DATALOGIC™

pegaso™

Industrial PDA
with Windows Mobile®

Pegaso

Pegaso in Dock

Windows Mobile®

Product Reference Guide

Disclaimer

Patents

Table of Contents

Contents

NOTES

Preface: About this Guide

How to Use this Manual

This Product Reference Guide contains comprehensive basic user instructions for the Pegaso Industrial PDA software, batteries, dock, serial cable, data transfer, as well as advanced user information such as barcode configuration and parameters.

This section provides an overview of the manual's contents and organization.

Document Overview

This document contains the following material:

- This Preface provides an overview of the contents for each chapter, and describes document style conventions.
- Chapter 1, "Batteries and Power", discusses checking battery power, power conservation, battery installation, battery charging with a dock or battery charger, battery storage, battery disposal, and resetting the mobile computer.
- Chapter 2, "Configuration Settings", uses the control panels to adjust touchscreen calibration, date and time, display backlight/contrast, volume/sounds, scanner, power, and memory.
- Chapter 3, "Software Programs", covers memory, installing, selecting, using, and removing applications, entering data, and using the soft input panel with Inbox, Internet Explorer, and Word Pad.
- Chapter 4, "Networks, Communications, and Connections", describes installing, setting up, and using ActiveSync, IrDA, and Networking.
- Appendix A, "Accessories", describes the Accessories, such as docks, battery chargers, holsters, and soft cases available for the Pegaso.
- Appendix B, Falcon® Desktop Utility (FDU) allows Datalogic Windows administrators to configure Windows® PDAs to control individual user access.
- Appendix C, "Configuring the Web Server", describes configuring the Pegaso to work with a Web Server.
- Appendix C, "SNMP Interface", describes SNMP (Simple Network Management Protocol) concepts, MIB (Management Information Base) files, and provides additional resources.
- Appendix D, Cable and Connector Configurations contains pinout information, to create standard interface cables for use in interconnecting the Dock to power and/or peripheral devices.

- Appendix E, "Programming Parameters", provides the programmable settings for the Pegaso.

- Appendix F, "Programming Barcodes", provides barcodes for common setup parameters used to program the Pegaso.

- Appendix G, "Glossary", is a glossary of terms used in this manual that you may not be familiar with that are specific to Windows® and the mobile computer.

Registering Your Datalogic Product

Datalogic values your feedback. Please take a few moments and complete the Product Registration form located on our website (www.mobile.datalogic.com). Registering your products ensures that you will be informed of the latest product news, technical specifications, software updates and other future developments from Datalogic.

Document Conventions

Formatting conventions are used throughout this guide to provide a consistent method for representing screen shots, command entries, and keyboard characters. This guide also provides special conventions for notes and cautions, information of high interest.

NOTES contain information necessary for properly diagnosing, repairing and operating the terminal.

The CAUTION symbol advises you of actions that could damage equipment or property.

CAUTION

A WARNING symbol calls attention to actions that could result in personal injury.

WARNING

Keystrokes. Filenames, paths, field selections from a pull-down list, and data or keystrokes entered by the user are shown in this `monospaced` typeface.

Windows Controls. Windows controls including command bar sequences, prompts, dialog boxes, fields, pull-down lists, check boxes and radio buttons are printed in this **bold** typeface.

Portable Keys

Keys on the Pegaso are bracketed by "greater than" and "less than" symbols (**< >**) to distinguish them from keys on the PC.

<F1> — <F9> Keys. The Function keys, such as **<F1>**, refers only to keys on the Pegaso.

<ENTER> Key. To differentiate the **<ENTER>** key on the portable from the **Enter** key on the PC's keyboard, portable keys are formatted with "greater than" and "less than" symbols: **<ENTER>**.

Stylus Actions

Stylus actions apply to the Pegaso only; most PCs use a mouse as an input device.

Tap or Select. Tap the display screen once with the stylus to activate a specific button or select an item from a pull-down list.

Double-Tap. Tap the stylus twice rapidly in the same location to open an application.

Tap and Hold. Tap and hold the stylus to view the context menu.

Refer to the Quick Reference Guide *(QRG)* for more information on using a stylus with the Pegaso.

Mouse Actions

Applies to the software installation portions of this document using a PC; the Pegaso comes equipped with a stylus. Refer to Stylus Actions on page vii, or see the QRG for more information.

Click or Select. Press and immediately release the left mouse button without moving the mouse. Clicking is used to select specific buttons on various forms and tables.

Double-Click. Click the left mouse button twice in rapid succession. Used to initiate an application.

Right Click. Press and hold the right mouse button without moving the mouse.

Select. Click and release the left mouse button to choose an item or items from a pull-down list.

NOTES

Chapter 1
Batteries and Power

Overview

This section contains the following topics:

- "Suspend Mode" starting on page 1-1
- "Battery Warnings and Cautions" on page 1-2
- "Battery Disposal" starting on page 1-3.

Suspend Mode

The Pegaso will go into a suspend or sleep mode when it is idle for a period of time. This duration can be customized using the **Power** control panel (refer to "Advanced Tab" on page 2-13. Suspend mode works and looks just like you have turned the unit off. Press **<Power>** to suspend (put to sleep) the Pegaso. Press **<Power>** again for the Pegaso to resume its previous state.

Use the **Battery Power** control panel to set the idle duration and the initiation of suspend mode. These features save battery power when the unit is not in use. Refer to "Advanced Tab" on page 2-13 for more information.

Suspending

The following conditions will put the unit into suspend (sleep) mode:

1. When the unit is on, and you press **<Power>** for 0.5 second to initiate suspend mode.

2. When the sleep timer expires, indicating that there has been no use for a specified period of time.

3. A discharged battery pack.

Resuming

Use one of the following methods to resume (wake up the Pegaso):

- Press **<Power>** to resume (wake up).
- Put the Pegaso into a dock.

- Press the **Scan Trigger** to wake up the unit (handled version only).

When a battery pack is fully discharged while the unit is in suspend mode, the Pegaso remains in the suspended mode until the battery pack is charged or external power is supplied via the dock or a power cable.

Battery Warnings and Cautions

WARNING

Do not discharge the battery using any device except for the Pegaso. When the battery is used in devices other than the Pegaso, it may damage the battery or reduce its life expectancy. If the device causes an abnormal current to flow, it may cause the battery to become hot, explode or ignite and cause serious injury.

Lithium-ion battery packs may get hot, explode or ignite and cause serious injury if exposed to abusive conditions. Be sure to follow the safety warnings listed below:
- **Do not place the battery pack in fire or heat.**
- **Do not install the battery pack backwards so the polarity is reversed.**
- **Do not connect the positive terminal and negative terminal of the battery pack to each other with any metal object (such as wire).**
- **Do not carry or store the battery pack together with metal objects.**
- **Do not pierce the battery pack with nails, strike it with a hammer, step on it or otherwise subject it to strong impacts or shocks.**
- **Do not solder directly onto the battery pack.**
- **Do not expose the battery pack to liquids, or allow the battery to get wet.**

In the event the battery pack leaks and the fluid gets into your eye, do not rub the eye. Rinse well with water and immediately seek medical care. If left untreated, the battery fluid could cause damage to the eye.

Always charge the battery at 32°–104°F (0°–40°C) temperature range. Regularly charging near the temperature limits will increase the time necessary to fully charge the battery, and will shorten the battery's useful life.

CAUTION

If you remove the battery pack or it becomes completely discharged, there is a 30-minute window in which to insert a charged battery pack before the backup battery fails. If your backup battery completely discharges, the contents of the RAM memory will be lost. If your back-up battery is less than fully charged, there is a proportionally smaller time available.

Use only the authorized power supplies, battery pack, chargers, and docks supplied by your Datalogic reseller. The use of any other power supplies can damage the Pegaso and void your warranty. Refer to Appendix A for the correct "Power Supplies" and "Accessories".

Do not disassemble or modify the battery. The battery contains safety and protection devices, which, if damaged, may cause the battery to generate heat, explode or ignite.

Do not place the battery in or near fire, on stoves or other high temperature locations. Do not place the battery in direct sunlight, or use or store the battery inside unventilated areas such as cars in hot weather. Doing so may cause the battery to generate heat, explode or ignite. Using the battery in this manner may also result in a loss of performance and a shortened life expectancy.

Do not place the battery in microwave ovens, high-pressure containers or on induction cookware.

Immediately discontinue use of the battery if, while using, charging or storing the battery, the battery emits an unusual smell, feels hot, changes color or shape, or appears abnormal in any other way.

Datalogic recommends annual replacement of rechargeable battery packs to ensure maximum performance under normal use. If battery pack has heavy use (requires charging more than once a day), it is recommended that batteries be replaced at 6-month intervals.

Battery Disposal

If you must dispose of a battery pack, please follow the CAUTIONS below:

Use only a battery pack supplied by a Datalogic reseller for this device.The use of other battery supplies can damage the Pegaso and void your warranty. Contact your reseller to for the correct power supplies; view your options under "Battery Pack" on page A-28.

CAUTION

When the battery pack is worn out, insulate the battery pack terminals with adhesive tape or similar materials before disposal.

CAUTION

Recycle Lithium-Ion Batteries.

Do not throw Lithium-Ion Batteries in the trash

Please reference your local regulations for any further guidelines about battery disposal.

NOTES

Chapter 2

Configuration Settings

Overview

This section describes how to access and configure customized Datalogic settings and configuration screens. For information about Microsoft configuration items, reference the help system on your device.

Access the items on the Settings screen to configure the Pegaso. These include date and time, display backlight, volume/sounds, scanner, and power.

The first screen you see on your PDA after powerup is the Today screen. Tap the ![icon] (**Start**) icon to access the Start Menu. See the *Pegaso with Windows Mobile Quick Reference Guide (QRG)* for more information about navigating the menus and screens.

Figure 1. Windows Mobile Today screen
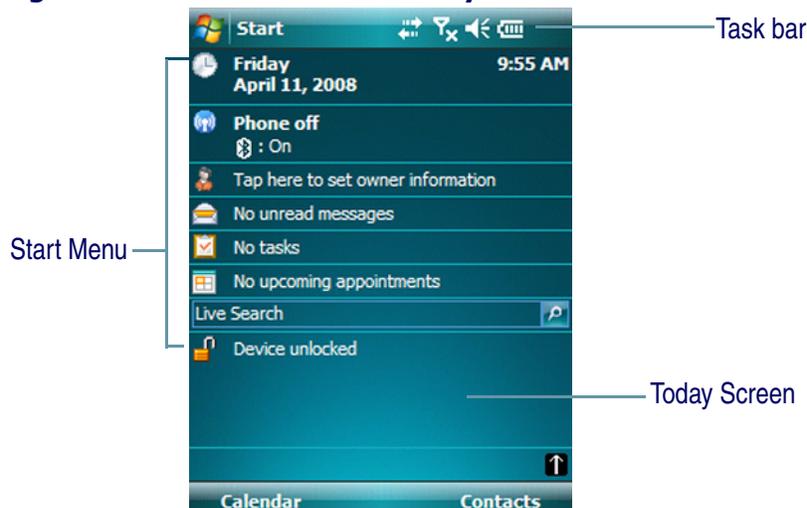
Settings

Access the **Settings** screen from ⊞ **(Start)**, then tap the desired icon to open the control panel for that item. The icons available on your screen may vary, depending on your initial configuration.

There are three types of **Settings**:

- **Personal Settings** on this page
- **System Settings** on page 6
- **Connections** on page 14

This manual describes Datalogic settings and configuration screens. For information about Microsoft configuration items, reference the help system on your device.

Personal Settings

This manual describes Datalogic settings and configuration screens. For more information about configuration of Personal Settings, reference the Microsoft Help system on your device.

Datalogic System Settings

Customized Datalogic System Settings are discussed in this section. For information on Microsoft settings, see the help system on your device.

Datalogic System Settings

"Backlight" on page 7

"Decoding" on page 8

"Device Info" on page 11

"Falcon Config" on page 12

"Keyboard" on page 12

"Power" on page 13

Backlight

> **NOTE** Increasing backlight brightness can cause the battery pack to discharge at a faster rate. The battery discharge rate decreases with a decrease in backlight usage.

Change the **Backlight** settings by tapping ⊞ **> Settings > System,** then the **Backlight** icon.

Figure 2. Backlight Settings
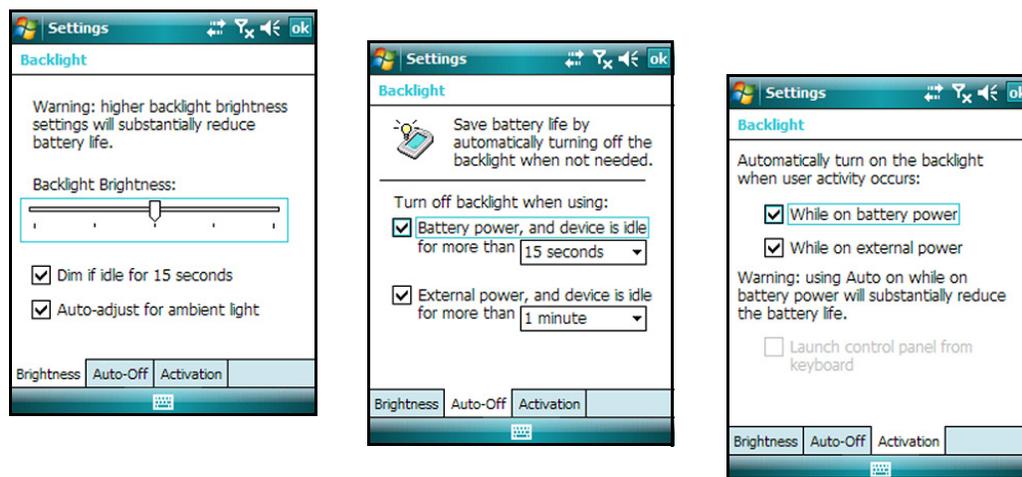
Brightness tab

- On the **Brightness** tab (refer to Figure 2), use the slider to adjust the brightness to the desired setting. You can also use the **<UP>** and **<DOWN>** arrow keys to adjust this setting.

- Auto Power-Save dims (rather than turning off) the backlight after 15 seconds of inactivity. This features does not change the behavior of the Auto-Off Settings. (Refer to "Power" on page 13).

- The ambient light sensor automatically adjusts the intensity of the backlight on the display and keypad in response to changes in lighting conditions. Select the check box to enable or disable this feature.

Auto-Off tab

You can specify different settings for use when the device is running on Battery Power or External Power.

- Specify the amount of time the backlight stays on when device is not in use.

- Set the backlight to turn on automatically when any key is pressed or the touch-screen is tapped, either while on battery or external power.

Activation

The **Activation** tab provides the option to turn on the backlight when user activity occurs.

> **NOTE** Using Auto-on while running from battery power will cause the battery pack to discharge at a faster rate. The battery discharge rate decreases with a decrease in backlight usage.

Exit and save your modifications by tapping **OK,** or press **<ENTER>** on the keypad.

Decoding

You can configure the Pegaso's decoding options by tapping 🎚️ **> Settings > System > Decoding.**

There are two sections in the **Decoding** control panel, each containing additional pages. There are six General Configuration pages and multiple Barcode symbology pages.

> **NOTE** Other decoding parameters are described in Programming Parameters, starting on page E-57; barcode settings are provided in Programming Barcodes, starting on page F-73.

Configuration Control Panels

Select the desired configuration from the following options shown in Figure 3, and the other Decoding Properties figures on the following pages.

Select **General** or **1D Bar Code**, then use the menus or tap the left and right arrow keys to navigate the different pages of the **Decoding** utility. The menu options will change to reflect the items most recently selected.

Audio

From the Decoding menu, tap **Configure > General > Audio.** Use to set volume, tone, duration, and number of various types of beeps.

Figure 3. Decoding Properties: Audio
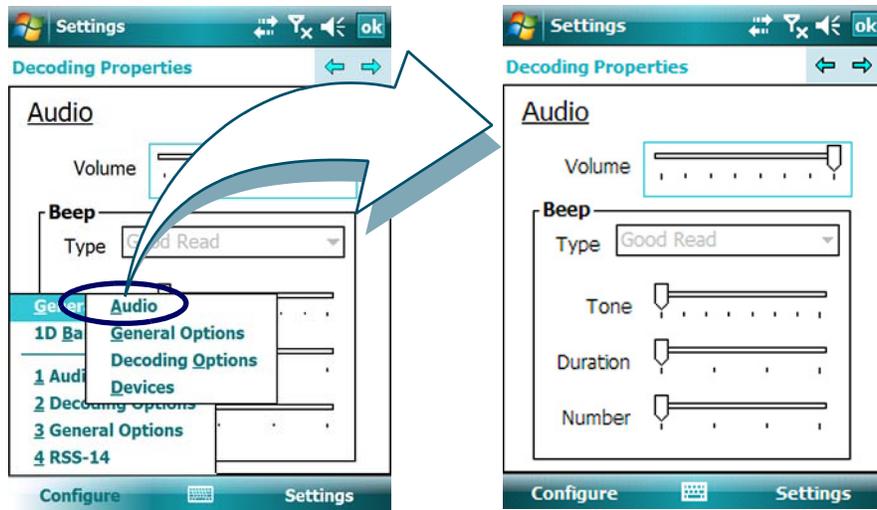
General Options

From the Decoding menu, tap **Configure > General > General Options**. Select from Label Programming Enable, Symbology IDs, Label Prefix, Label Suffix, and Data Separator.

Figure 4. Decoding Properties: General Options
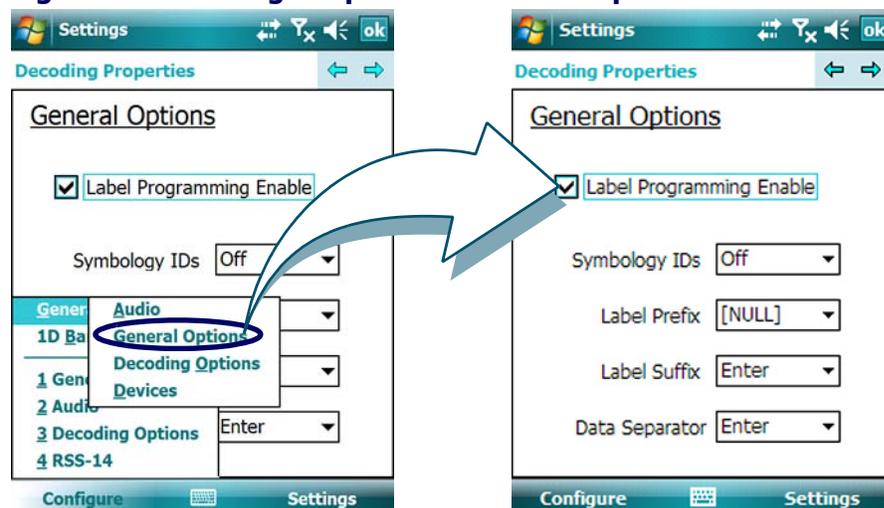
Devices

From the Decoding menu, tap **Configure > General > Devices.** Use to enable or disable the keyboard wedge for Barcode scanner.

Figure 5. Decoding Properties: Devices
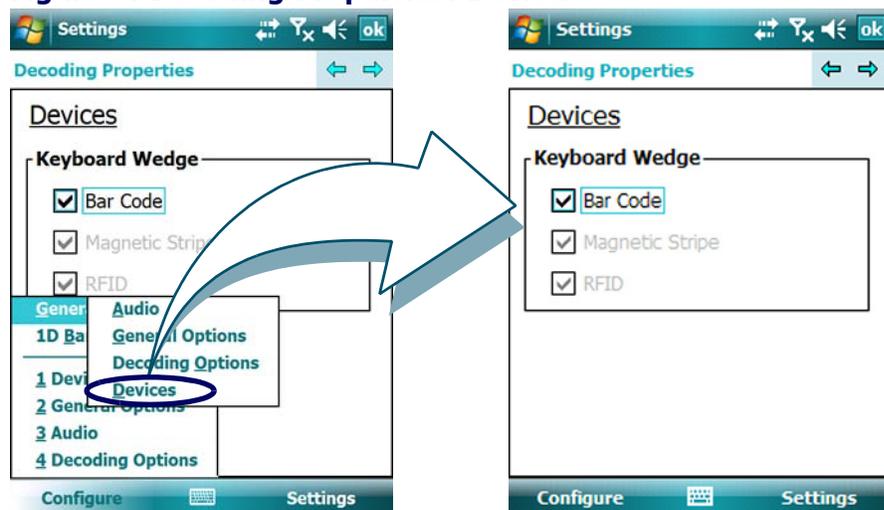
Decoding Options

From the Decoding menu, tap **Configure > General > Decoding Options.** Select a symbology to view or change the available properties settings.

