

**Socket**  
**Bluetooth® Cordless Hand Scanner (CHS)**  
**7X, 7XRx, 7Xi and 7XiRx**

*2D and 1D Barcode Scanners*

**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 *Bluetooth* Cordless Hand Scanner that are not described in this manual. Please refrain from disassembling the *Bluetooth* 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: <http://www.socketmobile.com>.



**IMPORTANT! The information in this *User's Guide* pertains to 2D versions of the Socket *Bluetooth* Cordless Hand Scanner, the CHS 7X, 7XRx, 7Xi and 7XiRx**

If you have a 1D laser version of the CHS (7E / 7M / 7P), please refer to the appropriate user's guide at: <http://www.socketmobile.com/pdf/data-collection/chs-series7-v3 ug.pdf>

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# 1 | INTRODUCTION

Thank you for purchasing the Socket *Bluetooth* Cordless Hand Scanner (CHS), a portable handheld barcode scanner that is small, light, comfortable to use and enables you to scan data from 2D and 1D barcodes into a wide variety of computers, smartphones and PDAs. The versions 7Xi and 7XiRx are also Apple® iOS certified for iPad®, iPhone® and iPod touch® mobile digital devices.



## SCANNER MODELS (2D VERSIONS)

Model	Part Number	Antimicrobial Casing	Apple iOS Certified
7X	8550-00036		
7XRx	8550-00047	✓	
7Xi	8550-00059		✓
7XiRx	8550-00060	✓	✓

## PACKAGE CONTENTS



Socket *Bluetooth*  
Cordless Hand Scanner  
(2D model)



Charger with  
international plugs



Lanyard/Belt Clip with  
retractable tether



CD with software and  
documentation

## PRODUCT REGISTRATION

Socket highly recommends that all customers register their products. Registered users receive priority for technical support and can opt in for special offers, upgrades, and new product information. Register online at: <http://support.socketmobile.com>

Alternatively, if you install SocketScan 10, you can register the CHS through the software.

## SOCKETCARE™ EXTENDED WARRANTY

SocketCare is an enhanced service program that features priority technical support, accelerated repair and replacement and more. <http://www.socketmobile.com/socketcare>

- SocketCare 3 year Premium Service - SKU# CX003P-784
- SocketCare 3 year Standard Service - SKU# CX003S-783

## SYSTEM COMPATIBILITY REQUIREMENTS / COMPATIBLE DEVICES



For the latest list of compatible devices, please view the CHS Spec Sheet at:  
[http://ww1.socketmobile.com/Libraries/Documents/CHS\\_Series\\_7\\_Spec\\_Sheet.sflb.ashx](http://ww1.socketmobile.com/Libraries/Documents/CHS_Series_7_Spec_Sheet.sflb.ashx)

OS	System Compatibility Requirements / Compatible Devices	Bluetooth HID Support	Bluetooth SPP Support <sup>1</sup>
Windows PC	<ul style="list-style-type: none"> <li>Windows 7, Vista, XP</li> <li>Microsoft, Toshiba or Broadcom <i>Bluetooth</i> stack</li> </ul>	✓	✓
Windows Mobile	<ul style="list-style-type: none"> <li>Windows Mobile 6.x</li> </ul>	✓ Microsoft <i>Bluetooth</i> stack	✓ Microsoft or Broadcom <i>Bluetooth</i> stack
Apple iOS	Made for the following Apple devices: <ul style="list-style-type: none"> <li>iPod touch (4<sup>th</sup> generation)</li> <li>iPod touch (3<sup>rd</sup> generation)</li> <li>iPhone 4</li> <li>iPhone 3GS</li> <li>iPhone 3G (<i>Bluetooth</i> SPP only)</li> <li>iPad 2</li> <li>iPad</li> </ul>	✓ except iPhone 3G	✓ Only with 7Xi / 7XiRx & compatible application <sup>2</sup>
Mac OS <sup>3</sup>	<ul style="list-style-type: none"> <li>Mac OS X 10.4 to 10.6.6 for Mac / MacBook</li> <li><i>Bluetooth</i> driver v2.24f3 (v1965) or v2.37f1</li> </ul>	✓	✗
Android	Android 2.1 to 3.x. See Spec Sheet for device list.	✓ Android 2.2 to 3.x with HID support	✓
BlackBerry	BlackBerry OS 5.0.0.714 or later for Bold 9700 <sup>4</sup>	✗	✓
QNX	BlackBerry PlayBook	✓	✗
Symbian	Nokia E71 <sup>5</sup>	✓	✗
Windows CE.NET	Intermec CK3 <sup>6</sup>	✓	✗

<sup>1</sup>For the 7X and 7XRx, only Revisions D or later support Bluetooth SPP. Revisions A-C support only HID.

<sup>2</sup>See Socket website for list of compatible applications (coming soon). Alternatively, use SocketScan 10 SDK.

<sup>3</sup>Compatibility verified for latest models at time of testing. Other models or Bluetooth driver versions not tested.

<sup>4</sup>Other devices not tested with SocketScan 10 and may require the previous software version.

<sup>5</sup>Other devices running Symbian OS 9.1 or later may be supported. For instructions, please visit:

[http://www.socketmobile.com/pdf/data-collection/chs-symbian\\_uq\\_245.pdf](http://www.socketmobile.com/pdf/data-collection/chs-symbian_uq_245.pdf)

<sup>6</sup>For instructions, please visit: [http://www.socketmobile.com/pdf/data-collection/chs-series7-ck30\\_qs.pdf](http://www.socketmobile.com/pdf/data-collection/chs-series7-ck30_qs.pdf)

## ADDITIONAL DOCUMENTATION

Download the *Quick Start Guide*, *Command Barcodes Sheet*, *SocketScan Advanced Programming Guide* or other manuals: <http://www.socketmobile.com/support/downloads/>

## ABOUT BLUETOOTH HID AND SPP MODES

The latest versions of the CHS 7X and 7XRx support two kinds of *Bluetooth* connections: Human Interface Device (HID) and Serial Port Profile (SPP), each with its advantages and disadvantages.

**By default, the CHS is set to HID mode for Keyboard devices, which requires no software installation. For better performance, Socket highly recommends that you use SPP (especially if scanning 2D barcodes).**

See chart on previous page to check which mode(s) work with your OS / device platform.

Feature	CHS in HID mode	CHS in SPP mode
No software installation required	✓	✗
Supports SocketScan 10 software with Socket EZ Pair	✗	✓
Non-printable ASCII, UNICODE, international keyboard support	✗	✓
Parsing / data checks (with SocketScan 10 SDK)	✗	✓
Binary data (with SDK)	✗	✓
Scanner configuration methods	Special barcodes	SocketScan 10 utility or special barcodes
Scanner configuration options	Limited configuration options	Many configuration options
Barcodes containing a lot of data	Less efficient communications may lead to slower performance	More efficient data communications
Compatible CHS <a href="#">revisions</a>	All	7X / 7XRx: Rev D or later 7Xi / 7XiRx: All revisions, requires compatible application

To change modes, use the **Command Barcodes Sheet** in [Appendix E](#) of this manual.

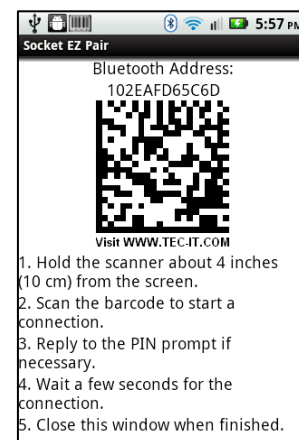
To learn more about HID and SPP, please read our white paper: [http://www.socketmobile.com/pdf/techbrief/socketscan-10-sdk\\_white-paper.pdf](http://www.socketmobile.com/pdf/techbrief/socketscan-10-sdk_white-paper.pdf)

## ABOUT THE SOFTWARE

**SocketScan™ 10** keyboard wedge software enters scanned data directly into any program as if the data were manually typed. It features Socket EZ Pair, which lets you scan an onscreen barcode to quickly pair with a device. There are also utilities for configuring scanner and software settings. Download the latest software from: <http://www.socketmobile.com/support/downloads/>

**Software for Bluetooth SPP mode only. No software installation required for HID mode.**

*SocketScan 10 keyboard wedge software is designed for scanning 7 bit ASCII data. For Unicode, DoubleByte, Multibyte (e.g., for Japanese or Chinese) or binary data, use the SocketScan 10 SDK to convert the data before it is sent to your application. Learn more about the SDK at: <http://www.socketmobile.com/products/sdk/>*



## ACCESSORIES

	<b>Accessory</b>	<b>SKU Number</b>
	Charging Cradle	For 7X, 7Xi: SKU# AC4026-708  For 7XRx, 7XiRx: SKU# AC4050-1152
	USB A Male to DC Plug Cable	SKU# AC4051-1139
	Car Charger	SKU# HC1630-882
	Scanning Companion USB <i>Bluetooth</i> Adapter	SKU# BL4543-734
	Mobile Power Pack Portable Battery Pack	SKU# AC4009-614  Available only in Americas and Asia Pacific
	Protective Carrying Case / Belt Holster	From Taylor Made Cases  SKU# TM-HS650-KT
	Waterproof Skin	From Viziflex Seels  SKU# SMS01

For more information on Socket accessories for the CHS, please visit:

<http://ww1.socketmobile.com/products/bluetooth-scanners/accessories-bt.aspx>

For more information on accessories from Taylor Made Cases, Viziflex Seels or other partners,

please visit: <http://ww1.socketmobile.com/products/star/custom-cases.aspx>

## HARDWARE FEATURES

### **Product Diagram**



### **Touch Screen Stylus**

The bottom of the CHS 7X and 7XRx features a stylus tip that you can use on Pocket PC and other resistive device touch screens. *(Not included in 7Xi and 7XiRx)*



**WARNING: Do not use the stylus if damaged, as it may scratch the display screen of your computer. Do not use on iPhone, iPad, iPod touch or other capacitive screen device.**



### **Antimicrobial Protection (CHS 7XR<sub>x</sub> and 7XiR<sub>x</sub> only)**

The CHS 7XR<sub>x</sub> and 7XiR<sub>x</sub> are made with antimicrobial materials to provide an extra layer of protection to the devices against the multiplication and spread of potentially harmful bacteria and microbes.

Socket recommends using Sani-Cloth<sup>®</sup> Plus brand disposable cloth wipes as the standard disinfectant wipe for the CHS 7XR<sub>x</sub> and 7XiR<sub>x</sub>. For more information about the wipes, please visit: <http://www.pdipdi.com>

**Do not use a bleach-based or Dispatch<sup>®</sup> brand cloth wipes, as they negate all antimicrobial properties that have been added to the device.**

To clean the scanner window, use an eye lens cleaner or clean, soft cloth.

### **Status Indicator LED**

<b>LED</b>	<b>LED Behavior</b>	<b>Meaning</b>
Bluetooth Status (Blue)	1 blink per second	Bluetooth radio is on, but not connected
	1 blink per 3 seconds	Scanner connected to computer
Good Read (Green)	On	Data successfully scanned and transmitted to host device
	On when connected to charging source	Scanner is fully charged
Battery Status (Red)	1 blink per second	20% battery capacity remaining
	On when connected to charging source	Battery Charging (on cradle or AC power)
	Off	Powered off or Good Battery status

### **Status Indicator Beeps**

<b>Beep Patterns</b>	<b>Meaning</b>
2 beeps (low-high)	Power on
2 beeps (high-low)	Power off
1 beep	Scanner connected to computer and ready to scan barcodes. When connected, the scanner will auto power off after 2 hours of inactivity.
1 beep with green LED (configurable setting)	Data successfully scanned and sent to computer.
1 beep (low)	You have double-pressed the power button, and the CHS has enabled support for simultaneous scanning and onscreen keyboard entry for Apple iOS
2 beeps (same tone)	Scanner disconnected from computer. When disconnected, the scanner will auto power off after 5 minutes of inactivity.
1 long beep	Scanner unsuccessfully tried multiple times to connect to computer. After these attempts, the scanner will go into sleep mode. In sleep mode, if the trigger button is pressed, the CHS will restart the connection attempts. The CHS will automatically power off after 5 minutes of inactivity.
5 beeps	The CHS detects an internal fault, will reset and power off. If connected to a host computer, the scanner will disconnect during the reset.

## Vibrate

Vibrate	Meaning
Vibrate Mode	Data successfully scanned and sent to host device.



*If the CHS supports SPP mode for your OS, you can modify the LED, beep and vibrate settings, by using the Scanner Settings utility (see chapter for your OS).*

## Bluetooth Mode Sequence

When the CHS is powered on, its *Bluetooth* mode will gradually change if no connection is made.

Time after turning on CHS	Bluetooth mode
0-5 minutes	Discoverable and connectable
5 minutes	CHS automatically powers off



*If a button is pressed, but no connection is made, the CHS will stay powered on for another 5 minutes.*

## Simultaneous Use of CHS and Socket Plug-in Device

You can use the CHS and a Socket plug-in barcode / RFID / magnetic stripe reader simultaneously on the same host computer or device. However, you will need to run two different versions of SocketScan concurrently.

- For the CHS, use SocketScan 10, which you can download from:  
<http://www.socketmobile.com/support/downloads/data-collection/series7/ss10/>
- For Socket plug-in devices, use SocketScan 7 (or older), which you can download from:  
<http://www.socketmobile.com/support/downloads/data-collection/series5/>
- For more information about Socket plug-in devices for data collection, please visit:  
<http://ww1.socketmobile.com/products/handheld-computers/accessories-hc.aspx?cat=Data%20Collection>

## 2 | SCANNER SETUP

### ASSEMBLING THE AC ADAPTER

If you wish to charge the CHS with the AC adapter, the correct plug for your region must be attached first. Four different plugs are included. Simply find the correct plug for your region and slide it into the head of the adapter until it latches. Plug the cable into the AC adapter head, making sure it is positioned correctly.



*The charger cannot be sold in Japan.*

### CHARGING THE SCANNER

The CHS must be fully charged before first use. Use the AC adapter to charge from a wall outlet, or the USB cable to charge from a PC. Optional charging accessories are also available. Initial charging takes about 3 hours.



*The LED will be solid red while charging and green when the battery is full.*



*If you use the USB cable, charging will cease if the PC enters suspend mode.*

Included Charging Hardware	<ul style="list-style-type: none"> <li>• AC adapter with international plugs</li> <li>• USB A Male to DC Plug Cable (2A maximum)</li> </ul>
AC Adapter Rating	5V, 2A, positive pole center
Power Jack Connector	4 mm barrel
Optional Charging Hardware	<ul style="list-style-type: none"> <li>• Charging cradle</li> <li>• Car charger</li> <li>• Mobile Power Pack (available in Americas/Asia Pac)</li> <li>• AC or DC adapter from Socket SoMo 650</li> </ul> <p>For more information, including how to purchase, please see <a href="#">Accessories</a>.</p>

## ATTACHING THE TETHER (OPTIONAL)

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

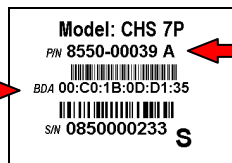


2. Remove the battery cover.



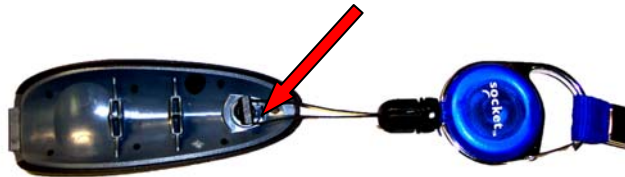
The Bluetooth Device Address (BDA) is printed on a label inside the battery compartment. The address is used to identify the CHS.

Bluetooth Device Address (BDA)



Revision Letter - follows Part Number (P/N)

3. Attach the tether to the battery cover. Wrap the string loop around the inside part of the lock.



4. Replace the battery cover and turn the lock to a **vertical** position to secure it.



**WARNING: Do not remove the pre-installed battery!**

Battery Type	Li ion rechargeable
Battery Life	10 hours on single charge*

\*Based on elapse time of 5 seconds/scan under typical usage conditions. Battery performance may vary depending on vibrate settings and work environment

## 3 | SETUP FOR WINDOWS PC

This chapter explains how to install and use the *Bluetooth Cordless Hand Scanner (CHS)* with a *Bluetooth* enabled computer running Windows 7, Vista or XP

Before you begin the instructions in this chapter, make sure you have charged the scanner, as described in [Chapter 2, "Scanner Setup"](#)



### CONNECTION OPTIONS

For Windows, the CHS offers two different connection options. For more information about HID and SPP, see [Chapter 1](#).

Bluetooth Mode	Pros	Cons
<b>HID</b> Instructions on next page	<ul style="list-style-type: none"><li>• No software installation needed</li><li>• Compatible with all revisions of 7X, 7XRx, 7Xi, and 7XiRx</li></ul>	<ul style="list-style-type: none"><li>• Limited configuration options</li><li>• Limited to printable ASCII and some non-printable characters</li><li>• Less efficient data communications for barcodes containing lots of data</li></ul>
<b>SPP</b> Instructions on <a href="#">page 18</a>	<ul style="list-style-type: none"><li>• Many configuration options</li><li>• Broad character set, including non-printable ASCII, international keyboards</li><li>• More efficient data communications for barcodes containing lots of data</li><li>• Compatible with all revisions of 7Xi and 7XiRx.</li></ul>	<ul style="list-style-type: none"><li>• Software installation required</li><li>• Compatible only with <a href="#">Revision D or later</a> of 7X and 7XRx</li></ul>



TIP

*The CHS has been successfully tested in SPP mode with the Microsoft, Broadcom, and Toshiba Bluetooth stacks. Due to the many device manufacturer and Bluetooth stack combinations, the CHS might not work correctly in SPP mode on some PCs.*



TIP

*Socket highly recommends that you use the CHS in SPP mode. To learn more, read our white paper: [http://www.socketmobile.com/pdf/techbriefs/socketscan-10-sdk\\_white-paper.pdf](http://www.socketmobile.com/pdf/techbriefs/socketscan-10-sdk_white-paper.pdf).*

## OPTION 1: USING THE CHS IN HID MODE

### To pair the CHS with your computer:



*You only need to pair the CHS with you computer the first time you try to connect.*


1. Power on the CHS. Press and hold the small power button until the LED turns blue and the CHS beeps twice (low-high).



*The LED blinks blue once per second to show that the Bluetooth radio is on but not connected.*

2. Scan this barcode to configure the CHS for HID mode for peripherals. Afterwards, the CHS will beep 3 times.



3. Turn on *Bluetooth*  on your computer. Refer to your computer's documentation for instructions.
4. Use your computer's *Bluetooth* software to connect to the CHS (see instructions on next page).





*In the device search, the CHS will appear as Socket CHS 7x [xxxxxx] for the 7X / 7XRx and Socket 7Xi [xxxxxx] for the 7Xi / 7XiRx. The characters in brackets are the last six characters of the CHS Bluetooth Device Address (BDA), which is labeled inside the battery compartment.*





*To identify your type of Bluetooth stack, click **Start**. Right-click on **My Computer** and click **Properties | Hardware tab | Device Manager** and identify the manufacturer of your Bluetooth device.*



*Only computers running Bluetooth 2.0 will prompt for a passkey.*

<b>Bluetooth Stack</b>	<b>Connection Instructions</b>
<p>Microsoft (Windows 7)</p>	<ol style="list-style-type: none"> <li>Right-click on the <i>Bluetooth</i> icon  in the task tray. In the pop-up menu, click <b>Add a Device</b>. A device search will begin.           <div> </div> </li> <li>In the device list, select <b>Socket CHS 7x</b> or <b>Socket 7Xi</b> and click <b>Next</b>.           <div> </div> </li> <li>If prompted, select <b>Enter the device's pairing code</b> and enter the passkey <b>0000</b> (four zeroes). Click <b>Next</b>.</li> <li>Follow the remaining screens to complete the wizard.</li> </ol>
<p>Microsoft (Windows Vista / XP)</p>	<ol style="list-style-type: none"> <li>Right-click on the <i>Bluetooth</i> icon  in the task tray. In the pop-up menu, click <b>Add a Bluetooth Device</b>.</li> <li>In the welcome screen, check the box <b>My device is set up and ready to be found</b>. Click <b>Next</b>. A device search will begin.           <div> </div> </li> <li>In the device list, select <b>Socket CHS 7x</b> or <b>Socket 7Xi</b>. Click <b>Next</b>.</li> <li>If prompted, select <b>Use the passkey found in the documentation</b> and enter the passkey <b>0000</b> (four zeroes). Click <b>Next</b>.</li> <li>Follow the remaining screens to complete the wizard.</li> </ol>

<b>Bluetooth Stack</b>	<b>Connection Instructions</b>
Toshiba	<ol style="list-style-type: none"> <li>1. Double-click on the <i>Bluetooth</i> icon  in the task tray.</li> <li>2. In <i>Bluetooth Settings</i>, click <b>New Connection</b>.</li> <li>3. In the connection wizard, select <b>Express Mode</b>. Click <b>Next</b>. A device search will begin.           <div> </div> </li> <li>4. In the device list, select <b>Socket CHS 7x</b> or <b>Socket 7Xi</b>. Click <b>Next</b>.           <div> </div> </li> <li>5. If a passkey is requested, enter <b>0000</b> (four zeroes). Click <b>OK</b>.</li> <li>6. Follow the remaining screens to complete the wizard.</li> </ol>
Broadcom (Widcomm)	<ol style="list-style-type: none"> <li>1. Click on the <i>Bluetooth</i> icon  in the task tray.</li> <li>2. On the left side, under <i>Bluetooth Tasks</i>, click <b>Add a Bluetooth Device</b>. A device search will begin.           <div> </div> </li> <li>3. In the device list, select <b>Socket CHS 7x</b> or <b>Socket 7Xi</b>.</li> <li>4. If a passkey is requested, enter <b>0000</b> (four zeroes). Click <b>Pair Now</b>.</li> <li>5. If prompted to select a <i>Bluetooth</i> service, select the CHS. click <b>Finish</b>.</li> </ol> <p><i>Use Bluetooth v2.1 or later for best results. Do not use Quick Connect   Bluetooth serial devices when the CHS is in HID mode.</i></p>





*The CHS will beep once when it has connected and is ready to scan barcodes. The LED will also blink blue once every 3 seconds.*

### To scan barcodes:

1. Open your application. Place the cursor where you want to enter data.
2. Hold the CHS about 4 inches (10 cm) from the barcode and press and hold the trigger button. An aiming beam will appear for 3 seconds. Keep your hand steady while scanning.



