# Secure Digital Scan Card
*Series 3*


# User's Guide

**socket.**
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# Copyright Notice

# Table of Contents

# 1 | Introduction

The Secure Digital Scan Card (SDSC) Series 3 gives you the freedom of scanning bar codes anytime anywhere into your Pocket PC or Palm device. The SD Scan Card is a small and sleek unit with no cables or batteries. You can scan with only one hand, letting you collect data with maximum ease and efficiency to increase productivity. The most popular bar codes are automatically detected.

## Product Versions

The SDSC is available in three versions

- 3E: Entry-level bar code scanner featuring a CMOS linear bar code scanning engine.
- 3M: Mid-range bar code scanner with a Class 1 laser bar code scanning engine.
- 3P: Performance bar code scanner with a Class 2 laser bar code scanning engine.

## About the Software

SocketScan™ enters scanned data directly into any open Windows or Palm OS program as if were manually typed — no custom programming is required. You can configure Prefix/Suffixes and assign a .WAV file to signify good data reads. SocketScan for Palm can even add date and time stamps to each scan of data.

SocketScan Trigger for Windows Mobile gives you an alternative method of triggering the scanner in case you don't want to or can't use a hardware button on your Pocket PC. SocketScan Trigger puts an icon on your screen that you can tap to trigger the scanner.

For software updates, please visit:
www.socketmobile.com/support/downloads

## System Requirements

Windows Mobile:
- Any of the following Windows Mobile versions:
  - Windows Mobile 2003, 2003SE or 5.0 for Pocket PC/Pocket PC Phone Edition
  - Windows Mobile 6 Classic/Professional
- SDIO slot
- Installation requires a host computer running Windows Vista and the Windows Mobile Device Center or Windows 2000/XP and ActiveSync 4.5 or greater for Windows Mobile 6 or ActiveSync 4.0 or greater for Windows Mobile 5.0
- Windows Mobile 2003/2003SE devices also require SDIO Now! software from bSQUARE in ROM

PalmOS:
- SDSC 3E: Palm OS 4.1 or greater
  SDSC 3M/3P: Palm OS 5.2 or greater
- SDIO slot

## Package Contents
- Secure Digital Scan Card
- Installation CD containing software and user documentation
- Booklets containing warranty and copyright information

## Product Registration
Socket Mobile highly recommends that all customers register their products. Registered users receive the following benefits:
- Priority for technical support
- Special offers for future products and updates
- The latest new product information

Register your Socket Mobile product online at
www.socketmobile.com/support/support/new

## Laser vs. Linear CMOS Scanning
To learn about the different scanning technologies in the different versions of the SDSC, please read the technology brief at: www.socketmobile.com/support/information-center/technology-briefs/.

# 2 | Setup for Windows Mobile

This chapter explains how to install and use the SD Scan Card in a Pocket PC or other device running Windows Mobile.

## Setup Summary

STEP 1: Uninstall other scanning software.
STEP 2: Install the software.
STEP 3: Insert the card.
STEP 4: Assign a trigger button.
STEP 5: Scan data into your application.

## Additional Features

Symbology selector
Scanner settings
SocketScan Trigger.

*Note: If you are using the Socket Mobile SoMo 650, SocketScan is pre-installed, so you can skip steps 1 and 2. The pre-installed SocketScan software cannot be removed, but you can upgrade it.*

# STEP 1: Uninstall Other Scanning Software

Delete any bar code scanning software you may already have installed into your Pocket PC, including previous versions of SocketScan. You can uninstall either directly from your Pocket PC, or indirectly via ActiveSync.

*Note: The pre-installed SocketScan software on the Socket Mobile SoMo 650 cannot be removed, but it can be upgraded.*

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

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

**OPTION 2: Uninstall with ActiveSync**

1.  Make sure the bar code scanning software is closed, and remove the SDSC from your Pocket PC.
2.  Use ActiveSync and a serial/USB cable or cradle to make an active connection between your Pocket PC and a host PC.
3.  On the host PC, open Microsoft ActiveSync.
4.  Click **Tools | Add/Remove Programs**.
5.  Select the bar code scanning software and click **Remove**.
6.  In the confirmation screen, click **OK**.
7.  The next dialog will ask if you want to remove the software from your host PC as well.

    - Click **NO** to keep a copy of the software on the host PC that can later be re-installed onto a Pocket PC.
    - Click **YES** to remove the software from the host PC.

# STEP 2: Install the Software

*Note: If you are using the SoMo 650, software installation is not necessary. SocketScan is pre-loaded on the device.*

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

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



- If your host PC runs Windows XP, use ActiveSync 4.5 or greater for Windows Mobile 6 or ActiveSync 4.0 or greater for Windows Mobile 5.0.

- If your host PC runs Windows Vista, use the Windows Mobile Device Center built into Windows Vista.

2. Insert the installation CD into your host PC.

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



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

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



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

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

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

7. The installation wizard will automatically begin. Follow the wizard to install the software.
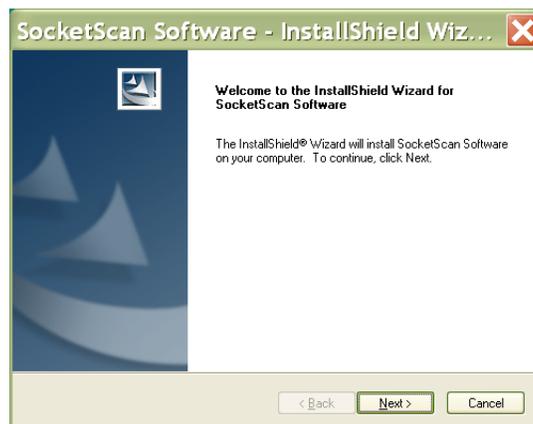
8. If your device warns that the software comes from an unknown publisher, tap **Yes** to continue installation.

9. When installation is complete, remove the device from the cradle. Soft reset the device by pressing the reset button.

   *IMPORTANT! Soft reset your device, or some icons will not appear properly.*

## STEP 3: Insert the Card

Insert the card into your device's SDIO slot. Make sure the card is positioned correctly. Do not insert the card upside-down or force the card in too hard.



*IMPORTANT! To remove the SDSC, push the card completely into the slot. After the card springs back, you can safely remove the card. Do not pull the card out without pushing first, or you can damage the connector the next time you insert a card.*

*The SDIO slot of some devices will draw power from the device's main battery whenever an SD/SDIO card is inserted (regardless of the card's manufacturer), even when the device is turned off. If you have one of these devices, Socket Mobile recommends that you remove the card whenever the card is not in use.*

*For more information, please visit: www.socketmobile.com/support/downloads/data-collection/series3/*

# STEP 4: Assign a Trigger Button

Refer to your device's user documentation to assign a trigger button.

