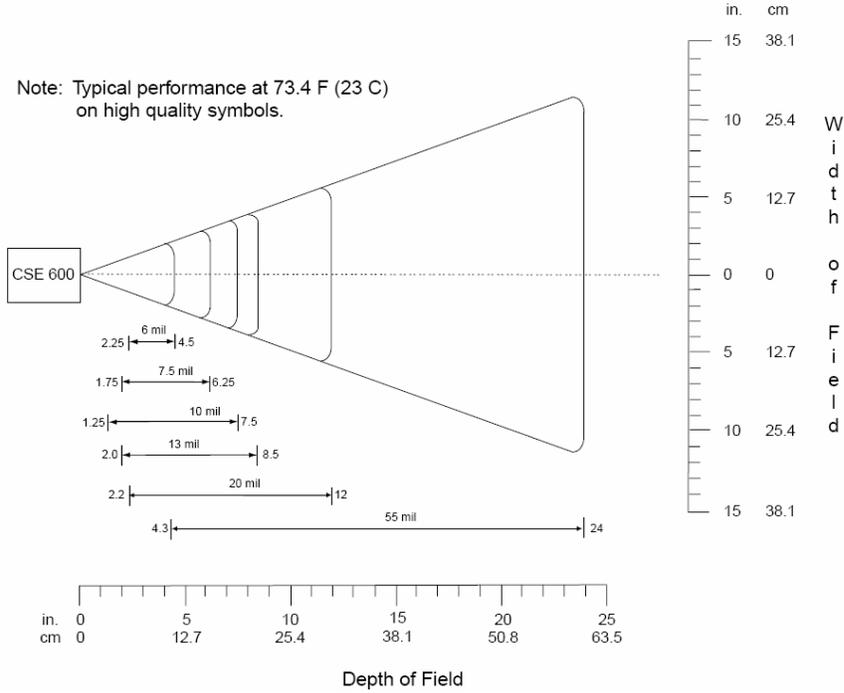
Symbology Parameters	Scanner Default
<b>UPC/EAN/JAN</b>	
Supplementals	Disabled
Transmit Check Digit	Enabled
Bookland EAN	Disabled
Decode UPC/EAN Supplementals	Ignore
UPC/EAN Supplemental Redundancy	Seven
Transmit UPC-A Check Digit	Enabled
Transmit UPC-E Check Digit	Enabled
Transmit UPC-E1 Check Digit	Enabled
Convert UPC-E to A	Disabled
Convert UPC-E1 to A	Disabled
EAN-8 Zero Extend	Disabled
UPC/EAN Security Level	0
UPC/EAN Coupon Code	Disabled
<b>Code 39</b>	
Convert Code 39 to Code 32	Disabled
Code 32 Prefix	Disabled
Check Digit Verification	Disabled
Transmit Check Digit	Disabled
Code 39 Full ASCII	Disabled
<b>Interleaved 2 of 5</b>	
Check Digit Verification	Disabled
Transmit Check Digit	Disabled
Convert I 2 of 5 to EAN-13	Disabled
<b>RSS-14</b>	
RSS-14 Limited	Disabled
RSS-14 Expanded	Disabled