For example, try scanning the following barcode:



*After data is read and sent to the computer, by default, the CHS will beep once and vibrate, the LED will flash green, and the beam will turn off.*



*By default, a carriage return is applied after scanned barcode data is entered. To disable the automatic carriage return, you can use the [Command Barcodes](#) (use the Data Editing barcode for Data As Is).*



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

### To Disconnect:

To disconnect, turn off the CHS. Press and hold the power button for at least 3 seconds, until the CHS beeps twice (high-low) and the blue LED turns off.

### Automatic Reconnection:

After you power on the CHS, it will automatically try to connect to the last computer it paired and connected to. Make sure your computer is in range with *Bluetooth* enabled.

If the CHS is connected to your computer and gets disconnected, it will try to reconnect. Make sure the computer is on and in range. If the CHS cannot reconnect after several attempts, it will emit a long beep. Press the trigger button to restart the reconnection process.



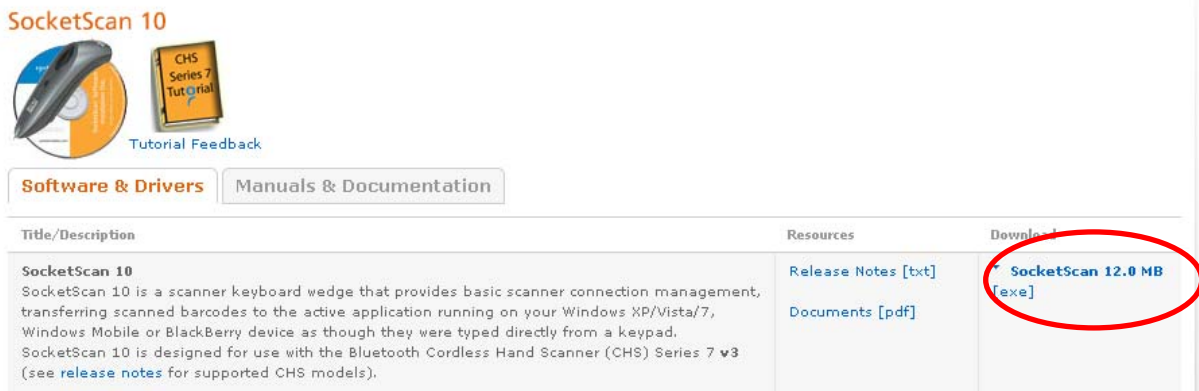
See [Appendix F](#) for unpairing instructions.

## OPTION 2: USING THE CHS IN SPP MODE

Note: The HID only versions ([Revisions A-C](#)) of the CHS 7X and 7XRx do not support SPP mode. All revisions of the 7Xi and 7XiRx support SPP mode.

### To install SocketScan 10 software:

1. Access the SocketScan 10 installation file, either from the Socket website or the SocketScan 10 installation CD.
  - To install from a web download (recommended to ensure the latest software)
    - Open: <http://www.socketmobile.com/support/downloads/data-collection/series7/ss10/>
    - Click on the link for the **exe** file.



SocketScan 10

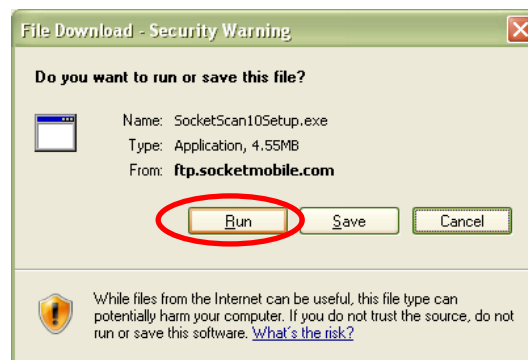
CHS Series 7 Tutorial

Tutorial Feedback

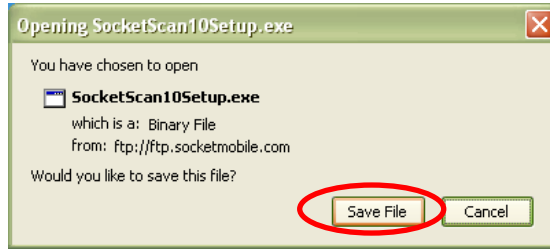
Software & Drivers | Manuals & Documentation

Title/Description	Resources	Download
<b>SocketScan 10</b> SocketScan 10 is a scanner keyboard wedge that provides basic scanner connection management, transferring scanned barcodes to the active application running on your Windows XP/Vista/7, Windows Mobile or BlackBerry device as though they were typed directly from a keypad. SocketScan 10 is designed for use with the Bluetooth Cordless Hand Scanner (CHS) Series 7 v3 (see <a href="#">release notes</a> for supported CHS models).	<a href="#">Release Notes [txt]</a> <a href="#">Documents [pdf]</a>	<a href="#">SocketScan 12.0 MB [exe]</a>

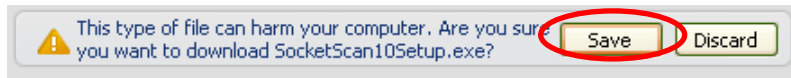
- To install from the SocketScan 10 installation CD:
    - Insert the CD into the CD drive of your computer. It should auto-run.  
*(If the CD does not auto-run, use My Computer or File Explorer to access your CD drive and click on setup.exe)*
    - In the Getting Started with SocketScan 10 wizard, click on the **Installation** link on the left side. Scroll down to the section for Windows Desktop and click **Install**.
2. Download and run the installation file.
    - Internet Explorer: In the Security Warning screens, click **Run**. When asked if you want to run the file, click **Run**.



- **Firefox:** Click **Save File**. In the Downloads list, double-click **SocketScan10Setup.exe**. In the warning screen, click **OK**.



- **Chrome:** Click **Save** at the bottom of the screen. Click on the link for the **SocketScan10Setup.exe** file. In the Security Warning screen, click **Run**.

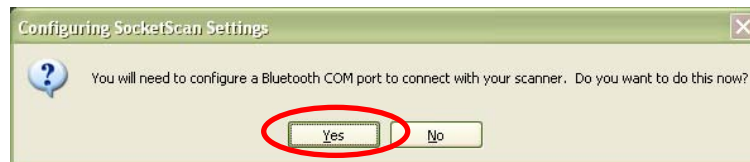


3. Follow the installation wizard to install software for Windows Desktop.



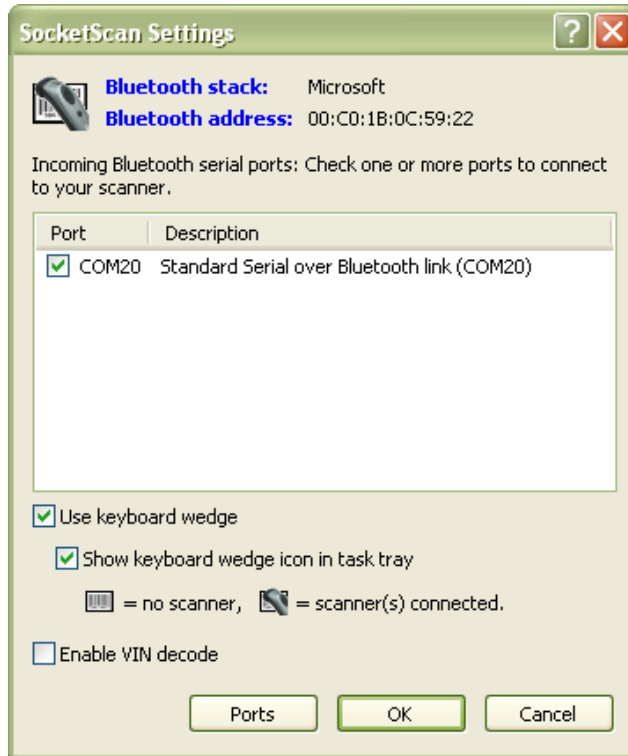
*If a previous version of SocketScan 10 is already installed on your computer, and you choose to uninstall it, make sure SocketScan 10 is not running before you start the uninstall. When prompted, make sure you restart your computer.*

4. A message will state that on the next screen, you will need to configure an incoming *Bluetooth* serial COM port to connect with the CHS. Click **Yes**.



5. The SocketScan Settings screen will appear.

- Select the incoming *Bluetooth* serial COM port that you would like SocketScan to use to connect to the CHS.
- In most cases, **Use keyboard wedge** and **Show keyboard wedge icon in tray** should both be selected.



**TIP**

Click **Ports** if a suitable incoming Bluetooth COM port is not listed and you would like to add one. Also, if SocketScan Settings lists multiple COM ports, you can determine if any are already paired to a Socket Bluetooth barcode scanner and/or which one is incoming.



**TIP**

For the Toshiba Bluetooth stack, to determine which COM port is incoming, click **Ports**. Incoming COM ports will be listed as **LocalCOM-Server**.



**TIP**

For most users, **Use keyboard wedge** and **Show keyboard wedge icon in tray** should be selected. For more information about the keyboard wedge and VIN decode options, please see [SocketScan Settings](#).

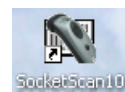
6. After making all your selections, click **OK**.

7. In the last screen of the installation wizard, click **Finish**. If prompted, restart your computer.



**TIP**

After installation, a SocketScan 10 shortcut will appear on your desktop. Click it to quickly launch SocketScan 10.

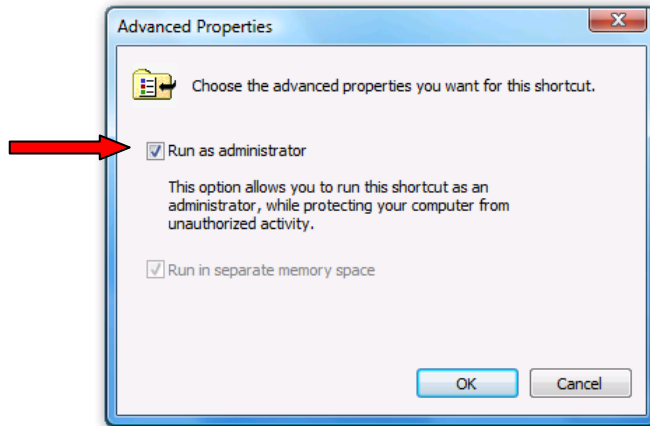


## To pair the CHS with your computer:

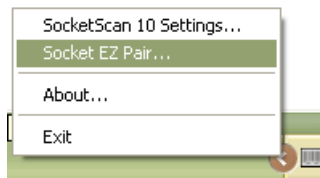


You only need to pair the CHS with your computer the first time you try to connect.

1. **IMPORTANT!** If using Windows 7 or Vista, make sure you are running SocketScan 10 with administrative privileges. Right-click on the SocketScan 10 desktop shortcut icon. In the pop-up menu, click **Properties**. Click **Advanced...** Select **Run as administrator** and click **OK**.

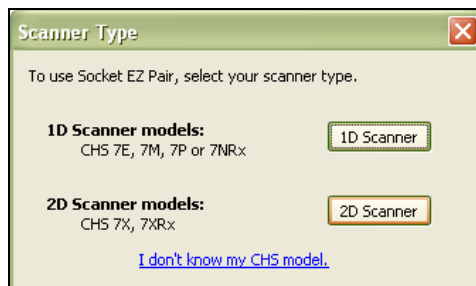


2. Click on the SocketScan icon in the task tray . In the pop-up menu, click Socket **EZ Pair**.



If the icon does not appear, click on the desktop shortcut for SocketScan 10 to launch the program.

3. Click **2D Scanner**.



4. Power on the CHS. Press and hold the small power button until the LED turns blue and the CHS beeps twice (low-high).

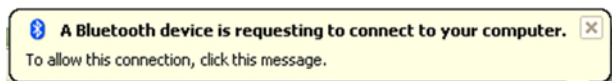


*The LED blinks blue once per second to show that the Bluetooth radio is on but not connected.*

5. Scan the barcode that appears on your screen.



6. A message will report that a *Bluetooth* device is trying to connect to your computer. Click on the message.

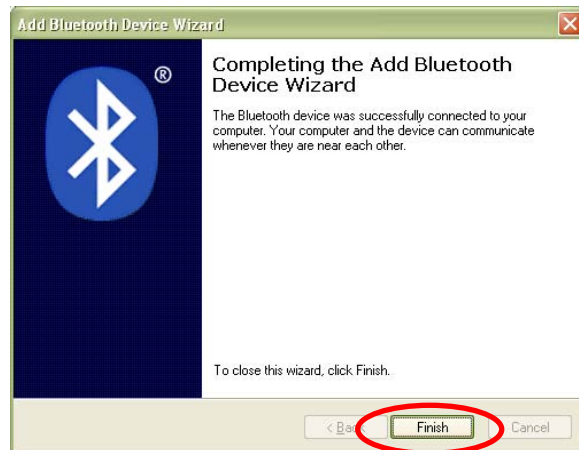


7. If prompted for a passkey, enter **0000** (four zeroes).



*Only computers running Bluetooth 2.0 will prompt for a passkey.*

8. After the devices connect, click **Finish**.



*The CHS will beep once after it has connected and is ready to scan. The LED will also blink blue once every 3 seconds, and a CHS icon will appear in the task tray.*



9. Click **X** to close Socket EZ Pair. The CHS registration screen will appear. If desired, register your CHS.

### To scan barcodes:

1. Open your application. Place the cursor where you want to enter data.
2. Hold the CHS about 4 inches (10 cm) from the barcode and press and hold the trigger button. An aiming beam will appear for 3 seconds. Keep your hand steady while scanning.



For example, try scanning the following barcode:



*After data is read and sent to the computer, by default, the CHS will beep and vibrate, the LED will flash green, and the beam will turn off. You can use the [Scanner Settings utility](#) to modify the beep / LED / vibrate settings.*



*By default, a carriage return is applied after scanned barcode data is entered. To disable the automatic carriage return, you can use the [Scanner Settings utility](#) or the [Command Barcodes](#) (use the Data Editing barcode for Data As Is).*



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

### To Disconnect:

To disconnect, turn off the CHS. Press and hold the power button for at least 3 seconds, until the CHS beeps twice (high-low) and the blue LED turns off.

### Automatic Reconnection:

After you power on the CHS, it will automatically try to connect to the last computer it paired and connected to. Make sure your computer is in range with *Bluetooth* enabled and *SocketScan 10* is running.

If the CHS is connected to your computer and gets disconnected, it will try to reconnect for a few minutes. Make sure the computer is on and in range. If the CHS cannot reconnect after several attempts, it will give a long beep. Power off and on the CHS to restart the reconnection process.



*See [Appendix F](#) for unpairing instructions.*



## SOCKETSCAN 10 SPECIAL FEATURES (SPP MODE ONLY)

SocketScan 10 software offers a variety of special features:

- **Task tray icon** – Indicates CHS connection status at a glance
- **Basic scanner information** – Quick view of basic scanner properties
- **SocketScan 10 Settings** – Utility for configuring COM port, keyboard wedge, task tray icon, and VIN mode
- **Scanner settings** – Utility lets you view *Bluetooth* properties, battery level, adjust beep / LED / vibrate settings, test barcodes, and more
- **Socket EZ Pair** – Feature lets you scan an onscreen barcode to quickly pair the CHS with your computer
- **About** – Software version information

### Task Tray Icon




### Basic Scanner Information



To view more detailed scanner properties, use [Scanner Settings](#).

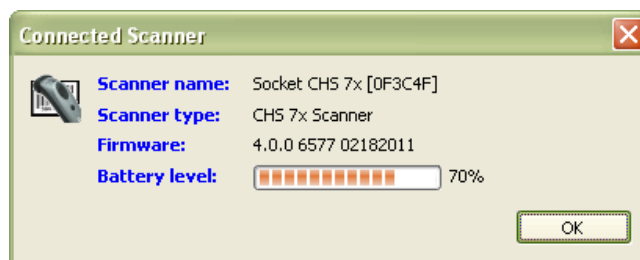


You can only view Basic Scanner Properties when the CHS is connected to your computer.

1. Click on the CHS icon  in the task tray. In the pop-up menu, click **Socket CHS 7x** or **Socket 7Xi**.





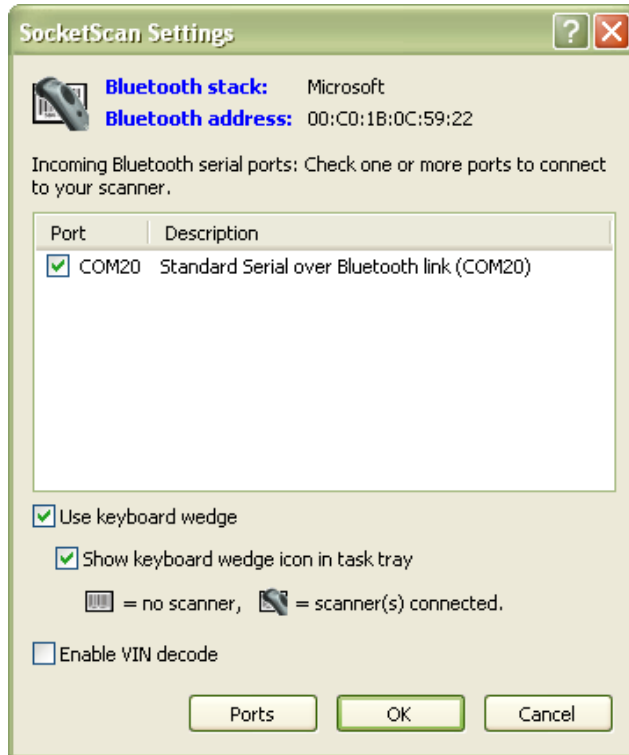
2. A screen will appear displaying basic information about your CHS, including the *Bluetooth* friendly name, scanner type, firmware, and battery level.



3. After viewing the information, click **OK**.

## SocketScan 10 Settings

1. Click on the SocketScan 10 icon  or  in the task tray. In the pop-up menu, click **SocketScan 10 Settings...**
2. The SocketScan Settings screen will appear, reporting the manufacturer of the computer's *Bluetooth* stack and the computer's *Bluetooth* Device Address.




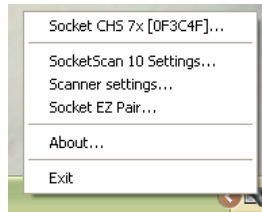
- **Port:** An incoming *Bluetooth* serial COM port must be selected for the CHS connection.
    - If a suitable port is not listed in SocketScan Settings, click **Ports** to use your computer's *Bluetooth* software to add one.
    - Toshiba *Bluetooth* stack: To determine which port is incoming, click **Ports**. In the *Bluetooth* software, incoming ports are noted as **LocalCOM-Server**.
  - **Use keyboard wedge:** Should be selected in most cases unless you plan to use the SDK.
  - **Show keyboard wedge icon in tray:** Select to have a task tray icon appear that conveniently indicates whether the CHS is connected to the PC. Should be selected in most cases.
  - **Enable VIN decode:** Select to have SocketScan 10 only send a 17-character Vehicle Identification Number (i.e., omit any prefix/suffix included in a VIN barcode).
  - **Ports:** Click to access your computer's *Bluetooth* software to add or view properties of *Bluetooth* COM ports (including which are incoming / outgoing).
3. After making changes, click **OK**.

## Scanner Settings

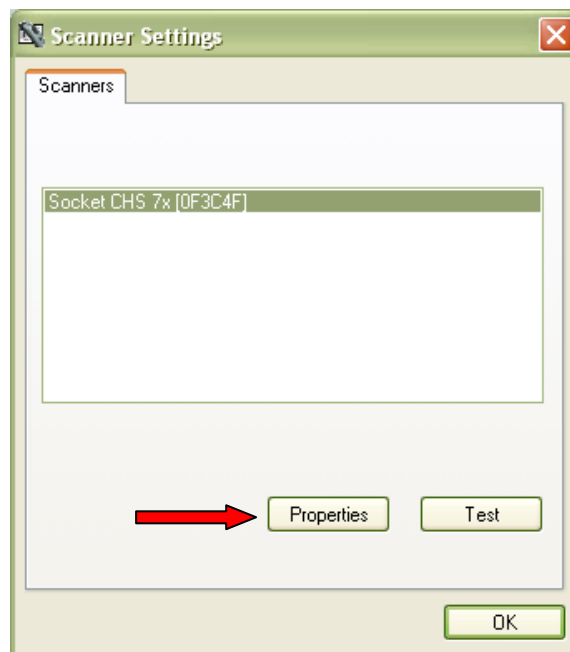


You can access Scanner Settings only when the CHS is connected to your computer.