*TIP* — *If you do not want to assign a hardware button to trigger the scanner, you can install Socket's Floating Trigger, available on the installation CD.*

*TIP* — *If SocketScan is not running yet, you can press the assigned trigger button to quickly launch SocketScan. Pressing the trigger button will activate the scanner only when SocketScan is open.*

1. Tap **Start | Settings | Buttons**.



2. From the **Button** list, tap to select a button to trigger the SD Scan Card. In the drop-down menu, select **SocketScan**. When done, tap **ok**.
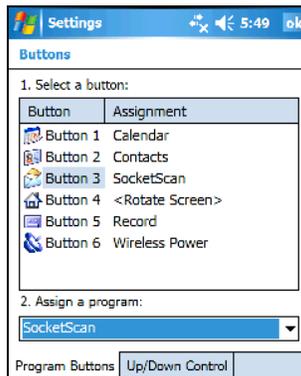


*For maximum ergonomics, choose a button located directly beneath your thumb or forefinger when you hold the device. For the SoMo 650 handheld computer, the Right and Left side buttons are recommended.*

12

## STEP 5: Start SocketScan

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



SocketScan

> *Alternatively, you can press the trigger button to start the program.*

2. Make sure the "Scan Card detected" icon appears at the bottom of the Today screen.

| Icon | Meaning |
|------|---------|
|  | SD Scan Card detected. SocketScan is ready for bar code scanning. |
|  | No scanner detected. The scanner is either missing or improperly inserted. |

## STEP 6: Open Your Application

1. Open the application that you want SocketScan to feed scanned data into (e.g., Excel, Notepad, etc.).

2. Make sure a document or spreadsheet is open.

3. Place the cursor where you would like data from the next scan to go.
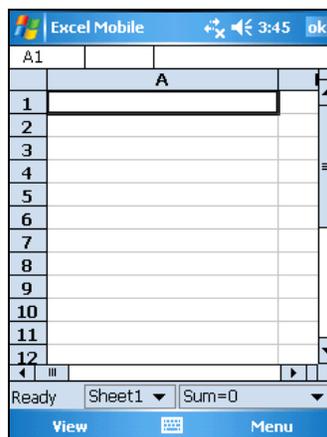
## STEP 7: Scan Data into Your Application

1.  Press the assigned trigger button and scan the bar code. Make sure the aiming beam covers the entire width of the bar code.



When data is read, a beep will sound, and the scanner beam will turn off. If the SD Scan Card fails to read data within a few seconds, the scanner beam will turn off, and you must try again.

*For tips on scanning technique, please refer to Appendix E.*

 *If your device enters sleep mode when SocketScan is running, press the ON button to initialize the scanner and resume operation.*

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

# Symbology Selector

The applet makes it easy to modify which symbologies you want the scanner to recognize.

1. Tap on the scanner icon [icon] at the bottom of the Today screen. In the pop-up menu, select **Symbology Selector..**.

   | Symbology Selector... |
   |---|
   | Settings... |
   | About... |
   | |
   | Close |

2. In the screen that appears, check the symbologies you wish to enable. Uncheck those you wish to disable. Tap **ok**.
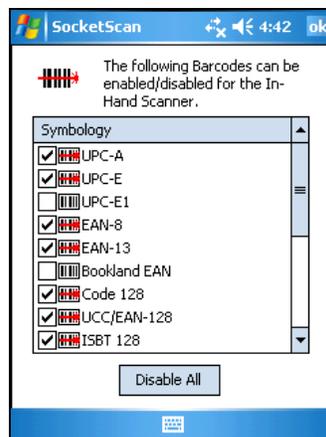
[TIP] *Symbologies not supported by your version of the SDSC will be gray.*

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

## Scanner Settings

The SocketScan configuration utility lets you specify prefix and/or suffix characters to be added automatically to the data you scan, as well as sounds to indicate a good read.

1. Tap on the SDSC scanner icon  at the bottom of the Today screen. In the pop-up menu, select **Settings...**



*You can configure prefix/suffixes and sounds whether or not the SDSC is inserted.*

2. In the Prefix/Suffix screen, enter the characters you want to be appended to each scan (128 character maximum).
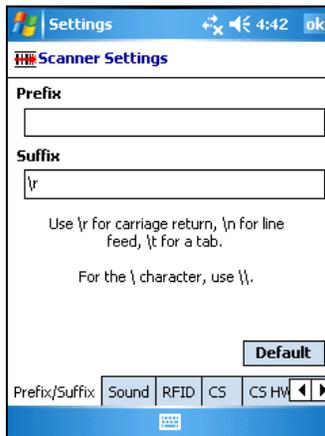


The default suffix is a carriage return. Only printable ASCII characters can be used as prefixes or suffixes.

If you scan bar codes into Word Mobile, the first letter of each prefix will be capitalized.

3. Tap on the **Sound** tab.

16

4. In the screen that appears, select a sound for indicating successful scans.
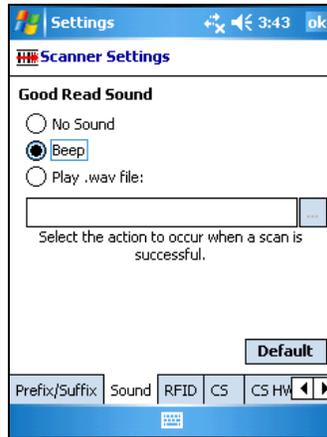
To you want to play a .WAV file, after selecting **Play .wav file,** you can search through files by tapping the browse box. In the **Open** screen, tap on the file you want:
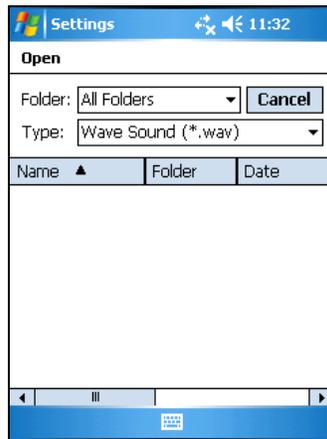
*Note: You can only select a WAV file from the My Documents folder. If needed, copy the file you need to this folder.*

5. After making all your scanner setting selections tap **ok**.

# SocketScan Trigger

If you find it inconvenient or impossible to assign or use a hardware button to trigger the scanner, you can install this virtual trigger button that "floats" on top of the active application.

1. Make sure to do all of the following before using SocketScan Trigger:

   - Install SocketScan Trigger from the installation CD. The software must be installed separately from SocketScan.

   - Start SocketScan. Tap **Start | Programs | SocketScan**.

   - Insert the SD Scan Card into your Pocket PC.

   - Open the application that you want to scan data into.

2. Tap **Start | Programs | SocketScan Trigg**

3. The floating trigger button will appear on your screen on top of the active application.
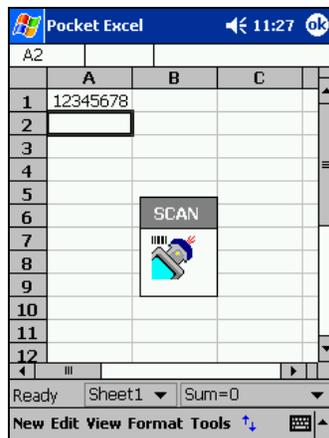
   Drag from the title bar to move the trigger button to a convenient place on the screen.

   Tap the trigger button to activate the scanner.

4. A SocketScan Trigger icon will also appear in the menu bar of the Today screen. Tap this icon to open a pop-up menu with the following options:



- Tap **Scan Now** to activate the scanner as if you had tapped the trigger button.

- Tap **Remove Floating Trigger** to remove the trigger button from the screen but keep the icon handy on the task bar. To restore the trigger button, tap on the menu bar icon. In the pop-up menu, tap **Launch Floating Trigger**.

- Tap **About** to view SocketScan Trigger version information.

- Tap **Close SocketScan Trigger** to close the application completely. From this state, the SocketScan trigger can only be launched from the Programs page.

## DUAL DEVICE SUPPORT

SocketScan for Windows Mobile versions 7.2.4.0 and later support the simultaneous use of two Socket Mobile data collection devices with the same computer.

*Note: SocketScan can capture data from only one cordless scanner at a time.*

Simply connect or plug in each device you plan to use as you normally would.

The functionality of each device is the same, and no extra configuration is required.