# APPENDIX E

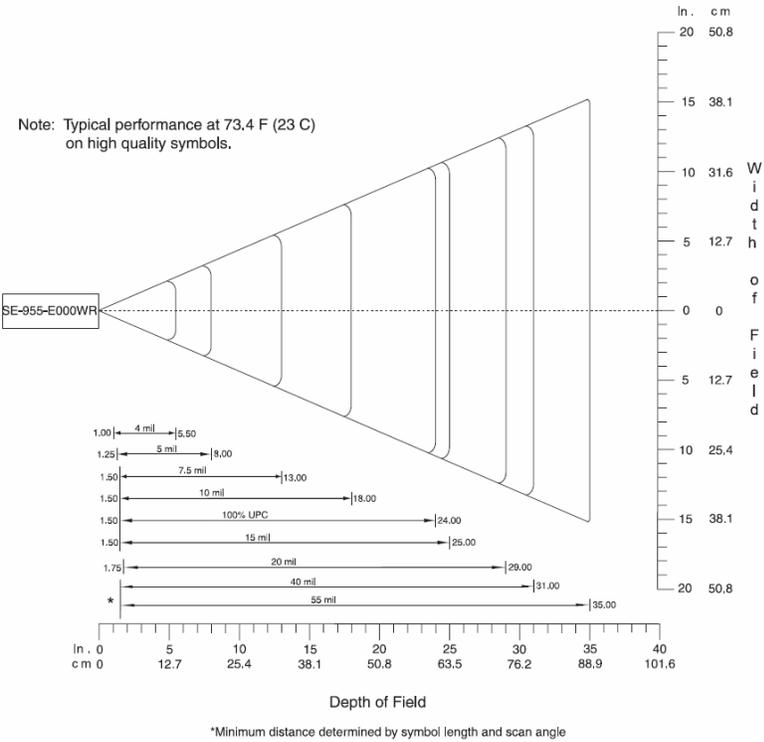
## DECODE ZONE

The decode zones for the Cordless Hand Scanner are shown below. The minimum element width ("X Dimension" or bar code "size") is the width in thousandths of an inch (mils) of the narrowest element (bar or space) in the symbol. The figures shown are the typical scanning distances (depths of field) for selected bar code sizes. The maximum usable length of a bar code symbol (Width of Field) at any given range is also shown.

### CHS 7E

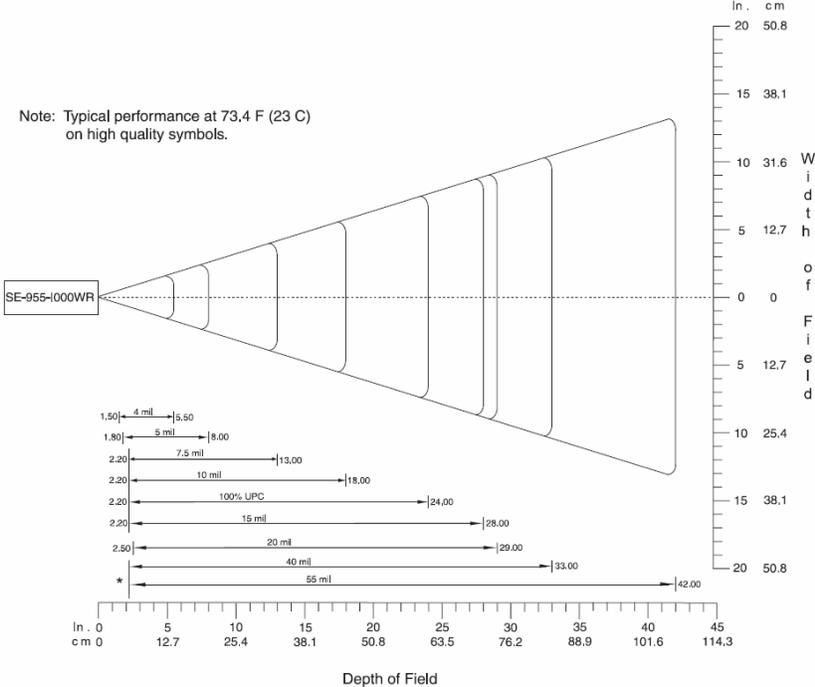


# CHS 7M



# CHS 7P

Note: Typical performance at 73.4 F (23 C) on high quality symbols.



\*Minimum distance determined by symbol length and scan angle

## APPENDIX F

# TROUBLESHOOTING

For help on SocketScan, tap **Start | Help** on a Pocket PC, or tap on the  icon on a Palm device.

**SYMPTOM:** *I get the “No Scanner Detected”  icon in the task tray of my Windows-based mobile computer and can’t trigger the laser or scan any bar codes.*

POSSIBLE REASON	SOLUTION
Your mobile computer is not connected to the Cordless Hand Scanner.	Make sure the Cordless Hand Scanner is on and in range and has enough battery power. Try to reconnect.