1. Click on the CHS icon  in the task tray. In the pop-up menu, click **Scanner settings...**

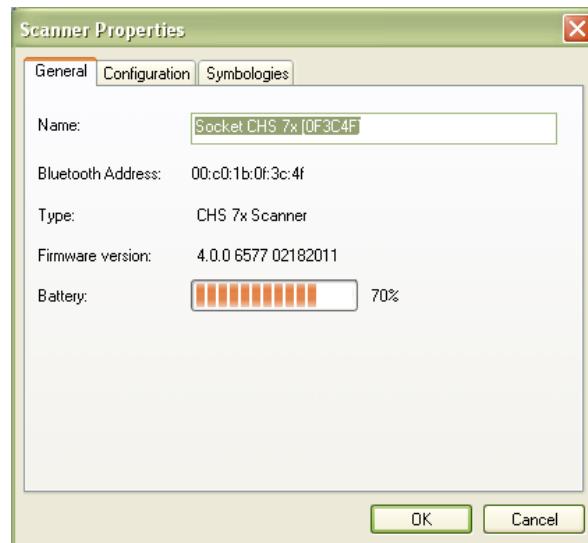


2. The Scanner Settings screen will appear with an empty field. For the Microsoft and Broadcom (Widcomm) *Bluetooth* stacks, the CHS will also beep twice when it disconnects from SocketScan 10.
3. After a few seconds, the CHS will connect to Scanner Settings, indicated by a beep. Your CHS will also be listed on the screen. Make sure your CHS is selected, and click **Properties**.

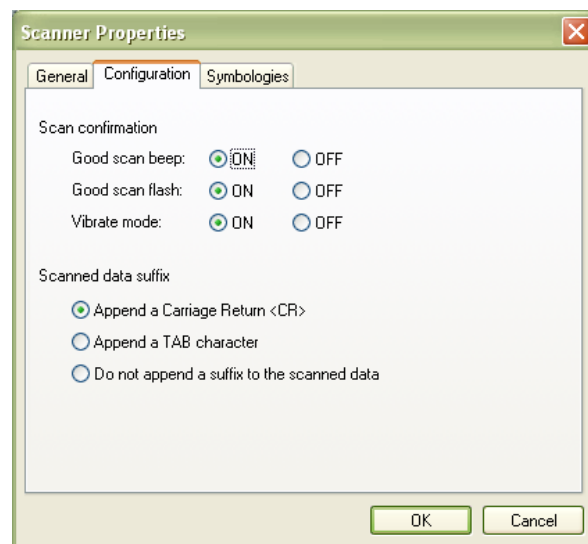


4. The utility will read your scanner settings.

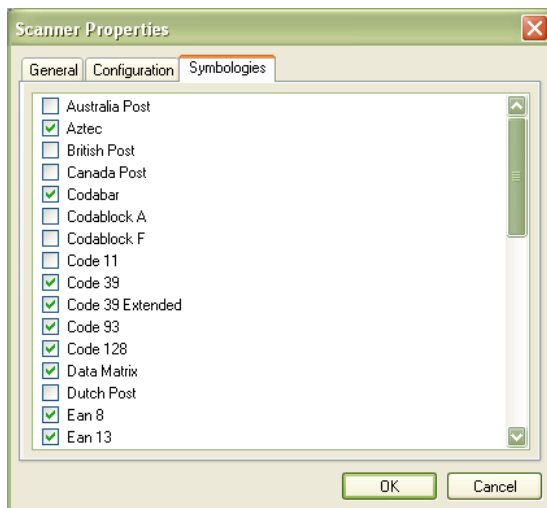
5. The General properties screen will appear, reporting the *Bluetooth* friendly name, *Bluetooth* Device Address, Type of device, firmware version, and battery level. If desired, you can change the *Bluetooth* friendly name of the CHS.



6. Click on the **Configuration** tab. If desired, modify how the CHS confirms a good scan and/or select a suffix to automatically add to each instance of scanned data.



7. Click on the **Symbologies** tab. If desired, modify which symbologies the CHS will be able to read.



TIP

*Enabling all possible symbologies may slow the decoding process.*



TIP

*The RSS symbology is now known as GS1 DataBar.*



TIP

*If you want to read UPC-A symbols, disable the GS1 DataBar option so that GS1 DataBar symbols don't get mistakenly decoded.*



TIP

*Keep Data Matrix enabled so you can scan the onscreen barcode in Socket EZ Pair.*

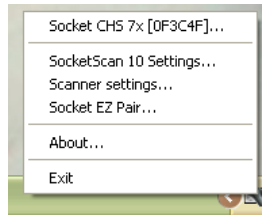
8. Click **OK** to exit the Scanner Properties. If desired, click **Test** to test scanning a barcode. The Scan Window will appear.
9. Scan a barcode that you would like information about. The Scan Window will report the symbology, data length, and data, in your choice of ASCII or Hexadecimal format.



10. After testing a barcode, click **Close**. Click **OK** to exit Scanner Settings.
11. The CHS will beep twice after disconnecting from Scanner Settings. A few seconds later, the CHS will beep once after connecting to SocketScan 10.

## About

1. Click on the SocketScan 10 icon  or  in the task tray. In the pop-up menu, click **About...**



2. The About screen will appear, reporting information about your version of SocketScan 10.



3. After viewing the information, click **OK** to exit.

## 4 | SETUP FOR WINDOWS MOBILE

This chapter explains how to install and use the CHS 7X, 7XRx, 7Xi or 7XiRx with any of the following devices running Windows Mobile 6 or later:

- Socket SoMo 650: HID and SPP modes supported  
(*Other Windows Mobile 6 devices with Microsoft Bluetooth stack may be compatible*)
- Windows Mobile 6 device with Broadcom *Bluetooth* stack: only SPP mode supported



Before you begin the instructions in this chapter, make sure you have charged the scanner, as described in [Chapter 2, “Scanner Setup”](#)

### CONNECTION OPTIONS

For Windows Mobile, the CHS offers two different connection options. For more information about HID and SPP, please see [Chapter 1](#).

Bluetooth Mode	Pros	Cons
<b>HID</b> Instructions on next page	<ul style="list-style-type: none"> <li>• No software installation needed</li> <li>• Compatible with all revisions of 7X, 7XRx, 7Xi and 7XiRx</li> </ul>	<ul style="list-style-type: none"> <li>• Limited configuration options</li> <li>• Limited to printable ASCII and some non-printable characters</li> <li>• Less efficient data communications for barcodes containing lots of data</li> <li>• Compatible only with SoMo 650</li> </ul>
<b>SPP</b> Instructions on <a href="#">page 36</a>	<ul style="list-style-type: none"> <li>• Many configuration options</li> <li>• Broad character set, including non-printable ASCII, international keyboards</li> <li>• More efficient data communications for barcodes containing lots of data</li> <li>• Compatible with all revisions of 7Xi and 7XiRx</li> </ul>	<ul style="list-style-type: none"> <li>• Software installation required</li> <li>• Compatible only with <a href="#">Revision D or later</a> of 7X and 7XRx</li> </ul>



Socket highly recommends that you use the CHS in SPP mode. To learn more, read our white paper: [http://www.socketmobile.com/pdf/techbrief/socketscan-10-sdk\\_white-paper.pdf](http://www.socketmobile.com/pdf/techbrief/socketscan-10-sdk_white-paper.pdf).

## OPTION 1: USING THE CHS IN HID MODE

### To pair the CHS with your SoMo:



*You only need to pair the CHS with your SoMo the first time you try to connect.*

1. Power on the CHS. Press and hold the small power button until the LED turns blue and the CHS beeps twice (low-high).

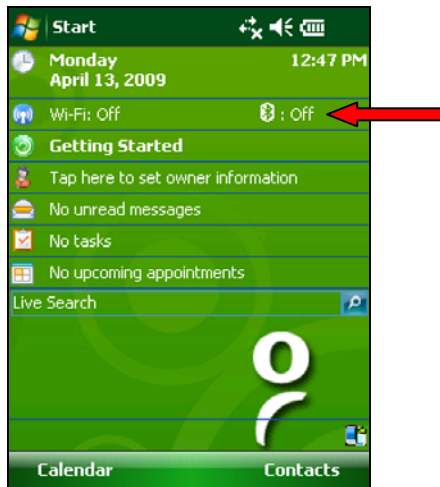


*The LED blinks blue once per second to show that the Bluetooth radio is on but not connected.*

2. Scan this barcode to configure the CHS for HID mode for peripherals. Afterwards, the CHS will beep 3 times.



3. In the Today screen, tap on the line that lists Wi-Fi and *Bluetooth* status.



Alternatively, press the button on the right side of the SoMo, which launches the wireless manager by default.



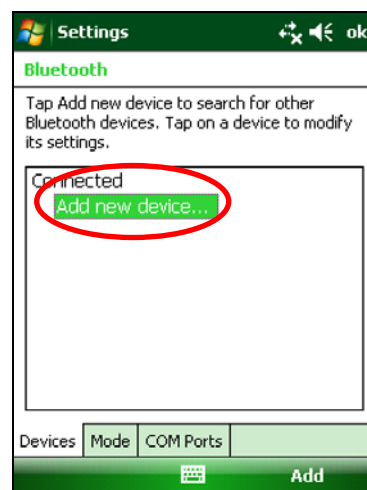
4. Use the wireless manager to enable *Bluetooth*.



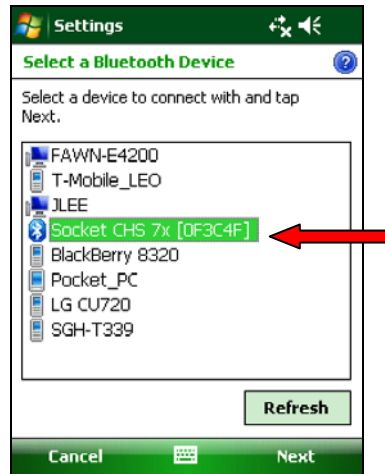
5. Tap **Start**  | **Settings** | **Connections** tab | **Bluetooth**.



6. In the *Bluetooth* utility, tap **Add new device...** Alternatively, tap **Add** at the bottom of the screen.

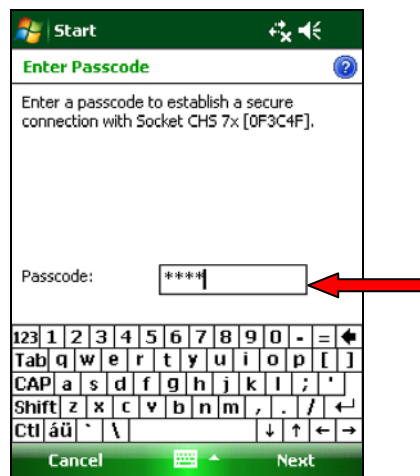


7. In the device list, tap **Socket CHS 7x** or **Socket 7Xi**.

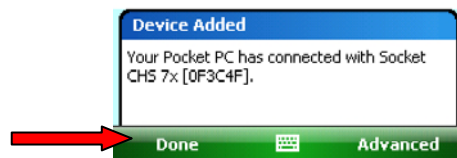


*In the device search, the CHS will appear as Socket CHS 7x [xxxxxx] for the 7X and 7XRx or Socket 7Xi [xxxxxx] for the 7Xi and 7XiRx. The characters in brackets are the last six characters of the CHS Bluetooth Device Address (BDA), which is labeled inside the battery compartment.*

8. When prompted for a passcode, enter **0000** (four zeroes). Tap **Next**.



9. After the SoMo connects to the CHS, tap **Done**.



*The CHS will beep once after it has connected and is ready to scan barcodes. The LED will also blink blue once every 3 seconds.*

10. The CHS will now appear in the *Bluetooth* devices list. Tap **ok**.

11. Tap **X** to close the Connections screen.

### To scan barcodes:

1. Open your application. Place the cursor where you want to enter data.
2. Hold the CHS about 4 inches (10 cm) from the barcode and press and hold the trigger button. An aiming beam will appear for 3 seconds. Keep your hand steady while scanning.



For example, try scanning the following barcode:



*After data is read and sent to the computer, by default, the CHS will beep once and vibrate, the LED will flash green, and the beam will turn off.*



*By default, a carriage return is applied after scanned barcode data is entered. To disable the automatic carriage return, you can use the [Command Barcodes](#) (use the Data Editing barcode for Data As Is).*



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

### To Disconnect:

To disconnect, turn off the CHS. Press and hold the power button for at least 3 seconds, until the CHS beeps twice (high-low) and the blue LED turns off.

### Automatic Reconnection:

After you power on the CHS, it will automatically try to connect to the last computer it paired and connected to. Make sure your computer is in range with *Bluetooth* enabled.

If the CHS is connected to your computer and gets disconnected, it will try to reconnect. Make sure the computer is on and in range. If the CHS cannot reconnect after several attempts, it will emit a long beep. Press the trigger button to restart the reconnection process.



See [Appendix F](#) for unpairing instructions.

## OPTION 2: USING THE CHS IN SPP MODE

Note: The HID only versions ([Revisions A-C](#)) of the CHS 7X and 7XRx do not support SPP mode. All revisions of the 7Xi and 7XiRx support SPP mode.

### To install SocketScan 10 software:

If you have the Socket SoMo<sup>®</sup> 650 running Windows Mobile 6 Service Pack 8 or later, SocketScan 10 is pre-loaded. To install, in the Today screen, tap **Getting Started**.

Advanced Users: See [Appendix G](#) for CAB file installation instructions.

1. Make an active connection between your PDA and a host PC. Use a USB / serial connection cable or cradle and Windows Mobile Device Center or ActiveSync, free from Microsoft. <http://www.microsoft.com/windowsphone/en-us/howto/wp6/sync/installing-wmdc.aspx>
2. Make sure *Bluetooth* is enabled on your PDA.
3. Access the SocketScan 10 installation file, either from the Socket website or the SocketScan 10 installation CD.
  - **To install from a web download** (recommended to ensure the latest software):
    - Open: <http://www.socketmobile.com/support/downloads/data-collection/series7/ss10/>
    - Click on the link for the **exe** file.

### SocketScan 10



Software & Drivers

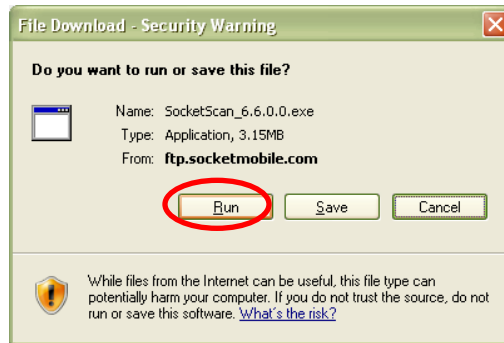
Manuals & Documentation

Title/Description	Resources	Download
<b>SocketScan 10</b> SocketScan 10 is a scanner keyboard wedge that provides basic scanner connection management, transferring scanned barcodes to the active application running on your Windows XP/Vista/7, Windows Mobile or BlackBerry device as though they were typed directly from a keypad. SocketScan 10 is designed for use with the Bluetooth Cordless Hand Scanner (CHS) Series 7 v3 (see <a href="#">release notes</a> for supported CHS models).  <b>Supported Platforms:*</b> Windows 7/Vista/XP Windows Mobile 6 BlackBerry OS (v5.0.0.714 or later)	<a href="#">Release Notes [txt]</a> <a href="#">Documents [pdf]</a>	<a href="#">SocketScan 12.0 MB [exe]</a>

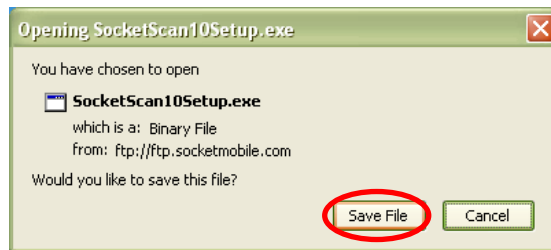
- **To install from the SocketScan 10 installation CD:**
  - Insert the CD into the CD drive of your computer. It should auto-run. (If the CD does not auto-run, use My Computer or File Explorer to access your CD drive and click on setup.exe)
  - In the Getting Started with SocketScan wizard, click on the **Installation** link on the left side. Scroll down to the section for Windows Desktop and click **Install**.

4. Download and run the installation file.

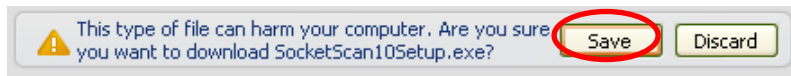
- Internet Explorer: In the Security Warning screens, click **Run**. When asked if you want to run the file, click **Run**.



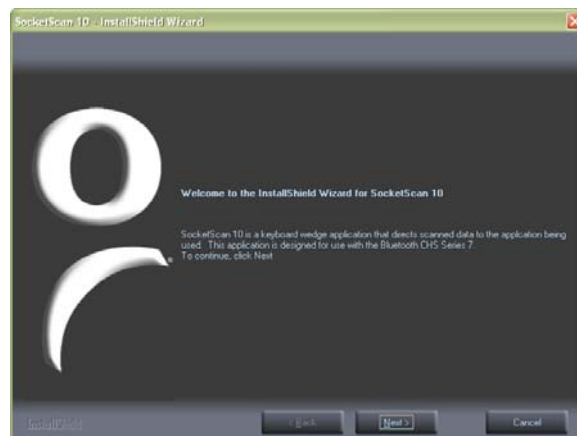
- Firefox: Click **Save File**. In the Downloads list, double-click **SocketScan10Setup.exe**. In the warning screen, click **OK**.



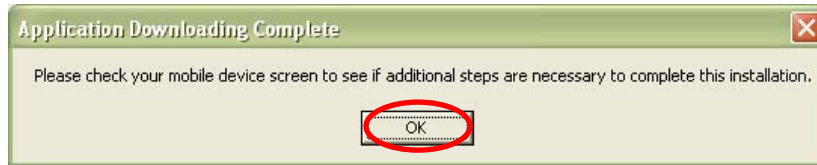
- Chrome: Click **Save** at the bottom of the screen. Click on the link for **SocketScan10Setup.exe**. In the Security Warning screen, click **Run**.



5. Follow the installation wizard to install software for Windows Mobile.



6. Your computer will instruct you to check your mobile device for additional installation steps. Click **OK**. In the last screen of the wizard, click **Finish**.



7. Choose where you would like to install the software. Tap **Install**.
8. After installation, the PDA will report a soft reset is required. Tap **Yes**.


**To pair the CHS with your PDA:**



*You only need to pair the CHS with your PDA the first time you try to connect.*




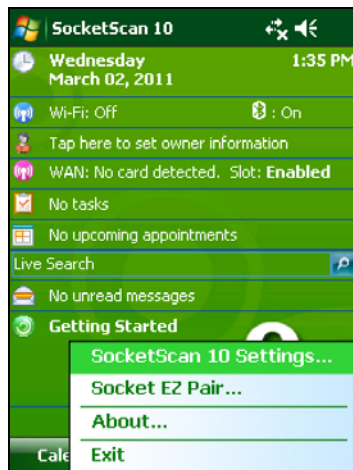
*If using the HTC HD2 running Windows Mobile 6.5, make sure HTC Sense is disabled. Tap **Start | Settings**. In the bottom right corner, tap **Menu | All Settings**. Tap **Today | Items** tab. Uncheck **HTC Sense**.*

1. Turn on *Bluetooth* on your PDA. Make sure it is Discoverable (i.e., visible to other *Bluetooth* devices).
2. Tap **Start**  | **Programs | SocketScan 10 folder | SocketScan 10**.

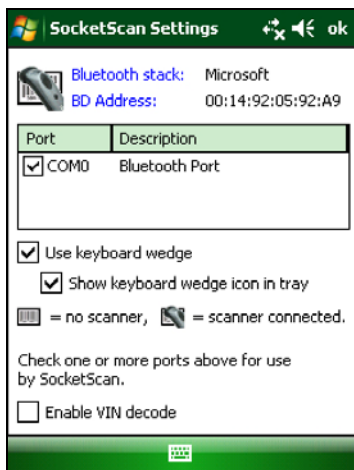


**SocketScan  
10**


3. Tap **Start**  | **Today**.
4. Tap and hold your stylus on the SocketScan icon . In the pop-up menu, tap **SocketScan 10 Settings**.

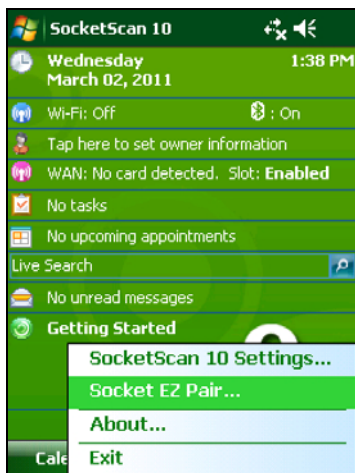


5. Make sure an incoming COM port is selected for SocketScan 10 to use. Tap **ok**.

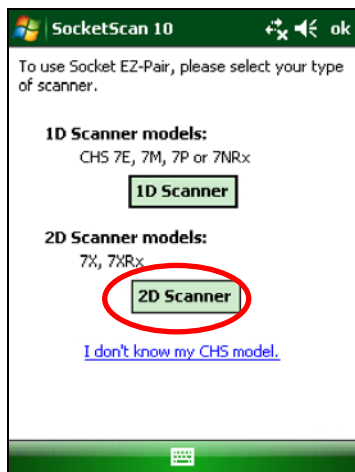


For more information about keyboard wedge and VIN decode options, please see [SocketScan 10 Settings](#).