Figure 6. Decoding Properties: Decoding Options
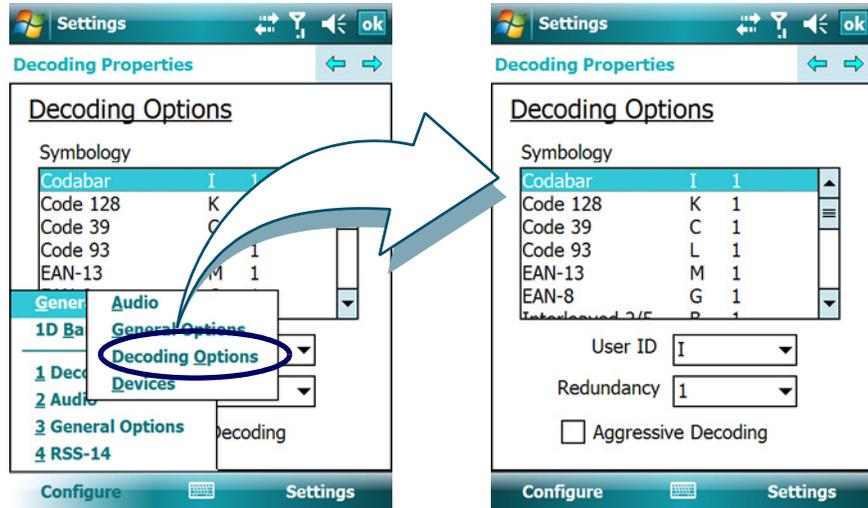
Select **Configure > General** from the menu to view other configuration options.

1D Barcode Symbology Pages

Use the drop-down menus from **Configure > 1D Barcode**, or tap the left and right arrow keys to navigate the different pages of the barcode symbology pages. .

Figure 7. Decoding Properties: 1D Barcode
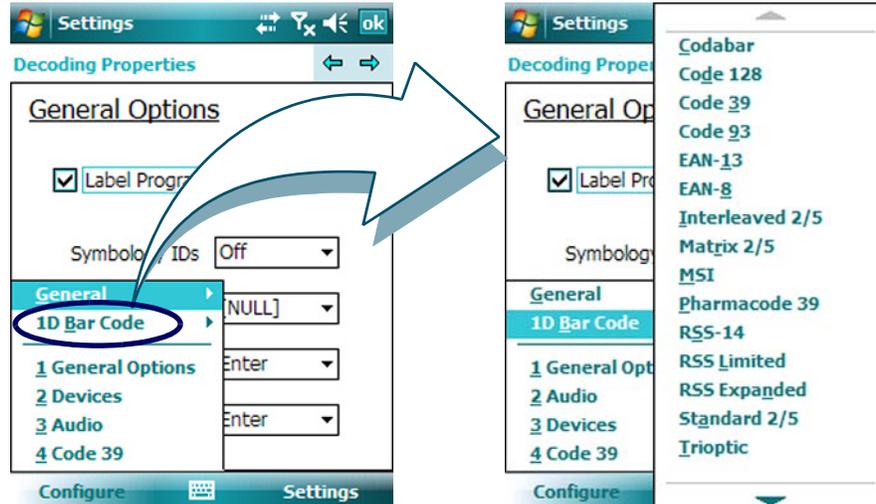
Select **Configure > General** from the menu to view other configuration options.

Each barcode symbology opens to its own page, as shown in Figure 8 on page 11. Refer to the sample symbology control panels for examples of the types of fields and options you can modify.

> **NOTE** Other decoding parameters are described in Programming Parameters, starting on page E-57; barcode settings are provided in Programming Barcodes, starting on page F-73.

Figure 8. Decoding Properties: Code 39
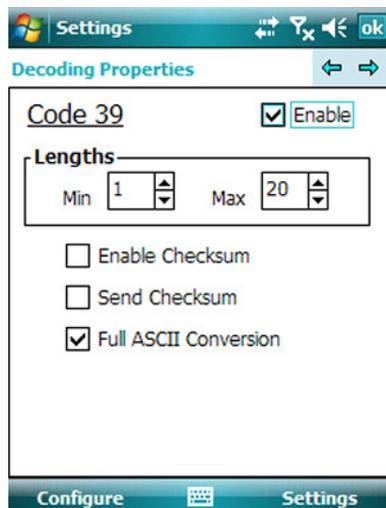
- **Code 39**: Select Enable, Min/Max Lengths, Enable Checksum, Send Checksum, Full ASCII Conversion, and Concatenate.

Decoding Settings

Select from the Decoding Properties **Settings** menu to restore previous configurations and/or other available default settings. Choose from:

- Factory Defaults
- Minimum Settings
- Maximum Settings
- Save (New Settings)
- Revert to Saved Settings

The settings are saved when you tap **OK**.
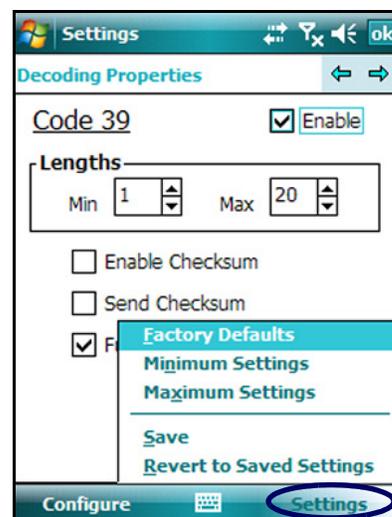
Device Info

Select ![icon] **> Settings > System > Device Info** to view the device serial number, model number, firmware version, and keyboard type.

The serial number is also displayed on a label inside the Battery compartment, as shown in Figure 9.

Figure 9. Serial Number Locations
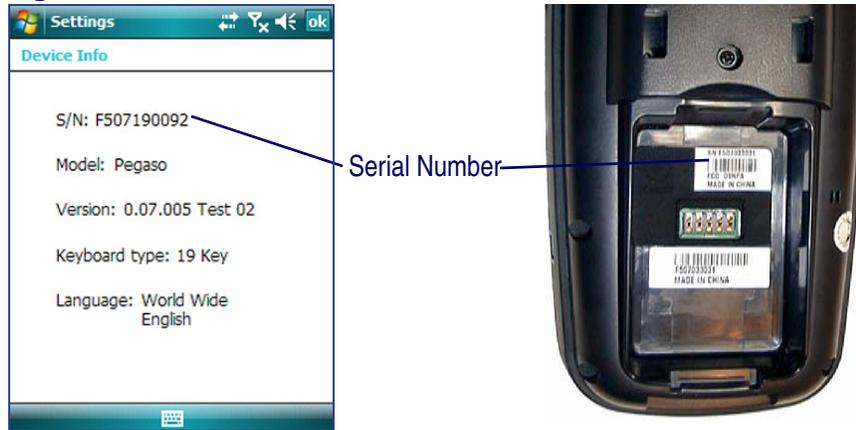
Falcon Config

Tap ⊞ > **Settings > System > Falcon Config** to access configuration utilities such as the Falcon Desktop Utility (FDU). See "Falcon® Desktop Utility", starting on page 41, for complete information.

Keyboard

1. Tap ⊞ > **Settings > System > Keyboard** to open the Keyboard control panel.

2. Adjust the slider for **Multi-Tap Timeout** to match your personal preferences. Use the box provided to test the timeout delay.

3. Click the **Load Map** tab to select a keyboard keymap by browsing, or click the button for Default Map. Use the box provided to test the current keyboard mapping.

Use the **Triggers** tab to define the behavior of each Trigger by selecting it from the drop-down box, then clicking the desired option. Available items will vary depending on the model.

1. Tap ⊞ > **Settings > System > Keyboard** to open the **Keyboard** control panel.

2. Adjust the slider for **Multi-Tap Timeout** according to your personal preferences.

3. Use the box provided to test the timeout delay.

4. Tap **OK** to exit the **Keyboard** control panel.
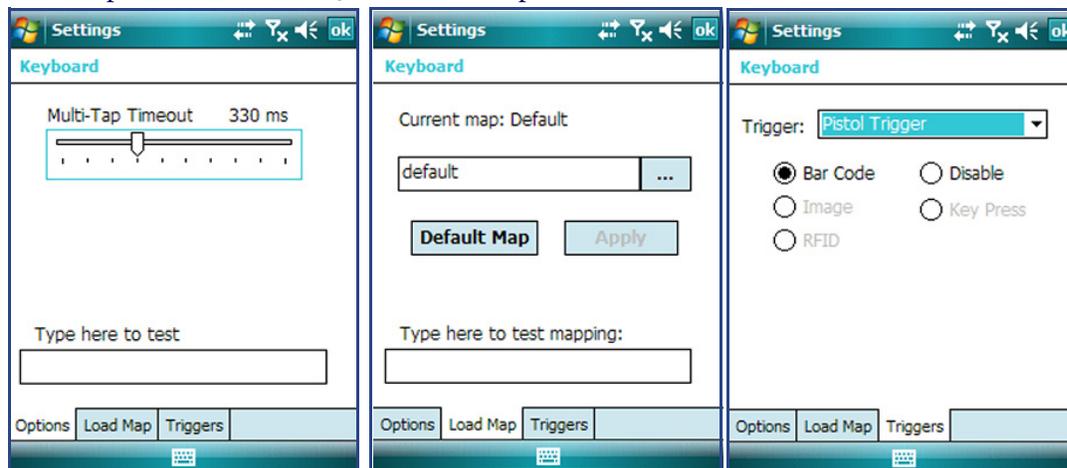
Power

Tap 🪟 **> Settings > System > Power** to adjust power management settings. Use this control panel to check the charge on the battery or to change the **Power** settings.

Battery Tab

The **Battery** tab provides power indicators for **Main battery** and **Backup battery** as shown in Figure 10. Save your settings by tapping **OK**, or press **<ENTER>** on the keypad.

Advanced Tab

You can determine the idle duration and suspend mode initiation to save battery power using the **Advanced** tab, as shown in Figure 10. Save your settings by tapping **OK**, or press **<ENTER>** on the keypad.

Figure 10. Power Tabs
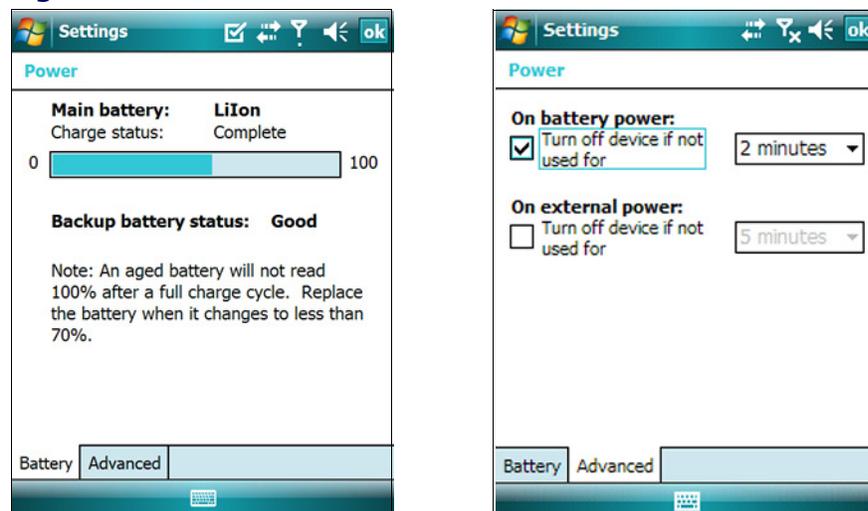
Connections

In the Connections screen you can view or change Internet, intranet and network settings. See the help system on your device for more information.

Bluetooth Manager

> **NOTE** The Bluetooth Device Properties icon will only be visible if Bluetooth hardware has been installed on the unit.

Search for device

1. Tap 🗗 > **Settings > Connections > Bluetooth Manager** to open the Bluetooth control panel.

2. Search for the type of Device(s) you want to connect to by tapping **Printer, Serial, or All.** The Pegaso will search for Bluetooth Devices within range.

3. If you attempt to set up a connection when the Bluetooth Radio is disabled, you will receive a message reminding you that the radio is turned off, and asking you if you want to turn it on. Tap **Yes** if you need to enable the Bluetooth Radio.

Once searching is complete, Bluetooth Device Profiles will be displayed in the Discovery tab. You can set up a connection to a device on the list, or clear it from the list by tapping the **Clear** button.

Figure 11. Searching for a Bluetooth Device
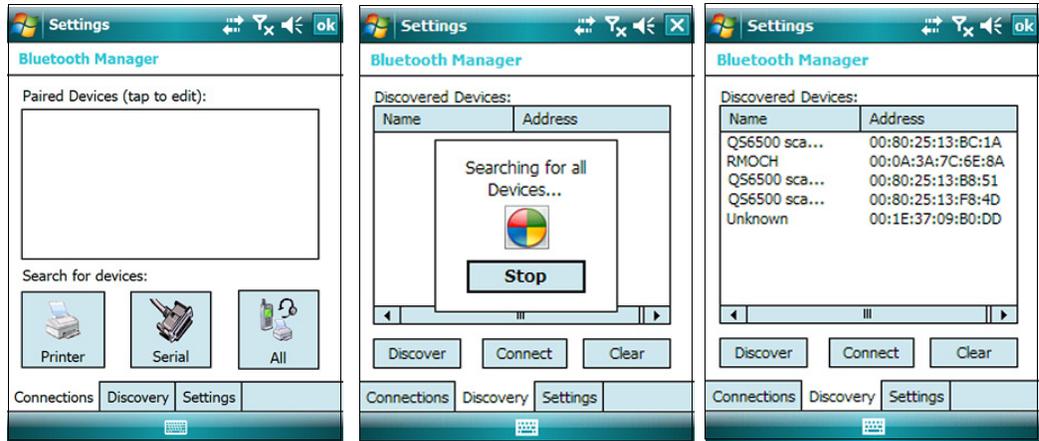
Connect to a Bluetooth Device

1. From the list of available devices, double tap the one you want to activate, or select and then tap **Connect**.

2. The resulting dialog will display services that are available on the device.
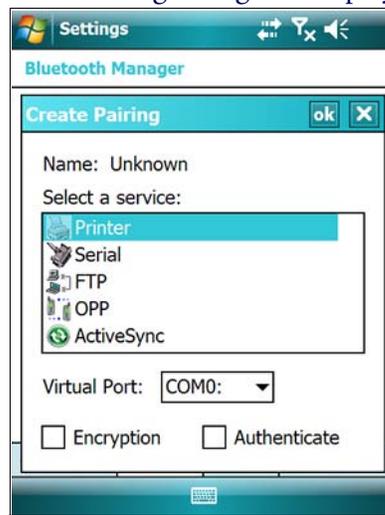
Select the service you want to connect to. The following table shows the icons that display for different types of service.

Table 1. Bluetooth Device Icons

Icon	Service
	Dialup Networking
	Printer
	File Transfer Protocol (FTP) Object Exchange (OBEX)

Icon	Service
	Object Push (OPP) Object Exchange (OBEX)
	ActiveSync
	Human Interface Device (HID) - Keyboard
	Serial

Virtual Port allows you to specify the incoming port, which is used to communicate serially with an incoming device just as if it were a physical COM port. This option is available only if you have selected a Printer or Serial service.

You can also select **Encrypt** or **Authenticate** from the Bluetooth control panel to apply or modify those settings.

1. To require Authentication, tap the checkbox, then tap **OK**.

2. The Authentication Request dialog will then open, requesting that you enter a PIN. Use the Input Panel to type in the PIN.

3. Tap **OK** to complete.

The dialog will also appear when an Authentication request is received from another device.
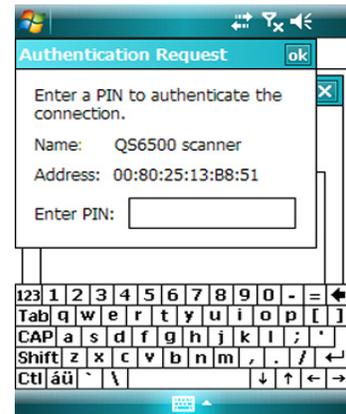
Viewing or Deleting Paired Devices

Once you have set up a Pairing, you can view the settings by double-tapping its name from the Connections tab. Tap the arrow to change the Virtual Port, or Delete to remove the device pairing. Tap Sync to initiate a Sync (available only if the service is an ActiveSync connection).

Figure 12. Bluetooth Pairing Info
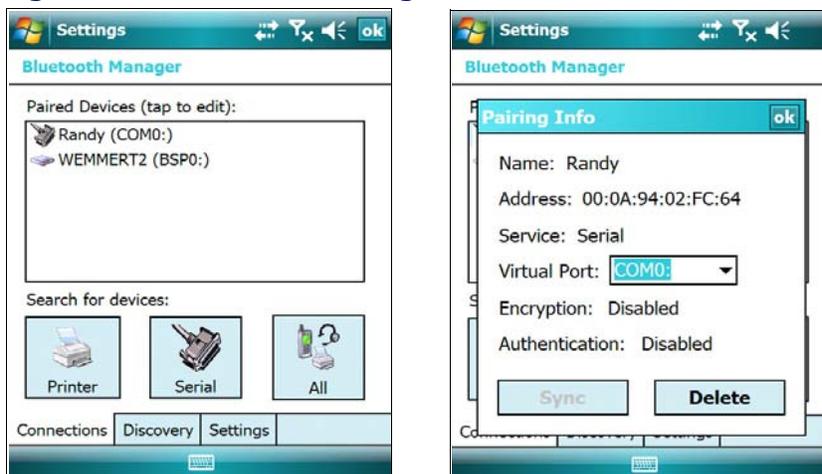
Settings

The **Settings** tab allows you to enable or disable the Bluetooth radio and specify settings for Incoming Connections.

Tapping **Find Me** will make the Pegaso visible to other Bluetooth devices for 60 seconds, allowing them to set up a connection.
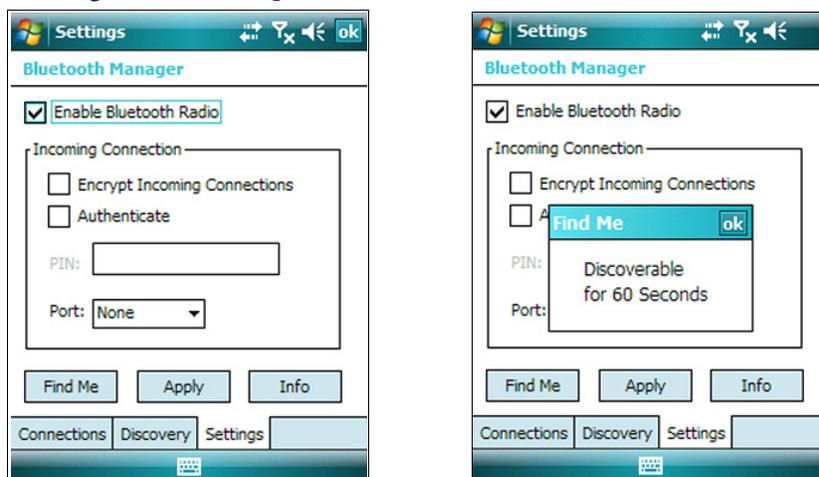
Tap **Apply** to apply the settings you have selected.

Wi-FI

Using the Summit Client Utility

The Summit Client Utility (SCU) is an application designed for end users and administrators of mobile devices that use a Summit radio module. For further information beyond the scope of this manual, you can download the complete Summit User's Guide from www.summitdatacom.com.

Reference the QRG for details about the basic functions of this utility. After completing an administrator login to the utility, you can perform these additional tasks:

- Create, rename, edit, and delete profiles

- Alter global settings, which apply to every profile

SCU provides a graphical user interface (GUI) for access to all of its functions. Access to these functions also is available through an application programming interface (API), which an application programmer can use to enable another utility to manage the radio.

To initialize SCU:

1. Go to 🏁 > **Settings** > **Connections.**

2. Tap on the **Wi-fi** icon.

SCU Tabs

SCU has five tabs: Main, Profile, Status, Diags (Troubleshooting), and Global Settings. Tabs enable easy navigation. Each tab is described in more detail in this section.

Main Tab

Reference Figure 13 on page 18 to view the features of the Main Tab.

- **Enable/Disable Radio:** Select or deselect to enable or disable the radio.
- **Active Profile:** Displays the name of the active configuration profile. An administrator can use the selection list to select a different profile.
- **Association Status:** Indicates if the radio is associated to an access point and, if not, what the radio's status is.