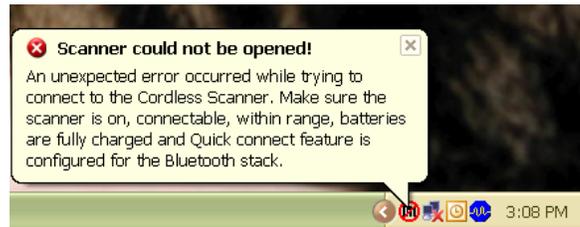
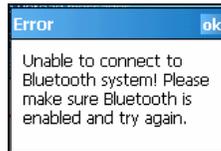
**SYMPTOM:** *When I try to scan, the laser activates, but no data appears on my screen, and the laser eventually turns off.*

POSSIBLE REASON	SOLUTION
The scanner is too close or too far from the bar code.	Practice so you get accustomed the most effective distance and scanning angle.
The bar code is incorrectly formatted or poorly printed.	Try scanning a bar code that is correctly formatted or printed well, such as on a retail package.
The bar code symbology may be disabled or not supported by the Cordless Hand Scanner.	Use Scan Demo for Windows Mobile or the Test screen for Palm OS to identify the symbology. If needed, enable the symbology by using Symbology Selector for Windows Mobile or the Symbology screen for Palm OS.
You don’t have an application open to scan data into.	Open an application, such as Excel, and place the cursor where you want scanned data to go. Try scanning again.

**SYMPTOM:** When I scan a lot of bar codes very fast, the scanner locks up and won't work for a few seconds.

POSSIBLE REASONS	SOLUTION
You are scanning too fast for the Error Proof Protocol to confirm that the mobile computer has successfully received each scan of data.	Wait for the confirmation beep after each scan before you scan a new bar code. You may need to re-scan data that was not correctly received by the mobile computer.

**SYMPTOM:** My mobile computer cannot find the Cordless Hand Scanner, and/or I get an error message saying that there are connection problems.



POSSIBLE REASONS	SOLUTION
You are too far from the Cordless Hand Scanner.	Move the devices closer together, within a range of 10-15 meters.
The Cordless Hand Scanner is not turned on.	Turn on the Cordless Hand Scanner.
You have assigned another device as your favorite or default <i>Bluetooth</i> serial device.	Remove any settings that assign another device as your favorite <i>Bluetooth</i> serial device.
You are using an XP system without Connect!Agent, and you did not start the <i>Bluetooth</i> software.	Start the <i>Bluetooth</i> software.
The <i>Bluetooth</i> radio of your mobile computer is not turned on.	Turn on the <i>Bluetooth</i> radio of your mobile computer.

**SYMPTOM:** While scanning with the CHS, I turned off the Pocket PC, or my Pocket PC entered suspend mode. Now my Pocket PC won't turn on again.

POSSIBLE REASONS	SOLUTION
This is a known problem with the Widcomm stack (built into HP h221X iPAQ Pocket PCs with ROM version 1.00).	Soft reset the Pocket PC by pressing the reset button.

**SYMPTOM:** My Pocket PC shows an error message saying that there are insufficient device resources.

POSSIBLE REASONS	SOLUTION
Some HP iPAQ Pocket PCs are not compatible with the Cordless Hand Scanner.	The CHS will not work with your Pocket PC at this time.

**SYMPTOM:** Connect!Agent has found multiple CHS devices, and I don't know which one to choose.



POSSIBLE REASONS	SOLUTION
This is your first time using Connect!Agent to connect to a CHS, and Connect!Agent has found multiple CHS devices using the default name.	Turn off the CHS device(s) you do not want to connect to. Tap <b>Refresh</b> . Connect!Agent will connect to and save information about your CHS to exclusively connect to it in the future. If you are using SocketScan XP, you can use the SocketScan settings utility to change the <i>Bluetooth</i> friendly name of your CHS.