6. Tap the SocketScan icon in the Today screen . In the pop-up menu, tap **Socket EZ Pair**.



7. Tap **2D Scanner**.

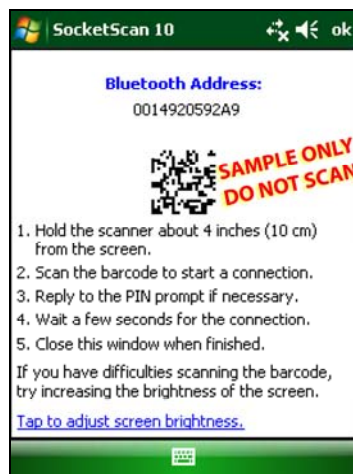


8. Power on the CHS. Press and hold the small power button until the LED turns blue and the CHS beeps twice (low-high).



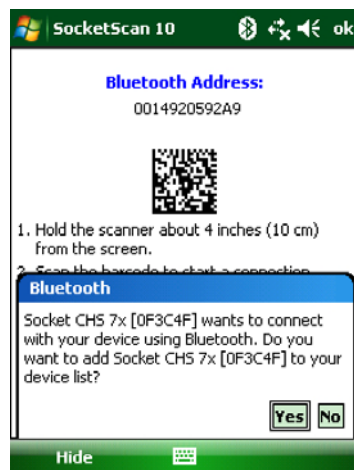
*The LED blinks blue once per second to show that the Bluetooth radio is on but not connected.*

9. Scan the barcode that appears on the screen of your PDA.



*If you have trouble scanning the barcode, you may need to adjust the brightness of your PDA screen. Tap on the link at the bottom of the screen.*

10. The PDA will automatically try to pair with the CHS. If prompted to allow this pairing, tap **Yes**.





11. If prompted for a passkey, enter **0000** (four zeroes).



TIP

*Only devices running Bluetooth 2.0 will prompt for a passkey.*

12. Your PDA will report that the pairing is complete. Click **Done**.

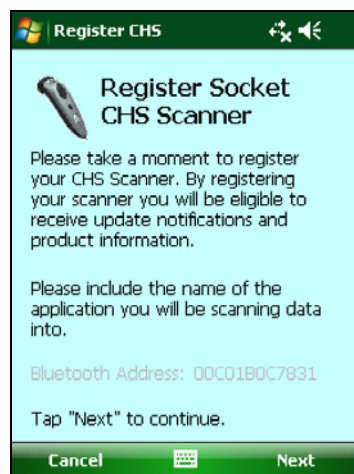


TIP

*The CHS will beep once after it has connected and is ready to scan barcodes. The LED will also blink blue once every 3 seconds, and a CHS icon will appear in the task tray in the Today screen.*



13. The CHS registration screen will appear. If desired, register your product.



14. Tap **ok** to close the EZ Pair screen.

### To scan barcodes:

1. Open your application. Place the cursor where you want to enter data.
2. Hold the CHS about 4 inches (10 cm) from the barcode and press and hold the trigger button. An aiming beam will appear for 3 seconds. Keep your hand steady while scanning.



For example, try scanning the following barcode:



*After data is read and sent to the PDA, by default, the CHS will beep once and vibrate, the LED will flash green, and the beam will turn off. You can use the [Scanner Settings utility](#) to modify the beep / LED / vibrate settings.*



*By default, a carriage return is applied after scanned barcode data is entered. To disable the automatic carriage return, you can use the [Scanner Settings utility](#) or [Command Barcodes](#) (use the Data Editing barcode for Data As Is).*



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

### To Disconnect:

To disconnect, turn off the CHS. Press and hold the power button for at least 3 seconds, until the CHS beeps twice (high-low) and the blue LED turns off.

### Automatic Reconnection:

After you power on the CHS, it will automatically try to connect to the last computer it paired and connected to. Make sure your computer is in range with *Bluetooth* enabled and SocketScan 10 is running.

If the CHS is connected to your computer and gets disconnected, it will try to reconnect. Make sure the computer is on and in range. If the CHS cannot reconnect after several attempts, it will emit a long beep. Press the trigger button to restart the reconnection process.



See [Appendix F](#) for unpairing instructions.

## SOCKETSCAN 10 SPECIAL FEATURES (SPP MODE ONLY)

SocketScan 10 software offers a variety of special features:

- **Task tray icon** – Indicates CHS connection status at a glance
- **Basic scanner information** – Quick view of basic scanner properties
- **SocketScan settings** – Utility for configuring COM port, keyboard wedge, task tray icon, and VIN mode
- **Scanner settings** – Utility lets you view *Bluetooth* properties, battery level, adjust beep / LED / vibrate settings, test barcodes, and more
- **Socket EZ Pair** – Feature lets you quickly pair the CHS with your SoMo by scanning an onscreen barcode
- **About** – Software version information

### Task Tray Icon (visible in Today screen)



CHS not connected




CHS connected

### Basic Scanner Information



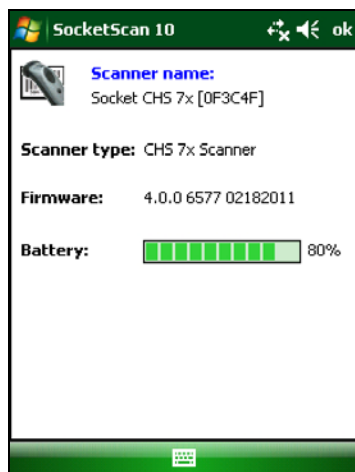
TIP

You can only view Basic Scanner Properties when the CHS is connected to your PDA. To view more detailed scanner properties, use [Scanner Settings](#).

1. Tap on the CHS icon  in the task tray. In the pop-up menu, tap **Socket CHS 7x** or **Socket 7Xi**.



2. A screen will appear displaying basic information about your CHS, including the *Bluetooth* friendly name, scanner type, firmware, and battery level.



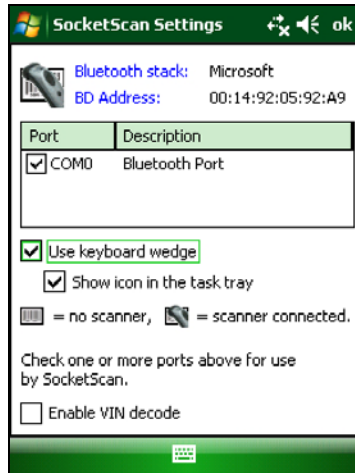
3. After viewing the information, click **ok** to exit.

## SocketScan 10 Settings



You can only view Basic Scanner Properties when the CHS is connected to your SoMo.

1. Tap on the SocketScan 10 icon  or  in the task tray. In the pop-up menu, tap **SocketScan 10 Settings...**
2. A screen will appear displaying the SocketScan software settings, as well as the *Bluetooth* stack manufacturer and *Bluetooth* Device Address.




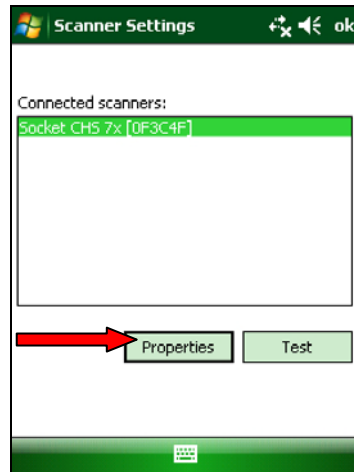
- **Port:** Select the incoming *Bluetooth* serial COM port that you would like SocketScan to use to connect to the CHS (REQUIRED).
  - **Use keyboard wedge:** Should be selected in most cases unless you plan to use the SDK.
  - **Show keyboard wedge icon in tray:** Select to have a task tray icon appear that conveniently indicates whether the CHS is connected to the PDA.
  - **Enable VIN decode:** Select to have SocketScan 10 only send a 17-character VIN (i.e., omit any prefix/suffix included in a VIN barcode).
3. After making any changes, tap **ok** to save.

## Scanner Settings



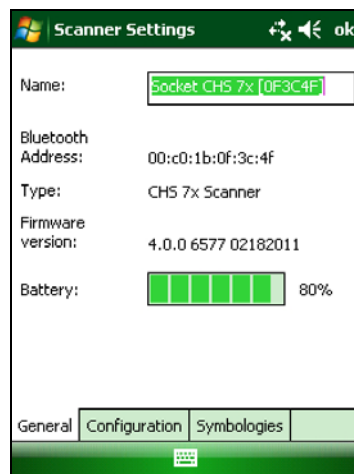
You can access Scanner Settings only when the CHS is connected to your PDA.

1. Tap on the CHS icon  in the task tray. In the pop-up menu, tap **Scanner settings...**
2. The Scanner Settings screen will appear with an empty field, and the CHS will beep twice.
3. After a few seconds, the CHS will beep once, and your CHS will appear in the list. Make sure your CHS is selected, and tap **Properties**.

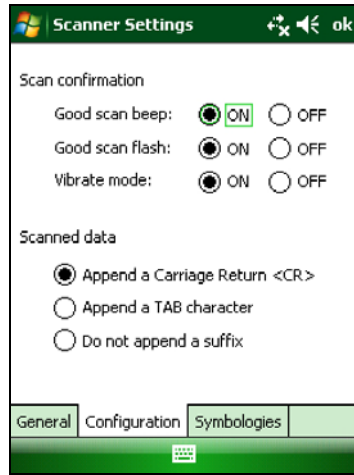


4. After the utility has read your scanner settings, the General properties screen will appear, reporting the *Bluetooth* friendly name, *Bluetooth* Device Address, Type of device, firmware version, and battery level.

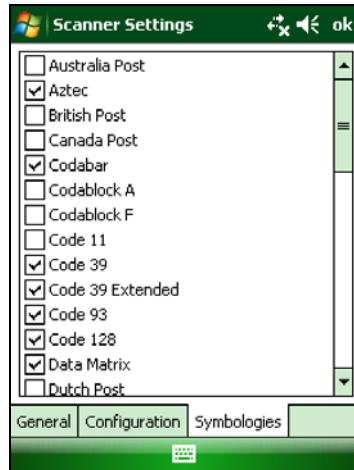
If desired, you can change the *Bluetooth* friendly name of the CHS.



5. Tap on the **Configuration** tab. If desired, modify how the CHS confirms a good scan and/or select a data suffix to automatically add to each instance of scanned data.



6. Tap on the **Symbologies** tab. If desired, modify which symbologies the CHS will be able to read.



*Enabling all possible symbologies may slow the decoding process.*



*The RSS symbology is now known as GS1 DataBar.*

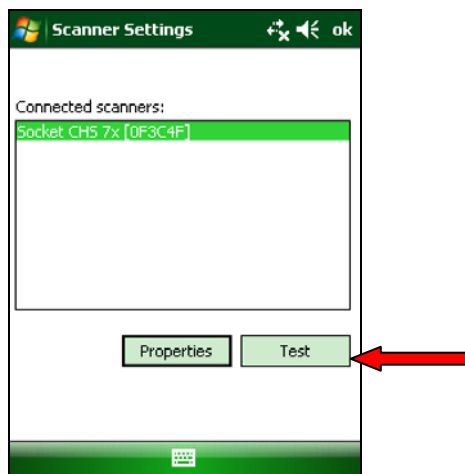


*If you want to read UPC-A symbols, disable the GS1 DataBar option so that GS1 DataBar symbols don't get mistakenly decoded.*

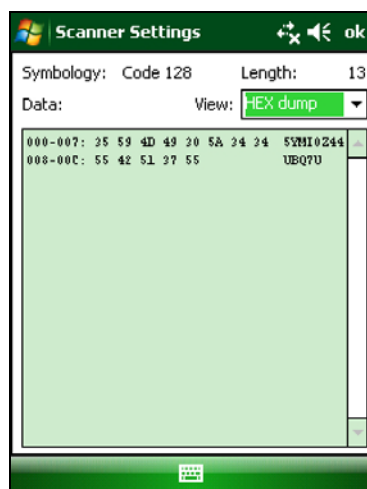


*Keep Data Matrix enabled so you can scan the onscreen barcode in Socket EZ Pair.*

7. Tap **ok** to exit the Scanner Settings. If desired, tap **Test** to test scanning a barcode.



8. Scan a barcode that you would like information about. SocketScan will report the barcode's symbology, data length, and data, in your choice of ASCII text or Hexadecimal format.





9. After testing a barcode, tap **ok**. Click **ok** to exit Scanner Settings.



*After you exit Scanner Settings, the CHS will beep twice, followed by a single beep.*

## About

1. Tap on the SocketScan 10 icon  or  in the task tray. In the pop-up menu, tap **About...**
2. The About screen will appear, reporting information about your version of SocketScan 10.



3. After viewing the information, click **ok** to exit.



## 5 | SETUP FOR APPLE

This chapter explains how to install and use the Socket *Bluetooth* Cordless Hand Scanner (CHS) 7X, 7XRx, 7Xi and 7XiRx with Apple devices / computers running iOS or Mac OS.



Made for the following Apple devices:

- iPod touch (4<sup>th</sup> generation)
- iPod touch (3<sup>rd</sup> generation)
- iPhone 4
- iPhone 3GS
- iPhone 3G
- iPad 2
- iPad

Compatible Mac / MacBook computers run Mac OS X 10.4 to 10.6.6 with *Bluetooth* driver 2.2.4f3 (v1965) or 2.3.7f1 (latest versions at time of testing). Other computers running Mac OS may be compatible but have not been tested.

Before you begin the instructions in this chapter, make sure you have charged the CHS, as described in [Chapter 2, “Scanner Setup”](#)

For the latest compatibility information, please refer to the CHS Series 7 Spec Sheet at: [http://ww1.socketmobile.com/Libraries/Documents/CHS\\_Series\\_7\\_Spec\\_Sheet.sflb.ashx](http://ww1.socketmobile.com/Libraries/Documents/CHS_Series_7_Spec_Sheet.sflb.ashx)

### CONNECTION OPTIONS

For Apple iOS and Mac OS, the CHS offers two different connection options. For more information about HID and SPP, please see [Chapter 1](#).

Bluetooth Mode	Pros	Cons
<b>HID</b> Instructions on next page	<ul style="list-style-type: none"> <li>• No software installation needed</li> <li>• Compatible with all revisions of 7X, 7XRx, 7Xi and 7XiRx</li> </ul>	<ul style="list-style-type: none"> <li>• Limited configuration options</li> <li>• Limited to printable ASCII and some non-printable characters</li> <li>• Less efficient data communications for barcodes containing lots of data</li> <li>• iPhone 3G not supported</li> </ul>
<b>iOS (equivalent to SPP)</b> Instructions on <a href="#">page 53</a>	<ul style="list-style-type: none"> <li>• Apple tested and certified</li> <li>• Many scanner and collected data configuration options</li> <li>• Broad character set, including non-printable ASCII, international keyboards</li> <li>• More efficient data communications for barcodes containing lots of data</li> <li>• 10 hours of developer support included</li> </ul>	<ul style="list-style-type: none"> <li>• Compatible application required</li> <li>• No SocketScan 10 keyboard wedge software offered</li> <li>• Compatible only with 7Xi and 7XiRx</li> </ul>



Socket highly recommends that you use the CHS in iOS mode. To learn more, read our white paper: [http://www.socketmobile.com/pdf/techbrief/socketscan-10-sdk\\_white-paper.pdf](http://www.socketmobile.com/pdf/techbrief/socketscan-10-sdk_white-paper.pdf).



The screenshots shown in this chapter may differ from your device screen depending on your device type.

## OPTION 1: USING THE CHS IN HID MODE

### To pair the CHS with your Apple device:



You only need to pair the CHS with your Apple device the first time you try to connect.



By default, the CHS is in HID mode for Keyboard devices. If you changed the CHS to a different mode, refer to the [Command Barcodes](#) to change it to the correct mode.

1. Power on the CHS. Press and hold the small power button until the LED turns blue and the CHS beeps twice (low-high).



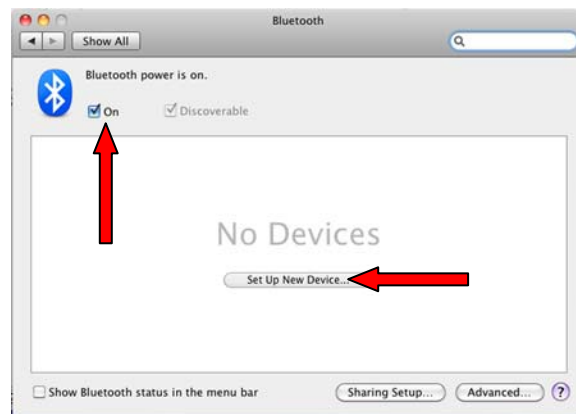
The LED blinks blue once per second to show that the Bluetooth radio is on but not connected.

2. Start a *Bluetooth* device search.

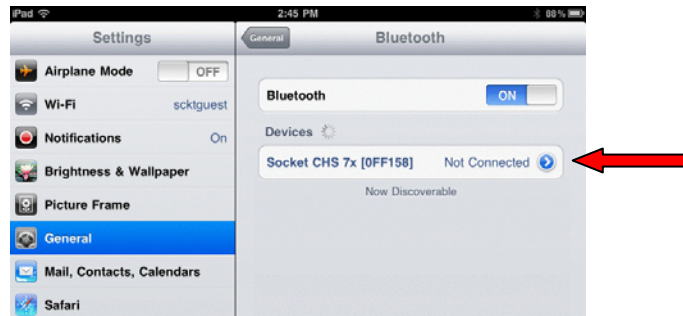
- iOS: Tap **Settings | General | Bluetooth**. Turn on *Bluetooth*. A *Bluetooth* device search will begin.



- Mac OS: Click **System Preferences | Internet & Wireless | Bluetooth**. In *Bluetooth* preferences, select the **On** checkbox. Click **Set up New Device...** A *Bluetooth* device search will begin.



3. In the device list, tap on **Socket CHS 7x** or **Socket 7Xi**. Tap **Pair**.



*In the device list, the CHS will appear as Keyboard, then as Socket CHS 7x [xxxxxx] for the 7X and 7XRx or Socket 7Xi [xxxxxx] for the 7Xi and 7XiRx. The characters in brackets are the last six characters of the CHS Bluetooth Device Address (BDA), which is labeled inside the battery compartment.*

4. The CHS will connect to the Apple device. If prompted, enter the passkey **0000** (four zeroes).



*The CHS will beep once after it has connected and is ready to scan barcodes. The LED will also blink blue once every 3 seconds.*



*For iOS, the soft keyboard will automatically disappear a few seconds after the CHS connects, because the CHS is detected as a Bluetooth keyboard. To make the onscreen keyboard appear while connected to the CHS, see instructions on next page.*

### To scan barcodes:

1. Open your application. Place the cursor where you want to enter data.
2. Hold the CHS about 4 inches (10 cm) from the barcode and press and hold the trigger button. An aiming beam will appear for 3 seconds. Keep your hand steady while scanning.



For example, try scanning the following barcode:



*After data is read and sent to the Apple device, by default, the CHS will beep once and vibrate, the LED will flash green, and the beam will turn off.*



By default, a carriage return is applied after scanned barcode data is entered. To disable the automatic carriage return, you can use the [Command Barcodes](#) (use the Data Editing barcode for Data As Is).



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



Watch a video: <http://www.youtube.com/user/socketmobile#p/a/u/0/eZqb99pAbEc>

### **To Disconnect:**

To disconnect, turn off the CHS. Press and hold the power button for at least 3 seconds, until the CHS beeps twice (high-low) and the blue LED turns off.



After the iPad disconnects from the CHS, the soft keyboard will automatically reappear within a few seconds.

### **Automatic Reconnection:**

After you power on the CHS, it will automatically try to connect to the last computer it paired and connected to. Make sure your computer is in range with *Bluetooth* enabled.

If the CHS is connected to your computer and gets disconnected, it will try to reconnect. Make sure the computer is on and in range. If the CHS cannot reconnect after several attempts, it will emit a long beep. Press the trigger button to restart the reconnection process.



See [Appendix F](#) for unpairing instructions.

### **Simultaneous Scanning and Soft Keyboard Support:**

Revisions G and later of the CHS 7X and 7XRx and all revisions of the 7Xi and 7XiRx support simultaneous use of the barcode scanner and the onscreen keyboard while entering data into an application. This feature is enabled by default and can be modified by scanning a special command barcode.

1. Connect the CHS to your Apple device.
2. Open your application and place the cursor where you want to enter data.
3. You can begin scanning barcodes. To open or close the onscreen keyboard, quickly double-press the CHS power button (like double-clicking a mouse).



After you double-press the power button, the CHS will beep to indicate that the onscreen keyboard was enabled / disabled.



Watch a video: <http://www.youtube.com/watch?v=VhttoC6ROs>

## OPTION 2: USING THE CHS IN IOS MODE

**The only CHS versions compatible with Apple iOS mode (equivalent to SPP mode) are the 7Xi and 7XiRx. In iOS mode, the CHS can only scan barcodes into applications developed with the SocketScan 10 SDK.**

The CHS 7Xi and 7XiRx are made for the following Apple devices:

- iPod touch (4<sup>th</sup> generation)
- iPod touch (3<sup>rd</sup> generation)
- iPhone 4
- iPhone 3GS
- iPhone 3G
- iPad2
- iPad



To learn more about compatible applications available in the App Store™ online store:

- See a list of apps on the Socket website (coming soon)
- Contact your enterprise solution provider, who can also help install and set up your iOS compatible application.

To purchase the SDK, please visit: <http://www.socketmobile.com/products/sdk/>

- CD only: SKU# SW1244-1321
- CD with scanner bundle: SKU# SW1245-1322

### To pair and connect the CHS and Apple device:



TIP

*You only need to pair the CHS with your Apple device the first time you try to connect.*



TIP

*The correct Bluetooth connection procedure may vary depending on which application you are using. Please refer to your application documentation for more information. Internet access may be required.*



TIP

*The CHS needs to be configured for iOS mode. Your application may have specific instructions for configuring the CHS. Otherwise you can use the Command Barcode for iOS mode in [Appendix E](#).*

1. Power on the CHS. Press and hold the small power button until the LED turns blue and the CHS beeps twice (low-high).



TIP

*The LED blinks blue once per second to show that the Bluetooth radio is on but not connected.*

2. Open the CHS 7Xi compatible application that you installed.
3. Enable *Bluetooth* on the Apple device. A *Bluetooth* device search will begin.



4. In the list of found devices, select **iOS Socket 7Xi**. If prompted, tap **Pair**.



**TIP**

*In the device search, the CHS will appear as iOS Socket 7Xi [xxxxxx]. The characters in brackets are the last six characters of the CHS Bluetooth Device Address (BDA), which is labeled inside the battery compartment.*



**TIP**

*The CHS will beep once after it has connected and is ready to scan barcodes. The LED will also blink blue once every 3 seconds.*



**TIP**

*If the CHS is listed as Socket 7Xi, the scanner is in HID mode. Scan the barcode on the previous page to configure it for iOS mode and restart the Bluetooth search.*

### To scan barcodes:

1. In your application, place the cursor where you want to enter data.
2. Hold the CHS about 4 inches (10 cm) from the barcode and press and hold the trigger button. An aiming beam will appear for 3 seconds. Keep your hand steady while scanning.