Figure 13. Main tab
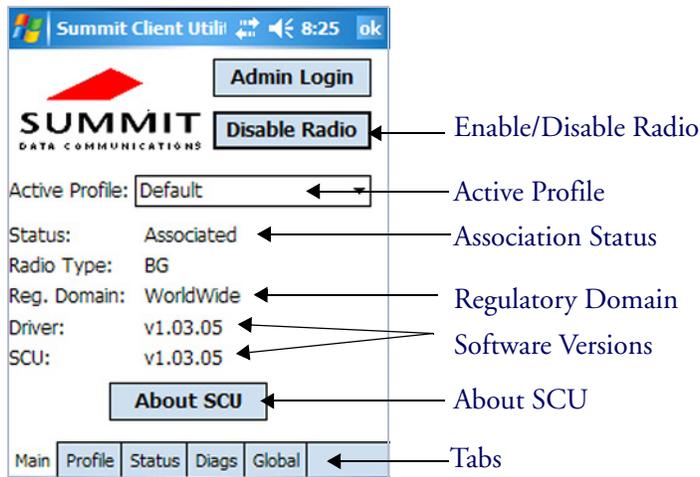
- **Regulatory Domain:** Indicates the regulatory domain or domains for which the radio is configured. "Worldwide" means that the radio can be used in any domain. The domain cannot be configured by an administrator or user.
- **Software Versions:** Indicates the version of the device driver and the version of SCU that are running on the device.
- **About SCU:** Supplies information on SCU.

Profile Tab

Profile settings are radio and security settings that are stored in the registry as part of a configuration profile. When a profile is selected, its settings become active. An administrator can define, edit, or delete up to 20 profiles in the Profile tab in SCU. Profile changes made are saved only when the **Commit** button is pressed.

Figure 14 on page 19 is an example of a Profile tab. Here are the highlights:

- **Profile:** Use to select the profile to be viewed or edited. If "ThirdPartyConfig" is selected then, after the device goes through a power cycle, WZC is used for configuration of the radio.

- **Actions:** Four actions are available to an administrator:
    - Rename: Give the profile a new name, one that is not assigned to another profile
    - Delete: Delete the profile, provided that it is not the active profile
    - New: Create a new profile with default settings and give it a name (and then change settings using other selections on the tab)
    - Commit: Ensure that changes to profile settings made on the tab are saved in the profile

Figure 14. Profile tab
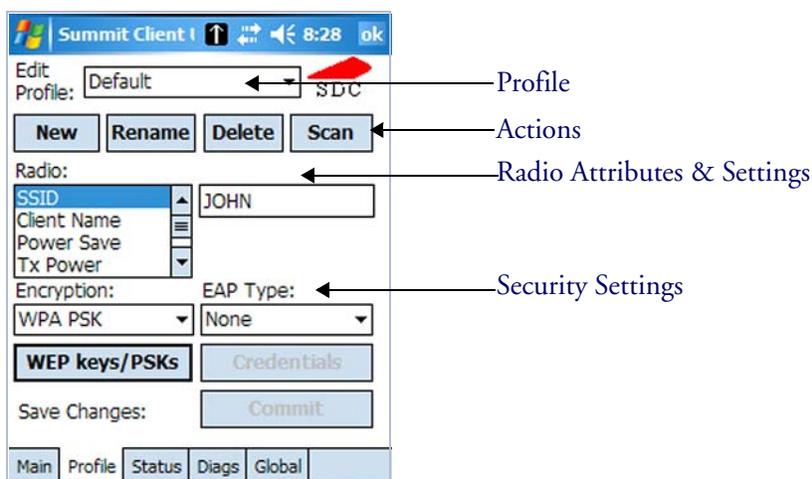
3. **Radio attribute and setting:** Attributes in the list box can be selected individually. When an attribute is selected, the current setting or an appropriate selection box with the current setting highlighted appears on the right. For example, selecting SSID causes an edit box to appear; selecting transmit power causes SCU to display a drop-down list box with available settings.

4. **Security settings:** The items at the bottom of the tab enable the administrator to configure the settings for EAP Type (used for 802.1X authentication) and Encryption.

To connect a Summit radio to a typical business WLAN, you must select a profile that specifies the SSID, EAP type, and encryption type supported by the WLAN:

- SSID: The name or identification of the WLAN.

- **EAP type:** The protocol used to authenticate the device and its user if the WLAN uses the Enterprise version of Wi-Fi Protected Access (WPA) and WPA2. SCU supports four EAP types: PEAP with EAP-MSCHAP (PEAP-MSCHAP), PEAP with EAP-GTC (PEAP-GTC), LEAP, and EAP-FAST

- **Encryption:** Specifies the type of key used to encrypt and decrypt transmitted data and how that key is specified or derived. Encryption options include:
  - WPA2 or WPA with dynamic keys (derived from the EAP authentication process)
  - WPA2 or WPA with pre-shared keys
  - Static WEP keys

Consult the Summit User's Guide for details on all profile settings, including security settings.

Status Tab

The Status tab shown in Figure 15 on page 20 provides status information on the radio. Status items include IP address and MAC address for the client radio, IP address and MAC address for the AP, signal strength, channel, transmit power, and data rate. A sample Status tab is shown in Figure 15 on page 20.

- **Client info:** Name of active profile, client name, client IP address, and client MAC address

- **AP info:** AP name, AP IP address, and AP MAC address

- **Connection info:** Channel, transmit power, and bit rate

One status item, the radio association state, is shown on both the Status tab and the Main tab. Potential values are: Down (not recognized), Not Associated, Associated, or [EAP type] Authenticated.

Figure 15. Status tab
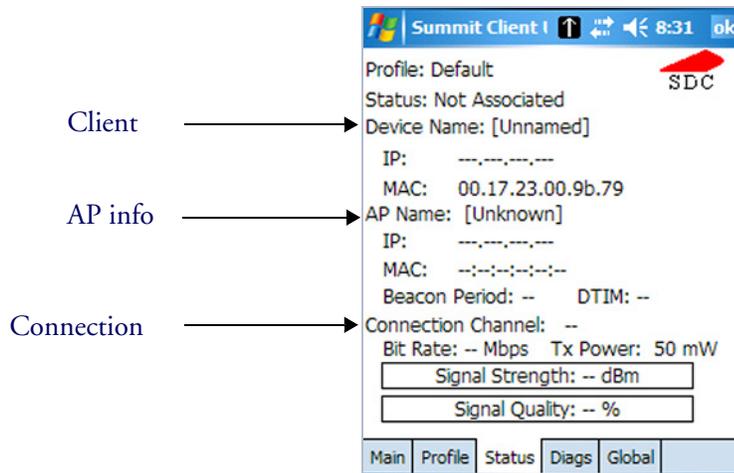
Diags Tab

A sample Diags, or troubleshooting, tab is shown in Figure 16 on page 21.

Figure 16. Diags tab, with ping active
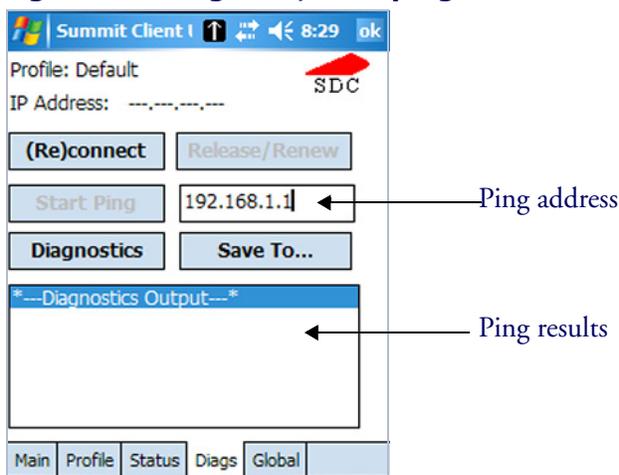
Here are the functions available on the Diags tab:

- **(Re)connect:** Disable and enable the radio, apply or reapply the current profile, and attempt to associate and authenticate to the wireless LAN, logging all activity in the output area at the bottom.

- **Release/Renew:** Obtain a new IP address through DHCP release/renew, and log all activity in the output area at the bottom.

- **Start Ping:** Start a continuous ping to the address in the edit box next to it. Once the button is clicked, its name and function will change to Stop Ping. Leaving the Diags tab also will stop the ping, as will pressing any other button on the screen.

- **Diagnostics:** Attempt to (re)connect to an AP, and provide a more thorough dump of data than is obtained with (Re)connect. The dump will include radio state, profile settings, global settings, and a BSSID list of APs in the area.

Global Settings Tab

Global settings include:

- Radio and security settings that apply to all profiles

- Settings that apply to SCU itself

An administrator can define and change most global settings on the Global Settings tab in SCU. Figure 17 shows a sample Global Settings tab.

Figure 17. Global Settings tab
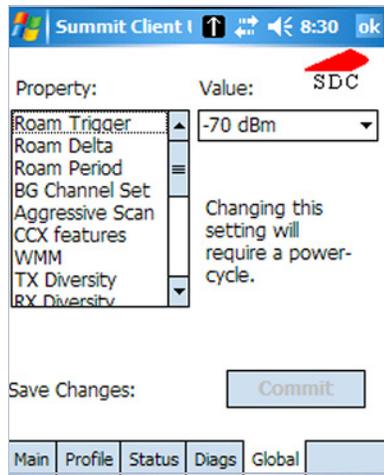
The default setting for each global setting ensures reliable operation in most environ-ments. Consult the User's Guide for details on all global settings.

Chapter 3

Software Programs

Overview

Firmware Update Utility:

Programs

The Pegaso comes with a number of factory-installed programs. To open them, tap ![icon] **> Programs** to open the Programs screen, then tap the icon for the program you wish to open. The programs available to you may vary, depending on your initial configuration.

See the Microsoft help on your device for further information about Microsoft programs.

Figure 18. Programs screen

Installing Programs

In order to install a program, your Pegaso must be connected to a PC. See the *Pegaso with Windows Mobile QRG* for instructions on getting connected. Then, follow the installation instructions for the program you want to install. Once the software is installed on your desktop computer, the installer will transfer the software to your PDA.

Firmware Update Utility

The Pegaso is equipped with a field-upgradeable firmware mechanism. Firmware updates for the PDA can be found on the Datalogic Mobile website (www.mobile.data-logic.com). After you have downloaded the desired update to your PC, use the Firmware Update Utility (FUU), described below, to install or update the firmware using an ActiveSync connection. Refer to the help system on your device for more information.

The following sections provide procedures for the retrieval and installation of the most current firmware image onto a Pegaso.

Retrieving a Firmware Image Update

The following instructions use Internet Explorer to retrieve the most current firmware image.

1. Launch Internet Explorer on your PC and go to the Datalogic Mobile website.

2. Navigate to the **Downloads** section of the website.

3. Select the file you want to download, then click **Save** to start copying the files to your local machine (or local network location).

Installing FUU on the Host PC

The Firmware Update Utility (FUU) provides administrators with a field upgrade mechanism. You must have Microsoft® ActiveSync already loaded and running on the host PC to use FUU. Refer to the help system on your device for more information about ActiveSync.

> **NOTE** Prior to installing FUU, you must remove any previous versions of FUU installed on the host PC.

Install Datalogic's Falcon® Firmware Update Utility on your PC by completing the following steps:

1. Insert the CD ROM shipped with your Pegaso and click on the link to **Firmware Update Utility**.

   OR
   Go to the Datalogic website and download the most current version of the Firmware Update Utility. Unzip the file, then double-click to run `FUU_Setup.exe`.

2. Follow the instructions on the screen to complete the installation of FUU.

Updating the Pegaso Firmware

> **NOTE** Performing a Firmware update will automatically initiate a Clean Boot sequence. All settings and files will be lost after the update.

After copying the update package (*`.wmg` file) to the host PC (see "Retrieving a Firmware Image Update" on page 24) and installing **FUU** ("Installing FUU on the Host PC" on page 25), you can upgrade the firmware on your PDA.

> **NOTE** The following steps require that you have already established an ActiveSync connection between the host computer and the Pegaso. For information on establishing an ActiveSync connection with the PDA, refer to the help system on your device.

1. On the PC, click **Start > All Programs > Firmware Update Utility**.

2. Verify that ActiveSync is selected from the **Communicate Using** drop-down list.

3. Browse (**...**) to the location where you saved the firmware file for your terminal.
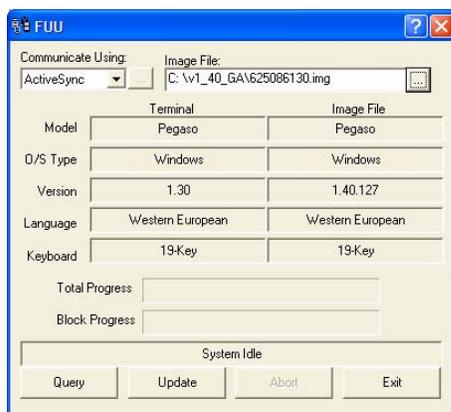
4. Select the current *.**wmg** file and click the **Open** button.

5. Verify that the Pegaso is turned on. Insert the device into a powered dock connected to the host computer.

6. Click **Update** on the **FUU** utility on the host PC.

7. **FUU** will compare the selected firmware image with the firmware already loaded on the Pegaso; if the images are different, **FUU** will proceed to update the firmware image on your PDA.

> **NOTE** **Please be patient and do not remove the Pegaso from the Dock until the procedure is complete. The firmware image can take as long as:**
> - 3 minutes to download using a USB connection.
> - 22 minutes to download using a serial connection with 115K baud rate.
> - 130 minutes to download using a serial connection with 19.2K baud rate.

8. After the firmware of your Pegaso has been updated, the Pegaso will prompt you for input. Follow the on-screen instructions.

Appendix A
Accessories

Overview

This appendix covers the following topics:

> **NOTE**   **Contact your Datalogic reseller for accessories and supplies for the Pegaso; go to the Datalogic website for the most current information.**

Power Supplies

Powered USB Cable & Power Supply

> **NOTE** Use only the correct battery chargers and docks with this Windows Pegaso. The technology used for these models is incompatible with other Datalogic chargers and docks.

Figure 19. Power Supply and Powered USB Cable

Battery Pack

The Battery Pack and the Battery Door are integrated and are not sold separately. The Pegaso is available with either a standard or high-capacity battery.

To remove the Battery Pack on the Pegaso, complete the following steps:

1. While pushing the Battery Latch (shown in Figure 20), lift out the Battery Pack, top first.

2. To replace, seat the bottom end first, then click the Battery Pack into place.

Figure 20. Battery Pack
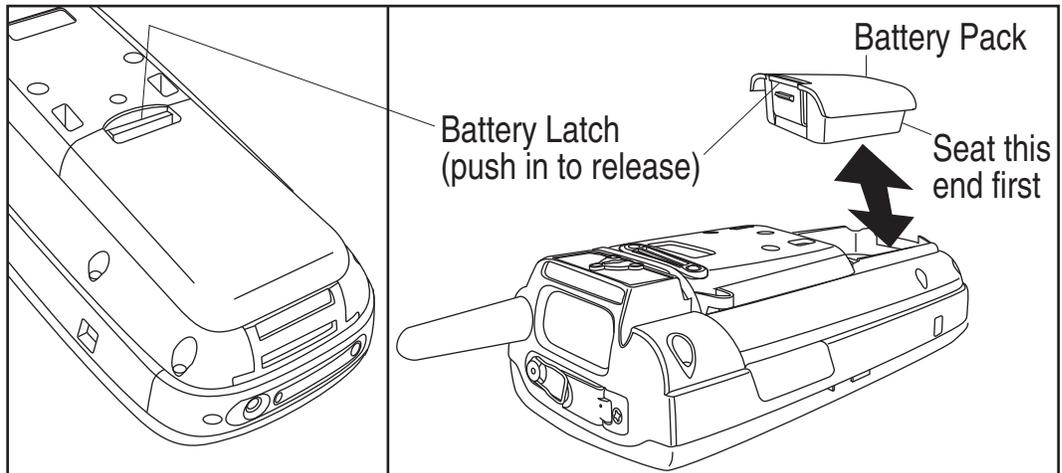
Single Slot Dock

Figure 21. **Single Slot Dock**

Four-Slot Charge Dock

The Four-Slot Charging Dock provides the ability to charge up to four Pegasos and four spare batteries simultaneously.

Figure 22. Four-Slot Charge Dock

Four-Slot Ethernet Dock

Like the Four-Slot Charging Dock, the Four-Slot Ethernet Dock provides the ability to charge four Pegaso and four spare batteries simultaneously. In addition, the built-in Ethernet hub gives all the docks a unique Ethernet address accessible through one physical 802.3 CAT5 connection. See "Ethernet Module" on page A-34 for more information on setting up an Ethernet connection.

Use when you want to connect to an Ethernet network, or for batch units to synchronize without the need for wireless technology.

There are two LEDs; one for 10/100 Mbps link and the other for Tx/Rx.

Figure 23. Four-Slot Ethernet Dock

Four-Slot Battery Charger

Charge up to four spare battery packs simultaneously with the Four-Slot Battery Charger.

Figure 24. Four-Slot Battery Charger

LEDs
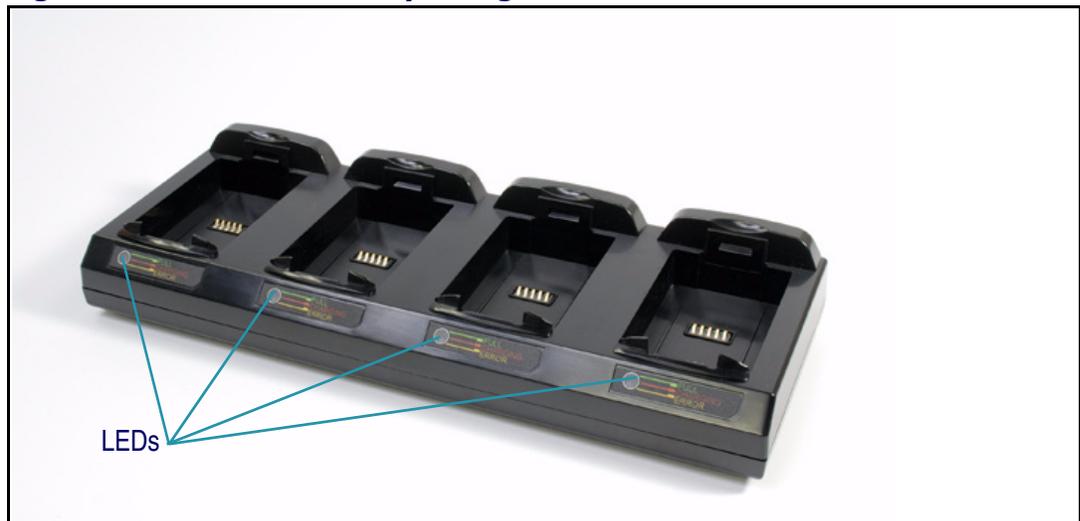
Car Charging Adapter

A Car Charging Adapter is available for the Pegaso. To attach, just plug the adapter into the connector on the bottom of the unit, and tighten the thumb screws to secure it.

Figure 25. Car Charging Adapter

Powered Mobile Dock

The Pegaso Powered Mobile Dock (PMD) is a rugged cradle for Pegaso PDAs, used to install on mobile applications such as forklifts.

Power-On Indicator

Release Button

Features include a power on indicator, holder for the Pegaso PDA, battery charging for the Pegaso, versatile mounting options, serial port connection for peripherals (with power available), and a USB mini AB OTG port available for peripherals.

For ordering information, go to the Datalogic Mobile website or your reseller. Reference the Powered Mobile Dock Installation Guide for further information on installation and use of the Powered Mobile Dock.

Modem Module

An optional Modem Module allows you to use the Pegaso to dial a server in a remote office.

Features:

- V.92/56K data rate backward compatible with lower speeds
- V.44 and V.42 bits data compression
- V.42 error correction
- AT command compatible
- U. S. Caller ID reporting
- FastPOS (V.29) and V.22vis Fast Connect
- V.80 Synchronous Access
- Built-in speaker
- Easy to use

To connect:

1. Remove the Pegaso from the dock and detach power from the dock.

2. Plug the modem module into the dock, and then plug the phone cable into modem.

3. Replace the Pegaso into the dock and restore power.

4. Select **Start > Settings > Network and Dial-up Connections** to open dial-up networking.

5. Tap **Make New Connection** to create a new connection.

6. Type a name for the connection, and tap the radio button to select **Direct Connection**. Tap **Next**.

7. Select **Hayes Compatible Modem on Com1** as the device.
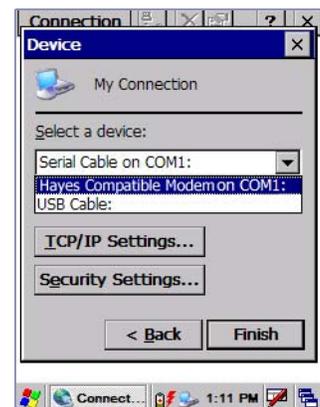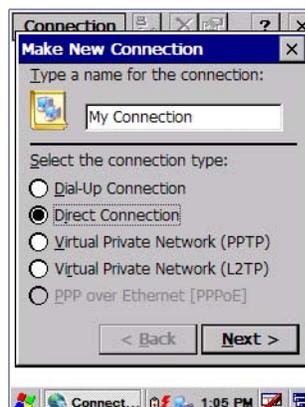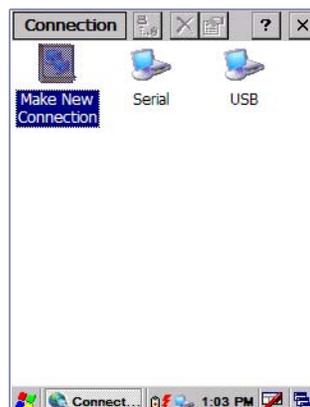
8.   Click on TCP/IP Settings and Security Settings and fill in as needed to connect to the remote server. Check with your network administrator for settings. Tap **Finish** when complete.