**SYMPTOM:** *While scanning with the CHS, I turned off the Pocket PC, or my Pocket PC entered suspend mode. Now the CHS won't reconnect to my Pocket PC.*

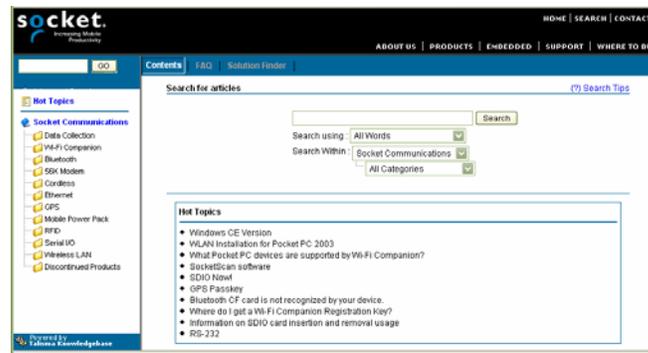
<b>POSSIBLE REASONS</b>	<b>SOLUTION</b>
There is a problem with the Widcomm stack on some Pocket PCs where the CHS can be discovered but fails to communicate. Affected units include the HP iPAQ models h221X with ROM version 1.10 and h1945.	Soft reset the Pocket PC by pressing the reset button.

# APPENDIX G

## TECHNICAL SUPPORT

### Socket Mobile Online Support (SOS)

SOS is a virtual technical support assistant that can help you with your product support questions or FAQs. SOS responds immediately to your inquiry, and no product registration is required to use the system.



To access SOS, please visit: [www.socketmobile.com/support/faq/](http://www.socketmobile.com/support/faq/)

### Technical Support

If you have trouble installing or using the CHS, contact the Socket Mobile technical support department for assistance.

***IMPORTANT! To obtain technical support, you must first register your product online at [www.socketmobile.com/support/support/new](http://www.socketmobile.com/support/support/new)***

After you register your product, log in and click on the **Technical Support** tab. Click **Create New Ticket** to submit an online request for technical support. Afterwards, you can log in anytime to monitor the status of your request. If we are unable to resolve your support inquiry online, we can arrange for a technical support representative to call you at a specific time.

## LIMITED WARRANTY

Socket Communications Incorporated dba Socket Mobile Incorporated (Socket Mobile) warrants this product against defects in material and workmanship, under normal use and service, for one (1) year from the date of purchase.

*EXCLUDES: Consumables such as batteries, removable cables, cases, straps, chargers, and CF-to-PC Card adapters (90 day coverage only)*

An extended warranty is available separately for the Cordless Hand Scanner. For more information, please visit:  
[www.socketmobile.com/support](http://www.socketmobile.com/support)

Incompatibility is not a defect covered by the Socket Mobile warranty. During the warranty period, Socket Mobile will, at its option, repair or replace the defective product at no charge when furnished with proof of retail purchase, provided that you deliver the product to Socket Mobile or to an authorized Socket Mobile Service Center.

The returned product must be accompanied by a return material authorization (RMA) number issued by Socket Mobile or by a Socket Mobile Service Center. If you ship the product, you must use the original container or equivalent and you must pay the shipping charges to Socket Mobile. Socket Mobile will pay surface shipping charges back to any location in the contiguous United States. This warranty applies only to the original retail purchaser and is not transferable.

Socket Mobile may, at its option, replace or repair the product with new or reconditioned parts and the returned product becomes property of Socket Mobile. Socket Mobile warrants the repaired or replaced products to be free from defects in material or workmanship for ninety (90) days after the return shipping date, or for the remainder of the original warranty period, whichever is greater.

This warranty does not cover the replacement of products damaged by abuse, accident, misuse or misapplication, nor as a result of service or modification other than by Socket Mobile. This warranty is void if you install batteries into the product that were not supplied by Socket Mobile.

SOCKET MOBILE IS NOT RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM BREACH OF ANY EXPRESS OR IMPLIED WARRANTY, INCLUDING DAMAGE TO PROPERTY AND, TO THE EXTENT PERMITTED BY LAW, DAMAGES FOR PERSONAL INJURY. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Some states do not allow limitation of implied warranties, or the exclusion or limitation of incidental or consequential damages, so that the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

This product may contain fully tested, recycled parts, warranted as if new.

For warranty information, please visit: [www.socketmobile.com/support](http://www.socketmobile.com/support)

### **DISCLAIMER**

EXCEPT TO THE EXTENT EXPRESSLY WARRANTED BY SOCKET COMMUNICATIONS, INC, DBA SOCKET MOBILE, INC, THIS PRODUCT IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. EXCEPT TO THE EXTENT REQUIRED BY LAW, SOCKET MOBILE DOES NOT ASSUME ANY PRODUCT LIABILITY ARISING OUT OF, OR IN CONNECTION WITH, THE APPLICATION OR USE OF ANY PRODUCT OR APPLICATION DESCRIBED HEREIN.