For example, try scanning the following barcode:



*After data is read and sent to the Apple device, by default, the CHS will beep once and vibrate, the LED will flash green, and the beam will turn off.*



*By default, a carriage return is applied after scanned barcode data is entered.*



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



Watch a video: <http://www.youtube.com/user/socketmobile#p/a/u/0/eZqb99pAbEc>

#### **To Disconnect:**

To disconnect, turn off the CHS. Press and hold the power button for at least 3 seconds, until the CHS beeps twice (high-low) and the blue LED turns off.



*After the iPad disconnects from the CHS, the soft keyboard will automatically reappear within a few seconds.*

#### **Automatic Reconnection:**

After you power on the CHS, it will automatically try to connect to the last computer it paired and connected to. Make sure your computer is in range with *Bluetooth* enabled.

If the CHS is connected to your computer and gets disconnected, it will try to reconnect for 45 seconds. Make sure the computer is on and in range. If the CHS cannot reconnect after several attempts, it will emit a long beep. Press the trigger button to restart the reconnection process.



See [Appendix F](#) for unpairing instructions.



## 6 | SETUP FOR ANDROID

This chapter explains how to install and use the *Bluetooth Cordless Hand Scanner (CHS) 7X or 7XRx* with a *Bluetooth* enabled device running Android 2.1 to 3.x.

For a list of compatible devices, refer to the CHS Spec Sheet at: [http://ww1.socketmobile.com/Libraries/Documents/CHS\\_Series\\_7\\_Spec\\_Sheet.sflb.ashx](http://ww1.socketmobile.com/Libraries/Documents/CHS_Series_7_Spec_Sheet.sflb.ashx)

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, "Scanner Setup."](#)



### CONNECTION OPTIONS

For Android, the CHS offers two different connection options. For more information about HID and SPP, please see [Chapter 1](#).

Bluetooth Mode	Pros	Cons
<b>HID (Peripheral)</b>  Instructions on next page	<ul style="list-style-type: none"> <li>No software installation needed</li> <li>Compatible with all revisions of 7X, 7XRx, 7Xi and 7XiRx</li> </ul>	<ul style="list-style-type: none"> <li>Limited configuration options</li> <li>Limited to printable ASCII and some non-printable characters</li> <li>Less efficient data communications for barcodes containing lots of data</li> <li>Compatible only with Android 2.2 to 3.x devices with support for HID Peripheral devices</li> </ul>
<b>SPP</b>  Instructions on <a href="#">page 60</a>	<ul style="list-style-type: none"> <li>Many configuration options</li> <li>Broad character set, including non-printable ASCII, international keyboards</li> <li>More efficient data communications for barcodes containing lots of data</li> <li>Compatible with Android 2.1 to 3.x</li> <li>Compatible with all revisions of 7Xi and 7XiRx</li> </ul>	<ul style="list-style-type: none"> <li>Software installation required</li> <li>Compatible only with <a href="#">Revision D or later</a> of 7X and 7XRx</li> </ul>



TIP

Socket highly recommends that you use the CHS in SPP mode. To learn more, read our white paper: [http://www.socketmobile.com/pdf/techbrief/socketscan-10-sdk\\_white-paper.pdf](http://www.socketmobile.com/pdf/techbrief/socketscan-10-sdk_white-paper.pdf).



TIP

The instructions in this chapter are based on the Motorola Droid Pro running Android 2.2 in portrait mode. Menus will appear differently on different devices.



TIP

When SocketScan 10 is running, you can only use the keyboard provided by SocketScan 10. You cannot use SWYPE or any custom keyboards. To enable use of another keyboard, you can use the SocketScan 10 SDK (available separately).

<http://www.socketmobile.com/products/bluetooth-barcode-scanners/software-development-kit/>



## OPTION 1: USING THE CHS IN HID MODE



*Compatible with Android 2.2 to 3.x devices that support HID for Peripheral devices.*

### To pair the CHS with your Android device:



*You only need to pair the CHS with your Android device the first time you try to connect.*

1. Power on the CHS. Press and hold the small power button until the LED turns blue and the CHS beeps twice (low-high).



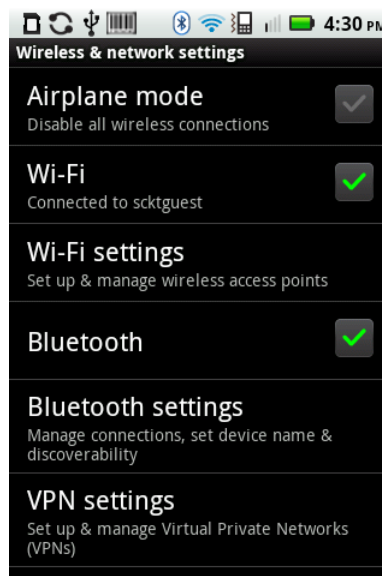
*The LED blinks blue once per second to show that the Bluetooth radio is on but not connected.*

2. Make sure the CHS is in HID mode for Peripheral Devices.

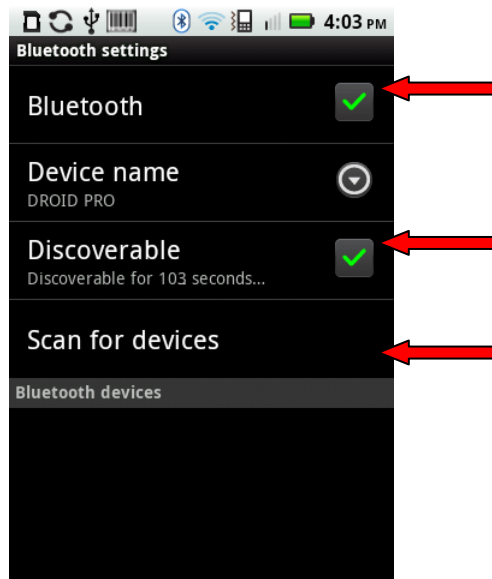
First scan this barcode to change the CHS to HID mode for Peripherals.



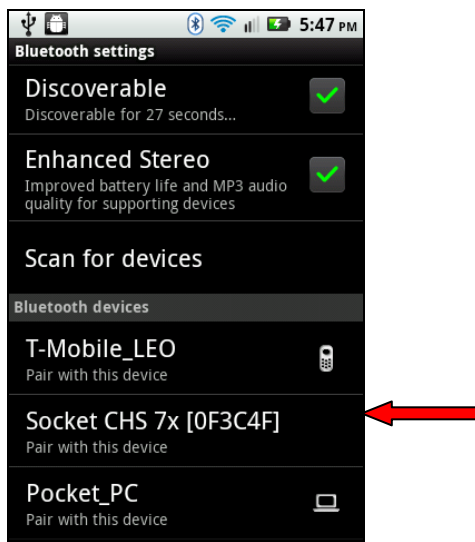
3. Touch **Home**  | **Menu** | **Settings** | **Wireless & networks** | **Bluetooth settings**.



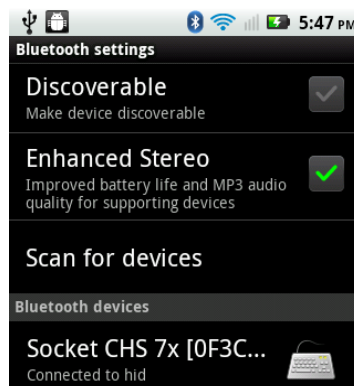
4. Make sure the device has *Bluetooth* on and is **Discoverable**. Touch **Scan for devices**.



5. In the list of found devices, select **Socket CHS 7x** or **Socket 7Xi**.



6. The CHS will beep once after it has connected and is ready to scan barcodes. The LED will also blink blue once every three seconds, and a Keyboard icon will appear next to the scanner listing.



### To scan barcodes:

1. Open your application. Place the cursor where you want to enter data.
2. Press the trigger button to scan a barcode. Make sure the aiming beam extends across the entire width of the barcode.



For example, try scanning the following barcode:



TIP

*After data is read and sent to the phone/tablet, by default the CHS will beep once, the LED will flash green, and the beam will turn off. The CHS will also vibrate to indicate that data is read. You can use [Command Barcodes](#) to modify the beep / LED / vibrate settings.*



TIP

*By default, a carriage return is applied after scanned barcode data is entered. To disable the automatic carriage return, you can use the [Command Barcodes](#) (use the Data Editing barcode for Data As Is).*



TIP

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

### To Disconnect:

To disconnect, turn off the CHS. Press and hold the power button for at least 3 seconds, until the CHS beeps twice (high-low) and the blue LED turns off.

### Automatic Reconnection:

After you power on the CHS, it will automatically try to connect to the last phone/tablet it paired and connected to. Make sure your phone/tablet is in range with *Bluetooth* enabled.

If the CHS is connected to your phone/tablet and gets disconnected, it will try to reconnect. Make sure the phone/tablet is on and in range. If the CHS cannot reconnect after several attempts, it will emit a long beep. Press the trigger button to restart the reconnection process.



TIP

See [Appendix F](#) for unpairing instructions.

## OPTION 2: USING THE CHS IN SPP MODE

1. If you installed barcode scanning software for your phone camera, scan this barcode to launch the SocketScan 10 page in Android Market.



Alternatively, you can do one of the following:

- Open Android Market and search for SocketScan.



- In a web browser, open the Amazon Appstore for Android page:  
<http://www.amazon.com/Socket-Mobile-SocketScan-CHS-Scanners/dp/B004X84VZA>

2. Follow the onscreen instructions to download and install SocketScan 10 software.



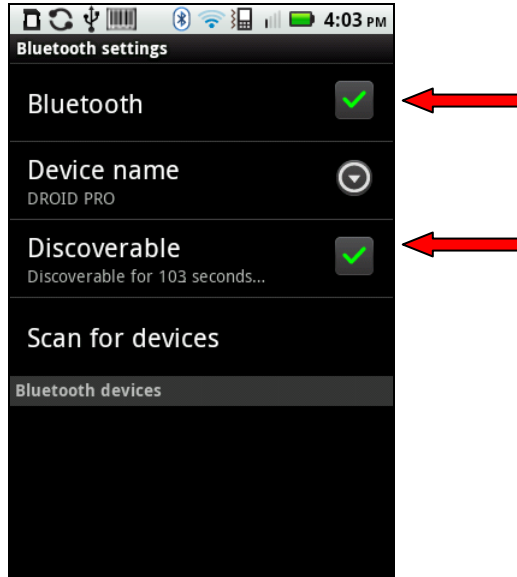
*If prompted, allow the application to access Bluetooth connections and settings, and/or modify USB storage / SD card contents*

**To pair the CHS with your Android device:**

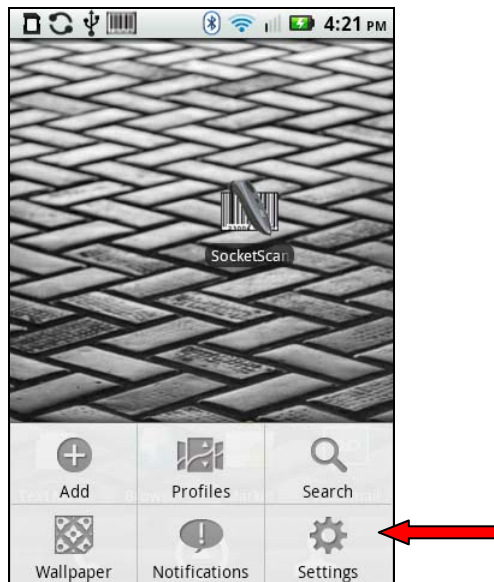


You only need to pair the CHS with your Android device the first time you try to connect.

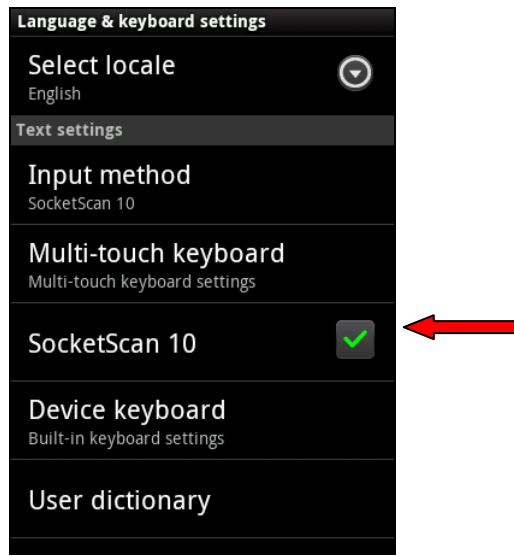
1. Make sure your Android device has *Bluetooth* on and is Discoverable.





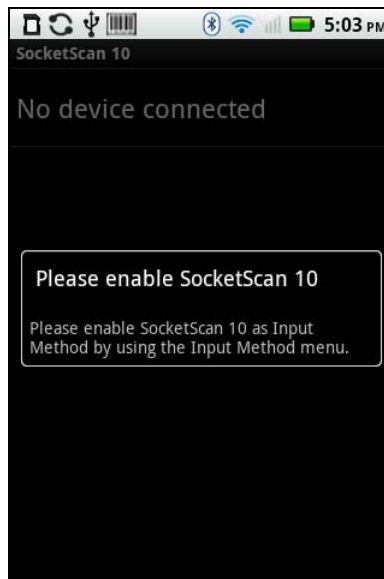
2. Touch **Home**  | **Menu** | **Settings**.



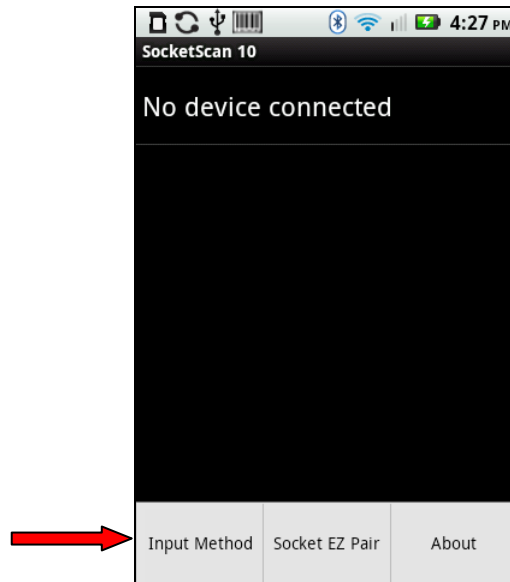
3. Touch **Language and Keyboard** or **Locale and Text**. Make sure **SocketScan 10** is selected.



4. Open **SocketScan 10** . For some devices, an icon will appear on the Home screen. For other devices, you may need to touch **Menu** and open **Apps / Programs**.
5. A message will tell you to enable SocketScan 10 as the input method. Touch **Back** .



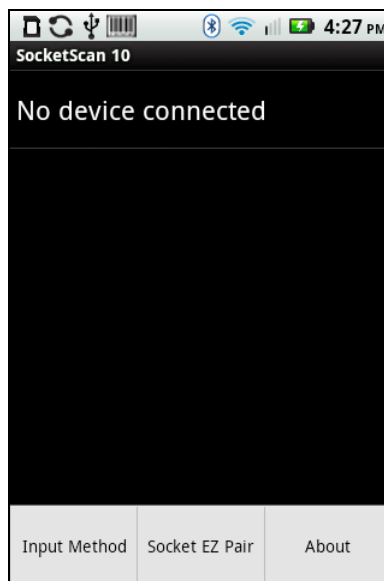
6. Touch **Menu | Input Method**.



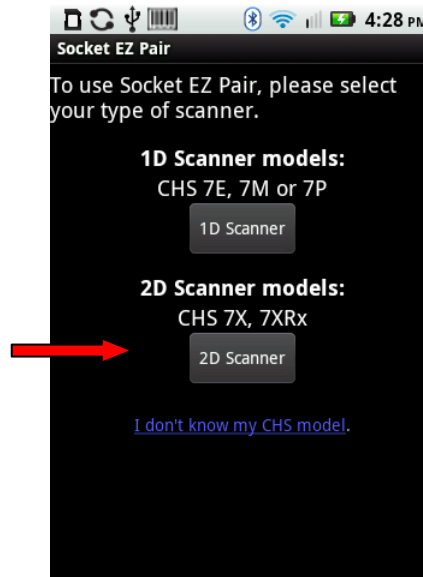
7. Make sure **SocketScan10** is selected.



8. Touch **Menu | Socket EZ Pair**.



9. Touch **2D Scanner**.

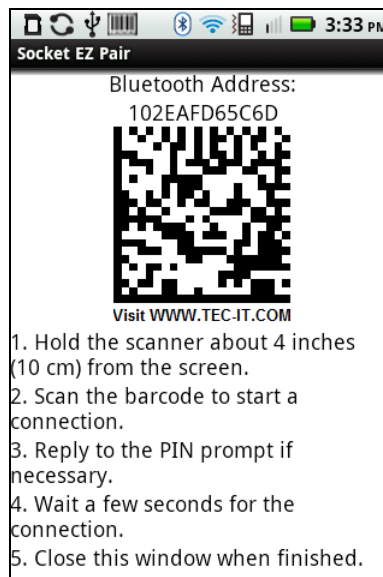


10..Power on the CHS. Press and hold the small power button until the LED turns blue and the CHS beeps twice (low-high).



*The LED blinks blue once per second to show that the Bluetooth radio is on but not connected.*

11.Scan the barcode on your Android screen. The CHS will beep 3 times.





12.The Android device will automatically try to pair and connect to the CHS. If prompted for a passkey, enter **0000** (four zeroes).



13. The CHS will beep once after it has connected and is ready to scan barcodes. The LED will also blink blue once every 3 seconds, and the icon at the top of the screen will change (see below).

**Status Bar Icon**  CHS not connected.  CHS connected.

14. Close Socket EZ Pair by touching **Back** . The SocketScan 10 screen will report the *Bluetooth* friendly name of the CHS.

15. A Socket registration icon  will also appear at the top of the screen. If desired, swipe it down to open the software and register the scanner.



*After you have connected, you can touch **Socket CHS 7x** in the main screen of SocketScan 10 to view basic scanner properties.*

### To scan barcodes:

1. Open your application. Place the cursor where you want to enter data.
2. Press the trigger button to scan a barcode. Make sure the aiming beam extends across the entire width of the barcode.



For example, try scanning the following barcode:



TIP

*After data is read and sent to the phone/tablet, by default the CHS will beep once, the LED will flash green, and the beam will turn off. The CHS will also vibrate to indicate that data is read. You can use the Scanner Settings utility (see next page) or [Command Barcodes](#) to modify the beep / LED / vibrate settings.*



TIP

*By default, a carriage return is applied after scanned barcode data is entered. To disable the automatic carriage return, you can use the Scanner Settings utility (see next page) or the [Command Barcodes](#) (use the Data Editing barcode for Data As Is).*



TIP

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

### To Disconnect:

To disconnect, turn off the CHS. Press and hold the power button for at least 3 seconds, until the CHS beeps twice (high-low) and the blue LED turns off.

### Automatic Reconnection:

After you power on the CHS, it will automatically try to connect to the last phone/tablet it paired and connected to. Make sure your phone/tablet is in range with *Bluetooth* enabled and SocketScan 10 is running.

If the CHS is connected to your phone/tablet and gets disconnected, it will try to reconnect. Make sure the phone/tablet is on and in range. If the CHS cannot reconnect after several attempts, it will emit a long beep. Press the trigger button to restart the reconnection process.



TIP

See [Appendix F](#) for unpairing instructions.

## SCANNER SETTINGS (SPP MODE ONLY)

The Scanner Settings application for the CHS enables you to configure scanner features and test scanning a barcode:

- **Basic Scanner Information** – View some basic properties of the CHS and/or change the Bluetooth friendly name.
- **Configuration** – Utility lets you adjust beep / LED / vibrate settings and configure a data suffix.
- **Symbology** – Lets you enable / disable symbologies decoded by the CHS.
- **Test** – Reports properties of a barcode you scan.



*These special features only work when the CHS is connected to your Android device.*

### To open Scanner Settings:

In the main screen of SocketScan 10, touch **Scanner Settings**.



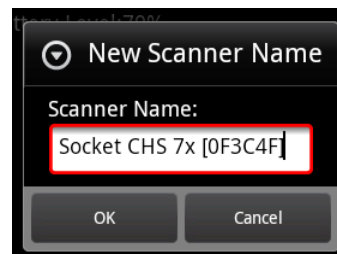
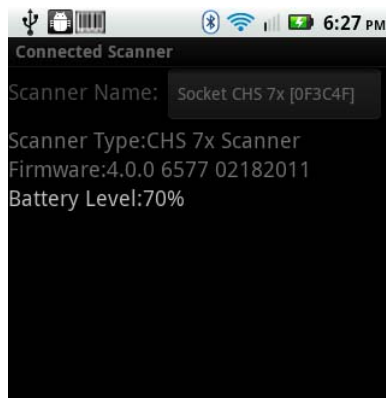
*The CHS will close SocketScan 10 Keyboard wedge, disconnect (indicated by 2 beeps (high-low)), open Scanner Settings and reconnect (indicated by a beep). It may take several seconds to reconnect.*

### Basic Scanner Information

1. In the main screen of Scanner Settings, touch **Socket CHS 7x** or **Socket 7Xi**.



2. The screen will report the *Bluetooth* friendly name, scanner type, firmware version, and battery level of your CHS. To change the *Bluetooth* friendly name, touch **Socket CHS 7x** or **Socket 7Xi**.