9.   Double tap the newly named connection.

10. Fill in the necessary username, password, and domain.

11. Tap **Connect** to continue.

A PPP connection has now been created. TCP/IP network communications can commence.

Ethernet Module

The optional Ethernet Module allows the Pegaso to connect to an Ethernet network. There are two LEDs; one for 10/100 Mbps link and the other for Tx/Rx. The communications rate is 10/100Mbps – Auto-negotiate.

To Connect:

1.   Remove the Pegaso from the Dock, and unplug the power from the Dock.

2.   Plug the ethernet module into the Dock, then plug a CAT5 cable into the Ethernet module.

3.   Replace the Pegaso into the Dock, and restore power to the Dock.

A network icon will be displayed in the system tray. All normal network activities can now take place.

Handstrap

NOTE   **It is not necessary to remove the Handstrap to install the Handle or the Belt Clip.**

Removing the Handstrap

An elastic Handstrap is included with the Pegaso. To remove the Handstrap, complete the following steps. Reference Figure 26 while performing these actions.

1.   Grasp the lower handstrap attachment and pull to slide out from the unit.

2.   Using a Phillips screwdriver, remove the two screws securing the upper handstrap attachment to the unit.

Figure 26. Removing/Replacing the Handstrap
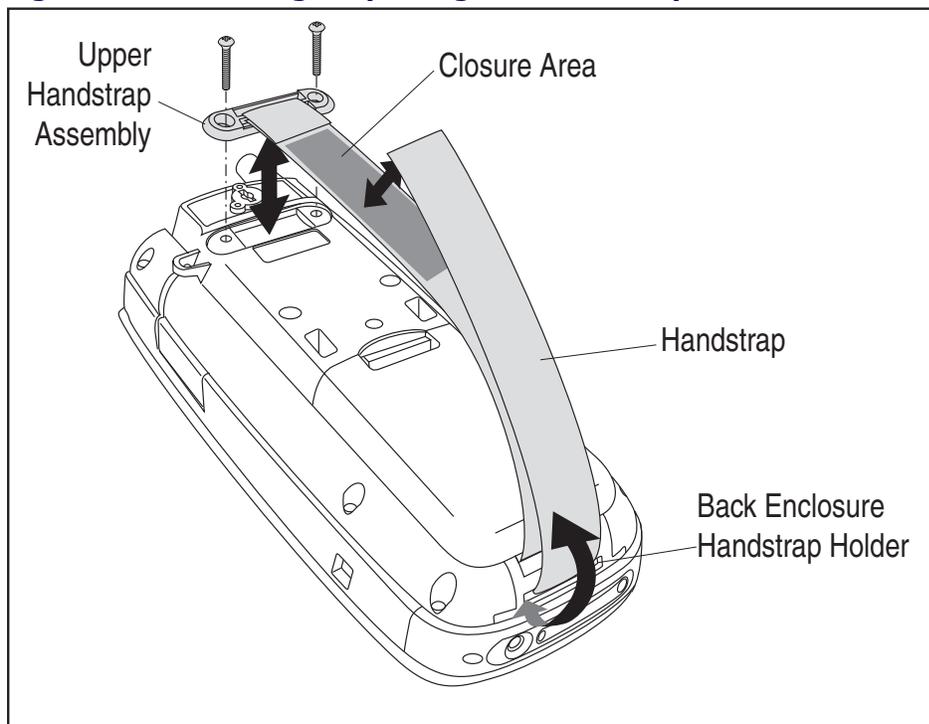
Installing the Handstrap

To install a Handstrap on the Pegaso, follow the steps described below.

1. Feed the strap end of the handstrap down through the Back Enclosure Handstrap Holder slot as shown in Figure 26 and loop it up to engage the closure area at the desired position.

2. Attach the Upper Handstrap Assembly to the unit using the two Phillips screws.

Handle

The Pegaso is available with an attachable handle which provides an additional trigger for scanning. When you remove the handle, you lose the ability to press the trigger on the handle and must use the **<Scan>** key on the keypad or Scan triggers on the Pegaso instead.

To install a handle, refer to the following sections. Reverse the instructions to remove the handle.

NOTE **The Handstrap can be left on when installing the Handle.**

Installing a Handle on the Pegaso

The handle may be installed without removing the handstrap. To install the handle on the Pegaso, complete the following steps:

1. Align the "ears" on the handle with the corresponding holes on the underside of the Pegaso and slide them into place.

2. Seat the top of the Handle against the Pegaso and turn the quarter-turn fastener to secure the Handle to the unit.
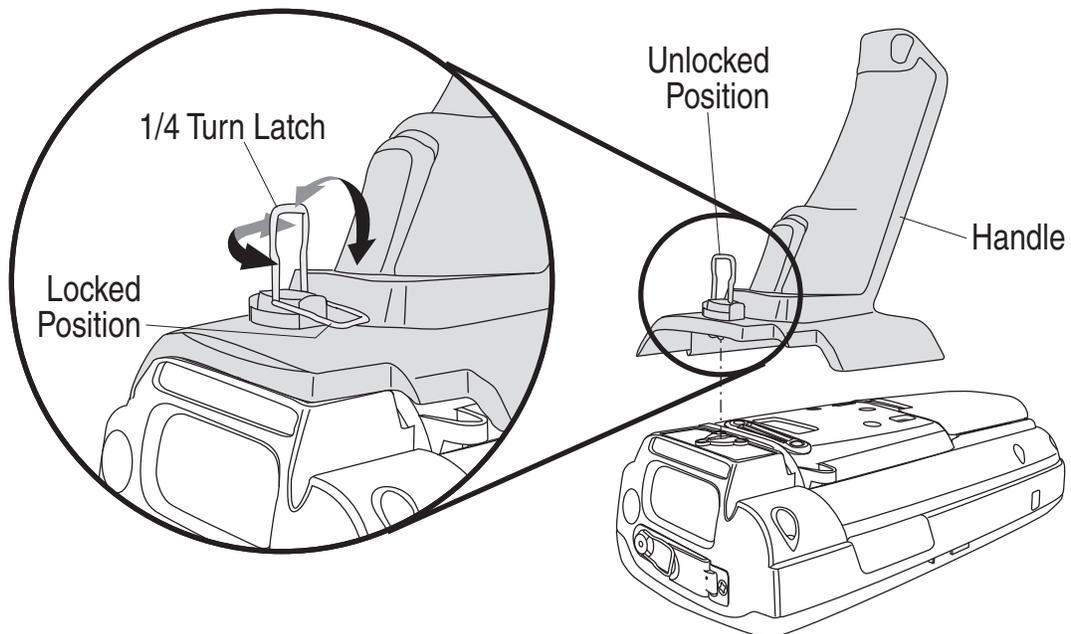
The trigger is automatically activated and available. Press to initiate scanning

Belt Clip

NOTE   **The Handstrap can be left on when installing the Belt Clip.**

The Belt Clip comes with two separate pieces: one that attaches to the Pegaso, and one that attaches to your belt.

To install the Belt Clip on the unit, complete the following steps:

1. Turn the Pegaso face-down and ensure that power is off.

2. Orient the Belt Clip on the underside of the Pegaso.

3. Align the "ears" on the inside of the Belt Clip with the corresponding holes on the underside of the Pegaso and slide them into place.

Ears
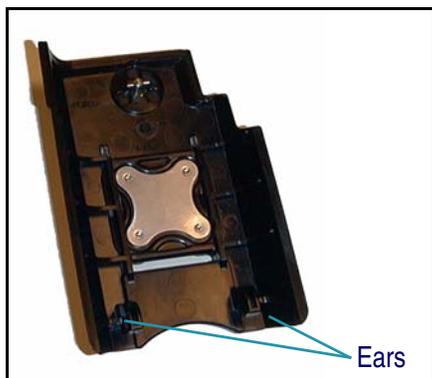
4. Push the top of the Belt Clip against the Pegaso and turn the quarter-turn fastener to secure it.

Figure 27. Installing the Belt Clip
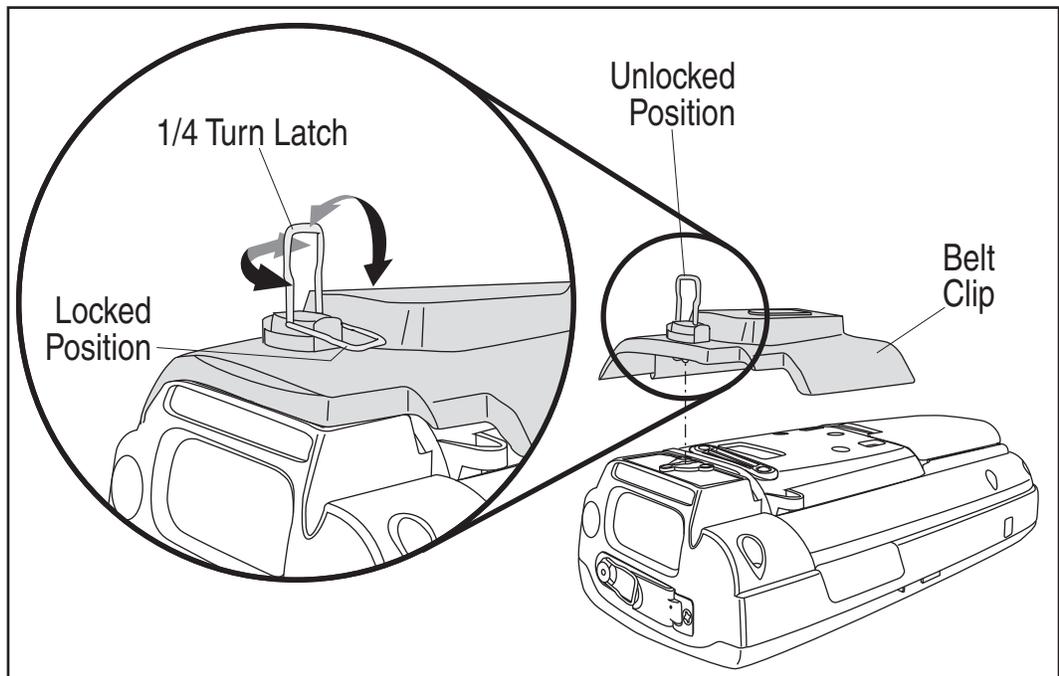
Attaching to a Belt

To attach the Pegaso to a belt, snap the Belt Attachment onto your Belt. Slide the Pegaso onto the Belt Attachment sideways, then rotate to an upright position to secure it into place, as shown in Figure 28.

Figure 28. Attaching to a Belt
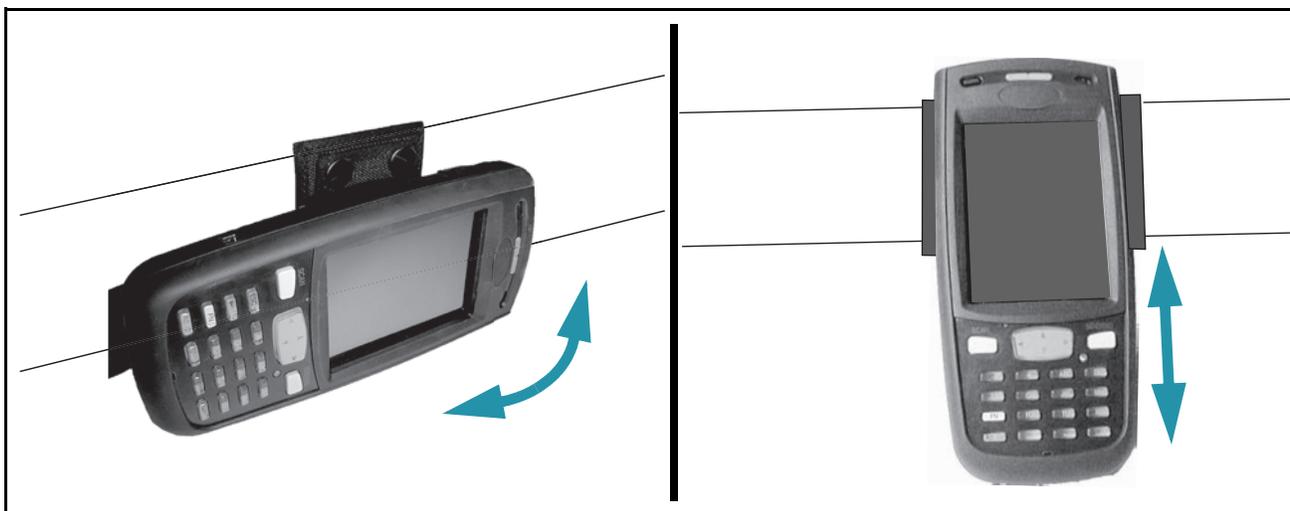
Screen Protector

A Screen Protector is available for the Pegaso. Use the following instructions to attach a Screen Protector.

> **You may find it helpful to have the unit firmly seated in its dock while performing these procedures. Another useful tip is to have a credit card handy to assist in smoothing the Screen Protector in place.**

1. Gently but thoroughly clean the touchscreen using a lens cloth or other soft, lint-free cloth. If necessary, dampen the cloth with a mild cleaning solution, such as liquid hand soap and water. Thoroughly dry the area after cleaning, and ensure it is lint-free.
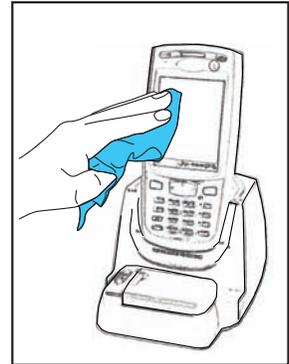
> **CAUTION**
>
> **Never use corrosive or abrasive cleaners or cloths on the Pegaso.**

2. Remove the Screen Protector from its packaging and, while holding it by the edges, pull the tab to begin peeling the backing from about one inch of the adhesive side. Fold the backing down as you go.
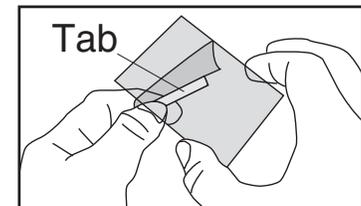
> **CAUTION**
>
> **DO NOT touch the adhesive area, as this could leave a fingerprint when installed.**

3. Orient the Screen Protector with its adhesive side towards the screen and CARE-FULLY align its top edge and corners with the screen recess, as shown in Figure 29A. If alignment is not perfect, gently lift up and start again.

4. Continue to peel the backing while slowly seating the protector in place. Use a credit card (if available) or similar soft-edged object to evenly smooth the Screen Protector and push out any bubbles between the surfaces. Reference Figure 29B.

Figure 29. Applying a Screen Protector to the Pegaso

A B

Appendix B
Falcon® Desktop Utility

Overview

Falcon® Desktop Utility (FDU) allows Datalogic Pegaso™ Windows® administrators to configure Pegaso Windows® devices to control individual user access. This includes:

- Prevent users from changing Pegaso OS settings.
- Define keys to access specific functionality/programs.
- Use Application Selector to replace desktop with a selection of authorized applications.
- Internet Explorer access restriction, configuration and customized recovery mechanisms.

This section covers the following information:

Falcon Desktop Utility

Using FDU

1. Open the **FDU** by tapping ![icon] **> Settings > System > Falcon Config**.

Figure 30. Accessing FDU
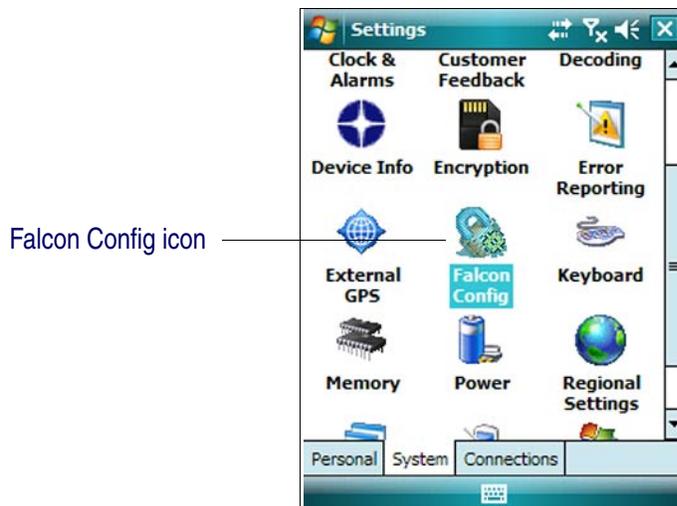
Falcon Config icon

2. By default, FDU has a password set. Enter "1234" (without quotation marks) to continue.
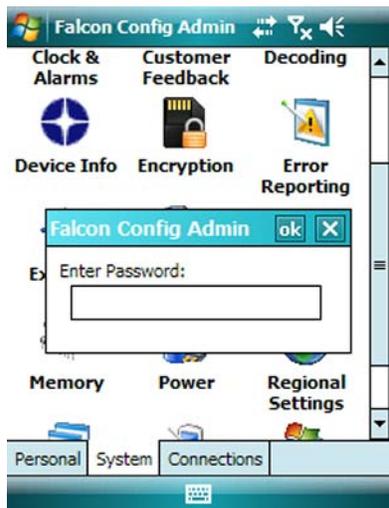
Administrative Options (Admin Tab)

Tap ![icon] **> Settings > System > Falcon Config** to open the Administrative Options control panel.

Figure 31. Setting a Password/Admin Tab Fields
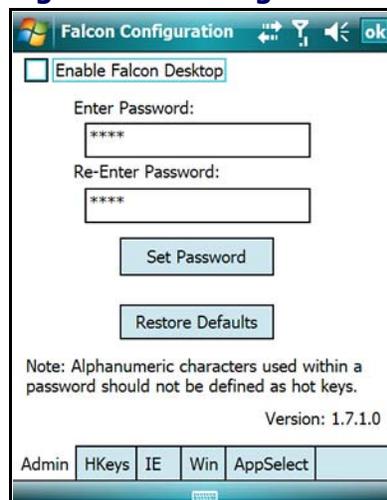
Table 2. Setting a Password/ Admin Tab Fields

Command	Description
Enable Falcon Desktop	Tap this checkbox to activate the **FDU** functions such as Hot Key assignments, IE Restrictions, Windows Settings, and the authorized application menu.
Enter Password	Enter a password in the text box. This allows the user to specify a password when this utility is launched. By default there is no password. A password can consist of all standard keyboard characters.
Re-Enter Password	Carefully re-enter the password in the second text box.
Set Password	Tap the **Set Password** button to enable the password.
Restore Defaults	Tap the **Restore Defaults** button to reset the default values of all the functions on all the tabs. After you select this option, you will receive a prompt to verify this selection.

> **NOTE** **Alphanumeric characters used within a password should not be defined as Hot Keys.**

Setting a Password

Set a password as follows:

1. Enter a password in the field. This allows the user to specify a password when this utility is launched. By default there is no password set.

NOTE **Be sure to record the Password for future reference.**

2. Re-enter the password in the second field.

3. Tap **Set Password** to enable the password.

4. Tap **OK** close **Set Password Confirmation**.

NOTE **You must tap Set Password prior to exiting FDU in order to store and activate your new password. It is not necessary to select Enable Falcon Desktop.**

If you tap Restore Defaults all custom settings will be removed and restored to the factory default settings, except a previously set password.

CAUTION

Changing a Password

Change to a new password by completing the steps below:

1. Enter a new value in the **Enter Password** field.

2. Re-enter the new value in the **Re-enter Password** field.

3. Tap **Set Password**.

Removing a Password

Remove a password by completing the steps below:

1. Enter blanks in both **Password** fields.

2. Tap **Set Password**.

Password Request Dialog Box

Once the password is set, the next time you open the **Falcon Desktop Utility**, the **FDU Password** dialog box opens.

This dialog box will only open if a password was defined.

Figure 32. Enter Password

Complete the **Falcon Config Admin** dialog:

1. Enter your password using either the keypad on the unit, or using the stylus on the on-screen keyboard.
   If you enter an incorrect password, the system will prompt you to input the correct one.

2. Tap **OK** to verify the password.

Setting Hot Keys

You can use the **Hot Keys (HKeys)** tab to associate specific keys, such as **<F1>-<F10>,** with specific applications. You can also create new **Hot Key** combinations (see "Adding a New Hot Key" on page 46). Select the **HKeys** tab to access these options.