## **LIMITED SOFTWARE WARRANTY**

**LIMITED WARRANTY.** SOCKET MOBILE warrants that the original disk or CD ROM is free from defects for 90 days from the date of delivery of the SOFTWARE.

**CUSTOMER REMEDIES.** SOCKET MOBILE'S entire liability and your exclusive remedy shall be, at SOCKET MOBILE'S option, either (a) return of the price paid or (b) replacement of the SOFTWARE which does not meet SOCKET MOBILE'S Limited Warranty and which is returned to SOCKET MOBILE with a copy of your receipt. Any replacement SOFTWARE will be warranted for the remainder of the original warranty period or 30 days, whichever is longer. THESE REMEDIES ARE NOT AVAILABLE OUTSIDE OF THE UNITED STATES OF AMERICA.

**NO OTHER WARRANTIES.** SOCKET MOBILE disclaims all other warranties, either express or implied, including but not limited to implied warranties of merchantability and fitness for a particular purpose, with respect to the SOFTWARE and the accompanying written materials. This limited warranty gives you specific legal rights. You may have others which vary from state to state.

**NO LIABILITY FOR CONSEQUENTIAL DAMAGES.** In no event shall SOCKET MOBILE or its suppliers be liable for any damages whatsoever (including, without limitation, damages for loss of business profits, business interruption, loss of business information, or other pecuniary loss) arising out of the use of or inability to use the SOFTWARE, even if SOCKET MOBILE has been advised of the possibility of such damages. Because some states do not allow the exclusion or limitation of liability for consequential or incidental damages, the above limitation may not apply to you.

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**GOVERNMENT END USERS.** If the SOFTWARE is supplied to the U. S. Government, the SOFTWARE is classified as "restricted computer software" as defined in clause 52.227-19 of the FAR. The U. S.

Government 's rights to the SOFTWARE are as provided in clause 52.227-19 of the FAR.

**CONTROLLING LAW AND SEVERABILITY.** This License shall be governed by the laws of the United States and the State of California. If for any reason a court of competent jurisdiction finds any provision, or portion thereof, to be unenforceable, the remainder of this License shall continue in full force and effect.

## **REGULATORY COMPLIANCE**

The Socket Mobile Cordless Hand Scanner is designed to be compliant with the rules and regulations in locations where they are sold and will be labeled as required. This product is type approved — users are not required to obtain license or authorization before using.

This product has been certified as conforming to technological standards. Therefore, the following actions are punishable by law:

- Disassembly or modification of this product
- Removal of identification labels on the back of the product

The frequency used by this product is also used by industrial, scientific and medical devices, such as microwave ovens, as well as wireless detectors for motion detectors, such as those requiring licenses used on manufacturing lines or similar radio transmitters (all of these wireless devices will be called “other wireless transmitters” below). Most modern electronic equipment (e.g., in hospitals and cars), is shielded from RF energy. However, certain electronic equipment is not.

1. Please ensure that all medical devices used in proximity to this device meet appropriate susceptibility specifications for this type of RF energy.
2. In the unlikely event that there is electronic interference between this system and other wireless transmitters, quickly change the location of operation or stop operating the unit (cease signal transmission).
3. If other electrical interference or related problems occur, contact Socket Mobile technical support at [www.socketmobile.com/support/support](http://www.socketmobile.com/support/support)

### **Radio Frequency Interference Requirements**

This device complies with part 15 of the FCC rules and Industry Canada. Operation is subject to the following conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment is also ETS EN300 328-2, ETS EN301 489-1 and ETS EN301 489-17 compliant. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his or her own expense.

This equipment generates and radiates radio-frequency energy. To comply with FCC RF exposure compliance requirements, the following antenna installation and device operating configurations must be satisfied: (1) Users are not permitted to make changes or modify the system in any way, and (2) connecting external antennas to the Cordless Hand Scanner is prohibited. This device and its antenna must not be co-located or operated with any other antenna or transmitter.