You can configure each device separately. In the SocketScan menu, tap on the appropriate device to configure its settings.

# 3 | Setup for Palm OS

## Setup Summary
STEP 1: Uninstall other scanning software.
STEP 2: Install the software.
STEP 3: Insert the card.
STEP 4: Configure SocketScan.
STEP 5: Scan data into your application.

## Additional Features
Symbology selector
Scan test
Help files
Version information

*The instructions in this chapter were based on a Tungsten T running Palm OS 5.0. The instructions for your device may differ.*

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

## STEP 1: Uninstall Other Scanning Software
Delete any previously installed versions of SocketScan or any other bar code scanning software you may already have installed on your device.

1.  Tap **Home**, then tap **Menu**
2.  In the App menu, tap **Delete**.
3.  In the Delete screen, scroll to select your bar code scanning application. Tap **Delete**. In the confirmation screen, tap **Yes**.

## STEP 2: Install the Software

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

2. Insert the SocketScan installation CD into your host PC.

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

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

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

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

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

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

7. The installation wizard will automatically begin. Follow the wizard to install the software.



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

9. A Socket icon should appear on the screen of your device. Tap this icon to install the correct version of SocketScan on your Palm device.

10. Soft reset the Palm device again by pressing the reset button.

## STEP 3: Insert the Card

Insert the card into your Palm device's SDIO slot. Make sure the card is positioned correctly. Do not force or shove the card in too hard.



⚠️ *Older Palm m100 & m500 series devices: The SDIO slot is reversed, so the scanner must be inserted backwards.*

⚠️ *To remove the SD Scan Card, push the card completely into the slot. After the card springs back, gently remove the card. Do not pull the card out without pushing first, or you may damage the connector the next time you insert a card*

⚠️ *Make sure you have soft reset your device after software installation before you insert the card. Press the reset button.*

## STEP 4: Start SocketScan

1. Start SocketScan. Tap on the **Home** icon.

2. In the menu in the upper right corner, select **All**.

3. Scroll to the **SocketScan** icon. Tap on the icon.



SocketScan

## STEP 5: Configure Scanner Settings

1. In the main screen of SocketScan, in **Scanner Device** field, make sure **SD Scan Card** is selected. A picture of the SD Scan Card should appear.
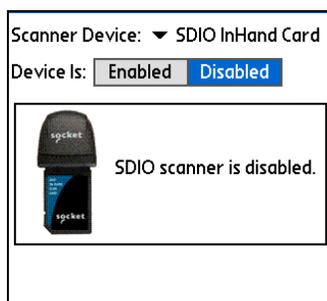


2. Tap **Enabled**. Buttons will appear at the bottom of the screen. Tap **Configure**.
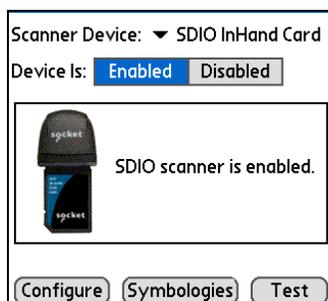


3. Use the Configure screen to configure basic options:
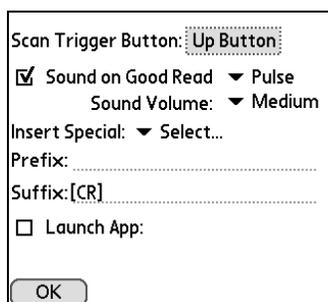


*For help on SocketScan, tap on the* ![i] *symbol in the upper right corner.*

- **Scan Trigger Button**: Tap to select the hardware button you would like to use to trigger the scanner. In the screen that appears, select the hardware button and tap **OK**.

**Up Button**

OK
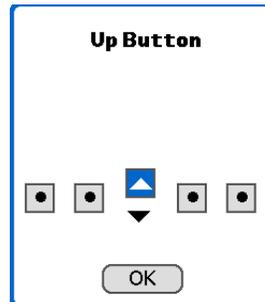
*At this time, Palm utilities do not allow assignment of the Record or Voice button as a trigger.*

*Some older versions of the Palm Treo will only allow you to trigger the scanner with Button 1 or Button 2 (Calendar or Email button).*

- **Sound on Good Read**: Check if you would like the device to make a sound whenever the scanner successfully reads a bar code. In the drop-down menu, select the sound you want.

- **Sound Volume**: Select the sound volume used to indicate good reads.

- **Insert Special**: Make sure the cursor is in either the **Prefix** or **Suffix** field. Use the **Insert Special** drop-down menu to select a special function or data (e.g., time stamp) to insert before or after each scan.

- **Prefix/Suffix**: Enter any characters or functions you would like to append to each scan. Besides special functions listed in the **Insert Special** menu, only printable ASCII characters can be used as prefixes or suffixes.

*A carriage return [CR] is the default Suffix. This suffix advances the cursor to the next data field in your application.*

- **Launch App**: Check if you want SocketScan to launch an application when you start to scan. In the drop-down menu, select the application.

*Do not choose Blazer as the auto-launch application.*

4. Tap **OK** to make the settings take effect.

## STEP 6: Open Your Application

If you did not assign SocketScan to launch an application, then you need to manually start the application that you want SocketScan to feed scanned data into (e.g., SheetToGo).

1. Open the application.

2. Make sure a new document or spreadsheet is open.

3. Place the cursor where you want information from the next scan to go.

## STEP 7: Scan Data into Your Application

1. Press the assigned trigger button and scan the bar code. Make sure the aiming beam covers the entire width of the bar code. For scanning tips, please refer to Appendix E.



2. When data is read, your device will make a sound if you configured SocketScan to do so, the scanner will turn off, and data will appear in your application.

   For example, after you scan the bar code above into a new spreadsheet, data should appear on the first line.



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

# Symbology Selector

1. In the main screen of SocketScan, make sure the SDSC scanner is enabled and tap **Symbologies**.
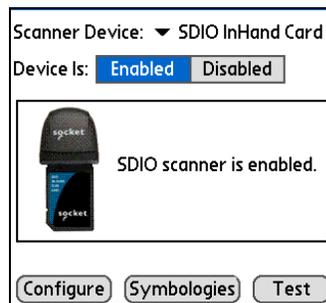


2. Use the checkboxes to select which symbologies you would like the scanner to decode. Tap **OK**.
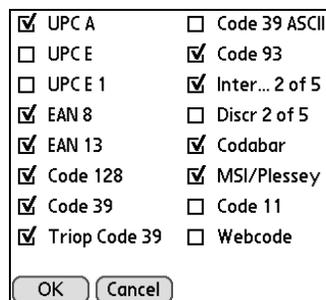


 *Enabling all possible symbologies will make the decode process slightly longer.*

## Scan Test

1. In the main screen of SocketScan, make sure the SDSC scanner is enabled and tap **Test**.

Scanner Device: ▼ SDIO InHand Card

Device Is: Enabled  Disabled

SDIO scanner is enabled.

Configure  Symbologies  Test
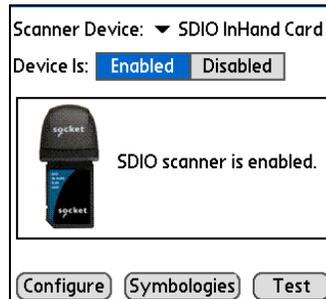
2. Tap **Scan** to trigger the scanner and scan a bar code.

Symbology Type: ..........................................

Length of Result: ..........................