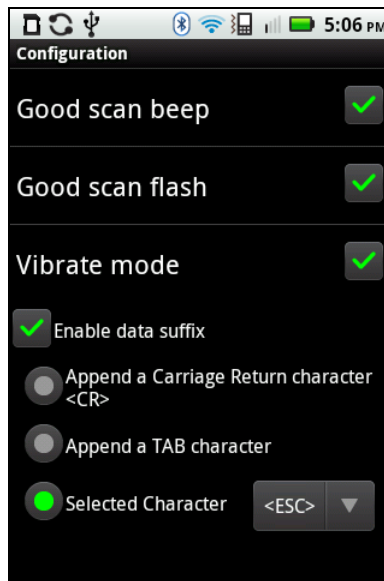


## Configuration

1. In the main screen of Scanner Settings, in the menu, touch **Configuration**.



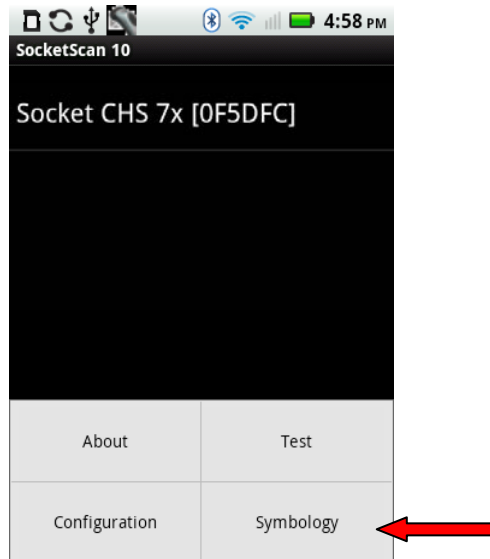
2. In the Configuration screen, enter any settings, as desired:



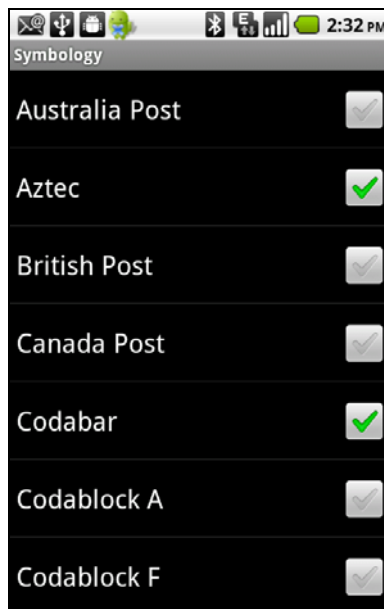
- **Good scan beep:** Select to have the CHS beep to indicate that data was successfully decoded and transmitted to the Android device.
- **Good scan flash:** Select to have the CHS LED turn green to indicate that data was successfully decoded and transmitted to the Android device.
- **Vibrate mode:** Select to have the CHS vibrate to indicate that data was successfully decoded and transmitted to the Android device.
- **Scanned data suffix:** Select if you would like to automatically add a carriage return, tab or special character or function after each scan of data.

## Symbology

1. In the main screen of Scanner Settings, in the menu, touch **Symbology**.



2. In the Symbology screen, enable or disable any symbologies (barcode types), as desired.



**TIP**

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



**TIP**

*The RSS symbology is now known as GS1 DataBar.*



**TIP**

*If you would like to read UPC-A symbols, be sure to disable GS1 DataBar so that GS1 DataBar symbols don't get mistakenly decoded.*



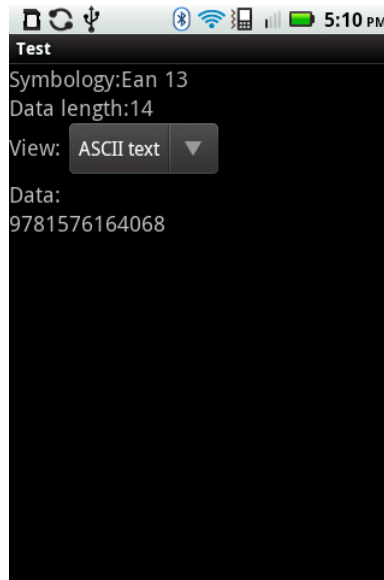
**TIP**

*Keep Data Matrix enabled so you can scan the onscreen barcode in Socket EZ Pair.*

## Test

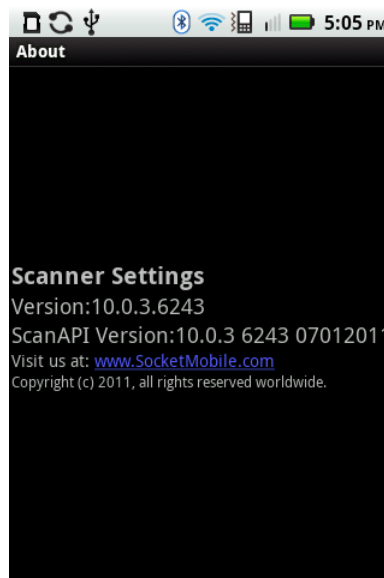
The Test feature reports the properties of a scanned barcode.

1. In the main screen of Scanner Settings, in the menu, touch **Test**.
2. In the Scan Window screen, select if you would like scanned data to appear as ASCII or hexadecimal format.
3. Scan a barcode. The Scan Window will report the symbology, data length, and data.



## About

To identify your version of Scanner Settings, in the Scanner Settings menu, touch **About**.



## 7 | SETUP FOR BLACKBERRY

This chapter explains how to install and use the *Bluetooth Cordless Hand Scanner (CHS)* with one of the following BlackBerry devices:

- BlackBerry® Bold 9700 Smartphone running BlackBerry OS 5.0.0.714 or later. Other models have not been tested with SocketScan 10 and may require a previous software version. Works in *Bluetooth SPP* mode only.
- BlackBerry PlayBook running QNX. Works in *Bluetooth HID* mode only.

Before you begin the instructions in this chapter, make sure you have charged the scanner, as described in [Chapter 2, "Scanner Setup"](#)



*HID only versions of the CHS7X or 7XRx ([Revisions A-C](#)) are compatible with BlackBerry OS. All revisions of the 7Xi are compatible with BlackBerry OS.*

## USING THE CHS IN HID MODE (BLACKBERRY PLAYBOOK)



Compatible with BlackBerry PlayBook running QNX. For BlackBerry OS smartphone, see page 75.

### To pair the CHS with your Android device:




You only need to pair the CHS with your PlayBook the first time you try to connect.

1. Power on the CHS. Press and hold the small power button until the LED turns blue and the CHS beeps twice (low-high).



The LED blinks blue once per second to show that the Bluetooth radio is on but not connected.

2. By default the CHS is in HID mode for Keyboard Devices. If you changed the CHS mode, use the appropriate [command barcode](#) to change it back to HID mode for Keyboard devices.

3. On the status bar, tap  | **Bluetooth**.

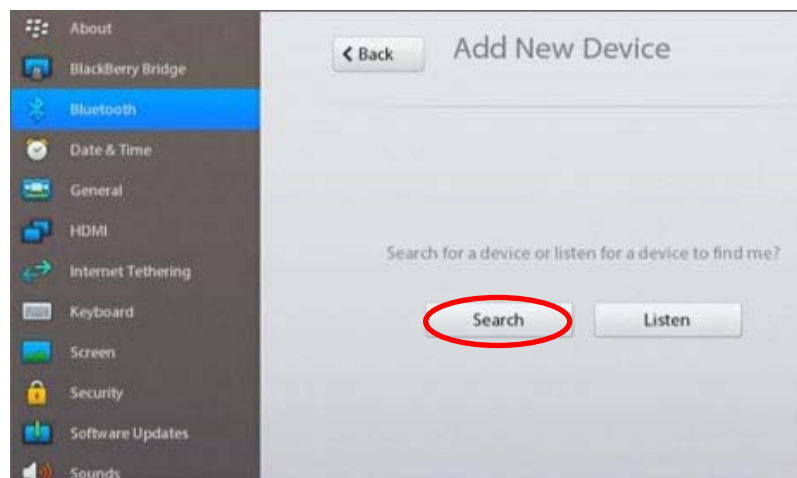




4. Make sure Bluetooth is turned **ON**. Tap **Add New Device**.



5. Tap **Search**.



6. In the list of found devices, select **Socket CHS 7x** or **Socket 7Xi**.

7. After they have paired and connected, the CHS will beep once.

### To scan barcodes:

1. Open your application. Place the cursor where you want to enter data.
2. Press the trigger button to scan a barcode. Make sure the aiming beam extends across the entire width of the barcode.



For example, try scanning the following barcode:



*After data is read and sent to the tablet, by default the CHS will beep once, the LED will flash green, and the beam will turn off. The CHS will also vibrate to indicate that data is read. You can use [Command Barcodes](#) to modify the beep / LED / vibrate settings.*



*By default, a carriage return is applied after scanned barcode data is entered. To disable the automatic carriage return, you can use the [Command Barcodes](#) (use the Data Editing barcode for Data As Is).*



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

### To Disconnect:

To disconnect, turn off the CHS. Press and hold the power button for at least 3 seconds, until the CHS beeps twice (high-low) and the blue LED turns off.

### Automatic Reconnection:

After you power on the CHS, it will automatically try to connect to the last tablet it paired and connected to. Make sure your tablet is in range with *Bluetooth* enabled.

If the CHS is connected to your tablet and gets disconnected, it will try to reconnect for a few minutes. Make sure the tablet is on and in range. If the CHS cannot reconnect, it will give a long beep. Power off and on the CHS to restart the reconnection process.



See [Appendix F](#) for unpairing instructions.

## USING THE CHS IN SPP MODE (BLACKBERRY OS)

### To install the software:

You can install SocketScan 10 software either by downloading directly to the phone or synchronizing to a host PC with BlackBerry Desktop Manager.

#### Downloading to the Smartphone

1. Make sure your phone is connected to the Internet.
2. Open the Browser to: <http://www.socketmobile.com/blackberry>
3. The SocketScan 10 for BlackBerry installation screen will appear. Read the information in the screen. If you accept the license agreement, click **I Accept**.
4. The download screen will appear. Click **Download**. The phone will download and install SocketScan 10.
5. After installation, a dialog will confirm successful installation. Click **OK**.

#### Synchronizing with a Desktop PC

Refer to your BlackBerry Desktop Manager manual for complete instructions.

1. Insert the SocketScan 10 installation CD into the CD drive of your computer. It should auto-run. In the Getting Started with SocketScan 10 wizard, click on the **Installation** link on the left side. Scroll down to the section for BlackBerry and click **Install**.



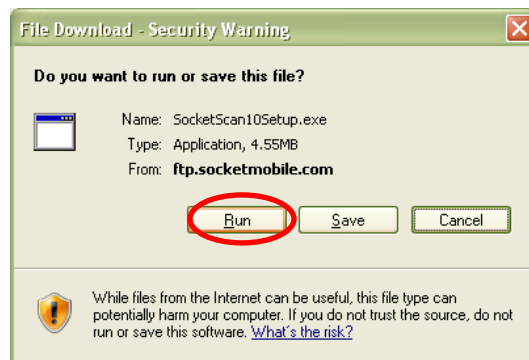
*If the CD does not auto-run, use My Computer or File Explorer to access your CD drive and click on **setup.exe***



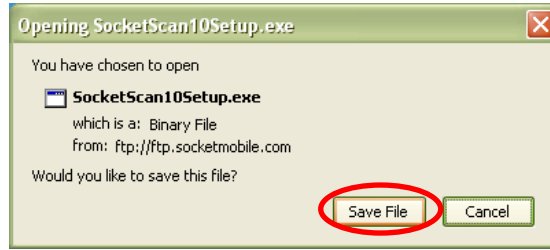
*Alternatively, download the latest software from:  
<http://www.socketmobile.com/support/downloads/data-collection/series7/ss10/>  
Extract the file. Click on **SocketScan10Setup.exe***

2. Download and run the installation file.

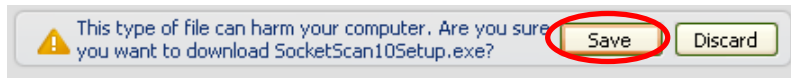
- Internet Explorer: In the Security Warning screens, click **Run**. When asked if you want to run the file, click **Run**.



- **Firefox:** Click **Save File**. In the Downloads list, double-click **SocketScan10Setup.exe**. In the warning screen, click **OK**.



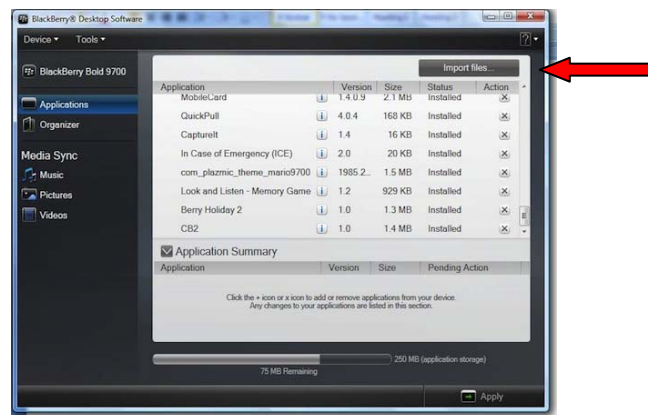
- **Chrome:** Click **Save** at the bottom of the screen. Click on the link for **SocketScan10Setup.exe**. In the Security Warning screen, click **Run**.



3. The installation wizard will launch. Follow it to install software for BlackBerry.



4. After software installation, click **Finish**.
5. Use a USB connection cable/cradle to connect the smartphone to the PC.
6. Launch the BlackBerry Desktop Manager. Click **Start | Programs | BlackBerry | Desktop Manager**.
7. Click **Applications**. In the upper right corner, click **Import files**. Browse to the location of the SocketScan 10 file on your computer.



8. In the Application Summary pane, click **Apply**.



*By default, all of the SocketScan 10 subfiles will be selected for installation. Do not deselect any.*

**To pair the CHS with your BlackBerry smartphone:**



*You only need to pair the CHS with your phone the first time you try to connect.*



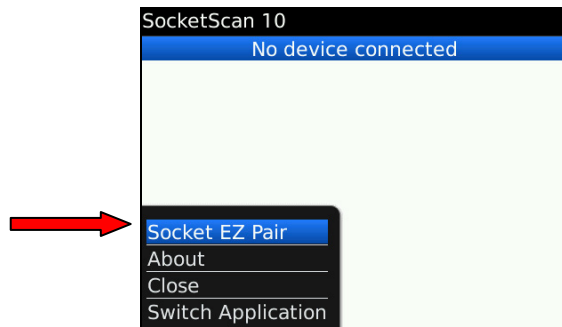
*Data service is required.*

1. In the Home screen, click **Downloads | SocketScan 10**.

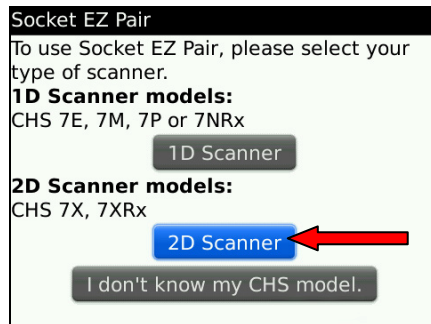


2. If asked if you want to grant trusted application status, click **Yes**.

3. Click **Menu | Socket EZ Pair**.



4. When asked what kind of scanner you have, click **2D Scanner**.



5. If asked for permission to access <http://www.tec-it.com>, click **Allow**.

- Power on the CHS. Press and hold the small power button until the LED turns blue and the CHS beeps twice (low-high).

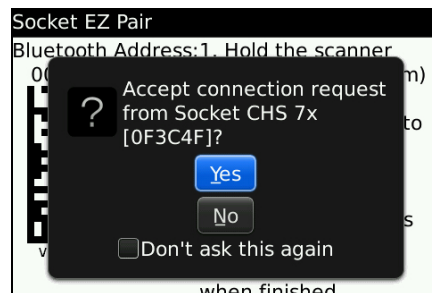


The LED blinks blue once per second to show that the Bluetooth radio is on but not connected.

- Scan the barcode that appears on the screen. The CHS will beep three times.



- When asked if you want to connect to the CHS, click **Yes**.



The CHS will be referred to as Socket CHS 7x [xxxxxx] for the 7X / 7XRx or Socket 7Xi [xxxxxx] for the 7Xi / 7XiRx. The characters in brackets are the last six characters of the CHS Bluetooth Device Address (BDA), which is labeled inside the battery compartment.

- If prompted for a passkey, enter **0000** (four zeroes),



Only phones running Bluetooth 2.0 will prompt for a passkey.



The CHS will beep once after it has connected and is ready to scan barcodes. The LED will also blink blue once every 3 seconds.

- Close Socket EZ Pair. Click **Menu | Close**.



SocketScan 10 will report the Bluetooth name of the CHS you are connected to.

### To scan barcodes:

1. Make sure the CHS is powered on, the phone has *Bluetooth* turned on, and SocketScan 10 is running.
2. Open your application. Place the cursor where you want to enter data.
3. Hold the CHS about 4 inches (10 cm) from the barcode and press and hold the trigger button. An aiming beam will appear for 3 seconds. Keep your hand steady while scanning.



For example, try scanning the following barcode:



**TIP**

*After data is read and sent to the phone, by default, the CHS will beep once and vibrate, the LED will flash green, and the beam will turn off. You can use the Scanner Settings utility (see next page) to modify the beep / LED / vibrate settings.*



**TIP**

*By default, a carriage return is applied after scanned barcode data is entered. To disable the automatic carriage return, you can use the Scanner Settings utility (see next page) or [Command Barcodes](#) (use the Data Editing barcode for Data As Is).*



**TIP**

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

### To Disconnect:

To disconnect, turn off the CHS. Press and hold the power button for at least 3 seconds, until the CHS beeps twice (high-low) and the blue LED turns off.

### Automatic Reconnection:

After you power on the CHS, it will automatically try to connect to the last phone it paired and connected to. Make sure your phone is in range with *Bluetooth* enabled.

If the CHS is connected to your phone and gets disconnected, it will try to reconnect. Make sure the phone is on and in range. If the CHS cannot reconnect after several attempts, it will emit a long beep. Press the trigger button to restart the reconnection process.



**TIP**

See [Appendix F](#) for unpairing instructions.

## SOCKETSCAN 10 SPECIAL FEATURES

SocketScan 10 software offers a variety of special features:

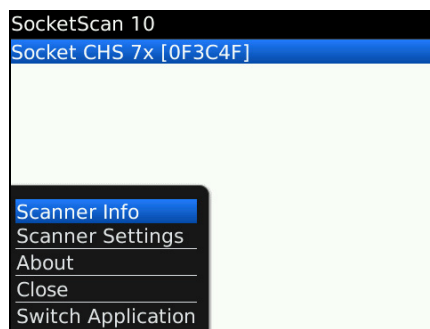
- **Scanner info** – Provides information about your CHS.
- **Scanner settings** – Utility lets you view scanner info, test barcodes, configure scanner beep / LED / vibrate behavior, configure a suffix, and enable/disable symbologies.

### Scanner Info

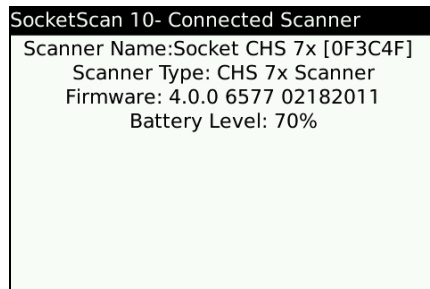


You can view Scanner info only when the CHS is connected to your smartphone.

1. In SocketScan 10, click **Menu | Scanner Info**.



2. In the Scanner Info screen will report the *Bluetooth* name, scanner time, firmware version, and battery level of the CHS. If desired, click in the **Scanner Name** field to change the *Bluetooth* friendly name of the CHS. After making any changes, click **Menu | Save**.



You can also access Scanner Info by clicking on the main screen of SocketScan 10 when you are connected to the CHS.



To view the *Bluetooth Device Address* of the CHS or change its *Bluetooth* friendly name, use the *Scanner Settings* utility (see next page).



## Scanner Settings



You can configure scanner settings only when the CHS is connected to your smartphone.

1. In SocketScan 10, click **Menu | Scanner Settings**. The CHS will beep twice, indicating a disconnection.
2. If prompted to connect to the CHS, click **Yes**. The CHS will beep once, indicating it has connected to your phone.



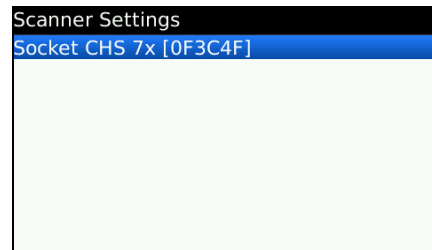
3. The Scanner Settings screen will report the *Bluetooth* name of the CHS it has connected to.

## General Scanner Info

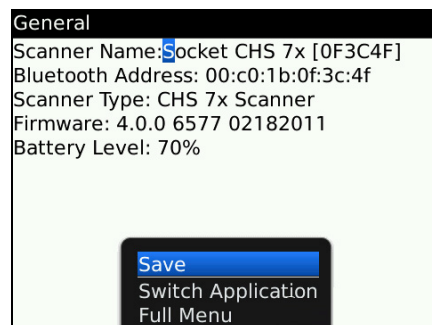


You can view Scanner info only when the CHS is connected to your smartphone.

1. In SocketScan Settings, you can access Scanner Info by clicking on the main screen.

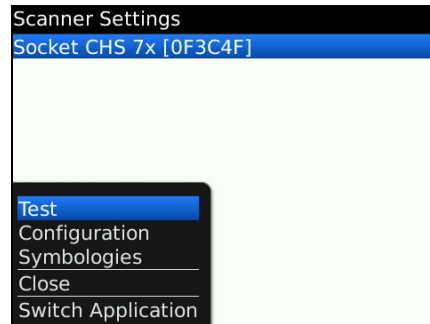


2. Besides viewing general scanner properties, you can also place the cursor in the Scanner Name field to change the *Bluetooth* friendly name of your CHS. After making any changes, click **Menu | Save**.