To comply with Industry Canada RF exposure compliance requirements, the following antenna installation and device operating configurations must be satisfied: "The installer of this radio equipment must ensure that the antenna is located or pointed such that it does not emit RF field in excess of Health Canada limits for the general population; consult Safety Code 6, available at Health Canada's website [www.hc-sc.gc.ca/ehp/ehd/catalogue/rpb.htm](http://www.hc-sc.gc.ca/ehp/ehd/catalogue/rpb.htm)"

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user may try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna of the radio or television.
- Increase the distance separating the equipment and the receiver.
- Connect the equipment to an outlet on a different branch circuit than that of the receiver.
- Consult the dealer or an experienced radio/TV technician for help.

The user may find the following booklet helpful: *How to Identify and Resolve Radio-TV Interference Problems*. This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402.

### **Canada Certification**

The marking of "IC:2394A-CHS1" on the device means: "2394A-CHS1" is the certification number, and the term "IC' before the equipment certification number only signifies that Industry Canada technical specifications were met.

### **Radio Frequency Interference Requirements – Canada**

This Class B digital apparatus meets the requirements of the Canadian Interference-Causing Equipment Regulations. Cet appareil numérique de la Classe B respecte toutes les exigences du Règlement sur le Matériel Brouilleur du Canada.

### **CE Marking & European Union Compliance**

Products intended for sale within the European Union are marked with a CE Mark which indicates compliance to applicable Directives and European Normes (EN), as follows. Amendments to these Directives or ENs are included: Normes (EN), as follows:

#### **Applicable Directives:**

- Radio and Telecommunications Terminal Equipment Directive 1999/5/EC
- Low Voltage Directive 73/23/EEC

#### **Applicable Standards:**

- EN 55 022 – Limits and Methods of Measurement of Radio Interference Characteristics of Information Technology Equipment.
- EN 50 082-1 – Electromagnetic Compatibility – General Immunity Standard, Part 1: Residential, Commercial, Light Industry.
- IEC 801.2 – Electromagnetic Compatibility for Industrial Process Measurement and Control Equipment, Part 2: Electrostatic Discharge Requirements.
- IEC 801.3 – Electromagnetic Compatibility for Industrial Process Measurement and Control Equipment, Part 3: Radiated Electromagnetic Field Requirements.
- IEC 801.4 - Electromagnetic Compatibility for Industrial Process Measurement and Control Equipment, Part 4: Electrical Fast Transients Requirements

### **LASER DEVICE:**

The Socket Mobile Cordless Hand Scanner 7M and 7P described in this User Guide contain a Symbol SE955 laser scan engine.

**For the Class 1 version of this engine (CHS 7M), the following applies:**

- “Complies with 21CFR1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated July 26, 2001.”
- “Class 1 Laser devices are not considered to be hazardous when used for their intended purpose. The following statement is required to comply with US and international regulations:

***Caution: Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous laser light exposure.”***

A label such as the one below should appear on the end product.



**Example of Class 1 Laser Warning Label**

**For the Class 2 version of this engine (CHS 7P), the following applies:**

- “Complies with 21CFR1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated July 26, 2001.”
- “Caution: Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous laser light exposure.
- Class 2 laser scanners use a low power, visible light diode. As with any very bright light source, such as the sun, the user should avoid staring directly into the light beam. Momentary exposure to a Class 2 laser is not known to be harmful.”

A label such as the one below should appear on the end product.



**Example of Class 2 Laser Warning Label**

**Battery Warning:**

- Your device contains a rechargeable NiMH battery. Never throw the battery into a fire, as that could cause the battery to explode.
- Never short-circuit the battery by bringing the terminals in contact with another metal object. This could cause personal injury or a fire, and could also damage the battery.
- Never dispose of used battery with other ordinary solid wastes. Batteries contain toxic substances.
- Dispose of used battery in accordance with the prevailing community regulations that apply to the disposal of batteries. Cover the metal terminals with insulating tape. (This is to prevent accidental short-circuiting).
- Never expose the battery to any liquid.
- Always keep the battery out of reach of infants or small children.
- Never shock the battery by dropping it or throwing it.
- Dispose of a spent or damaged battery promptly.

**Product Disposal**

Your device should not be placed in municipal waste. Please check local regulations for disposal of electronic products.