☐ View as Hex          **Scan**

OK
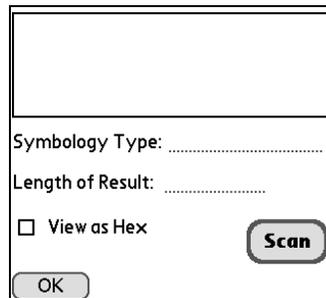
*You cannot use the hardware trigger button for the scan test. Use the **Scan** button to trigger the scanner.*

3. SocketScan will report the encoded data, as well as its symbology type and length. To view the data in hexadecimal format, check **View as Hex**.

071142000500

Symbology Type: UPC A ..........................

Length of Result: 12 ....................

☐ View as Hex          **Scan**

OK
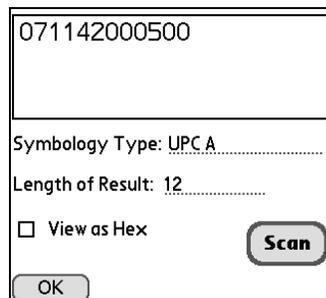
4. When done, tap **OK** to exit the Test Scan.

## Help Files

When SocketScan is open, access help files by tapping on the ![info icon] symbol in the upper right corner.
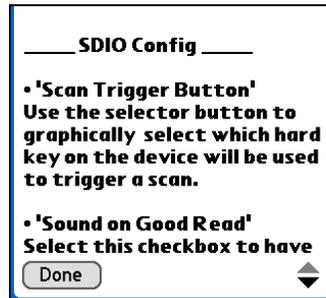


## Version Information

1. In the main screen of SocketScan, tap on the **Options** button or tap on the upper left corner of the screen to access the Options menu.

2. In the Options menu, tap **About SocketScan**.
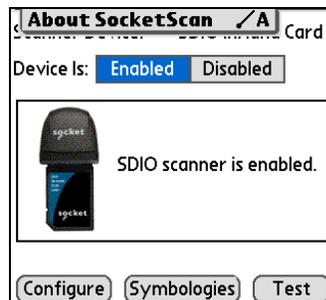


3. View the software version information, then tap **OK**.

# Appendix A
# **Specifications**

*Physical Characteristics:*
**Dimensions:**
SDSC 3E: 61.5 x 28.0 x 14.6 mm
SDSC 3M/3P: 66.5 x 29.4 x 20.0 mm
**Total Mass:**
SDSC 3E: 8 g (0.3 oz)
SDSC 3M/3P: 17 g (0.6 oz)

*Environmental Specifications:*
**Operating Temperature:** 32 10 122°F (0 to 50°C)
**Storage Temperature**
SDSC 3E: -22 to 158°F (-30 to 70°C)
SDSC 3M/3P: -40 to 158°F (-40 to 70°C)
**Relative Humidity:** 5% to 95% non-condensing
**Ambient Light**
SDSC 3E: 0.5 ft candles (5 lux) to 8,000 ft candles (86,112 lux)
SDSC 3M/3P: Sunlight: 10,000 ft candles (107,650 lux)
                Artificial light: 450 ft candles (4,844 lux)

*Power Consumption (3.3 V Supply):*
**Standby:**
SDSC 3E/3M/3P: 4 mA (13 mW)
**Scanning (typical):**
SDSC 3E: 56 mA  (185 mW)
SDSC 3M/3P: 90 mA (297 mW)
**Laser Power at 650 nm:**
SDSC 3M: 0.7 mW (±0.1mW)
SDSC 3P: 1.7 mW (±0.2 mW)

*Scanner Type*
SDSC 3E: CMOS linear imager for linear (1D) bar codes
SDSC 3M: Class 1 laser for linear and stacked linear composite bar codes
SDSC 3P: Class 2 laser for linear and stacked linear composite bar codes

*Bar Code Symbologies Automatically Detected:*
SDSC 3E: Code 39, UPC/EAN, Code 128, I 2of5, D 2of5, Code 93, Codabar, MSI/Plessey, Code 11, and Web Code

SDSC 3M/3P: Same as above except WebCode plus Chinese 20f 5 and RSS-14/Limited/Expanded

**Scanner Decode Distance:** *Depends on symbol size, symbology, label media, W-N ratio, scan angle*

SDSC 3E: 3.18 to 60.96 cm (1.5 to 24+ inches)
SDSC 3M: 2.50 to 88.90 cm (1.00 to 35.00 inches)
SDSC 3P: 2.50 to 114.30 cm (1.00 to 45.00 inches)

See Appendix D for more detailed information.

**Scan Repetition Rate**
SDSC 3E: Frame rate varies with the amount of ambient light
SDSC 3M/3P: 100 scans/second bi-directional

**Optical Resolution**
SDSC 3M/3P: 0.004 inch (0.102 mm) minimum per bar code element width (X Dimension)

**Print Contrast**
SDSC 3E: 35% MRD measured at 674 nm
SDSC 3M/3P: Minimum 25% absolute dark/light reflectance (MRD) measured at 650 nm

**Scan Angle**
SDSC 3M/3P: Wide (default): 47° ±3° Narrow: 35° ± 3°

**Interface Standard:** SDIO

**Operating System Support:**
- Windows Mobile 5.0 for Pocket PC/Pocket PC Phone
- Windows Mobile 2003/2003SE for Pocket PC/Pocket PC Phone with BSQUARE SDIO Now! software in ROM
- Windows Mobile 6 Classic/Professional
- Palm OS 4.1 or greater for SDSC 3E
- Palm OS 5.2 or greater for SDSC 3M/3P

**Software Included:**
- Installation utility
- SocketScan software with keyboard emulation for Windows Mobile and Palm OS
- Socket Floating Trigger for Windows CE

***Warranty:*** One year

***Certification/Compliance:***
SDSC 3E: C-TICK s.182, FCC: Part 15, Class B, CE:EN55024:1998, RoHS

SDSC 3M/3P: Same as above plus: ICES-003 Class B, AS 3548, CISPR 22, Japan VCCI Class B, 21CFR1040.10, 21CFR1040.11

# Appendix B
# Bar Code Label Specifications

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

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

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

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

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

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

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

# Appendix C
# Enabling or Disabling Symbologies

Socket Mobile bar code scanning products are pre-set to automatically detect and decode (autodiscriminate) the most common bar code symbologies. Refer to the following tables to determine which symbologies and parameters are default. To change your symbology settings, use either of two methods, depending on your device type and which settings you want to change.

*Note:*
- *Enabling more symbologies makes the scanner work harder to search through all possible combinations. This may make the decoding process slightly longer.*
- *Do not enable Code 39 Full ASCII and Trioptic Code 39 simultaneously.*

**OPTION 1: Symbology Selector for Windows Mobile**
If you are using a Windows Mobile-based device, you can quickly enable and disable any of the seventeen most popular symbologies by using the SocketScan Symbology Selector. Refer to Chapter 2 for instructions.