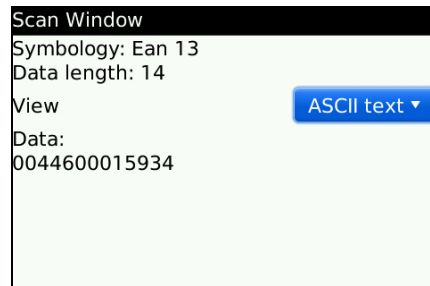


## Scanner Settings - Test

1. In the Scanner Settings screen, click **Menu | Test**.

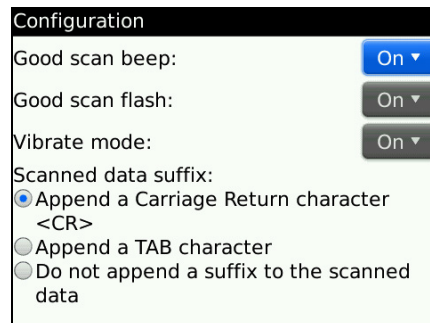


2. Select if you would like to receive data in ASCII or hexadecimal format.
3. Scan a barcode. The Scan Windows will report the symbology, data length, and data content of the barcode you scanned.



## Scanner Settings - Configuration

1. In the Scanner Settings screen, click **Menu | Configuration**.
2. Enter any settings, as desired:



- **Good scan beep:** Select to have the CHS beep to indicate that data was successfully decoded and transmitted to the smartphone.
  - **Good scan flash:** Select to have the CHS LED turn green to indicate that data was successfully decoded and transmitted to the smartphone.
  - **Vibrate mode:** Select to have the CHS LED turn green to indicate that data was successfully decoded and transmitted to the smartphone.
  - **Scanned data suffix:** Select if you would like to add a carriage return or tab after each scan of data.
3. After entering any settings, click **Menu | Save**.

## Scanner Settings - Symbologies

1. In the Scanner Settings screen, click **Menu | Symbologies**.
2. Select/deselect any symbologies you would like to enable/disable.



3. After entering any settings, click **Menu | Save**.



**TIP**

*Enabling all possible symbologies may slow the decoding process.*



**TIP**

*The RSS symbology is now known as GS1 DataBar.*



**TIP**

*If you would like to read UPC-A symbols, be sure to disable GS1 DataBar so that GS1 DataBar symbols don't get mistakenly decoded.*



**TIP**

*Keep Data Matrix enabled so you can scan the onscreen barcode in Socket EZ Pair.*

# APPENDIX A

## SPECIFICATIONS

### **Physical Characteristics:**

Dimensions	132(l) x 45.1(h) x 37.9(w) mm (5.20(l) x 1.77(h) x 1.49(w) inches)
Total Weight	approx. 68 g (2.4 oz)
Antimicrobial Properties for 7XRx and 7XiRx (JIS Z2801:2000 Test)	2.49 on Methicillin-resistant Staphylococcus aureus (MRSA) 6.07 when cleaned with Sani-Cloth® Plus disposable cloth wipes Contains Biosafe® HM4100 (EPA# 83019-1)
Power Source	One Lithium ion battery (pre-installed, do not remove)
Expected Battery Life	With Normal Operation (connected with <i>Bluetooth</i> ):10 hours on single charge (based on elapse time of 5 seconds/scan, (battery performance may vary depending on vibrate settings and work environment)

### **Environmental Characteristics:**

Operating Temperature	+32 to +122°F (0 to +50°C)
Storage Temperature	-22 to +158°F (-30 to +70°C)
Relative Humidity	5% to 95% non-condensing
Ambient Light	0 to 100,000 lux

### **Operating System / Device and Bluetooth Profile Support:**

Operating System / Compatible Device	Bluetooth HID Support	Bluetooth SPP Support*
Windows Mobile 6.x	✓ Microsoft <i>Bluetooth</i> stack	✓ Microsoft or Broadcom <i>Bluetooth</i> stack**
Windows 7, Vista, XP	✓	✓
Mac OS X 10.4 to 10.6.6 for Mac / MacBook with <i>Bluetooth</i> stack v2.2.4f3 (v1965) (other versions not tested)	✓	x
Made for the following Apple devices: <ul style="list-style-type: none"> <li>• iPod touch (4<sup>th</sup> generation)</li> <li>• iPod touch (3<sup>rd</sup> generation)</li> <li>• iPhone 4</li> <li>• iPhone 3GS</li> <li>• iPhone 3G (<i>Bluetooth SPP only</i>)</li> <li>• iPad 2</li> <li>• iPad</li> </ul>	✓ except iPhone 3G	✓ Only 7Xi and 7XiRx with compatible application***
Android OS	✓ Android 2.2 to 3.x with HID support	✓ Android 2.1 to 3.x
BlackBerry OS 5.00.714 or later for Bold 9700 (other models not tested with SocketScan 10, may require previous software version)	x	✓
QNX for BlackBerry PlayBook	✓	x
Symbian OS for Nokia E71 (Other devices with Symbian OS 9.1 or later may be supported)	✓	x
Windows CE.NET for Intermecc CK3	✓	x

\*HID only versions of the CHS 7X and 7XRx (Revisions A-C) do not support SPP.

\*\* Broadcom Bluetooth stack v1.8.0.6501 or v1.9.3

\*\*\* See Socket website for list of compatible applications (coming soon). Alternatively, use SocketScan 10 SDK.

### **Barcode Symbology Support:**

1D	Bookland EAN, Chinese 2 of 5, Codabar (including support for ISBT 128 bit concatenation), Code 11, Code 128, Code 39, Trioptic Code 39, Code 39 Full ASCII, Code 93, Discrete 2 of 5, GS1 DataBar (RSS), GS1-128 (UCC-128/EAN-128), ISBN, ISBT 128, Code 39, Interleaved 2 of 5 (ITF-14), MSI, Standard 2 of 5, Telepen, UPC/EAN (UPC-A, UPC-E, UPC-E1, EAN-13, EAN-8, UCC/EAN-128), VIN
2D / Composite	Aztec, Codablock, DataMatrix, GS1 Composite (EAN/UCC Composite), GS1 DataBar – Limited, GS1 DataBar – Omni-directional, Matrix 2 of 5, Maxicode, MSI Code, PDF417 / MacroPDF417 / MicroPDF417, Plessey, QR Code, TLC39
Postal	AustraliaPost, BPO 4, Canada Post, Dutch Post (KIX), Infomail, Japan Post, Planet, Postnet, RM4SCC, Sweden Post, USPS Intelligent Mail*, 4 State Code

\*USPS Intelligent Mail supported only by CHS 7Xi and 7XiRx.

### **Scanner Performance:**

Scanner Type	CMOS <b>High-Density</b> omni-directional area imager (2D and 1D)
Scan Repetition Rate	2D mode : 56 images/sec, auto adaptive Linear emulation mode : 200 images/sec, auto-adaptive
Optical Resolution	752 (H) x 480 (V) pixels, 256 gray levels
Print Contrast	Down to 25%
Scan Angle	Horizontal: 38.9°, Vertical: 25.4°
Decode Distance*	3.8 to 27 cm (1.5 to 10.5 inches) typical <i>*Depends on symbol density, symbology, W-N Ratio, label media, and scan angle</i>
Direct Part Marking (DPM) & Dot Peen	DPM and dot peen decoding mode supported by CHS 7Xi and 7XiRx

### **Bluetooth Characteristics:**

Interface Standard	<i>Bluetooth</i> Human Interface Device (HID) and Serial Port Profile (SPP) Default mode: HID Keyboard class device
Protocol	<i>Bluetooth</i> 2.1 with Enhanced Data Rates (EDR) 2.45 GHz ISM band, supports Advanced Frequency Hopping (AFH)
Radio Range	Up to 330 ft (100 m), depending on environment
Security	56 bit encryption
RF Power	Class 1 radio; Typical Output: 12 dbm
<i>Bluetooth</i> Stack Support for Windows & Mac OS	Windows PC: Microsoft, Toshiba, Broadcom ( <i>Bluetooth</i> 2.1 for best results) Windows Mobile: Microsoft, Broadcom v1.8.0.6501 or v1.9.3 Mac OS: v2.2.4f3 (v1965)

### **Certification/Compliance:**

Electrical Safety	Certified to IEC 60950-1, UL 60950-1, CAN/CSA C22.2, EN60950-1
Environmental	RoHS
EMI/RFI	FCC Part 15 Class C, RSS 210, iCES 003, C-Tick, CISPR 22, CE EN55022, EN55024
LED Safety	IEC 60825-1, EN 60825-1
Apple iOS	Apple iOS certification for 7Xi and 7XiRx, see list of compatible Apple iOS devices on previous page
<i>Bluetooth</i> SIG	<i>Bluetooth</i> QD ID B0164000

### **About Bluetooth Range**

This product 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 this product while connected to a variety of typical host devices with Class 1 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.
- Human bodies or containers of liquid positioned between the host and the Socket CHS.
- The presence and activity level of competing *Bluetooth*, 802.11 (Wi-Fi) or other (proprietary) 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* signal completely.

# APPENDIX B

## SAFETY AND USAGE TIPS

### **Scanning Tips**

*Practice to determine the best scanning distance for your type of barcode.*

### **Scanning Distance**

- The best scanning distance varies depending on barcode size, symbology, label media, W-N Ratio, and scan angle. Check the Decode Zone in Appendix D: Decode Zone to determine the proper distance between the scanner and barcode.
- The larger the barcode, the further away you should position the scanner.
- The tighter the bars of the barcode, the closer you should position the scanner.

### **About Bluetooth and Health**

*Bluetooth* wireless technology allows you to use short-range radio signals to connect a variety of devices, such as barcode 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 technical support at: <http://support.socketmobile.com>
- Treat your product with care. Keep in a clean and dust-free place.
- Changes or modifications of this product, not expressly approved by Socket, may void the user's authority to operate the equipment.

### **Antenna Care**

Do not place a metallic shield around the CHS as it will reduce the radio transmission efficiency.

### **Efficient Use**

For optimum performance, please make sure that there is no metal surrounding your CHS.

### **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 CHS will not affect the vehicle's electronics.

### **Aircraft**

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

### **Radio Frequency Exposure**

Your CHS 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 CHS 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.

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

## BARCODE LABEL SPECIFICATIONS

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

### **Background Substrate:**

The barcode 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 barcode 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 barcode 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:**

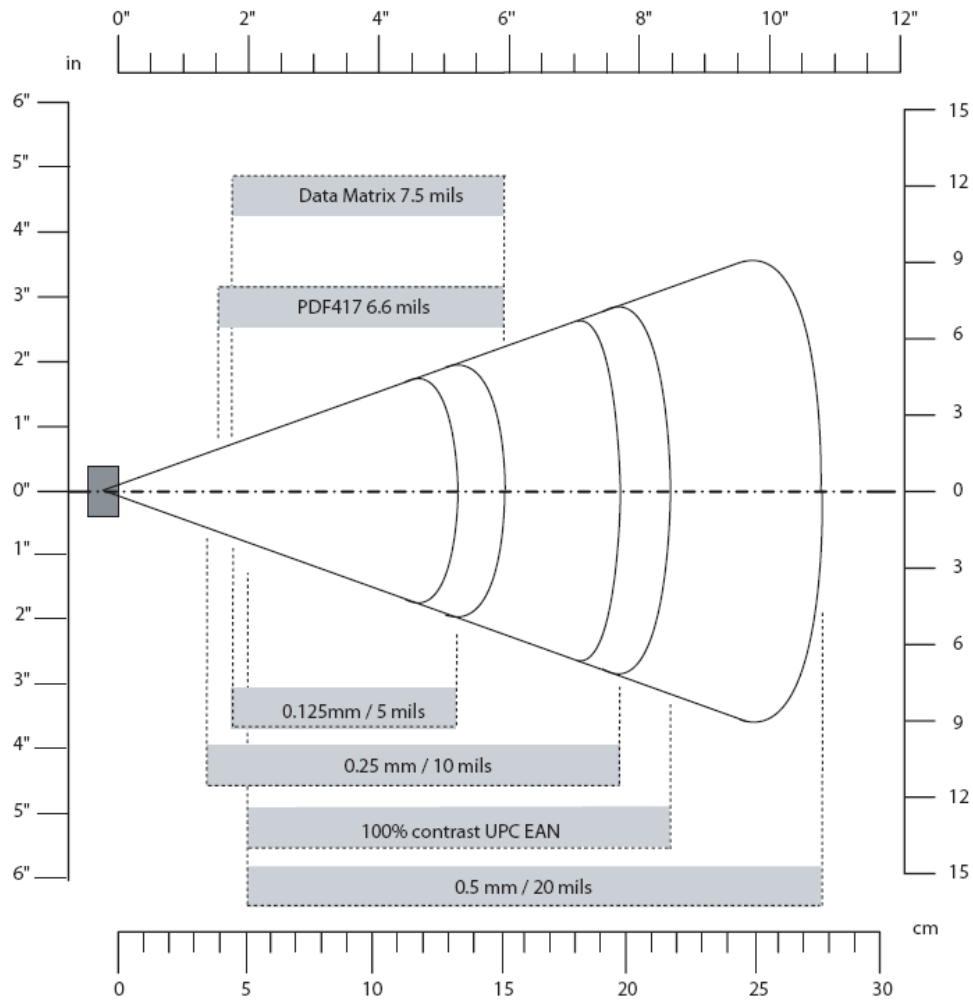
The ratio of the widths of bars and spaces in a barcode symbol must conform to the appropriate AIM barcode specifications and can cause problems if not correct throughout the barcode. Problems can occur when bar edges are smeared or rough, or when they exhibit voids.

# APPENDIX D

## DECODE ZONE

The decode zone for the CHS is shown below. The minimum element width ("X Dimension" or barcode "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 barcode sizes. The maximum usable length of a barcode symbol (Width of Field) at any given range is also shown.

### Typical Reading Distances







**EA15 High Density Typical Reading Distances:** These distances are measured in an office environment (250 lux).


# APPENDIX E


## COMMAND BARCODES



Scan command barcode(s) to quickly configure the CHS. **By default, the CHS is in HID mode as a Keyboard device.**



***IMPORTANT! Make sure the CHS is not connected to a host computer / device before scanning a command barcode!***




<b>Bluetooth Connection Mode (General)</b>	
<p><b>SPP Mode</b> Changes the CHS to <i>Bluetooth</i> Serial Port Profile (SPP) mode (required for BlackBerry, optional for Windows and Android).</p>	
<p><b>HID-Keyboard (default)</b> Configures the CHS as a Keyboard class device (required for Apple iOS / Mac OS, Nokia E71).</p>	
<p><b>HID-Peripheral</b> Configures the CHS as a Peripheral class device (optional for Windows and Android).</p>	
<p><b>iOS Mode</b> Changes the <b>CHS 7Xi</b> or <b>7XiRx</b> to Apple iOS mode (equivalent to SPP mode).</p>	





<b>Factory Defaults</b>	
<p><b>Factory Reset</b> Configures the CHS to revert all settings to factory defaults. The CHS powers off after scanning this barcode.</p>	









<b>Firmware Information</b>	
<p><b>Version Information (for HID mode only)</b> Commands the CHS to output the firmware version information into an active application.</p>	

<b>Bluetooth Connection Mode (ADVANCED Users Only)</b>	
<p><b>SPP Acceptor Mode</b> Changes the CHS to <i>Bluetooth</i> Serial Port Profile (SPP) mode as an acceptor (waits for computer / device to initiate connection).</p>	
<p><b>SPP Initiator Mode</b> Changes the CHS to <i>Bluetooth</i> Serial Port Profile (SPP) mode as an initiator. Use barcode generating software or website (e.g., <a href="http://barcode.tec-it.com">http://barcode.tec-it.com</a>) to create a barcode with the following data:</p> <p style="text-align: center;"><b>#FNC SPP Initiator aabbccddeeff#</b></p> <p>Where aabbccddeeff is the <i>Bluetooth</i> Device Address of the computer / device you want to connect the CHS to.</p> <p>Recommended barcode (module) width: 2-3cm</p>	n/a
<p><b>HID Acceptor Mode</b> Changes the CHS to <i>Bluetooth</i> Human Interface Device (HID) mode as an acceptor (waits for computer / device to initiate connection).</p>	
<p><b>HID Initiator Mode</b> Changes the CHS to <i>Bluetooth</i> Human Interface Device (HID) mode as an initiator. Use barcode generating software or website (e.g., <a href="http://barcode.tec-it.com">http://barcode.tec-it.com</a>) to create a barcode with the following data:</p> <p style="text-align: center;"><b>#FNC HID Initiator aabbccddeeff#</b></p> <p>Where aabbccddeeff is the <i>Bluetooth</i> Device Address of the computer / device you want to connect the CHS to.</p> <p>Recommended barcode (module) width: 2-3 cm</p>	n/a

<b>Data Mode</b>	
<p><b>Raw Mode</b> Configures the CHS to raw mode (i.e., all scan data is sent as raw bytes instead of packets).</p>	
<p><b>Packet Mode</b> Configures the CHS to packet mode (i.e., the CHS encapsulates scan data into packets, with header and tail information to ensure integrity of data when received by host).</p>	

Scan to Enable	<b>Apple iOS Onscreen Keyboard</b>	Enabled by Default	Scan to Disable
<p>WITH BEEP</p> 	<p>Configures the CHS to activate the iOS onscreen keyboard when connected to an iOS device and the CHS power button is double-pressed.</p> <p><i>Scan only with CHS in HID mode</i></p>	<p>✓</p>	
<p>NO BEEP</p> 			

Scan to Enable	<b>Good Scan Indicators</b>	Enabled by Default	Scan to Disable
	<p>Configures the CHS to Beep, Flash the LED Green, and Vibrate after successfully decoding data</p> <p><i>Scan only with CHS in HID mode</i></p>	<p>✓</p>	<p>Disable Beep and Vibrate</p> 
			<p>Disable Vibrate</p> 
			<p>Disable Beep</p> 

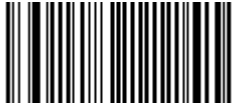
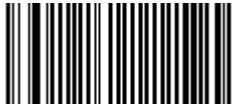


Scan to Enable <b>WITH BEEP</b>	<b>Special Commands for <u>HID Mode</u></b>	Scan to Enable <b>NO BEEP</b>
	Ctrl + Z	
	Ctrl + A	
	Shift + Tab	
	Ctrl + S	

## 1D SYMBOLOGIES

**IMPORTANT! Print out page to scan. Do not scan on screen.**

Scan to Enable	Symbology Name	Enabled by Default	Scan to Disable
	Codabar		
	Code 93 / Code 93i		
	Interleaved 2 of 5		
	EAN/UPC – UPC-E	✓	
	EAN/UPC – UPC – A	✓	
	EAN/UPC – UPC-E1		


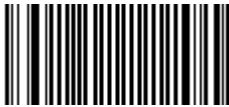
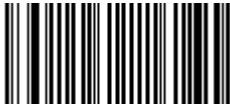
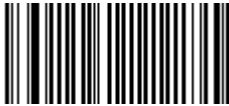

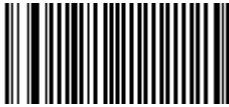






**IMPORTANT! Print out page to scan. Do not scan on screen.**

Scan to Enable	Symbology Name	Enabled by Default	Scan to Disable
	EAN/UPC – EAN 8	✓	
	Standard 2 of 5		
	GS1 DataBar (RSS)		
	EAN/UPC – EAN-13	✓	
	Code 128 / GS1 128	✓	
	Code 39	✓	
	Code 11		



## 2D SYMBOLOGIES

**IMPORTANT! Print out page to scan. Do not scan on screen.**




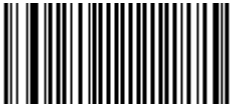








Scan to Enable	Symbology Name	Enabled by Default	Scan to Disable
	Aztec		
	Data Matrix (Required to scan onscreen barcode in Socket EZ Pair for SPP mode)	✓	
	MaxiCode		
	QR Code		
	MicroPDF417		
	MSI Code		

**IMPORTANT! Print out page to scan. Do not scan on screen.**


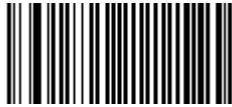

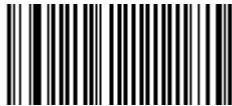


Scan to Enable	Symbology Name	Enabled by Default	Scan to Disable
	PDF417	✓	
	GS1 Composite – CC-A/B		
	GS1 Composite – CC-C		
	GS1 DataBar (RSS) Limited		
	GS1 DataBar (RSS)		

## POSTAL SYMBOLOGIES

**IMPORTANT! Print out page to scan. Do not scan on screen.**

Scan to Enable	Symbology Name	Enabled by Default	Scan to Disable
	Australian Post		
	BPO 4-State		
	Canada Post		
	Dutch Post		
	Infomail		
	Japan Post		


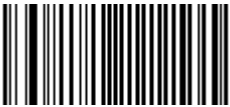






**IMPORTANT! Print out page to scan. Do not scan on screen.**

Scan to Enable	Symbology Name	Enabled by Default	Scan to Disable
	Planet		
	Postnet		
	Sweden Post		




## SCANNER MODES

**Note:** Scanning multiple commands in a single instance will overwrite (not append) the previous command.

**IMPORTANT! Print out page to scan. Do not scan on screen.**

Scan to Enable	Description	Enabled by Default	Scan to Disable
	<p><b>Factory Reset</b> Configures the CHS to revert all settings to factory defaults. The CHS will power off after scanning this barcode.</p>	✓	N/A
	<p><b>Continuous Scanning Mode</b> Makes the CHS automatically trigger the scanning beam every few seconds.</p>		N/A
	<p><b>Presentation Mode</b> Makes the CHS automatically activate the scanning beam after a barcode is detected within scanning range.</p>		N/A
	<p><b>Aiming Beam</b> Makes an aiming beam appear when the CHS trigger button is pressed.</p>		
	<p><b>Center Decoding</b> When enabled, the CHS reads only the barcode that the scanner is aimed at. Helpful for barcodes positioned close together.</p>		
	<p><b>Decode 1D Barcodes Only</b> Disables CHS from decoding 2D barcodes.</p>		N/A





**IMPORTANT! Print out page to scan. Do not scan on screen.**

Scan to Enable	Description	Enabled by Default	Scan to Disable
	<b>Decode 1D and 2D Barcodes</b> Configures the CHS to revert all settings to factory defaults. The CHS will power off after scanning this barcode.	✓	N/A
	<b>Decode in Bright Environment</b> Enables the CHS to scan 1D and 2D barcodes in bright environment.		N/A
	<b>Decode on Reflective Surface</b> Enables the CHS to decode 1D and 2D barcodes printed on shiny surfaces		N/A

## DATA EDITING – PREFIX / SUFFIX

You can configure the CHS to automatically add a suffix and/or prefix to each scan of data.