For example, you could set **<F2>** to launch a sample application like:

\Windows\pword.exe.

Figure 33. Hot Keys Tab
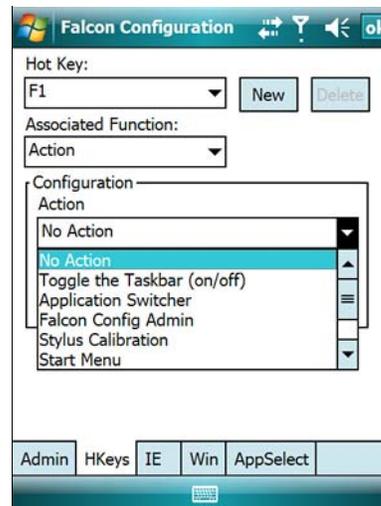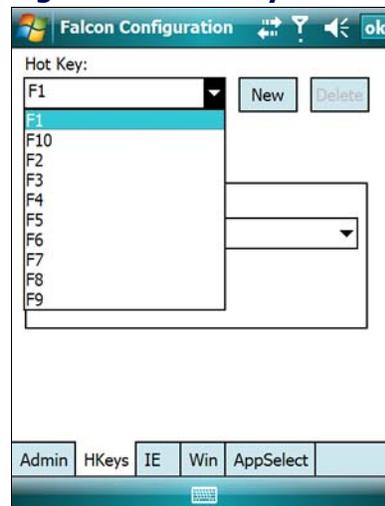
Table 3. Hot Keys Tab

Command	Description
Hot Key	This drop-down list displays the available function keys to define. Select the desired one from the list.
New	Tap to specify a new Hot Key, not on the **Hot Key** list. This opens a new dialog, shown on page B-46.
Delete	Tap to delete the selected **Hot Key**. You can only delete the Hot Keys you have added. You cannot delete **<F1> -<F10>**.
Associated Function	This drop-down list displays the available functions. Select either `Application` or `Action`.
Action	Specify an action to associate with a **Hot Key**. This list includes: Toggle Taskbar, FDU Admin, and Application Switcher. This option is only available when **Action** is selected in the **Associated Function** drop-down list.

If you wish to assign this key to a different function, you must first select an unassigned Hot Key and assign it to the Action - FDU Admin. You can then go back and reassign the **FKey** to something else.

Table 4. Pegaso Hot Keys Available

Pegaso
19-key models
Numeric
F1-F10
Alpha keys
Side/top triggers

NOTE The administrator is responsible for verifying that these keys don't override existing functions. To prevent FDU Hot Keys from overriding existing application keys, select "No Action" in the Action combo box.

Adding a New Hot Key

When you select **New** on the **HKeys** tab, this opens the **Add New Hot Key** dialog box.

Complete the following steps to define a new **Hot Key**:

1. Enter the key combination to define a new Hot Key in the **Enter Key** textbox.

2. The **Note** displays important information indicating Hot Keys that should not be used.

Figure 34. Add a New Hot Key Dialog

Note
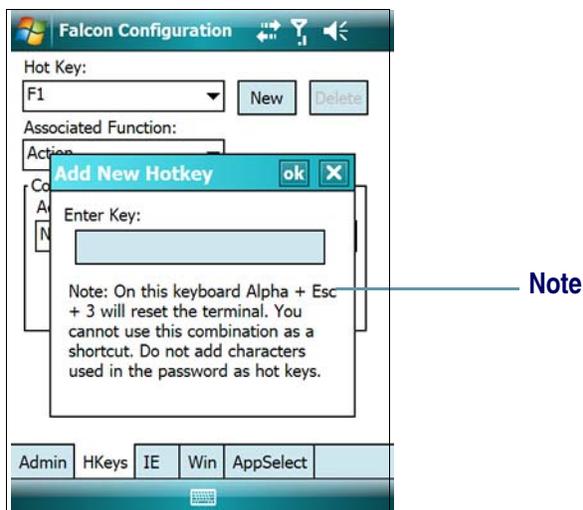
> **NOTE** You cannot add a Hot Key that is already defined. If you attempt to do so, you will receive an error message.

3. Tap **OK** to save the new Hot Key. If you tap **X**, the key will not be saved.

> ⚠️ It is possible for the keyboard wedge to activate assigned Hot Keys using alpha-numeric characters. Barcodes containing characters associated with assigned Hot Keys will trigger the action or application assigned to that Hot Key.
>
> **CAUTION**

Internet Explorer Configuration

Tap the **IE** (Internet Explorer) tab to access the **IE Configuration** option. Use the **IE Error Redirection** option to provide customized recovery from common **IE** errors. When an error occurs, the browser can redirect access to a specified error page with instructions on how to recover from the problem.

Figure 35. IE Configuration Tab
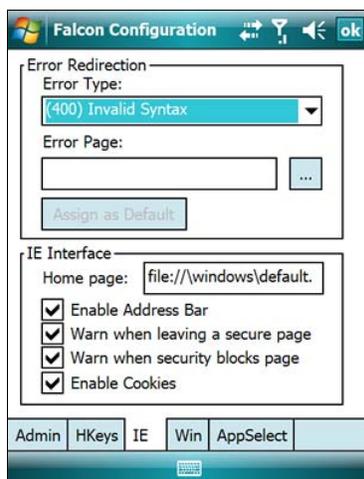
Table 5. IE Tab Fields

Command	Description
Error Type	The **Error Types** drop-down list displays available **IE Error Types**: (400) Invalid Syntax, (403) Request Forbidden, (404) Object Not Found, (406) No Response Format, (410) Page Doesn't Exist, (500) Internal Server Error, (501) Server Can't Do That, Generic Error, Server Is Busy, Couldn't Find Server, URL Syntax Error, Request Cancelled, Not Available Offline
Error Page	Enter a URL for a website or html file with the specified error.
Assign as Default	Tap to set a specified error page as the default. A confirmation dialog opens to ask if the default error page applies to all errors.
Home Page	Enter a URL to set for **IE** home page.
Enable Address Bar	Enable/disable visibility of the **IE** address bar.
Warn when leaving a secure page	Check to receive a security warning when you leave a secure web page.
Warn when security blocks page	Check to receive a warning when security blocks a web page.
Enable cookies	Select whether to allow cookies to be saved on your device.

Modifying Windows Controls

Tap the **Win** (Windows Controls) tab to access the **Windows Controls** option. Use Windows controls to allow or restrict access to Windows system functions.

You can disable normal Windows functions such as the taskbar, leaving nothing but a blank workspace. This allows applications to be run on the full screen and prevents users from accidental or unauthorized use of the taskbar, Internet Explorer, and any other resident applications.

Figure 36. Windows Controls
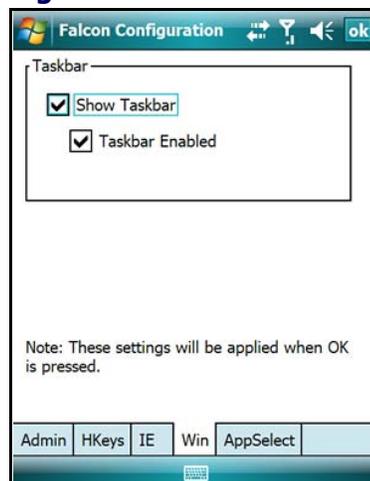
Table 6. Win Tab

Command	Description
Show Taskbar	Tap **Show Taskbar** to specify that the taskbar is shown or hidden.
Taskbar Enabled	Tap **Taskbar Enabled** to specify whether the taskbar is accessible. This option is only available when the **Show Taskbar** is checked.

Application Selector Setup

Use the **Application Selector** (AppSelect tab) function to edit, add, or delete applications for the application selector.

Figure 37. AppSelect Tab
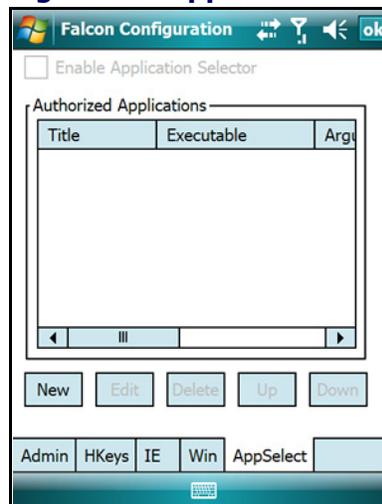
Table 7. AppSelect Tab

Command	Description
Enable Application Selector	Tap **Enable Application Selector** to enable/disabled the application selector. When this is enabled, the **Application Selector** replaces the desktop and allows only authorized use of applications.
Authorized Applications	This is a list of applications that the user may access.
New	Tap **New** to create a new application entry.
Edit	Tap **Edit** to edit the selected entry.
Delete	Tap **Delete** to delete the selected entry.
Up/Down	Tap **Up/Down** to move an entry up or down in the listview.

Add Application

Add Application opens when you tap either **New** or **Edit**.

From **Add Application**, the administrator can configure and add or change a new application entry in the list.

Applications with **Run Application at Startup** enabled will start automatically when the **Application Selector** starts up.

Figure 38. Add Application
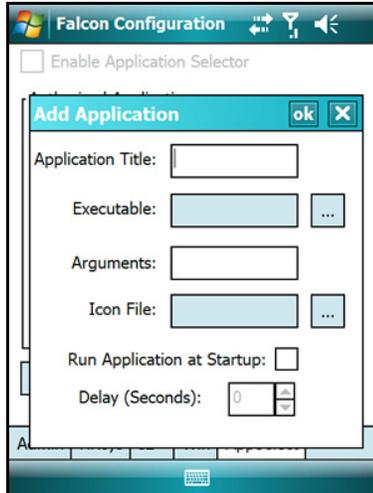
Table 8. Add Application

Command	Description
Application Title	Enter the name of the application in this textbox in the way you wish it to appear for the user.
Executable	Displays the path for the executable file which you want to run.
Arguments	Enter any command line arguments to be used when an application is executed.
Icon File	Displays the path/link to the desired icon file.
Run Application at Startup	Tap to force this application to auto start when the Application Selector starts up. Applications will be started in the order listed in the authorized application list.
Delay	Enter a delay duration in seconds in the combo box. This option delays auto start of application(s) to allow drivers to load prior to starting applications

Application Selector

The administrator can choose whether the user has access to the Today screen or not. The Application Selector can replace the Today screen and limit the user to the specified list of applications.

Figure 39. Application Selector
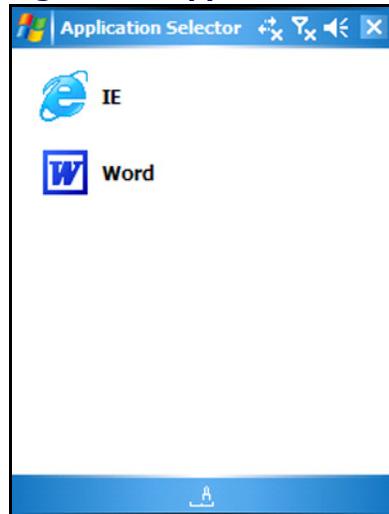
The user taps the desired application to open it.

The administrator can customize this list as shown in "Application Selector Setup" on page 49.

Application Switcher User Interface

The application switcher provides the same functionality as the standard Windows®
Alt+Tab function. This allows the user to cycle through the various open applications.

NOTE **The <Esc> key can be used to close the Application Switcher.**

The application switcher is activated via an assigned
Action key specified in the **Hot Key** tab. (Refer to
"Setting Hot Keys" on page 45.) When the assigned
Hot Key is pressed, the dialog shown to the right will
be displayed.
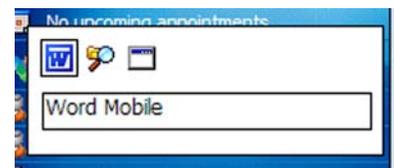
Press the **Hot Key** assigned to open the application
switcher. Press the assigned **Hot Key** to cycle through the running applications when the
dialog is open. Press **Enter** to switch to the selected application or **<Esc>** to close the
application switcher.

NOTES

Appendix C
SNMP Interface

Overview

SNMP Concepts

Simple Network Management Protocol (SNMP) is a standardized protocol for network management services using a client/server model. The network management program (client) issues queries and commands to the remote device (agent/server). The protocol itself defines a number of variable types and structures, and the rules for using them for data transfer. Using these variable types and rules, there are a number of standard variables that are supported by all SNMP agents. These standards include network addressing (IP address, subnet mask, etc.), and network statistics (total packets, bad packets, etc.).

MIB Files

A Management Information Base (MIB) is a file that defines a set of SNMP variables, their types and usage. There are a number of standard MIBs available, depending on the information being managed.

Datalogic MIBs

Beyond the standard values, SNMP allows manufacturers to define their own private MIBs. For example, Datalogic has been assigned an MIB by the Internet Assigned Numbers Authority that allows Datalogic to define SNMP values relating specifically to devices that we manufacture. Within the Datalogic MIB, several categories of values have been defined including scanner Configurations, Terminal power Configurations and Terminal network parameters.

The format of an MIB follows rules laid out in the appropriate standards, allowing the manufacturers of network management tools such as HP OpenView and CastleRock SNMPc to make use of the MIBs developed by manufacturers. So by following the procedures used by the management tool, the MIB can be processed by the tool allowing the proper display of SNMP values retrieved from the agent.

For example, if the Datalogic MIB is loaded into OpenView, the administrator can then view all of the values defined by Datalogic using the names assigned by Datalogic, as well as a brief explanation of what each value represents. This will also allow the administrator to update most values, and provides range checking information for the tool to take advantage of. The current Datalogic MIB can be found on the Datalogic Mobile website at www.mobile.datalogic.com in the Downloads area.

Additional Resources

Additional information on SNMP can be found at the following websites:

www.snmplink.org

www.snmpworld.com

www.simpleweb.com

Appendix D
Cable & Connector Configurations

Introduction

The following pages contain information about standard interface cables for use in interconnecting the Dock to power and/or peripheral devices.

General Specifications

Wire Requirements

- Cable length should not exceed 15 feet.
- Wire gauge:
  5V and GND — 26 AWG min, 24 AWG recommended.
  All others 28-26 AWG.

Supply Voltage

Current power supply voltage = 5V, 3 amp.

Docking Connector

Table 9. Docking Connector Pin Definitions

PIN	Signal	Description
1	PWR GND	GND/Return
2	Cradle IN	When Grounded Mobile computer detects it is in the cradle
3	NC	No Connect
4	USB_N	USB D- Signal
5	USB_P	USB D+ Signal
6	GND	GND/Return
7	VBUS	USB VBUS Signal
8	USB ID	USB OTG ID Signal

PIN	Signal	Description
9	TXD	RS232 TXD (Output from Mobile Computer)
10	RXD	RS232 RXD (Input to Mobile Computer)
11	RTS	RS232 RTS (Output from Mobile Computer)
12	CTS	RS232 CTS (Input to Mobile Computer)
13	DTR	RS232 DTR (Output from Mobile Computer)
14	DSR	RS232 DSR (Input to Mobile Computer)
15	NC	No Connect
16	POWER IN	Power Into Mobile Computer

USB Cable

Figure 40 illustrates the connector configuration of the USB cable for the Pegaso.

Figure 40. USB Connector Configurations

Power jack

PC END

PEGASO END

62" +/- 2"
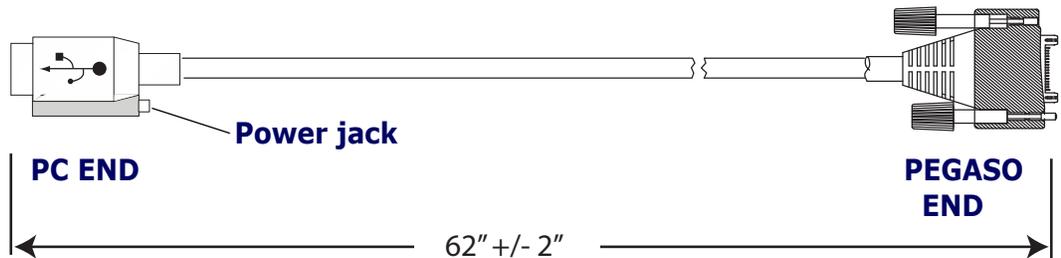
Appendix E
Programming Parameters

Overview

This section contains information about programmable settings for the Pegaso with Windows Mobile. Use the Decoding Control Panel applets or the barcodes provided in Appendix F to program the Pegaso.

Table 11 starting on page E-59 provides the following information:

- **Code Parameter** is the "human" name for the programming option.

- **I.D. #** is the "decoder" name for the programming option. For example, to set a Code 39 minimum label length, use I.D. **0120**. Programming I.D. numbers given in this appendix can be used with all programming methods.

- **On/Off** is a toggle. **1** turns the parameter on, and **0** turns it off.

- **Acceptable Input** gives the settings or range of settings for each code parameter.

- **Defaults** indicates how the parameter is set when the predefined default **FF39**, **FF3A**, or **FF3B** is selected.

  - **Minimum (FF39)** turns every on/off parameter off and sets all minimum and Maximum Label Lengths to the lowest values.

  - **Maximum (FF3A)** turns every on/off parameter on, sets all Minimum Label Lengths to the lowest values, and sets all Maximum Label Lengths to the highest values. Use this default for troubleshooting; it provides the best settings for reading an unknown barcode symbology and can identify the symbology of scanned barcodes.

  - **Factory (FF3B)** is the factory setting installed on the Pegaso. This default set will work for most applications. To reset the Pegaso to the original defaults, scan the **Factory** barcode on page F-75.

Programming Codes Without Parameters

The following table describes the functions of special barcodes that take no parameters:

Table 10. Programming Codes Without Parameters

Code Parameter	I.D. #	Function
Defaults Minimum	FF39	Turns every On/Off parameter off and sets all minimum and Maximum Label Lengths to the lowest values.
Defaults Maximum	FF3A	Turns every On/Off parameter on and sets all minimum and Maximum Label Lengths to the highest values. This default set is normally used only for troubleshooting. It gives the best chance of reading an unknown barcode symbology and also identifies the symbology of each bar-code scanned.
Defaults Factory	FF3B	This is the default parameter settings that was installed at the factory. This default set will work for most applications.
Defaults Registry	FF3C	This restores all parameter settings to the values that exist in the registry. This is useful for restoring parameters to a known working set of values which have been saved using code parameter **FF3F**.
Exit and Restore	FF3D	Stops a label programming sequence and restores all parameter settings to the values that exist in the registry.
Exit and Save	FF3E	Stops a label programming sequence. The last valid parameter settings are left intact.
Exit and Commit	FF3F	Stops a label programming sequence and writes all parameter settings into the registry. This can be used to save a customized set of parameter settings for restoring later via parameter **FF3C**.

Barcode Parameters

The following table lists the standard customer programmable settings for the Pegaso.