*Note: The length of some symbologies will change after Symbology Selector is used. Refer to the table on the next page.*

**OPTION 2: Scan Programming Bar Codes**
If you are not using a Windows CE device, and/or if you want to modify an option not included in Symbology Selector, you can scan programming bar codes to configure your SD Scan Card. There are programming bar codes that let you enable/disable symbologies as well as configure special features (e.g., specify bar code lengths, transmit check digits, recognize supplementals, etc.). Programming bar codes are available in the Advanced Programming Guide online at www.socketmobile.com/support/downloads/data-collection/series3/?page=Detail

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**WARNING!**

*When scanning programming bar codes with the SD Scan Card, **do not scan any bar codes that set communication protocols**, or the SDSC will be disabled and must be returned to Socket Mobile for reprogramming.*

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**Table 1. Default Symbologies of the SDSC 3E**

| Symbology | Scanner Default | Default Length | Length after Symbology Selector |
|---|---|---|---|
| **UPC/EAN/JAN** | | | |
| UPC-A | Enabled | N/A | N/A |
| UPC-E | Enabled | N/A | N/A |
| UPC-E1 | Disabled | N/A | N/A |
| EAN-8 | Enabled | N/A | N/A |
| EAN-13 | Enabled | N/A | N/A |
| **Code 128 (USS-128 & UCC/EAN 128)** | Enabled | Any | Any |
| **Code 39*** | | | |
| Code 39 | Enabled | 2 to 23 | 2 to 55 |
| Trioptic Code 39 | Enabled | 2 to 23 | 2 to 55 |
| Code 39 Full ASCII | Disabled | 2 to 23 | 2 to 55 |
| **Code 93** | Disabled | 2 to 38 | 2 to 55 |
| **Interleaved 2 of 5*** | Enabled | 14 Only | 2 to 55 |
| **Discrete 2 of 5*** | Disabled | 12 Only | 2 to 55 |
| **Codabar** | Disabled | 5 to 55 | 2 to 55 |
| **MSI Plessey*** | Disabled | 1 to 30 | 2 to 55 |
| **Code 11** | Disabled | 2 to 41 | 2 to 41 |
| **Webcode** | Disabled | 2 to 55 | 2 to 55 |



*WARNING! Setting the length to "Any" may lead to inaccurate decodes of these symbologies!*

*The advanced symbology parameters listed in Table 2 can be modified by following the instructions in the Advanced Programming Guide or by using the SocketScan SDK.  Check the Socket Mobile website for updates.*

**Table 2. Other Symbology Parameters of the SDSC 3E**

| Symbology Parameters | Scanner Default |
|---|---|
| **UPC/EAN/JAN** | |
| Supplementals | Disabled |
| Transmit Check Digit | Enabled |
| Bookland EAN | Disabled |
| Decode UPC/EAN Supplementals | Ignore |
| UPC/EAN Supplemental Redundancy | Seven |
| Transmit UPC-A Check Digit | Enabled |
| Transmit UPC-E Check Digit | Enabled |
| Transmit UPC-E1 Check Digit | Enabled |
| Convert UPC-E to A | Disabled |
| Convert UPC-E1 to A | Disabled |
| EAN-8 Zero Extend | Disabled |
| UPC/EAN Security Level | 0 |
| UPC/EAN Coupon Code | Disabled |
| | |
| **Code 39** | |
| Convert Code 39 to Code 32 | Disabled |
| Code 32 Prefix | Disabled |
| Check Digit Verification | Disabled |
| Transmit Check Digit | Disabled |
| Code 39 Full ASCII | Disabled |
| | |
| **Interleaved 2 of 5** | |
| Check Digit Verification | Disabled |
| Transmit Check Digit | Disabled |
| Convert I 2 of 5 to EAN-13 | Disabled |
| | |
| **MSI Plessey** | |
| MSI Plessey Check Digits | One |
| Transmit Check Digit | Disabled |
| Check Digit Algorithm | Mod 10/Mod 10 |
| | |
| **Webcode** | |
| Enable GT Web Code | Disabled |

## Table 3. Default Symbologies of the SDSC 3M/3P

| UPC/EAN | |
|---|---|
| UPC-A | Enable |
| UPC-E | Enable |
| UPC-E1 | Disable |
| EAN-8 | Enable |
| EAN-13 | Enable |
| Bookland EAN | Disable |
| Decode UPC/EAN Supplementals | Ignore |
| Decode UPC/EAN Supplemental Redundancy | 7 |
| Transmit UPC-A Check Digit | Enable |
| Transmit UPC-E Check Digit | Enable |
| Transmit UPC-E1 Check Digit | Enable |
| UPC-A Preamble | System Character |
| UPC-E Preamble | System Character |
| UPC-E1 Preamble | System Character |
| Convert UPC-E to A | Disable |
| Convert UPC-E1 to A | Disable |
| EAN-8 Zero Extend | Disable |
| Convert EAN-8 to EAN-13 Type | Type is EAN-13 |
| UPC/EAN Security Level | 0 |
| UCC Coupon Extended Code | Disable |
| | |
| **Code 128** | |
| Code-128 | Enable |
| UCC/EAN-128 | Enable |
| ISBT 128 | Enable |
| | |
| **Code 39** | |
| Code 39 | Enable |
| Trioptic Code 39 | Disable |
| Convert Code 39 to Code 32 | Disable |
| Code 32 Prefix | Disable |
| Set Length(s) for Code 39 | 2-55 |
| Code 39 Check Digit Verification | Disable |
| Transmit Code 39 Check Digit | Disable |
| Code 39 Full ASCII Conversion | Disable |
| | |
| **Code 93** | |
| Code 93 | Disable |
| Set Length(s) for Code 93 | 4-55 |
| | |

| Code 11 | |
|---|---|
| Code 11 | Disable |
| Set Lengths for Code | 4 to 55 |
| Code 11 Check Digit Verification | Disable |
| Transmit Code 11 Check Digit(s) | Disable |
| | |
| **Interleaved 2 of 5** | |
| Interleaved 2 of 5 | Enable |
| Set Length(s) for I 2 of 5 | 14 |
| I 2 of 5 Check Digit Verification | Disable |
| Transmit I 2 of 5 Check Digit | Disable |
| Convert I 2 of 5 to EAN 13 | Disable |
| | |
| **Discrete 2 of 5** | |
| Discrete 2 of 5 | Disable |
| Set Length(s) for D 2 of 5 | 12 |
| | |
| **Chinese 2 of 5** | |
| Chinese 2 of 5 | Disable |
| | |
| **Codabar** | |
| Codabar | Disable |
| Set Lengths for Codabar | 5-55 |
| CLSI Editing | Disable |
| NOTIS Editing | Disable |
| | |
| **MSI** | |
| MSI | Disable |
| Set Length(s) for MSI | 6-55 |
| MSI Check Digits | One |
| Transmit MSI Check Digit | Disable |
| MSI Check Digit Algorithm | Mod 10/Mod 10 |
| | |
| **RSS** | |
| RSS-14 | Disable |
| RSS-Limited | Disable |
| RSS-Expanded | Disable |

# Appendix D
# Decode Zone

The decode zone is a function of various symbol characteristics including density, print contrast, wide-to-narrow ratio, and edge acuity. The minimum element width (also known as the "X Dimension", "size" or "symbol density" of a bar code) is the width in thousandths of an inch (or 'mils') of the narrowest element (bar or space) in the bar code. The figures shown are the typical scanning distances (Depth of Field) for selected bar code sizes.

For example, the SD Scan Card 3E should be able to scan a 10 mil bar code when the bar code is positioned between 1.25 and 7.5 inches from the nose of the scanner.

The maximum readable length of a bar code symbol (Width of Field) at any given range is also shown. In the example above, the maximum length of a 10 mil bar code scanned at a distance of 7.5 inches is approximately 8 inches including the quiet zone.