**Note:** Scanning multiple commands in a single instance will overwrite (not append) the previous command.

Character or Command to Insert	Enabled by Default	Scan to Enable
Carriage Return Suffix	✓	
Tab Suffix		
Carriage Return & Line Feed Suffix		
Data As Is – No prefix or suffix		

# APPENDIX F

## SPECIAL BUTTON SEQUENCES

### RESTORING FACTORY DEFAULTS

To restore the CHS to its factory defaults, do the following:

1. Power on the CHS.



2. While pressing the trigger button, **briefly press and release the power button.**
3. After about 15 seconds, the CHS will beep. Release the trigger button. If you performed the actions correctly, the CHS will beep 5 times and power off.
4. The next time you power on the CHS, it will take longer than normal. After the CHS finishes powering on, it will have factory default settings (HID mode for Keyboards).

### UNPAIRING THE CHS

1. Power on the CHS.
2. Press and hold down the trigger button. **Press and hold down the power button until you hear 3 beeps.**



3. After you hear 3 beeps, release both buttons. The CHS will unpair and automatically power off. The next time you power on the CHS, it will be discoverable.



## **RETRIEVING SCANNER AND FIRMWARE INFORMATION**

1. Power on the CHS and connect it to a computer/device.
2. Open an application like Notepad place the cursor in the application.
3. Press and hold down the trigger button for 15 seconds or until text information about the scanner and firmware outputs to your application.

# APPENDIX G

## CAB INSTALLATION

### ***Advanced Users Only!***

For Windows Mobile, you can install SocketScan 10 software directly from a CAB (cabinet) file instead of using the installation wizard. A CAB file contains all the software and drivers needed to install your product on a particular Pocket PC platform. CAB files are available in the SocketScan 10 installation CD (in the CABs folder) and coming soon online at:

<http://www.socketmobile.com/support/downloads/data-collection/series7/ss10/>

*If you have the Socket SoMo 650 running Windows Mobile 6 Service Pack 8 or later, SocketScan 10 is pre-loaded on the device. To install, in the Today screen, tap Getting Started and choose the option to install SocketScan 10.*

In order to install the CAB file, you need a way to transfer the CAB file to your Pocket PC, such as:

- Use Windows Mobile Device Center to transfer the CAB file to your Pocket PC.
  - Use a memory card reader to save the CAB file from your desktop PC to a memory card, then insert the memory card into your Pocket PC.
  - If your Pocket PC has Internet access, download the CAB file directly from Socket's website to your Pocket PC. (coming soon)
1. Transfer the correct CAB file to your Pocket PC. If transferring the CAB file with Windows Mobile Device Center or downloading the CAB file directly to your Pocket PC, remember where you save the file.
  2. Tap **Start | Programs | File Explorer**.
  3. Use File Explorer to browse to the CAB file. Tap on the CAB file.
  4. The CAB file will start installing on your Pocket PC. Follow the instructions on your device screen to install the software.
  5. Your device may warn that the CAB file comes from an unknown publisher. Tap **Yes** to continue installation.
  6. After software installation, soft reset the device by pressing the reset button.

# APPENDIX H

## TROUBLESHOOTING

### GENERAL TROUBLESHOOTING – ALL OS

**SYMPTOM:** *When I try to scan, I aim the scanner beam at the barcode, but no data appears on my screen, and the beam eventually turns off.*

POSSIBLE REASON	SOLUTION
The scanner is too close or too far from the barcode or at an incorrect angle.	Practice scanning at different distances and angles so you get accustomed the most effective position.
The barcode is incorrectly formatted, damaged or poorly printed.	Try scanning a barcode that is correctly formatted, printed clearly, and in good condition.
The barcode symbology may be disabled or not supported by the CHS.	Enable the symbology. Use the Command Barcodes (Appendix E). If you are using the CHS in SPP mode, you can also use the symbology selector of SocketScan 10 software.  If you do not know the symbology of the barcode, and the CHS works in SPP mode for your computer / device, you can use the Scanner Settings utility to test scanning the barcode and determine its symbology.
You don't have an application open to scan data into.	Open an application (e.g., a spreadsheet) and place the cursor where you want to enter data. Try scanning again.
You are using the CHS in SPP mode, and SocketScan 10 keyboard wedge is not enabled / running.	Make sure SocketScan 10 keyboard wedge is running. For Windows, make sure the Use keyboard wedge option is selected in SocketScan Settings.
Revision F of the CHS 7X and 7XRx will automatically power off after you press the trigger button if the battery is low.	Charge the CHS.

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

POSSIBLE REASONS	SOLUTION
The computer/device is too far from the CHS.	Move the devices closer together, within a range of 10-15 meters.
The CHS is not powered on.	Power on the CHS.
You are using the CHS in SPP mode and have assigned another device as your default <i>Bluetooth</i> serial device.	Remove any settings that assign another device as your favorite <i>Bluetooth</i> serial device.
Your computer/device does not have <i>Bluetooth</i> enabled and/or the <i>Bluetooth</i> software is not running.	Enable <i>Bluetooth</i> on your computer/device and make sure the <i>Bluetooth</i> software is running.
The CHS is already paired with another computer/device.	Unpair the CHS. See Appendix F for instructions.

**SYMPTOM:** The Bluetooth device search has found multiple CHS devices, and I don't know which one to choose.

POSSIBLE REASONS	SOLUTION
The CHS is not paired with a host system, and there are multiple CHS devices in range.	<p>Power off the CHS device(s) you do not want to connect to and restart the <i>Bluetooth</i> device search.</p> <p>Alternatively, If the CHS works in SPP mode with your computer/device, you can use the SocketScan Scanner Settings utility to change the scanner's <i>Bluetooth</i> friendly name to something you can easily recognize.</p>

**SYMPTOM:** When I scan a barcode, odd behaviors occur, such as different applications seem to be invoked in my system, and/or special characters are displayed in the application unexpectedly.

POSSIBLE REASON	SOLUTION
In HID mode, the CHS will only properly read printable ASCII characters. Non-printable ASCII characters or extended characters cannot be interpreted by the scanner. Printable ASCII characters are numbers between 0x20 and 0x7E, and any ASCII characters that fall outside of this scope are considered as non-printable.	<p>Use the SocketScan 10 SDK to develop a custom application that supports non-printable ASCII characters. Learn more about the SDK at: <a href="http://www.socketmobile.com/products/sdk/">http://www.socketmobile.com/products/sdk/</a></p>

**SYMPTOM:** When I press the Shift, Caps Lock or Ctrl key on my keyboard, it affects the data output from my CHS to my computer.

POSSIBLE REASON	SOLUTION
You are using the CHS in HID mode as a Keyboard class device.	Determine how your computer implements HID keyboard devices.


**SYMPTOM:** When I scan some barcodes with the CHS in SPP mode, the data is truncated or some characters are corrupted.

POSSIBLE REASON	SOLUTION
The barcode data has illegal characters. SocketScan 10 is designed to read ASCII characters between 0x20 (Space) and 0x7F.	If you have a truncated barcode, you can view the raw data without any conversions by using the Test option of Scanner Settings, with hexadecimal format selected. If you need to scan data that is not 7 bit ASCII (e.g., Double Byte, MultiByte or UNICODE for Kanji, simplified Chinese, etc.) use the SocketScan 10 SDK.

**SYMPTOM:** When I scan the SocketScan 10 EZ Pair onscreen barcode, nothing happens.

POSSIBLE REASON	SOLUTION
Light reflected from the screen is interfering with the scanning process.	Move your computer / device to a darker area and try again.
The CHS has the Data Matrix symbology disabled.	Enable Data Matrix by scanning the appropriate command barcode in Appendix E or using the SocketScan 10 Scanner Settings utility.

## TROUBLESHOOTING FOR WINDOWS PC

**SYMPTOM:** I am using the CHS in SPP mode and get the “Not connected” icon  in the task tray in the Today screen and can’t trigger the scanner or scan any barcodes.

POSSIBLE REASON	SOLUTION
Your PC is not connected to the CHS.	Make sure the CHS is on, in range and has enough battery power. Try to reconnect.

**SYMPTOM:** When I try to access SocketScan 10, I get an error message saying the installed version of the application could not be determined.

POSSIBLE REASON	SOLUTION
You installed SocketScan 10 while logged into a different account.	Log into the account you used while installing SocketScan10.  Alternatively, you can install SocketScan 10 for every user account that plans to use the CHS.

**SYMPTOM:** When I try to install SocketScan 10, an error message says Access is denied, or I have insufficient privileges to complete installation.

POSSIBLE REASON	SOLUTION
You tried to install SocketScan 10 on a Windows 7 computer while not logged into an administrative account.	Abort the process. Log into an administrative account and restart the installation.

**SYMPTOM:** The Bluetooth software indicates that the CHS has connected, but when I try to scan data, it does not enter into my application.

POSSIBLE REASONS	SOLUTION
The CHS is in SPP mode, and your PC has multiple incoming <i>Bluetooth</i> serial ports enabled.	Use your <i>Bluetooth</i> utility to disable extra incoming <i>Bluetooth</i> serial ports. In SocketScan Settings, click <b>Ports</b> to access the <i>Bluetooth</i> utility.
The CHS is in SPP mode, and SocketScan 10 is not running.	Start SocketScan 10 software by clicking on the desktop shortcut icon.
The keyboard wedge is not enabled in SocketScan Settings.	Make sure the checkbox <b>Use keyboard wedge</b> is selected.
The CHS is in SPP mode but not assigned to an incoming <i>Bluetooth</i> serial COM port.	In SocketScan Settings, make sure the CHS is assigned to an incoming <i>Bluetooth</i> serial COM port.  If your computer has the Toshiba <i>Bluetooth</i> stack, in SocketScan Settings, click <b>Ports</b> and make sure the CHS is assigned to a <i>Bluetooth</i> port that appears as <b>LocalCOM-Server</b> .

**SYMPTOM:** After I try to connect, SocketScan 10 reports the Friendly Name of the last CHS connected to the computer, and I cannot modify any advanced settings or symbologies.

POSSIBLE REASONS	SOLUTION
This is a known issue in SocketScan 10 for Windows XP and Vista.	Close and restart SocketScan 10 and reconnect.

**SYMPTOM:** My CHS no longer connects to my computer.

POSSIBLE REASONS	SOLUTION
This is a known issue with the Microsoft <i>Bluetooth</i> stack in Windows Vista when using a USB <i>Bluetooth</i> adapter. <i>Bluetooth</i> connection settings can sometimes become corrupted after the computer suspends and resumes.	Make sure the CHS is discoverable and connectable. In the Microsoft <i>Bluetooth</i> software, select the Socket CHS in the <i>Bluetooth</i> device list (its status may be shown as "Already Connected"), and click Next. If prompted, enter the passkey 0000 (four zeroes). In the last screen, click Finish. <b>Do not remove the CHS from the device list and re-add it.</b>
You are using a computer with the Broadcom (Widcomm) <i>Bluetooth</i> stack using <i>Bluetooth</i> 2.0, which may have a broken link key.	Socket highly recommends that you upgrade to a Broadcom <i>Bluetooth</i> stack using <i>Bluetooth</i> 2.1 (a dongle) or switch to the Microsoft <i>Bluetooth</i> stack (using either <i>Bluetooth</i> 2.1 or 2.0).

**SYMPTOM:** When I try to connect the CHS to the PC, I get an error message saying that SocketScan 10 could not open the COM port or had problems with COM port assignments.

POSSIBLE REASONS	SOLUTION
SocketScan 10 is competing with another application for the same COM port.	Make sure each COM port is assigned to only one device. If needed, use the SocketScan Settings utility to assign the CHS to a different incoming <i>Bluetooth</i> serial COM port.
You are running SocketScan 7 and SocketScan 10 simultaneously.	Close SocketScan 7 and try reconnecting again.
You are running SocketScan 10 in user mode on Windows 7 or Windows Vista (Error 53).	Run SocketScan 10 with administrative privileges. Right-click on the SocketScan 10 desktop shortcut icon. Click <b>Properties</b> . Click <b>Advanced</b> . Select <b>Run as administrator</b> and click <b>OK</b> .

**SYMPTOM:** When I try to open Scanner Settings, an error message says that SocketScan failed to set the scanner configuration mode.

POSSIBLE REASONS	SOLUTION
The CHS is connected to a computer with the Toshiba <i>Bluetooth</i> stack, and SocketScan 10 keyboard wedge is running.	Ignore the message and click <b>OK</b> . The Scanner Settings application will launch and work properly.

**SYMPTOM:** When I open SocketScan 10, an error message says it cannot determine which *Bluetooth* stack is present.

POSSIBLE REASONS	SOLUTION
<i>Bluetooth</i> is not enabled on your PC.	Enable <i>Bluetooth</i> on your PC. Make sure <i>Bluetooth</i> is fully initialized before opening SocketScan 10.

**SYMPTOM:** After the CHS connects, an error message says the application failed to initialize properly.


POSSIBLE REASONS	SOLUTION
Your system is missing .NET Framework (0xc0000135)	Install the latest version of .NET Framework with the appropriate version of Runtime software.

**SYMPTOM:** I installed SocketScan 10, but the shortcut icon does not appear on my desktop.

POSSIBLE REASONS	SOLUTION
You incorrectly uninstalled a copy of SocketScan 10 before installing your current copy of SocketScan 10.	Make sure SocketScan 10 is not running. Uninstall SocketScan 10. When prompted, make sure to restart the computer. Re-install SocketScan 10.

## TROUBLESHOOTING FOR WINDOWS MOBILE

For help using SocketScan for Windows Mobile, tap on the  icon.

**SYMPTOM:** I am using the CHS in SPP mode and get the “Not connected”  icon in the task tray of the Today screen and can’t trigger the scanner or scan any barcodes.

POSSIBLE REASON	SOLUTION
Your SoMo is not connected to the CHS.	Make sure the CHS is on and in range and has enough battery power. Try to reconnect.
You are trying to connect the CHS with an HP iPAQ 100 or 200 series Pocket PC.	The first release of SocketScan 10 for Windows Mobile is only compatible with the Socket SoMo 650. Check back for HP iPAQ compatibility in future releases.

**SYMPTOM:** The Bluetooth software indicates that the CHS has connected, but when I try to scan data, it does not enter into my application.

POSSIBLE REASONS	SOLUTION
The CHS is in SPP mode, and the SoMo has multiple incoming Bluetooth serial ports enabled.	Use your Bluetooth utility to disable extra incoming Bluetooth serial ports.
The CHS is in SPP mode, and SocketScan 10 is not running.	Start SocketScan 10. Tap <b>Start   Programs   SocketScan 10   SocketScan 10</b> .

**SYMPTOM:** When I try to launch Scanner Settings, I get an error message saying that I need to close the Keyboard Wedge application.

POSSIBLE REASONS	SOLUTION
The CHS is in SPP mode and connected to the SoMo when you try to launch Scanner Settings.	Close the Keyboard Wedge application and try launching Scanner Settings again.

**SYMPTOM:** While using Scanner Settings, the CHS disconnects, and the Scanner Settings utility is non-responsive.

POSSIBLE REASONS	SOLUTION
You tried to switch from one SocketScan application to another by using an assigned launch button.	Only use the pop-up menu from the SocketScan task tray icon to switch between SocketScan applications.

**SYMPTOM:** When I try to connect the CHS to my SoMo, I get an error message saying that an incompatible scanner tried to connect.

POSSIBLE REASONS	SOLUTION
The CHS is in SPP mode, and the SoMo does not have any Bluetooth serial ports free.	Free up a Bluetooth serial port for the CHS connection.

**SYMPTOM:** While scanning barcodes, I get an error message saying error -45 (ESKT\_QUEUERESET)..

POSSIBLE REASONS	SOLUTION
You are scanning barcodes containing a lot of data too fast, and the buffer is full.	Scan barcodes more slowly.

**SYMPTOM:** When I try to use SocketScan 10 Keyboard Wedge or Scanner Settings in landscape mode, it doesn't appear correctly.

POSSIBLE REASONS	SOLUTION
This release of SocketScan 10 does not support landscape mode for Windows Mobile.	Use your device in Portrait mode and upgrade your SocketScan 10 software when a later release is available.

**SYMPTOM:** .The CHS doesn't work with my Windows Phone 7 device.

POSSIBLE REASON	SOLUTION
Windows Phone 7 is not compatible with the Bluetooth HID or SPP profile.	Unless Microsoft adds support for HID or SPP to Windows Phone 7, you need to use a different device, such as the Socket SoMo 650.

## TROUBLESHOOTING FOR ANDROID OS

**SYMPTOM:** The CHS won't reconnect to my Samsung Galaxy or Dell Streak any more.

POSSIBLE REASON	SOLUTION
This is a known issue for <i>Bluetooth</i> for these devices.	Disable and enable <i>Bluetooth</i> on your Android device and try again.



## TROUBLESHOOTING FOR BLACKBERRY

**SYMPTOM:** *When I perform a Bluetooth device search, the CHS does not appear in the found devices list.*

POSSIBLE REASON	SOLUTION
You are using the BlackBerry Storm 9530 or other smartphone with BlackBerry OS version previous to 5.00.714	Upgrade your BlackBerry OS to version 5.00.714 or later.

**SYMPTOM:** *.When I try to connect the CHS, an error message says that SocketScan 10 can't connect to unknown device.*

POSSIBLE REASON	SOLUTION
The CHS is already paired to another device.	Unpair the CHS (see Appendix F for instructions) and delete any "Unknown devices" in the <i>Bluetooth</i> paired devices list.

**SYMPTOM:** *.When I scan a barcode, only some of the data from the barcode enters into my application.*

POSSIBLE REASON	SOLUTION
Your barcode contains more than 250 characters, and the CHS does not have enough time to decode all the data. By default, the CHS decodes data for 5 milliseconds.	Configure the CHS to increase the time it spends decoding data after each barcode scan.

# APPENDIX I

## TECHNICAL SUPPORT

If you have trouble installing or using the *Bluetooth* CHS, Socket has different support options to help you.

**Online Knowledge Base:** Search for articles, Frequently Asked Questions or Hot Topics 24 hours a day. [http://support.socketmobile.com/EU\\_S1a.asp](http://support.socketmobile.com/EU_S1a.asp)

**Online Requests:** Register your product and submit a question to our Technical Support Team. <http://support.socketmobile.com>

## LIMITED WARRANTY

Socket Mobile Incorporated (Socket) warrants this product against defects in material and workmanship, under normal use and service, for one (1) year from the date of purchase. Product must be purchased new from a Socket Mobile Authorized Distributor or Reseller. Products purchased through non-authorized channels are not eligible for this warranty support.

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

An extended warranty is available separately for the *Bluetooth Cordless Hand Scanner*. For more information, please visit: <http://support.socketmobile.com>

Incompatibility is not a defect covered by the Socket warranty. During the warranty period, Socket 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 or to an authorized Socket Service Center.

The returned product must be accompanied by a return material authorization (RMA) number issued by Socket or by a Socket Service Center. If you ship the product, you must use the original container or equivalent and you must pay the shipping charges to Socket. Socket 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 may, at its option, replace or repair the product with new or reconditioned parts and the returned product becomes property of Socket. Socket 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 repair or replacement of products damaged by abuse, accident, lost products, use beyond Socket's published specifications, liquid immersion, misuse or misapplication, damages caused by an act of God, nor as a result of service or modification other than by Socket unless specifically described by Socket in product documentation. This warranty does not provide coverage for any product updates, for example updates due to design changes, except as deemed necessary by Socket and does not cover any calibration or adjustments necessary for product functionality. This warranty does not cover refurbishing cosmetic damages such as scratched paint, cases or LED screens. This warranty is void if you install batteries into the product that were not supplied by Socket.

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

For warranty information, please visit: <http://support.socketmobile.com/>

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## REGULATORY COMPLIANCE

The Socket *Bluetooth* 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 technical support at <http://support.socketmobile.com/>

### **Radio Frequency Interference Requirements**

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

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement."

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 *Bluetooth* 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 <http://www.hc-sc.gc.ca/>

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

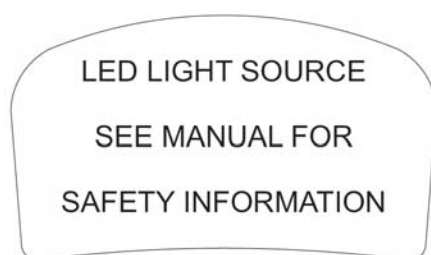
#### **Applicable Standards:**

- 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

#### **LED DEVICE:**

The product described in this User's Guide contain a Class 1 LED scan engine, which complies with IEC60825-1:2001-08.

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



**Example of Class 1 LED Warning Label**

#### **Battery Warning:**

- Your device contains a factory installed rechargeable LI ion battery that should not be removed. 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.