Table 11. Programmable Standard Barcode Settings

Code Parameter/ Description		I.D. #	Acceptable Input	Defaults		
				Min	Max	Factory
Codabar				Enter 1 for On and 0 for Off.		
Enable	Enables/disables the Codabar symbology.	0300	On / Off	Off	On	On
Enable Aggressive Decoding	Enables more aggressive decoding algorithms to be used in order to scan hard to read labels.	0301	On / Off	Off	On	Off
Enable Checksum	Requires the use of checksum characters to verify a barcode.	0302	On / Off	Off	Off	Off
Send Check-sum	Instructs the terminal to include the checksum in the label transmission	0303	On / Off	Off	Off	Off
Send Start/ Stop	Instructs the decoder to transmit the decoded start and stop characters of Codabar labels. The start and stop characters will both be translated as A, B, C, or D.	0305	On / Off	Off	On	Off
Convert to CLSI	Restricts the Codabar decoder to only read labels that conforms to "CLSI" specifications. Label length must be 14, and the data is split into fields of 1, 4, 5, and 4 characters separated by spaces.	0306	On / Off	Off	Off	Off
Allow Wide Intercharac-ter Gaps	Allows wide gaps to appear between characters in a label.	0307	On / Off	Off	On	On
Minimum Label Length	Set the minimum label length to be less than or equal to maximum label length.	0320	01 - 50	01	01	04
Maximum Label Length	This feature specifies the maximum allowable length of a Codabar label. The length includes check and data characters. Maximum Label Length should be greater than or equal to Minimum Label Length.	0321	01 - 50	01	50	20
Read Verifi-cation	Sets the number of times a label must be read before it is transmitted.	0322	01 - 04	01	02	01
User ID	Specifies the symbology identifier (if any) that is sent when parameter Send Code ID (Index 0025) is set to 3. "ASCII" code zero (null) is used to indicate that an identifier is not to be sent for the symbology.	0323	Any single ASCII character (00 = Off)	'I'	'I'	'I'

Code Parameter/ Description		I.D. #	Acceptable Input	Defaults		
				Min	Max	Factory
Code 39				Enter 1 for On and 0 for Off.		
Enable	Enables/disables the Code 39 symbology.	0100	On / Off	Off	On	On
Enable Aggressive Decoding	Enables more aggressive decoding algorithms to be used in order to scan hard to read labels.	0101	On / Off	Off	On	Off
Enable Checksum	Requires the use of checksum characters to verify a barcode.	0102	On / Off	Off	Off	Off
Send Check-sum	Instructs the terminal to include the checksum in the label transmission.	0103	On / Off	Off	Off	Off
Full ASCII Mode	Supports the entire ASCII character set by replacing various encoded ASCII characters with their corresponding "ASCII" equivalents.	0105	On / Off	Off	On	On
Minimum Label Length	Set the minimum label length to be less than or equal to maximum label length.	0120	01 - 50	01	01	01
Maximum Label Length	This feature specifies the maximum allowable length of a Code 39 label. The length includes check and data characters. Maximum Label Length should be greater than or equal to Minimum Label Length.	0121	01 - 50	01	50	20
Read Verifi-cation	Sets the number of times a label must be read before it is transmitted.	0122	01 - 04	01	02	01
User ID	Specifies the symbology identifier (if any) that is sent when parameter Send Code ID (Index 0025) is set to 3. "ASCII" code zero (null) is used to indicate that an identifier is not to be sent for the symbology.	0123	Any single ASCII character (00 = Off)	'C'	'C'	'C'
Code 93				Enter 1 for On and 0 for Off.		
Enable	Enables/disables the Code 93 symbology.	0400	On / Off	Off	On	Off
Enable Aggressive Decoding	Enables more aggressive decoding algorithms to be used in order to scan hard to read labels.	0401	On / Off	Off	On	Off
Minimum Label Length	Set the minimum label length to be less than or equal to maximum label length.	0420	01 - 50	01	01	02

Code Parameter/ Description		I.D. #	Acceptable Input	Defaults		
				Min	Max	Factory
Maximum Label Length	This feature specifies the maximum allowable length of a Code 93 label. The length includes check and data characters. Maximum Label Length should be greater than or equal to Minimum Label Length.	0421	01 - 50	01	50	20
Read Verification	Sets the number of times a label must be read before it is transmitted.	0422	01 - 04	01	02	01
User ID	Specifies the symbology identifier (if any) that is sent when parameter Send Code ID (Index 0025) is set to 3. "ASCII" code zero (null) is used to indicate that an identifier is not to be sent for the symbology.	0423	Any single ASCII character (00 = Off)	'L'	'L'	'L'
Code 128				Enter 1 for On and 0 for Off.		
Enable	Enables/disables the Code 128 symbology.	0408	On / Off	Off	On	On
Enable Aggressive Decoding	Enables more aggressive decoding algorithms to be used in order to scan hard to read labels.	0409	On / Off	Off	On	Off
Enable UCC/ EAN-128	Instructs the decoder to recognize UCC-128 versions of Code 128 labels and process them differently by changing the Code ID, and replacing each occurrence of the FNC1 character with GS ("ASCII" 29) characters.	040C	On / Off	Off	On	Off
ISBT Concatenation	Instructs the decoder to concatenate Code 128 labels conforming to the ISBT 128 standard.	040E	On / Off	Off	Off	
Minimum Label Length	Set the minimum label length to be less than or equal to maximum label length.	0424	01 - 50	01	01	02
Maximum Label Length	This feature specifies the maximum allowable length of a Code 128 label. The length includes check and data characters. Maximum Label Length should be greater than or equal to Minimum Label Length.	0425	01 - 50	01	50	20
Read Verification	Sets the number of times a label must be read before it is transmitted.	0426	01 - 04	01	02	01
User ID	Specifies the symbology identifier (if any) sent when parameter Send Code ID (Index 0025) is set to 3. "ASCII" code zero (null) is used to indicate that an identifier is not to be sent for the symbology.	0427	Any single ASCII character (00 = Off)	'K'	'K'	'K'

Code Parameter/ Description		I.D. #	Acceptable Input	Defaults		
				Min	Max	Factory
European Article Numbering-13 (EAN-13)				Enter 1 for On and 0 for Off.		
Enable	Enables/disables the EAN-13 symbology.	0510	On / Off	Off	On	On
Enable Aggressive Decoding	Enables more aggressive decoding algorithms to be used in order to scan hard to read labels.	0511	On / Off	Off	On	Off
Send Check Digit	Includes a check digit in the label which is transmitted.	0512	On / Off	Off	On	Off
Send System Digit	This instructs the decoder to include the system digit in the label transmission. For UPC-E, the system digit is zero.	0513	On / Off	Off	On	On
Convert EAN-13 to ISBN	This instructs the decoder to identify ISBN labels and append the check digit (per ISBN guidelines) to the end of the label.	0514	On / Off	Off	Off	Off
Convert EAN-13 to ISSN	This instructs the decoder to identify ISSN labels and append the check digit (per ISSN guidelines) to the end of the label.	0515	On / Off	Off	Off	Off
Enable EAN 4-Digit Price/ Weight Check Digit	Requires the use of a 4-digit price/weight check digit to verify a barcode.	0516	On / Off	Off	Off	Off
Enable EAN 5-Digit Price/ Weight Check Digit	Requires the use of a 4-digit price/weight check digit to verify a barcode.	0517	On / Off	Off	Off	Off
Read Verification	Sets the number of times a label must be read before it is transmitted.	0524	01 - 04	01	02	01
User ID	Specifies the symbology identifier (if any) that is sent by the decoder when parameter Send Code ID (Index 0025) is set to 3. "ASCII" code zero (null) is used to indicate that an identifier is not to be sent for the symbology.	0525	Any single ASCII character (00 = Off)	'M'	'M'	'M'
European Article Numbering-8 (EAN-8)				Enter 1 for On and 0 for Off.		
Enable	Enables/disables the EAN-8 symbology.	0518	On / Off	Off	On	On
Enable Aggressive Decoding	Enables more aggressive decoding algorithms to be used in order to scan hard to read labels.	0519	On / Off	Off	On	Off

Code Parameter/ Description		I.D. #	Acceptable Input	Defaults		
				Min	Max	Factory
Send Check Digit	Instructs the terminal to include the check digit in the label transmission.	051A	On / Off	Off	On	Off
Convert EAN-8 to EAN-13	Instructs the decoder to expand EAN-8 labels to their EAN-13 equivalents. Any EAN-13 parameters will then apply to the result.	051B	On / Off	Off	On	Off
Read Verifi-cation	Sets the number of times a label must be read before it is transmitted.	0526	01 - 04	01	02	01
User ID	Specifies the symbology identifier (if any) that is sent by the decoder when parameter Send Code ID (Index 0025) is set to 3. "ASCII" code zero (null) is used to indicate that an identifier is not to be sent for the symbology.	0527	Any single ASCII character (00 = Off)	'G'	'G'	'G'
Interleaved 2 of 5				Enter 1 for On and 0 for Off.		
Enable	Enables/disables the Interleaved 2 of 5 sym-bology.	0210	On / Off	Off	On	On
Enable Aggressive Decoding	Enables more aggressive decoding algorithms to be used in order to scan hard to read labels.	0211	On / Off	Off	On	Off
Enable Checksum	Requires the use of checksum characters to verify a barcode.	0212	On / Off	Off	Off	Off
Send Check-sum	Instructs the terminal to include the checksum in the label transmission.	0213	On / Off	Off	Off	Off
Enable Case Code	Restricts Interleaved 2 of 5 label lengths to only 6 and 14 data characters. Enabling this parameter overrides the minimum and maxi-mum length values.	0214	On / Off	Off	Off	Off
Minimum Label Length	Set the minimum label length to be less than or equal to maximum label length.	0228	02 - 50	02	02	06
Maximum Label Length	This feature specifies the maximum allowable length of a Interleaved 2 of 5 label. The length includes check and data characters. Maximum Label Length should be greater than or equal to Minimum Label Length.	0229	02 - 50	02	50	10
Read Verifi-cation	Sets the number of times a label must be read before it is transmitted.	022A	01 - 04	01	02	01

Code Parameter/ Description		I.D. #	Acceptable Input	Defaults		
				Min	Max	Factory
User ID	Specifies the symbology identifier (if any) that is sent by the decoder when parameter Send Code ID (Index 0025) is set to 3. "ASCII" code zero (null) is used to indicate that an identifier is not to be sent for the symbology.	022B	Any single ASCII character (00 = Off)	'B'	'B'	'B'
Matrix 2 of 5				Enter 1 for On and 0 for Off.		
Enable	Enables/disables the Matrix 2 of 5 symbology.	0208	On / Off	Off	On	Off
Enable Aggressive Decoding	Enables more aggressive decoding algorithms to be used in order to scan hard to read labels.	0209	On / Off	Off	On	Off
Enable Checksum	Requires the use of checksum characters to verify a barcode.	020A	On / Off	Off	Off	Off
Send Check- sum	Instructs the terminal to include the checksum in the label transmission.	020B	On / Off	Off	Off	Off
Minimum Label Length	Set the minimum label length to be less than or equal to maximum label length.	0224	01 - 50	01	01	06
Maximum Label Length	This feature specifies the maximum allowable length of a Matrix 2 of 5 label. The length includes check and data characters. Maximum Label Length should be greater than or equal to Minimum Label Length.	0225	01 - 50	01	50	10
Read Verifi- cation	Sets the number of times a label must be read before it is transmitted.	0226	01 - 04	01	02	01
User ID	Specifies the symbology identifier (if any) that is sent by the decoder when parameter Send Code ID (Index 0025) is set to 3. "ASCII" code zero (null) is used to indicate that an identifier is not to be sent for the symbology.	0227	Any single ASCII character (00 = Off)	'D'	'D'	'D'
MSI				Enter 1 for On and 0 for Off.		
Enable	Enables/disables the MSI symbology.	0608	On / Off	Off	On	Off
Enable Aggressive Decoding	Enables more aggressive decoding algorithms to be used in order to scan hard to read labels.	0609	On / Off	Off	On	Off
Require 2 Check Dig- its	An MSCI label must contain 2 check digits.	060A	On / Off	Off	Off	Off

Code Parameter/ Description		I.D. #	Acceptable Input	Defaults		
				Min	Max	Factory
Send Check Digits	This instructs the decoder to include any enabled check digit(s) in the label which is transmitted.	060B	On / Off	Off	On	Off
2nd Check Digit Mod 11	Instructs the decoder to interpret any second MSI check digit as modulo 11 instead of modulo 10.	060C	On / Off	Off	Off	Off
Minimum Label Length	Set the minimum label length to be less than or equal to maximum label length.	0624	01 - 15	01	01	04
Maximum Label Length	This feature specifies the maximum allowable length of an MSI label. The length includes check and data characters. Maximum Label Length should be greater than or equal to Minimum Label Length.	0625	01 - 15	01	15	10
Read Verification	Sets the number of times a label must be read before it is transmitted.	0626	01 - 04	01	02	01
User ID	Specifies the symbology identifier (if any) that is sent by the decoder when parameter Send Code ID (Index 0025) is set to 3. "ASCII" code zero (null) is used to indicate that an identifier is not to be sent for the symbology.	0627	Any single ASCII character (00 = Off)	'H'	'H'	'H'

Pharmacode 39 (Code 32)

Enter 1 for On and 0 for Off.

Enable	Enables/disables the Pharmacode 39 (Code 32) symbology.	0110	On / Off	Off	On	Off
Send Checksum	Instructs the terminal to include the checksum in the label transmission.	0112	On / Off	Off	Off	Off
Send Start/ Stop	Instructs terminals to prefix a Pharmacode 39 label with an "A" prior to transmission.	0113	On / Off	Off	On	Off
User ID	Specifies the symbology identifier (if any) that is sent when parameter Send Code ID (Index 0025) is set to 3. "ASCII" code zero (null) is used to indicate that an identifier is not to be sent for the symbology.	0127	Any single ASCII character (00 = Off)	'Y'	'Y'	'Y'

RSS-14 (GS1DataBar Omnidirectional)

Enter 1 for On and 0 for Off.

RSS-14 Enable	Enables/disables the RSS-14 symbology.	0800	On / Off	Off	On	On
RSS-14 to UCC-EAN 128	Instructs the decoder to transmit the label data as one or more UCC-128 labels. The transmission will use the UCC-128 AIM identifier.	0804	On / Off	Off	On	Off

Code Parameter/ Description		I.D. #	Acceptable Input	Defaults		
				Min	Max	Factory
	If RSS-14, RSS-Expanded, RSS-Limited, or RSS-Composite symbologies are enabled for UCC-EAN 128, then that setting is also enabled for all other RSS symbologies.					
NOTE: For the 2D Imager, RSS-Expanded User Code ID is used for RSS-14						
RSS Limited (GS1 DataBar Limited)			Enter 1 for On and 0 for Off.			
RSS Limited Enable	Enables/disables the RSS Limited symbology.	0808	On / Off	Off	On	On
RSS Limited to UCC-EAN 128	Instructs the decoder to transmit the label data as one or more UCC-128 labels. The transmission will use the UCC-128 AIM identifier.	080C	On / Off	Off	On	Off
	If RSS-14, RSS-Expanded, RSS-Limited, or RSS-Composite symbologies are enabled for UCC-EAN 128, then that setting is also enabled for all other RSS symbologies.					
NOTE: For the 2D Imager, RSS-Expanded User Code ID is used for RSS-Limited						
RSS Expanded (GS1 DataBar Expanded)			Enter 1 for On and 0 for Off.			
RSS Expanded Enable	Enables/disables the RSS Expanded symbology.	0810	On / Off	Off	On	On
RSS Expanded to UCC-EAN 128	Instructs the decoder to transmit the label data as one or more UCC-128 labels. The transmission will use the UCC-128 AIM identifier.	0804	On / Off	Off	On	Off
RSS Expanded Minimum	Set the minimum barcode label length to be less than or equal to maximum label length.	0824	1 - 74	1	74	1
RSS Expanded Maximum	This feature specifies the maximum allowable length of a label. The length includes check and data characters, if applicable. Maximum Label Length should be greater than or equal to Minimum Label Length.	0825	1 - 74	1	74	74
RSS Expanded User Code ID	Specifies the symbology identifier (if any) that is sent when parameter Send Code ID (Index 0025) is set to 3. "ASCII" code zero (null) is used to indicate that an identifier is not to be sent for the symbology.	0827	Any single ASCII character (00 = Off)	'R'	'R'	'R'

Code Parameter/ Description		I.D. #	Acceptable Input	Defaults		
				Min	Max	Factory
Standard 2 of 5				Enter 1 for On and 0 for Off.		
Enable	Enables/disables the Standard 2 of 5 symbology.	0200	On / Off	Off	On	Off
Enable Aggressive Decoding	Enables more aggressive decoding algorithms to be used in order to scan hard to read labels.	0201	On / Off	Off	On	Off
Enable Checksum	Requires the use of checksum characters to verify a barcode	0202	On / Off	Off	Off	Off
Send Check-sum	Instructs the terminal to include the checksum in the label transmission.	0203	On / Off	Off	Off	Off
Use 2-bar Start/Stop	Allows the terminal to recognize labels that are printed using only two bars for start/stop characters.	0204	On / Off	Off	Off	Off
Minimum Label Length	Set the minimum label length to be less than or equal to maximum label length.	0220	01 - 50	01	01	06
Maximum Label Length	This feature specifies the maximum allowable length of a Standard 2 of 5 label. The length includes check and data characters. Maximum Label Length should be greater than or equal to Minimum Label Length.	0221	01 - 50	01	50	10
Read Verifi-cation	Sets the number of times a label must be read before it is transmitted.	0222	01 - 04	01	02	01
User ID	Specifies the symbology identifier (if any) that is sent when parameter Send Code ID (Index 0025) is set to 3. "ASCII" code zero (null) is used to indicate that an identifier is not to be sent for the symbology.	0223	Any single ASCII character (00 = Off)	'F'	'F'	'F'
Trioptic				Enter 1 for On and 0 for Off.		
Enable	Enables/disables the Trioptic symbology.	0108	On / Off	Off	On	Off
Enable Aggressive Decoding	Enables more aggressive decoding algorithms to be used in order to scan hard to read labels.	0109	On / Off	Off	On	Off
Read Verifi-cation	Sets the number of times a label must be read before it is transmitted.	0124	01 - 04	01	02	01

Code Parameter/ Description		I.D. #	Acceptable Input	Defaults		
				Min	Max	Factory
User ID	Specifies the symbology identifier (if any) that is sent when parameter Send Code ID (Index 0025) is set to 3. "ASCII" code zero (null) is used to indicate that an identifier is not to be sent for the symbology	0125	Any single ASCII character (00 = Off)	'X'	'X'	'X'
Universal Product Code-A (UPC-A)			Enter 1 for On and 0 for Off.			
Enable	Enables/disables the UPC-A symbology.	0500	On / Off	Off	On	On
Enable Aggressive Decoding	Enables more aggressive decoding algorithms to be used in order to scan hard to read labels.	0501	On / Off	Off	On	Off
Send Check Digit	Includes check digit in the label which is transmitted.	0502	On / Off	Off	On	Off
Send System Digit	Includes the system digit in the label transmission. For UPC-A, the system digit is always zero.	0503	On / Off	Off	On	On
Convert UPC-A to EAN-13	Instructs the decoder to expand UPC-A labels to their EAN-13 equivalents. Any EAN-13 parameters will then apply to the result.	0504	On / Off	Off	On	Off
Read Verification	Sets the number of times a label must be read before it is transmitted.	0520	01 - 04	01	02	01
User ID	Specifies the symbology identifier (if any) sent when parameter Send Code ID (Index 0025) is set to 3. "ASCII" code zero (null) is used to indicate that an identifier is not to be sent for the symbology.	0521	Any single ASCII character (00 = Off)	'A'	'A'	'A'
Universal Product Code-E (UPC-E)			Enter 1 for On and 0 for Off.			
Enable System Digit 0	Enables/disables UPC-E labels with a system digit of zero.	0508	On / Off	Off	On	On
Enable Aggressive Decoding	Enables more aggressive decoding algorithms to be used in order to scan hard to read labels.	0509	On / Off	Off	On	Off
Send Check Digit	Includes the check digit in the label which is transmitted.	050A	On / Off	Off	On	Off
Send System Digit	This instructs the decoder to include the system digit in the label transmission. For UPC-E, the system digit is zero.	050B	On / Off	Off	On	Off

Code Parameter/ Description		I.D. #	Acceptable Input	Defaults		
				Min	Max	Factory
Convert UPC-E to UPC-A	Instructs the decoder to expand UPC-E labels to their UPC-A equivalents. Any UPC-A parameters will then apply to the result.	050C	On / Off	Off	On	Off
Read Verifi-cation	Sets the number of times a label must be read before it is transmitted.	0522	01 - 04	01	02	01
User ID	Specifies the symbology identifier (if any) that is sent by the decoder when parameter Send Code ID (Index 0025) is set to 3. "ASCII" code zero (null) is used to indicate that an identifier is not to be sent for the symbology.	0523	Any single ASCII character (00 = Off)	'E'	'E'	'E'
UPC/EAN Extensions				Enter 1 for On and 0 for Off.		
Enable 2-Digit Exten-sions	Requires a 2 digit extension (supplemental label) to be verified for a successful decode of a label.	051C	On / Off	Off	On	On
Enable 5-Digit Exten-sions	Requires a 5 digit extension (supplemental label) to be verified for a successful decode of a label.	051D	On / Off	Off	On	On
Require Extensions	Instructs the decoder to require any enabled UPC/EAN extensions (supplemental labels) to be with a label in order for a scan to be suc-cessful.	051F	On / Off	Off	Off	Off
Read Verifi-cation	Sets the number of times an extension (sup-plemental label) must be read before it is included in the transmission of the base UPC/EAN label.	0528	01 - 04	01	01	01