## SDSC 3E



**SDIO Scan Card Decode Zone**

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

| in. | cm |
|---|---|
| 15 | 38.1 |
| 10 | 25.4 |
| 5 | 12.7 |
| 0 | 0 |
| 5 | 12.7 |
| 10 | 25.4 |
| 15 | 38.1 |

Width of Field

| | 4.5 |
| 1.75 | 7.5 mil | 6.25 |
| 1.25 | 10 mil | 7.5 |
| 2.0 | 13 mil | 8.5 |
| 2.2 | 20 mil | 12 |
| 4.3 | 55 mil | 24 |

| in. | 0 | 5 | 10 | 15 | 20 | 25 |
| cm | 0 | 12.7 | 25.4 | 38.1 | 50.8 | 63.5 |

Depth of Field
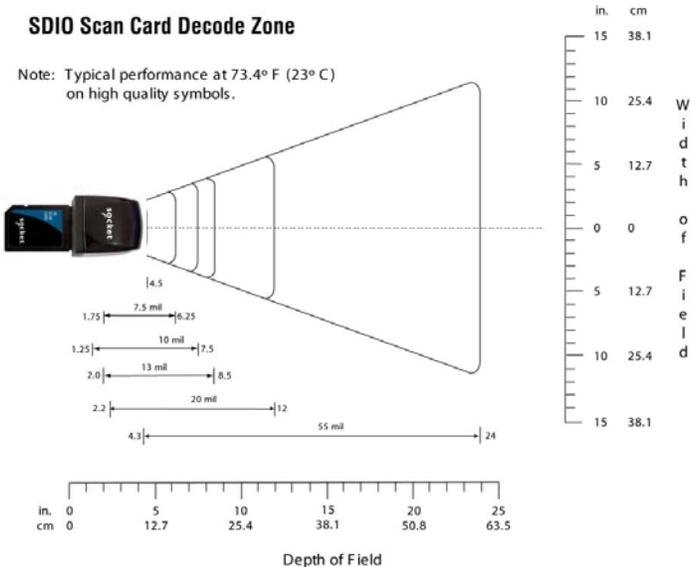
# SDSC 3M

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

| | In. | cm |
|---|---|---|
| | 15 | 38.1 |
| | 10 | 31.6 |
| | 5 | 12.7 |
| | 0 | 0 |
| | 5 | 12.7 |
| | 10 | 25.4 |
| | 15 | 38.1 |

Width of Field

1.50 |← 4 mil →| 5.50
1.80 |← 5 mil →| 8.00
2.20 |← 7.5 mil →| 13.00
2.20 |← 10 mil →| 18.00
2.20 |← 100% UPC →| 24.00
2.20 |← 15 mil →| 25.00
2.50 |← 20 mil →| 26.00
* |← 40 mil →| 28.00
|← 55 mil →| 32.00

| In. 0 | 5 | 10 | 15 | 20 | 25 | 30 | 35 |
|---|---|---|---|---|---|---|---|
| cm 0 | 12.7 | 25.4 | 38.1 | 50.8 | 63.5 | 76.2 | 88.9 |

Depth of Field
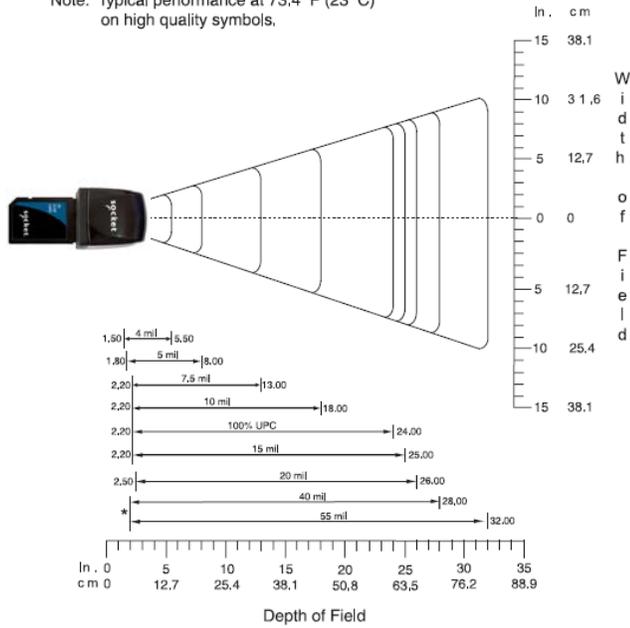
*Minimum distance determined by symbol length and scan angle

# SDSC 3P

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

| | In. | cm |
|---|---|---|
| | 20 | 50.8 |
| | 15 | 38.1 |
| | 10 | 31.6 |
| | 5 | 12.7 |
| | 0 | 0 |
| | 5 | 12.7 |
| | 10 | 25.4 |
| | 15 | 38.1 |
| | 20 | 50.8 |

Width of Field

1.50 |← 4 mil →| 5.50
1.80 |← 5 mil →| 8.00
2.20 |← 7.5 mil →| 13.00
2.20 |← 10 mil →| 18.00
2.20 |← 100% UPC →| 24.00
2.20 |← 15 mil →| 28.00
2.50 |← 20 mil →| 29.00
* |← 40 mil →| 33.00
|← 55 mil →| 42.00

| In. 0 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 |
|---|---|---|---|---|---|---|---|---|---|
| cm 0 | 12.7 | 25.4 | 38.1 | 50.8 | 63.5 | 76.2 | 88.9 | 101.6 | 114.3 |

Depth of Field
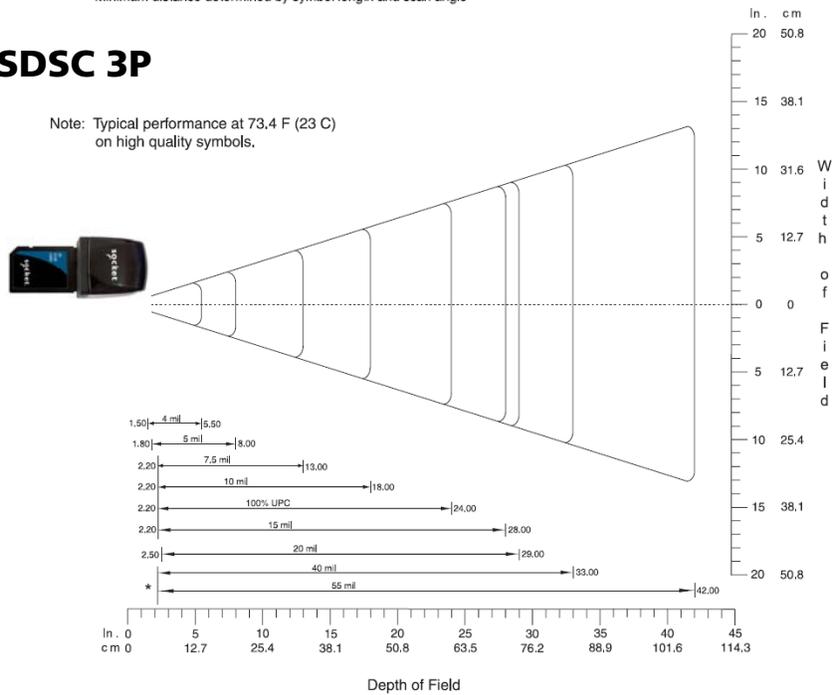
*Minimum distance determined by symbol length and scan angle

# Decode Distances

The following tables list the typical and guaranteed scanning distances for selected bar code sizes. The minimum element width ("X Dimension", "size" or "symbol density") is the width in mils of the narrowest element (bar or space) in the symbol.

## SDSC 3E

| Symbol Density /Bar Code Type /W-N Ratio | Bar Code Content /Contrast | Typical Working Ranges | | Guaranteed Working Ranges | |
|---|---|---|---|---|---|
| | | Near | Far | Near | Far |
| **6 mil** Code 39; 2.5:1 | **123** 80% MRD | 2.25 in 5.72 cm | 4.50 in 11.43 cm | 3.00 in 7.62 cm | 4.00 in 10.16 cm |
| **7.5 mil** Code 39; 2.5:1 | **ABCDEF** 80% MRD | 1.75 in 4.45 cm | 6.25 in 15.88 cm | 2.50 in 6.35 cm | 4.75 in 12.07 cm |
| **10 mil** Code 39; 2.5:1 | **FGH** 80% MRD | 1.25 in 3.18 cm | 7.50 in 19.05 cm | 2.00 in 5.08 cm | 6.00 in 15.24 cm |
| **13 mil** UPCA; 2.5:1 | **01234567890 5** 80% MRD | 2.00 in 5.08 cm | 8.50 in 21.59 cm | 2.50 in 6.36 cm | 7.25 in 18.42 cm |
| **20 mil** Code 39; 2.5:1 | **123** 80% MRD | 2.20 in 5.59 cm | 12.00 in 30.48 cm | Note 2 | 10.75 in 27.31 cm |
| **55 mil** (4) Code 39; 2.5:1 | **CD** 80% MRD | 4.30 in 10.92 cm | 24.00 in 60.96 cm | Note 2 | 16.00 in 40.64 cm |

*Notes:*
1. *Contrast measured as Mean Reflective Difference (MRD) at 670 nm.*
2. *Near ranges on lower densities depend on the width of the bar code and the scan angle.*
3. *Working range specifications at ambient temperature (23 C).*
4. *Retro-reflective label media used for 55 mil bar code.*

# SDSC 3M

| Symbol Density/ Bar Code Type/ W-N Ratio | Bar Code Content/ Contrast [Note 1] | Typical Working Ranges | | Guaranteed Working Ranges | |
|---|---|---|---|---|---|
| | | Near | Far | Near | Far |
| 4.0 mil Code 39; 2.5:1 | ABCDEFGH 80% MRD | 1.00 in 2.50 cm | 5.50 in 13.97 cm | 2.20 in 5.59 cm | 3.20 in 8.13 cm |
| 5.0 mil Code 39; 2.5:1 | ABCDEFGH 80% MRD | 1.25 in 3.18 cm | 8.00 in 20.32 cm | 2.20 in 5.59 cm | 5.50 in 13.97 cm |
| 7.5 mil Code 39; 2.5:1 | ABCDEF 80% MRD | 1.50 in 3.81 cm | 13.00 in 33.02 cm | 2.00 in 5.08 cm | 9.00 in 22.86 cm |
| 10 mil Code 39; 2.5:1 | ABCDE 90% MRD | 1.50 in 3.81 cm | 18.00 in 45.72 cm | 1.75 in 4.45 cm | 13.00 in 33.02 cm |
| 13 mil 100% UPC | 12345678905 90% MRD | 1.50 in 3.81 cm | 24.00 in 60.96 cm | 1.75 in 4.45 cm | 17.00 in 43.18 cm |
| 15 mil Code 39; 2.5:1 | ABCD 80% MRD | 1.50 in 3.81 cm | 25.00 in 63.50 cm | 1.75 in 4.45 cm | 18.00 in 45.72 cm |
| 20 mil Code 39; 2.2:1 | 123 80% MRD | 1.75 in 4.45 cm | 29.00 in 73.66 cm | X | 19.00 in 48.26 cm |
| 40 mil Code 39; 2.2:1 | AB 80% MRD | X | 31.00 in 78.74 cm | X | 21.00 in 53.34cm |
| 55 mil Code 39; 2.2:1 | CD 80% MRD | X | 35.00 in 88.90 cm | X | 25.00 in 63.50 cm |

Notes:
1. CONTRAST measured as Mean Reflective Difference (MRD) at 650 nm.
2. Near ranges on lower densities (not specified) are largely dependent upon the width of the bar code and the scan angle.
3. Working range specifications at ambient temperature (23°C), Photographic quality symbols. pitch=10°, roll=0°, skew=0°, ambient light < 150 ft-candles.
4. X - Dependent on width of bar code.
5. Distances measured from front edge of chassis.

# SDSC 3P

| Symbol Density/ Bar Code Type/ W-N Ratio | Bar Code Content/ Contrast [Note 1] | Typical Working Ranges | | Guaranteed Working Ranges | |
|---|---|---|---|---|---|
| | | **Near** | **Far** | **Near** | **Far** |
| **4.0 mil** Code 39; 2.5:1 | **ABCDEFGH** 80% MRD | **1.00 in** 2.50 cm | **5.50 in** 13.97 cm | **2.20 in** 5.59 cm | **3.20 in** 8.13 cm |
| **5.0 mil** Code 39; 2.5:1 | **ABCDEFGH** 80% MRD | **1.25 in** 3.18 cm | **8.00 in** 20.32 cm | **2.20 in** 5.59 cm | **5.50 in** 13.97 cm |
| **7.5 mil** Code 39; 2.5:1 | **ABCDEF** 80% MRD | **1.50 in** 3.81 cm | **13.00 in** 33.02 cm | **2.00 in** 5.08 cm | **9.50 in** 24.13 cm |
| **10 mil** Code 39; 2.5:1 | **ABCDE** 90% MRD | **1.50 in** 3.81 cm | **18.00 in** 45.72 cm | **1.75 in** 4.45 cm | **14.00 in** 35.56 cm |
| **13 mil** 100% UPC | **12345678905** 90% MRD | **1.50 in** 3.81 cm | **24.00 in** 60.96 cm | **1.75 in** 4.45 cm | **18.00 in** 45.72 cm |
| **15 mil** Code 39; 2.5:1 | **ABCD** 80% MRD | **1.50 in** 3.81 cm | **28.00 in** 71.12 cm | **1.75 in** 4.45 cm | **21.00 in** 53.34 cm |
| **20 mil** Code 39; 2.2:1 | **123** 80% MRD | **1.75 in** 4.45 cm | **33.00 in** 83.82 cm | **X** | **27.00 in** 68.58 cm |
| **40 mil** Code 39; 2.2:1 | **AB** 80% MRD | **X** | **36.00 in** 91.44 cm | **X** | **28.00 in** 71.12cm |
| **55 mil** Code 39; 2.2:1 | **CD** 80% MRD | **X** | **45.00 in** 114.30 cm | **X** | **34.00 in** 86.36 cm |

*Notes:*
1. *CONTRAST measured as Mean Reflective Difference (MRD) at 650 nm.*
2. *Near ranges on lower densities (not specified) are largely dependent upon the width of the bar code and the scan angle.*
3. *Working range specifications at ambient temperature (23°C), Photographic quality symbols. pitch=10°, roll=0°, skew=0°, ambient light < 150 ft-candles.*
4. *X - Dependent on width of bar code.*
5. *Distances measured from front edge of chassis.*

# Appendix E
# Scanning Tips

*Practice to determine the best scanning angle and distance for your type of bar code.*