Table 12. Other Controls

Code Parameter/ Description		I.D. #	Acceptable Input	Defaults		
				Min	Max	Factory
Other Controls						Enter 1 for On and 0 for Off.
Enable Label Programming	Enables/disables the ability to perform label programming.	FF00	On / Off	On	On	On
Beeper Volume	Adjusts the beeper volume.	FF20	00 = Off 00 - 09 (01 = Lowest; 07 = Highest; 08 = Higher; 09 = Lower)	07	07	07
Long Range Trigger Mode	Selects the Long Range Trigger mode.	0000	On = Release Scan Off = Spot Timeout	Off	Off	Off
Spotting Beam Enable	Enables/disables the Spotting Beam	0001	On / Off	On	On	On
Spotting Beam Timeout	Sets the duration of the spotting beam before it automatically turns off.	0023	00 = 0.25 sec. 01 = 0.5 sec. 02 = 1.0 sec. 03 = 1.5 sec. 04 = 2.0 sec.	01	01	01
Release Scan Timeout	Sets the duration of the scan before it turns off.	0024	1-10	02	02	02
Number of Good-Read Beeps	Determines the number of beeps for a good read indicator.	0020	01 - 04	01	01	01
Good-Read Beep Tone	Adjusts the pitch of the beeper frequency.	0021	00 - 07 (00 = Lowest; 07 = Highest)	00	00	00
Good-Read Beep Duration	Determines the duration of a good read beep.	0022	00 = 0.07 sec. 01 = 0.13 sec. 02 = 0.18 sec. 03 = 0.36 sec.	00	00	00
Send Symbology Identifiers	Specifies the symbology identifier (if any) that is sent by the decoder when parameter Send Code ID (Index 0025) is set to 3. "ASCII" code zero (null) used to indicate an identifier not to be sent for the symbology.	0025	00 = Off 01 = DLM IDs* 02 = AIM IDs 03 = User IDs	00	01	00
Label Prefix	Indicates a label prefix.	0026	Any single ASCII character (00 = Off)	None	None	None

Code Parameter/ Description		I.D. #	Acceptable Input	Defaults		
				Min	Max	Factory
Label Suffix	Indicates a label suffix.	0027	Any single ASCII character (00 = Off)	CR	CR	CR

Table 13. Datalogic Label IDs

DLM Label IDs		
UPC-A = A	Code 128 = K	Trioptic = X
UPC-E = E	I 2 of 5 = B	Pharmacode 39 = Y
EAN-8 = G	S 2 of 5 = F	RSS-14 = P
EAN 13 = M	M 2 of 5 = D	RSS Limited = Q
Code 39 = C	Code 93 = L	RSS Expanded = R
Codabar = I	MSI = H	

Table 14. ASCII/Hex Conversion Table

ASCII	Hex	ASCII	Hex	ASCII	Hex	ASCII	Hex
NUL	00	SP	20	@	40		60
SOH	01	!	21	A	41	a	61
STX	02	"	22	B	42	b	62
ETX	03	#	23	C	43	c	63
EOT	04	$	24	D	44	d	64
ENQ	05	%	25	E	45	e	65
ACK	06	&	26	F	46	f	66
BEL	07	&	26	G	47	g	67
BS	08	(	28	H	48	h	68
HT	09	)	29	I	49	i	69
LF	0A	*	2A	J	4A	j	6A
VT	0B	+	2B	K	4B	k	6B
FF	0C	,	2C	L	4C	l	6C
CR	0D	-	2D	M	4D	m	6D
SO	0E	.	2E	N	4E	n	6E
SI	0F	/	2F	O	4F	o	6F
DLE	10	0	30	P	50	p	70
DC1	11	1	31	Q	51	q	71
DC2	12	2	32	R	52	r	72
DC3	13	3	33	S	53	s	73
DC4	14	4	34	T	54	t	74
NAK	15	5	35	U	55	u	75
SYN	16	6	36	V	56	v	76
ETB	17	7	37	W	57	w	77
CAN	18	8	38	X	58	x	78

ASCII	Hex	ASCII	Hex	ASCII	Hex	ASCII	Hex
EM	19	9	39	Y	59	y	79
SUB	1A	:	3A	Z	5A	z	7A
ESC	1B	;	3B	[	5B	{	7B
FS	1C	<	3C	\	5C	|	7C
GS	1D	=	3D	]	5D	}	7D
RS	1E	>	3E	^	5E	~	7E
US	1F	?	3F	_	5F	DEL	7F

Appendix F
Programming Barcodes

Overview

This appendix provides barcodes for common setup parameters for programming the Pegaso. Factory default settings are <u>OUTLINED</u>.

To make settings that are not provided in the chapter, you can design custom barcodes to program the Pegaso. Refer to "Configuration Settings", on page 2-5.

1D Symbologies

Symbologies and barcode setup parameters included in this appendix are:

- "Predefined Defaults" on page 75.
- "Codabar" starting on page F-75.
- "Code 39" starting on page F-78.
- "Code 93" starting on page F-80.
- "Code 128" on page 82.
- "EAN-13" starting on page F-84.
- "EAN-8" on page 86.
- "Interleaved 2 of 5" on page 86.
- "Matrix 2 of 5" on page 89.
- "MSI" starting on page F-91.
- "Pharmacode 39 (Code 32)" on page 93.
- "RSS-14 (GS1 DataBar Omnidirectional)" on page 93.
- "RSS Limited (GS1 DataBar Limited)" on page 93.
- "RSS Expanded (GS1 DataBar Expanded)" on page 95.
- "Standard 2 of 5" starting on page F-96.
- "Trioptic" on page 98.
- "UPC-A" starting on page F-98.
- "UPC-E" on page 100.
- "UPC/EAN Extensions" on page 100.

- "Other Controls" starting on page F-101.

NOTE

Depending on which Pegaso options you have, some programming parameters may not be available on your unit. Refer to Table 11 on page E-59 for specific details on which parameters are applicable.

Predefined Defaults

Minimum
```
*  /  /  F  F  3  9  F  F  3  F  *
```

Registry
```
*  /  /  F  F  3  C  F  F  3  F  *
```

Maximum
```
*  /  /  F  F  3  A  F  F  3  F  *
```

Restore
From
Registry
```
*  /  /  F  F  3  D  *
```

Factory
```
*  /  /  F  F  3  B  F  F  3  F  *
```

Save To
Registry
```
*  /  /  F  F  3  F  *
```

Codabar

ENABLE

On
```
*  /  /  0  3  0  0  1  F  F  3  E  *
```

Off
```
*  /  /  0  3  0  0  0  F  F  3  E  *
```

ENABLE AGGRESSIVE DECODING

On
```
*  /  /  0  3  0  1  1  F  F  3  E  *
```

Off
```
*  /  /  0  3  0  1  0  F  F  3  E  *
```

ENABLE CHECKSUM

On
```
*  /  /  0  3  0  2  1  F  F  3  E  *
```

Off
```
*  /  /  0  3  0  2  0  F  F  3  E  *
```

SEND CHECKSUM

On
```
*  /  /  0  3  0  3  1  F  F  3  E  *
```

Off
```
*  /  /  0  3  0  3  0  F  F  3  E  *
```

SEND START/STOP

On
```
*  /  /  0  3  0  5  1  F  F  3  E  *
```

Off
```
*  /  /  0  3  0  5  0  F  F  3  E  *
```

CONVERT TO CLSI

On

//03061FF3E

<u>Off</u>

//03060FF3E

ALLOW WIDE INTERCHARACTER GAPS

<u>On</u>

//03071FF3E

Off

//03070FF3E

MINIMUM LENGTH

1

//032001FF3E

30

//032030FF3E

<u>4</u>

//032004FF3E

40

//032040FF3E

10

//032010FF3E

50

//032050FF3E

20

//032020FF3E

MAXIMUM LENGTH

1

//032101FF3E

30

//032130FF3E

10

//032110FF3E

40

//032140FF3E

<u>20</u>

//032120FF3E

50

//032150FF3E

READ VERIFICATION

1̄

```
* / / 0 3 2 2 0 1 F F 3 E *
```

3

```
* / / 0 3 2 2 0 3 F F 3 E *
```

2

```
* / / 0 3 2 2 0 2 F F 3 E *
```

4

```
* / / 0 3 2 2 0 4 F F 3 E *
```

Code 39

ENABLE

On

```
* / / 0 1 0 0 1 F F 3 E *
```

Off

```
* / / 0 1 0 0 0 F F 3 E *
```

ENABLE AGGRESSIVE DECODING

On

```
* / / 0 1 0 1 1 F F 3 E *
```

Off

```
* / / 0 1 0 1 0 F F 3 E *
```

ENABLE CHECKSUM

On

```
* / / 0 1 0 2 1 F F 3 E *
```

Off

```
* / / 0 1 0 2 0 F F 3 E *
```

SEND CHECKSUM

On

```
* / / 0 1 0 3 1 F F 3 E *
```

Off

```
* / / 0 1 0 3 0 F F 3 E *
```

FULL ASCII MODE

On

```
* / / 0 1 0 5 1 F F 3 E *
```

Off

```
* / / 0 1 0 5 0 F F 3 E *
```

MINIMUM LENGTH

1

```
* / / 0 1 2 0 0 1 F F 3 E *
```

30

```
* / / 0 1 2 0 3 0 F F 3 E *
```

10

```
* / / 0 1 2 0 1 0 F F 3 E *
```

40

```
* / / 0 1 2 0 4 0 F F 3 E *
```

20

```
* / / 0 1 2 0 2 0 F F 3 E *
```

50

```
* / / 0 1 2 0 5 0 F F 3 E *
```

MAXIMUM LENGTH

1

```
* / / 0 1 2 1 0 1 F F 3 E *
```

30

```
* / / 0 1 2 1 3 0 F F 3 E *
```

10

```
* / / 0 1 2 1 1 0 F F 3 E *
```

40

```
* / / 0 1 2 1 4 0 F F 3 E *
```

20

```
* / / 0 1 2 1 2 0 F F 3 E *
```

50

```
* / / 0 1 2 1 5 0 F F 3 E *
```

READ VERIFICATION

1

```
* / / 0 1 2 2 0 1 F F 3 E *
```

3

```
* / / 0 1 2 2 0 3 F F 3 E *
```

2

```
* / / 0 1 2 2 0 2 F F 3 E *
```

4

```
* / / 0 1 2 2 0 4 F F 3 E *
```

Code 93

ENABLE

On

//04001FF3E

Off

//04000FF3E

ENABLE AGGRESSIVE DECODING

On

//04011FF3E

Off

//04010FF3E

MINIMUM LENGTH

2

//042002FF3E

30

//042030FF3E

10

//042010FF3E

40

//042040FF3E

20

//042020FF3E

50

//042050FF3E

MAXIMUM LENGTH

2

//042102FF3E

30

//042130FF3E

10

//042110FF3E

40

//042140FF3E

20

//042120FF3E

50

//042150FF3E

READ VERIFICATION

1

//042201FF3E

3

//042203FF3E

2

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖

* / / 0 4 2 2 0 2 F F 3 E *

4

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖

* / / 0 4 2 2 0 4 F F 3 E *

Code 128

ENABLE

On

`* / / 0 4 0 8 1 F F 3 E *`

Off

`* / / 0 4 0 8 0 F F 3 E *`

ENABLE AGGRESSIVE DECODING

On

`* / / 0 4 0 9 1 F F 3 E *`

Off

`* / / 0 4 0 9 0 F F 3 E *`

ENABLE UCC/EAN-128

On

`* / / 0 4 0 C 1 F F 3 E *`

Off

`* / / 0 4 0 C 0 F F 3 E *`

ISBT CONCATENATION

On

`* / / 0 4 0 E 1 F F 3 E *`

Off

`* / / 0 4 0 E 0 F F 3 E *`

MINIMUM LENGTH

1

`* / / 0 4 2 4 0 1 F F 3 E *`

30

`* / / 0 4 2 4 3 0 F F 3 E *`

2

`* / / 0 4 2 4 0 2 F F 3 E *`

40

`* / / 0 4 2 4 4 0 F F 3 E *`

10

`* / / 0 4 2 4 1 0 F F 3 E *`

50

`* / / 0 4 2 4 5 0 F F 3 E *`

20

`* / / 0 4 2 4 2 0 F F 3 E *`

MAXIMUM LENGTH

1

```
* / / 0 4 2 5 0 1 F F 3 E *
```

30

```
* / / 0 4 2 5 3 0 F F 3 E *
```

10

```
* / / 0 4 2 5 1 0 F F 3 E *
```

40

```
* / / 0 4 2 5 4 0 F F 3 E *
```

20

```
* / / 0 4 2 5 2 0 F F 3 E *
```

50

```
* / / 0 4 2 5 5 0 F F 3 E *
```

READ VERIFICATION

1

```
* / / 0 4 2 6 0 1 F F 3 E *
```

3

```
* / / 0 4 2 6 0 3 F F 3 E *
```

2

```
* / / 0 4 2 6 0 2 F F 3 E *
```

4

```
* / / 0 4 2 6 0 4 F F 3 E *
```

EAN-13

ENABLE

On

//05101FF3E

Off

//05100FF3E

ENABLE AGGRESSIVE DECODING

On

//05111FF3E

Off

//05110FF3E

SEND CHECK DIGIT

On

//05121FF3E

Off

//05120FF3E

SEND SYSTEM DIGIT

On

//05131FF3E

Off

//05130FF3E

CONVERT EAN-13 TO ISBN

On

//05141FF3E

Off

//05140FF3E

CONVERT EAN-13 TO ISSN

On

//05151FF3E

Off

//05150FF3E

ENABLE EAN 4-DIGIT PRICE/WEIGHT CHECK DIGIT

On

//05161FF3E

Off

//05160FF3E

ENABLE EAN 5-DIGIT PRICE/WEIGHT CHECK DIGIT

On

//05171FF3E

Off

//05170FF3E

READ VERIFICATION

1

//052401FF3E

3

//052403FF3E

2

//052402FF3E

4

//052604FF3E

EAN-8

ENABLE

On

//05181FF3E

Off

//05180FF3E

ENABLE AGGRESSIVE DECODING

On

//05191FF3E

Off

//05190FF3E

SEND CHECK DIGIT

On

//051A1FF3E

Off

//051A0FF3E

CONVERT EAN-8 TO EAN-13

On

//051B1FF3E

Off

//051B0FF3E

READ VERIFICATION

1

//052601FF3E

3

//052603FF3E

2

//052602FF3E

4

//052604FF3E

Interleaved 2 of 5

ENABLE

On

//02101FF3E

Off

//02100FF3E

ENABLE AGGRESSIVE DECODING

On

//02111FF3E

Off

//02110FF3E

ENABLE CHECKSUM

On

//02121FF3E

Off

//02120FF3E

SEND CHECKSUM

On

//02131FF3E

Off

//02130FF3E

ENABLE CASE CODE

On

//02141FF3E

Off

//02140FF3E

MINIMUM LENGTH

2

//022802FF3E

30

//022830FF3E

6

//022806FF3E

40

//022840FF3E

10

//022810FF3E

50

//022850FF3E

20

//022820FF3E

MAXIMUM LENGTH

2

//022902FF3E

30

//022930FF3E

10

```
* / / 0 2 2 9 1 0 F F 3 E *
```

40

```
* / / 0 2 2 9 4 0 F F 3 E *
```

20

```
* / / 0 2 2 9 2 0 F F 3 E *
```

50

```
* / / 0 2 2 9 5 0 F F 3 E *
```

READ VERIFICATION

1

```
* / / 0 2 2 A 0 1 F F 3 E *
```

3

```
* / / 0 2 2 A 0 3 F F 3 E *
```

2

```
* / / 0 2 2 A 0 2 F F 3 E *
```

4

```
* / / 0 2 2 A 0 4 F F 3 E *
```

Matrix 2 of 5

ENABLE

On

Off

* / / 0 2 0 8 1 F F 3 E *

* / / 0 2 0 8 0 F F 3 E *

ENABLE AGGRESSIVE DECODING

On

Off

* / / 0 2 0 9 0 F F 3 E *

* / / 0 2 0 9 1 F F 3 E *

ENABLE CHECKSUM

On

Off

* / / 0 2 0 A 1 F F 3 E *

* / / 0 2 0 A 0 F F 3 E *

SEND CHECKSUM

On

Off

* / / 0 2 0 B 1 F F 3 E *

* / / 0 2 0 B 0 F F 3 E *

MINIMUM LENGTH

1

30

* / / 0 2 2 4 0 1 F F 3 E *

* / / 0 2 2 4 3 0 F F 3 E *

6

40

* / / 0 2 2 4 0 6 F F 3 E *

* / / 0 2 2 4 4 0 F F 3 E *

10

50

* / / 0 2 2 4 1 0 F F 3 E *

* / / 0 2 2 4 5 0 F F 3 E *

20

* / / 0 2 2 4 2 0 F F 3 E *

MAXIMUM LENGTH

1

* / / 0 2 2 5 0 1 F F 3 E *

30

* / / 0 2 2 5 3 0 F F 3 E *

10

* / / 0 2 2 5 1 0 F F 3 E *

40

* / / 0 2 2 5 4 0 F F 3 E *

20

* / / 0 2 2 5 2 0 F F 3 E *

50

* / / 0 2 2 5 5 0 F F 3 E *

READ VERIFICATION

1

* / / 0 2 2 6 0 1 F F 3 E *

3

* / / 0 2 2 6 0 3 F F 3 E *

2

* / / 0 2 2 6 0 2 F F 3 E *

4

* / / 0 2 2 6 0 4 F F 3 E *

MSI

ENABLE

On

//06081FF3E

//06080FF3E

ENABLE AGGRESSIVE DECODING

On

//06091FF3E

Off

//06090FF3E

REQUIRE 2 CHECK DIGITS

On

//060A1FF3E

Off

//060A0FF3E
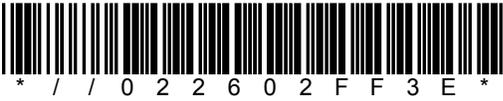
SEND CHECK DIGITS

On

//060B1FF3E

Off

//060B0FF3E

2ND CHECK DIGIT MOD 11

On

//060C1FF3E

Off

//060C0FF3E

MINIMUM LENGTH

1

//062401FF3E

//062410FF3E

4

//062404FF3E

12

//062412FF3E

7

//062407FF3E

15

//062415FF3E

MAXIMUM LENGTH

1

```
* / / 0 6 2 5 0 1 F F 3 E *
```

<u>10</u>

```
* / / 0 6 2 5 1 0 F F 3 E *
```

4

```
* / / 0 6 2 5 0 4 F F 3 E *
```

12

```
* / / 0 6 2 5 1 2 F F 3 E *
```

7

```
* / / 0 6 2 5 0 7 F F 3 E *
```

15

```
* / / 0 6 2 5 1 5 F F 3 E *
```

READ VERIFICATION

<u>1</u>

```
* / / 0 6 2 6 0 1 F F 3 E *
```

3

```
* / / 0 6 2 6 0 3 F F 3 E *
```

2

```
* / / 0 6 2 6 0 2 F F 3 E *
```

4

```
* / / 0 6 2 6 0 4 F F 3 E *
```
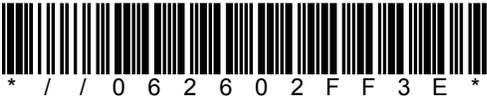
Pharmacode 39 (Code 32)

ENABLE

On

//01101FF3E

<u>Off</u>

//01100FF3E

SEND CHECKSUM

On

//01121FF3E

<u>Off</u>

//01120FF3E

SEND START/STOP

On

//01131FF3E

<u>Off</u>

//01130FF3E

RSS-14 (GS1 DataBar Omnidirectional)

ENABLE

<u>On</u>

//08001FF3E

Off

//08000FF3E

ENABLE RSS-14 to UCC-128

On

//08041FF3E

<u>Off</u>

//08040FF3E

RSS Limited (GS1 DataBar Limited)

ENABLE

<u>On</u>

//08081FF3E

Off

//08080FF3E

ENABLE RSS Limited to UCC-128

On

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖

* / / 0 8 0 C 1 F F 3 E *

Off

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖

* / / 0 8 0 C 0 F F 3 E *

RSS Expanded (GS1 DataBar Expanded)