### Aiming Beam
Aim the scanner so that the red beam covers the entire width of the bar code.



### Scan Angle — SD Scan Card 3M/3P
For best results with the laser-based SD Scan Card, position the scanner at an angle to the bar code, at least 15° from perpendicular. Otherwise, light can bounce back into the scanner and "blind" the sensing mechanism.
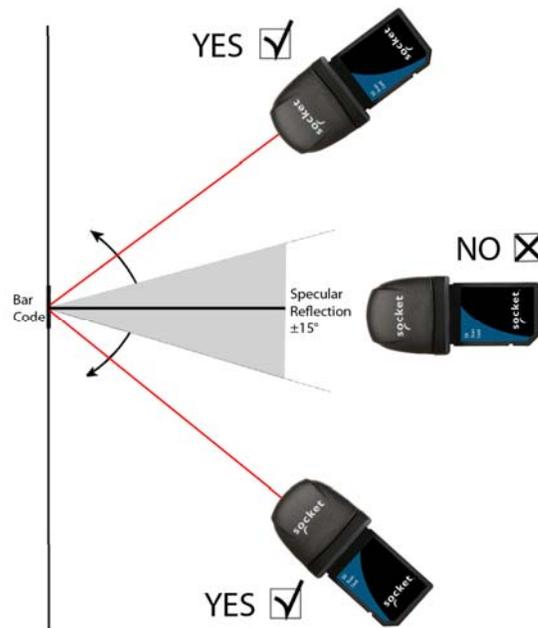
**Scanning with the SD Scan Card 3E**

The SD Scan Card 3E is based on miniature CMOS linear imaging technology.  This device is basically a camera that captures rectangular digital images measuring about 1 degree high and 40 degrees wide.  The imaging rate varies between about 20 and 40 images per second and automatically compensates for ambient lighting conditions — the more ambient light, the more images per second.  It is inappropriate, however, to compare this imaging rate to the rate of the sweeping beam of a laser scanner because the CMOS image is affected by blurring, while the laser technology is not.  For this reason, it's important to hold this scanner still while scanning.

Adequate lighting of the target bar code is critical to scanning with imaging technology.  Unfortunately, providing auxiliary lighting increases the size, energy consumption, control complexity and cost of the scanning device.  For these reasons, the red light from the SDSC scanner is simply an aiming beam — it does not add any auxiliary lighting to the target bar code.  For this reason, it's important to provide adequate ambient lighting to the target bar code while scanning with this scanner.

Like all cameras, the SD Scan Card 3E has a "focal length" (minimum and maximum distance from the target) where the image can be clearly captured.  The focal length of the SDSC scanner is rather small compared to that of laser scanners.  For best results while scanning "normal" sized bar codes such as the UPC codes used on retail items, the SDSC scanner should be held from about 4 to 7 inches (10 to 18 cm) from the target.

**Tips for Maximizing SDSC 3E Scanner Performance:**

1. *Minimize movement during scanning* — The SD Scan Card 3E must be held reasonably steady on the target for a short period of time while the camera focuses and captures a clear image.  The scanner typically requires only several milliseconds to capture a clear image, no more than a quarter to a half of a second.

2. *Provide adequate ambient lighting* —The SDSC scanner, like any camera, works much better when the target bar code is well-lit.

3. *Determine the optimum focal length* — The SDSC scanner has a fairly small focal length, so it is helpful to experiment until

you find the best scanning distance. *Hint: When encountering scanning difficulties, most people have a tendency to move the scanner too close to the target bar code! Try moving it farther away for better results*.

4. <u>*Position the scanner at an angle*</u> — No bar code scanner works well when positioned exactly perpendicular to the target bar code label, because the reflected light tends to "blind" the sensing mechanism. For best results, position the scanner at least 15 degrees away from the perpendicular to the surface of the bar code.

5. <u>*Experiment with different techniques and conditions*</u> — The more you experiment with different techniques, lighting conditions, scanning distances and positions, the more proficient you will become.

# Appendix F
# **Troubleshooting**

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

**SYMPTOM:**
*I get the "No Card Detected" icon in the task tray of my Pocket PC and can't trigger the scanner or scan bar codes.*

| POSSIBLE REASON | SOLUTION |
|---|---|
| Your Pocket PC does not recognize the SD Scan Card 3E. | Make sure the card is inserted properly. If necessary, remove and reinsert. If using battery power, be sure to tap **Yes** if asked whether you want to use battery power. |

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

| POSSIBLE REASON | SOLUTION |
|---|---|
| The scanner is too close or too far from the bar code. | Practice so you get accustomed the most effective distance and scanning angle. See Appendix E. |
| The bar code is incorrectly formatted or poorly printed. | Try scanning a bar code that is correctly formatted or printed well, such as on a retail package. See Appendix B. |
| The bar code symbology may be disabled. | If you have Palm device, you can perform a scan test to identify the symbology. If needed, use Symbology Selector to enable the symbology. |

## SYMPTOM:
*When I press the trigger button, nothing happens.*

| POSSIBLE REASON | SOLUTION |
|---|---|
| The hardware button is defective. | Test the button by assigning a different program to it and make sure it works properly. If needed, use the SocketScan utility to assign a different button to trigger the scanner. |
| You are using an older Palm Treo and have not assigned the trigger to Button 1 or 2. | Download the latest ROM for your device, or use the SocketScan utility to change the button assignment to Button 1 or 2. |
| SocketScan is configured to automatically launch Blazer. | Use the SocketScan utility to either deselect Auto-launch or to change the Auto-launch application. |

# Appendix G
# Technical Support

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

If you have trouble installing or using SD Scan Card, Socket has two technical support resources to help you. Please note that technical support is available in English only.

### Socket On-Demand Support (SOS)
Socket On-Demand Support is an interactive technical support program that focuses in on your specific problem to provide the answers you need. SOS provides immediate service and is the best place to start for technical support. To access SOS, visit: www.socketmobile.com/support/faq. Click on the SOS icon.

If SOS cannot solve your problem, end the session by submitting an email inquiry to a Socket technical support engineer as prompted. Your interactive session will be saved for reference.

### Technical Support

*IMPORTANT! To obtain personal assistance from a Socket technical support engineer, you must first register your product online at **www.socketmobile.com/support/support/new**.*

After you register your product and log in, click on the **Technical Support** tab, then click **Create New Ticket** to submit an online request for technical support.

Afterwards, you can log in anytime to monitor the status of your request. If we are unable to resolve your support inquiry online, we can arrange for a technical support representative to call you at a specific time.

Please refrain from disassembling the scanner. Disassembly of this device will void the product warranty.

# Limited Warranty

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

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

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

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

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

This warranty does not cover the replacement of products damaged by abuse, accident, misuse or misapplication, nor as a result of service or modification other than by Socket.

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

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

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

For warranty information, please visit: www.socketmobile.com/support

# Disclaimer

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# Limited Software Warranty

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

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

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

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

# Regulatory Compliance

The Socket Mobile SD Scan Card 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.

**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 equipment is also EN55024:1998 and C-Tick 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.

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.

**Product Disposal**
This product must not be disposed of with municipal waste. It is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment.

**Laser Device — SDSC 3M**
The SD Scan Card 3M version of this product described in this User Guide contains a Symbol SE-955 Class 1 laser scan engine, for which the following applies:

• Complies with 21CFR1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated July 26, 2001.

• Class 1 Laser devices are not considered to be hazardous when used for their intended purpose. The following statement is required to comply with US and international regulations:

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

CLASS 1 LASER PRODUCT
LASER KLASSE 1
APPAREIL À LASER DE CLASSE 1

**Laser Device — SDSC 3P**
The SD Scan Card 3P version of this product described in this User Guide contains a Symbol SE-955 Class 2 laser scan engine, for which the following applies:

• "Complies with 21CFR1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated July 26, 2001."

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

- Class 2 laser scanners use a low power, visible light diode. As with any very bright light source, such as the sun, the user should avoid staring directly into the light beam. Momentary exposure to a Class 2 laser is not known to be harmful."

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



**Example of Class 2 Laser Warning Label**