ENABLE

On

* / / 0 8 1 0 1 F F 3 E *

Off

* / / 0 8 1 0 0 F F 3 E *

ENABLE RSS Expanded to UCC-128

On

* / / 0 8 1 4 1 F F 3 E *

Off

* / / 0 8 1 4 0 F F 3 E *

MINIMUM LENGTH

1

* / / 0 8 2 4 0 1 F F 3 E *

45

* / / 0 8 2 4 4 5 F F 3 E *

15

* / / 0 8 2 4 1 5 F F 3 E *

60

* / / 0 8 2 4 6 0 F F 3 E *

30

* / / 0 8 2 4 3 0 F F 3 E *

74

* / / 0 8 2 4 7 4 F F 3 E *

MAXIMUM LENGTH

1

* / / 0 8 2 5 0 1 F F 3 E *

45

* / / 0 8 2 5 4 5 F F 3 E *

15

* / / 0 8 2 5 1 5 F F 3 E *

6

* / / 0 8 2 5 6 0 F F 3 E *

30

* / / 0 8 2 5 3 0 F F 3 E *

74

* / / 0 8 2 5 7 4 F F 3 E *

Standard 2 of 5

ENABLE

On

//02001FF3E

Off

//02000FF3E

ENABLE AGGRESSIVE DECODING

On

//02011FF3E

Off

//02010FF3E

ENABLE CHECKSUM

On

//02021FF3E

Off

//02020FF3E

SEND CHECKSUM

On

//02031FF3E

Off

//02030FF3E

USE 2-BAR START/STOP

On

//02041FF3E

Off

//02040FF3E

MINIMUM LENGTH

1

//022001FF3E

30

//022030FF3E

6

//022006FF3E

40

//022040FF3E

10

//022010FF3E

50

//022050FF3E

20

//022020FF3E

MAXIMUM LENGTH

1

```
* / / 0 2 2 1 0 1 F F 3 E *
```

30

```
* / / 0 2 2 1 3 0 F F 3 E *
```

10

```
* / / 0 2 2 1 1 0 F F 3 E *
```

40

```
* / / 0 2 2 1 4 0 F F 3 E *
```

20

```
* / / 0 2 2 1 2 0 F F 3 E *
```

50

```
* / / 0 2 2 1 5 0 F F 3 E *
```

READ VERIFICATION

1

```
* / / 0 2 2 2 0 1 F F 3 E *
```

3

```
* / / 0 2 2 2 0 3 F F 3 E *
```

2

```
* / / 0 2 2 2 0 2 F F 3 E *
```

4

```
* / / 0 2 2 2 0 4 F F 3 E *
```

Trioptic

ENABLE

On

```
* / / 0 1 0 8 1 F F 3 E *
```

Off

```
* / / 0 1 0 8 0 F F 3 E *
```

ENABLE AGGRESSIVE DECODING

On

```
* / / 0 1 0 9 1 F F 3 E *
```

Off

```
* / / 0 1 0 9 0 F F 3 E *
```

READ VERIFICATION

1

```
* / / 0 1 2 4 0 1 F F 3 E *
```

3

```
* / / 0 1 2 4 0 3 F F 3 E *
```

2

```
* / / 0 1 2 4 0 2 F F 3 E *
```

4

```
* / / 0 1 2 4 0 4 F F 3 E *
```

UPC-A

ENABLE

On

```
* / / 0 5 0 0 1 F F 3 E *
```

Off

```
* / / 0 5 0 0 0 F F 3 E *
```

ENABLE AGGRESSIVE DECODING

On

```
* / / 0 5 0 1 1 F F 3 E *
```

Off

```
* / / 0 5 0 1 0 F F 3 E *
```

SEND CHECK DIGIT

On

```
* / / 0 5 0 2 1 F F 3 E *
```

Off

```
* / / 0 5 0 2 0 F F 3 E *
```

SEND SYSTEM DIGIT

On

//05031FF3E

Off

//05030FF3E

CONVERT UPC-A TO EAN-13

On

//05041FF3E

Off

//05040FF3E

READ VERIFICATION

1

//052001FF3E

3

//052003FF3E

2

//052002FF3E

4

//052004FF3E

UPC-E

ENABLE SYSTEM DIGIT 0

On

//05081FF3E

Off

//05080FF3E

ENABLE AGGRESSIVE DECODING

On

//05091FF3E

Off

//05090FF3E

SEND CHECK DIGIT

On

//050A1FF3E

Off

//050A0FF3E

SEND SYSTEM DIGIT

On

//050B1FF3E

Off

//050B0FF3E

CONVERT UPC-E TO UPC-A

On

//050C1FF3E

Off

//050C0FF3E

READ VERIFICATION

1

//052201FF3E

3

//052203FF3E

2

//052202FF3E

4

//052204FF3E

UPC/EAN Extensions

ENABLE 2-DIGIT EXTENSIONS

On

```
* / / 0 5 1 C 1 F F 3 E *
```

Off

```
* / / 0 5 1 C 0 F F 3 E *
```

ENABLE 5-DIGIT EXTENSIONS

On

```
* / / 0 5 1 D 1 F F 3 E *
```

Off

```
* / / 0 5 1 D 0 F F 3 E *
```

REQUIRE EXTENSIONS

On

```
* / / 0 5 1 F 1 F F 3 E *
```

Off

```
* / / 0 5 1 F 0 F F 3 E *
```

READ VERIFICATION

1

```
* / / 0 5 2 8 0 1 F F 3 E *
```

3

```
* / / 0 5 2 8 0 3 F F 3 E *
```

2

```
* / / 0 5 2 8 0 2 F F 3 E *
```

4

```
* / / 0 5 2 8 0 4 F F 3 E *
```

Other Controls

BEEPER VOLUME

Off

```
* / / F F 2 0 0 0 F F 3 E *
```

Lowest

```
* / / F F 2 0 0 1 F F 3 E *
```

Medium

```
* / / F F 2 0 0 4 F F 3 E *
```

Highest

```
* / / F F 2 0 0 7 F F 3 E *
```

**Higher
(Increases the current
value one increment
higher)**

* / / F F 2 0 0 8 F F 3 E *

**Lower
(Decreases the current
value one increment lower)**

* / / F F 2 0 0 9 F F 3 E *

NUMBER OF GOOD-READ BEEPS

1

* / / 0 0 2 0 0 1 F F 3 E *

2

* / / 0 0 2 0 0 2 F F 3 E *

3

* / / 0 0 2 0 0 3 F F 3 E *

4

* / / 0 0 2 0 0 4 F F 3 E *

GOOD-READ BEEP TONE

Lowest

* / / 0 0 2 1 0 0 F F 3 E *

Medium

* / / 0 0 2 1 0 3 F F 3 E *

Highest

* / / 0 0 2 1 0 7 F F 3 E *

GOOD-READ BEEP DURATION (IN SECONDS)

0.07

* / / 0 0 2 2 0 0 F F 3 E *

0.13

//022001FF3E

0.18

//002202FF3E

0.36

//002203FF3E

Long Range Trigger Mode

Spot Timeout

//00000FF3E

Release Scan

//00001FF3E

Spotting Beam Enable

On

//00011FF3E

Off

//00010FF3E

Spotting Beam Timeout

0.25

//002300FF3E

0.5

//022001FF3E

1.0

//002302FF3E

1.5

```
* / / 0 0 2 3 0 3 F F 3 E *
```

2.0

```
* / / 0 0 2 3 0 4 F F 3 E *
```

Release Scan Timeout (IN SECONDS)

1

```
* / / 0 0 2 4 0 1 F F 3 E *
```

2

```
* / / 0 0 2 4 0 2 F F 3 E *
```

3

```
* / / 0 0 2 4 0 3 F F 3 E *
```

5

```
* / / 0 0 2 4 0 5 F F 3 E *
```

10

```
* / / 0 0 2 4 1 0 F F 3 E *
```

SEND SYMBOLOGY IDENTIFIERS

Off

```
* / / 0 0 2 5 0 0 F F 3 E *
```

DLM IDs

```
* / / 0 0 2 5 0 1 F F 3 E *
```

AIM IDs

```
* / / 0 0 2 5 0 2 F F 3 E *
```

User IDs

```
*  /  /  0  0  2  5  0  3  F  F  3  E  *
```

LABEL PREFIX

(CR)

```
*  /  /  0  0  2  6  $  M  F  F  3  E  *
```

(TAB)

```
*  /  /  0  0  2  6  $  I  F  F  3  E  *
```

None

```
*  /  /  0  0  2  6  %  U  F  F  3  E  *
```

LABEL SUFFIX

(CR)

```
*  /  /  0  0  2  7  $  M  F  F  3  E  *
```

(TAB)

```
*  /  /  0  0  2  7  $  I  F  F  3  E  *
```

None

```
*  /  /  0  0  2  7  %  U  F  F  3  E  *
```

NOTES

Appendix G
Glossary

Many definitions for this Glossary were taken directly from the Microsoft Developer's Network website at http://msdn.microsoft.com/library/default.asp.

1D barcode	A traditional linear barcode. The code itself contains no information about the item to which it is assigned but represents a string of identifying numbers or letters.
2D barcode	Two-dimensional (2D) barcodes permit the encoding of information about an item in addition to an identifying code. Two axes, or directions, are used for recording and reading the codes and the bar size is reduced, increasing the space available for data.
4-way rocker key	Refer to "navigation key".
active notification	The state of a user notification from the time the user is notified until the user handles the event.
active window	The window in which a user is currently working or directing input. An active window is typically on top of the Z order and is distinguished by the color of its title bar.
ActiveSync	Microsoft Windows Communication application that synchronizes a Windows device with a Microsoft Windows-based host PC. ActiveSync can use RS-232, USB, and Wireless networks.
AP	Access Point used for RF applications.
ASCII	American Standard Code for Information Interchange; a code for information exchange between computers made by different companies; a string of 7 binary digits represents each character; used in most microcomputers. Any member of the standard code for representing characters by binary numbers. Refer to Table 14 on page E-71.
AutoCAB	The AutoCAB program allows the Pegaso to automatically reinstall selected applications when the terminal is cold reset. When the Pegaso is rebooted, the AutoCAB program runs automatically and determines if it is a warm or cold reset.
AutoCE	The AutoCE program allows the user to create a list of applications to run when the Pegaso is rebooted. Each application may be designated to run only on a cold reset, or on both warm and cold resets. The applications run sequentially, allowing interdependencies to be handled.

Batch units	Batch Pegaso units are synchronized and updated using Microsoft ActiveSync software and a dock for communication with the host PC.
Bluetooth	A short-range radio technology for Internet and mobile devices, is litle aimed at simplifying communications among them.
calibration	You may need to calibrate the touch screen. One way to know that the touch screen needs to be calibrated is that you will notice that when you attempt to select one item with the stylus, another item is erroneously selected.
checksum	A number used to verify the contents of a data file. This number is generated by calculating the contents of the data. If the calculated checksum is different from the expected checksum, the data has errors in it.
CLSI	CLSI, Inc., developer of the "LIBS 100 scanning and decoding system". The ""Convert to CLSI"" parameter refers to formatting a Codabar barcode label in the manner defined by CLSI, Inc.
command band	A rebar control with a fixed band at the top that contains a toolbar with a **Close** (X) button, an **OK** button, and optionally a **Help** (?) button in the upper right corner.
command bar	A control window that can contain buttons, combo boxes, and menu bars. Windows–based applications can use a command bar rather than a separate menubar and toolbar to efficiently use available screen space.
CompactFlash	A CompactFlash (CF) card is a popular memory card developed by SanDisk in 1994 that uses flash memory to store data on a very small card.
Concatenate	To arrange (strings of characters) into a connected list.
control	A standardized part of the window that can be manipulated by the user to perform an action or display information. The most common controls are buttons that allow the user to select options and scroll bars that allow the user to move through a document or position text in a window.
context sensitive help	Tap "**?**" to open a help dialog about the specific windows application you are using. Context sensitive help can tell where you are in a program and can provide assistance with the specific problems you might be having.
control panel	Control Panels are several different applets that allow you to configure the Pegaso to meet your specific requires. There are control panels for scanning, keyboard, display, etc. Access the control panels at **Start > Settings > Control Panel.**
device manager	A tool to track all loaded device drivers and their interfaces. It issues notification of the appearance, disappearance of device interfaces, loads and tracks drivers by reading and writing registry values, and unloads drivers when their devices are no longer needed.
device partnership	A registry key on a "Windows CE" device that a desktop computer uses to identify the device when it is connected. The key defines values for synchronization, file conversions, and backup and restore information, which enable multiple "Windows CE" devices to connect to the same desktop computer. A device partnership is created the first time you connect a "Windows CE" device to a host PC.

embedded	Broadly, software code or commands built into a device, as opposed to software that is added. In a narrower sense, code that is typically stored in ROM and dedicated to either controlling a device or providing a specific functionality.
firmware	Operating System on the Pegaso.
FlashFX	Persistent Flash Memory management system made by Datalight™. Data in the flash memory is retained when a battery pack is fully discharged. The backup battery must be charged to retain flash memory.
Falcon Desktop Utility (FDU)	Falcon® Desktop Utility (FDU) allows Datalogic Mobile Windows® administrators to configure Pegaso PDAs to control individual user access.
Firmware Update Utility (FUU)	A Datalogic Windows-based field upgradeable firmware mechanism. Use the Firmware Update Utility (FUU), described starting on page 3-24, to install or update the firmware using an "ActiveSync" connection.
GPRS	General Packet Radio Services (GPRS) is a packet-based wireless communication service that promises data rates from 56 up to 114 Kbps and continuous connection to the Internet for mobile phone and computer users. GPRS is based on Global System for Mobile (GSM) communication and complements existing services.
GSM	GSM (Global System for Mobile communication) is a digital mobile telephony system. GSM uses a variation of time division multiple access (TDMA) and is the most widely used. GSM digitizes and compresses data, then sends it down a channel with two other streams of user data, each in its own time slot.
gripper bar	A gripper bar is a tall, thin rectangle with a dark stripe running through it that appears on a rebar or a command band control. By touching and dragging a gripper bar with a stylus, a user can reposition a rebar or command bar. Gripper bars are especially useful for bringing off-screen rebar or command bar controls into view.
host PC system	PC using the Microsoft Windows operating system and "ActiveSync".
Infrared Data Association	The industry organization of computer, component, and telecommunications vendors who have established the standards for infrared communication between computers and peripheral devices such as printers. Windows supports the IrDA standard through the Winsock API. Windows–based applications that communicate over serial cables using the Winsock API communicate over IrDA-compliant infrared links with only minimal reprogramming.
input method (IM)	A component that allows the user to input text using a touch screen.
input panel	Refer to "soft input panel (SIP)".
ISBN	International Standard Book Number. A unique number assigned to each book to allow ease of ordering from any source: local bookstore, online book dealers, or directly from the publisher. The ISBN number is usually printed on the back cover of a book near the barcode, but can also appear within the book.
ISSN	International Standard Serial Number. An ISSN consists of eight digits comprising two groups of four digits each, separated by a hyphen. The eighth digit is a check digit used as a computer validity check; it consists of a number between 0 and 9 or an uppercase X (for the arabic numeral 10).

MIB (Management Information Base)	A Management Information Base (MIB) is a file that defines a set of "SNMP (Simple Network Management Protocol)" variables, their types and usage. There are a number of standard MIBs available, depending on the information being managed. The MIB is used by the management tools to allow them to better support the configuration values provided on the terminals, such as scanner controls and terminal type information.
mounted file system	A file system located on a removable medium, such as a PC Card storage device. The operating system loads, or mounts, the file system when the medium is inserted into the device. It unloads, or unmounts, the file system when the medium is removed or when the user issues a command to do so.
navigation key	A large navigation button (4-way rocker key) on the keypad with 4 arrows: pointing up, down, left, and right that allows the user to move the cursor or highlighted text entry during menu selection. Press and release one edge of the key to move the display screen one line or one character in the direction of the arrow.
Network ID	Here used to mean that you should configure the Windows user settings, such as the user name, password, and domain name. Microsoft's definition includes some wireless network IDs as equivalent to SSIDs.
non-persistent state	A non-persistent state affects only the next keypress. FN state is a non-persistent state.
object store	The persistent storage that Windows makes available to applications. For example, Windows reserves part of its available RAM for the operating system and uses the rest for the object store. This data can be stored in files, registry entries, or Windows databases.
portable data assistant (PDA)	A handheld Windows-based (Pocket-PC or Windows) computer that can be synchronized with a host PC to share files and data. Sometimes contains an infrared device to beam information to another unit.
portable data terminal (PDT)	An industrial strength handheld computer with a keypad, navigation keys, and a barcode scanner used in inventory, retail, and warehouse activities to collect data and upload it to a host PC.
Persistent Memory	Persistent Memory is the Pegaso's flash application and file storage area. The persistent storage memory persists across all reset (warm/cold reboot) conditions and software / firmware updates.
persistent state	A state which is maintained after releasing a key. Alpha mode is a persistent mode. Also called a "sticky" state. A persistent state must be turned off by pressing the key again.
PRG	Product Reference Guide.
program memory	Memory that is used for stack and heap storage for both system and nonsystem applications. Nonsystem applications are taken from storage memory, uncompressed, and loaded into program memory for execution.
RF card	A small card-shaped device installed in a Pegaso that allows wireless connection and communication with a network.
QSG	Quick Start Guide.

RAM (random access memory)	You can add applications and data files to RAM or into Flash memory via the "FlashFX" Disk. While Flash memory is persistent (as long as the backup battery is charged), RAM is not and will be cleared when you remove or replace the battery. As you can only suspend the device, the only way to turn it fully off is to remove the battery or to perform a cold reset.
ROM (read only memory)	The operating system ("Windows CE") and applications are pre-installed on ROM and cannot be removed or modified. These applications are persistent.
rebar	A command bar with a gripper bar.
remote access server (RAS)	A feature that connects a device to a host computer. Windows can connect to a remote access server using direct serial, infrared, and dial-up connections. Windows supports the standard Microsoft Win32 RAS functions; however, it allows only one connection at a time. RAS functions can be implemented for direct serial connections or dial-up modem connections.
RTC	Real Time Clock on the PC.
Secure Digital (SD) Card	A Secure Digital (SD) card is a tiny memory card used to make storage portable among various devices. It features a high data transfer rate and low battery consumption. An SD card is about the size of a postage stamp and weighs approximately two grams.
shortcut menu	A menu that is displayed for a selected object. The menu contains commands that are contextually relevant to the selection.
SNMP (Simple Network Management Protocol)	SNMP is the standard protocol for managing devices on a network. Simple Network Management Protocol (SNMP) is a standardized protocol for network management services using a client/server model. The network management program (client) issues queries and commands to the remote device
soft input panel (SIP)	Click on the **Keyboard** icon in the system tray to open the **SIP**. Use this virtual QWERTY keyboard like you would a computer's keypad to enter alpha numeric and symbols in the current application.
splash screen	An initial screen displayed by software, usually containing a logo, version information, author credits, or a copyright notice.
start	The start button opens the Start menu. The Start menu contains a list of the resident applications, applets, and utilities available to the user.
status bar	An area that displays state information for the content in the window, typically placed at the bottom of a window.
status icons	A graphic representation of the status of a feature or function.
stylus	The stylus is the equivalent of a mouse on the Pegaso. Use the stylus on a touch-sensitive display. Only a plastic tipped stylus should be used on a touch-sensitive display. Use the stylus to navigate the "touchscreen display", select characters in the soft input panel (SIP), select applications from the desktop or system tray, select tabs, fields and text within applications and dialog boxes.
suspend mode	The Pegaso will go into a suspend or sleep mode when it is idle for a period of time. Suspend mode works and looks just like you have turned the unit off. Press **<Power>** to suspend (put to sleep) the Pegaso. Press **<Power>** again for the Pegaso to resume its previous state.

Symbology	A symbology is a protocol for arranging the bars and spaces that make up a particular kind of barcode. A barcode is made up of numbers, letters, and computer-recognized characters that can be represented in a combination of bars and spaces. There is not one standard barcode; there are currently over 400 barcode symbologies that serve different uses, industries, or geographic needs.
system tray	An area of the display screen located at the bottom, within the Task bar that displays status icons and symbols.
system tray keyboard Indicators	The System Tray Keyboard Indicators are located at the bottom of the display in the "task bar" and contain "status icons" and symbols indicating open features and active applets.
task bar	The Task bar at the bottom of the screen displays the "start" icon, an icon for the active program, an icon for the current character, the current time, and system icons for utilities loaded in memory, including the keyboard icon, which opens and closes the "soft input panel (SIP)".
touchscreen display	A graphical computer interface display screen that allows the user to enter and select items with a "stylus".
Tracert	Trace Route. A utility/command to determine TCP/IP packet routing.
Uniform Resource Locator (URL)	The address of a resource on the Internet. URL syntax is in the form *protocol://host/localinfo*, where *protocol* specifies the means of returning the object, such as HTTP or FTP. *Host* specifies the remote location where the object resides and *localinfo* is a string, often a file name, passed to the protocol handler at the remote location. *Also called* a Uniform Resource Identifier.
USB	Universal Serial Bus is a protocol for connecting PCs with peripheral devices, including PDTs, PDAs, Pegaso mobile computers, cameras, printers, mice, scanners, etc.
Web Server	The web server can perform several different actions, including generating a web page containing statistics relating to performance of the mobile computer and creating an interface for interaction with the terminal to configure system behavior.
Wi-Fi	Wi-Fi (short for "wireless fidelity") is a term for certain types of wireless local area network (WLAN) that use specifications in the 802.11 family.
Windows CE	As per Microsoft, Windows CE combines an advanced real-time embedded operating system with the most powerful tools for rapidly creating the next generation of smart, connected, and small-footprint devices.
XPING	XPing is a protocol that sends a message to another computer and waits for acknowledgment, often used to check if another computer on a network is reachable.

Index

NOTES

NOTES

NOTES

Corporate Headquarters
Datalogic S.p.A.
Via Candini, 2
40012 Lippo di Calderara di Reno
Bologna - Italy
Telephone: +39 051 3147011
Fax: +39 051 726562

✛DATALOGIC™

www.mobile.datalogic.com

Datalogic Mobile, Inc.
1505 Westec Dr.
Eugene, OR 97402
USA
Telephone: (541) 743-4800
Fax: (541) 743-4900