Preliminary Draft 1/19/11 Honeywell

Dolphin[™] 99EX Mobile Computer

with Windows[®] Embedded Handheld 6.5

User's Guide

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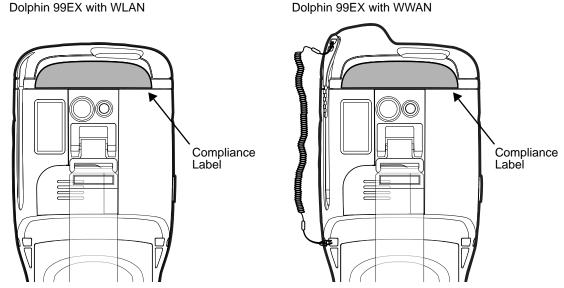
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Preliminary Draft 1/19/11 Agency Information

Dolphin 99EX mobile computers meet or exceed the requirements of all applicable standards organizations for safe operation. However, as with any electrical equipment, the best way to ensure safe operation is to operate them according to the agency guidelines that follow. Read these guidelines carefully before using your mobile computer.

Laser Safety

Label Locations



Laser Safety Label

If the following label is attached to your product, it indicates the product contains an engine with a laser aimer:

Image Engines with Integrated Laser Aimers



Laser Eye Safety Statement

This device has been tested in accordance with and complies with IEC60825-1(Ed. 2.0), EN60825-1:2007. Complies with 21 CFR 1040.10 and 1040.11, except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007. LASER LIGHT, DO NOT STARE INTO BEAM. CLASS 2 LASER PRODUCT, 1.0 mW MAX OUTPUT: 650nm, pulse duration of 15.5msec, and pulse repetition rate of 32.25 Hz.

Caution! Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

LED Safety

LED Safety Statement

LEDs have been tested and classified as "EXEMPT RISK GROUP" to the Standard: IEC 62471:2006.

Infrared LED Safety Statement

Caution! Do not view directly with optical instruments.

UL and C-UL Statement

UL and C-UL listed: UL60950-1 2nd Edition, and CSA C22.2 No. 60950-1-07 2nd Edition, ISA 12.12.01:2007, CAN/CSA: C22.2 No. 213-M1987.

Approvals by Country

Country	EMC, Radio, & SAR	Safety
U.S.A.	FCC Part 15, Subpart B FCC Part 15, Subpart C, 15.247 FCC Part 15, Subpart E FCC Part 22H FCC Part 24E FCC SAR OET 65 Supplement C	UL60950-1, 2nd Edition
Canada	ICES-003 (Class B) RSS 132 RSS 133 RSS 210	CSA C22.2 No. 60950-1-07, 2nd Edition
European Community/CE	EN300328, EN301893, EN55022, EN55024, EN301489-1, EN301489-7/24, EN301489-17, 3GPPTS 51.010-1, EN301511, EN301908, EN50360, EN50361, EN50371, EN50392, IEC6220-1, IEC6220-2, EN300440, 301 389- 25 (CDMA 2000)	EN60950-1, 2nd Edition EN60825-1, 2nd Edition

R&TTE Compliance Statement—802.11a/b/g/n, Bluetooth, and/or GSM

Dolphin RF terminals are in conformity with all essential requirements of the R&TTE Directive (1999/5/EC).

This product is marked with **CE0682** in accordance with the Class II product requirements specified in the R&TTE Directive. In addition, this product complies to 2006/95/EC Low Voltage Directive when supplied with the recommended power supply. Honeywell shall not be liable for use of our product with equipment (i.e., power supplies, personal computers, etc.) that is not CE marked and does not comply with the Low Voltage Directive.

The equipment is intended for use throughout the European Community; PAN European Frequency Range: 2.402–2.480 GHz. Restrictions for use in France are as follows:

- Indoor use: Maximum power (EIRP*) of 100 mW for the entire 2.400-2.4835 GHz
- Outdoor use: Maximum power (EIRP*) of 100 mW for the 2.400–2.454 GHz band & maximum power (EIRP*) of 10 mW for the 2.454–2.483 MGHz band.
- 5Ghz band: UNII (Unlicensed National Information Infrastructure) or band1 (5.150 to 5.250 GHz) is restricted to indoor use only. Any other use will make the operation of the device illegal.

For further information, please contact:

Honeywell Scanning & Mobility Europe BV Nijverheidsweg 9 5627 BT Eindhoven The Netherlands

FCC Requirements

Dolphin RF Terminal—802.11a/b/g/n, Bluetooth, and/or GSM

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

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

In accordance with FCC 15.21, changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet helpful: "Something About Interference." This is available at FCC local regional offices. Our company is not responsible for any radio or television interference caused by unauthorized modifications of this equipment or the substitution or attachment of connecting cables and equipment other than those specified by our company. The correction is the responsibility of the user. Use only shielded data cables with this system.

Canadian Compliance

This Class B digital apparatus complies with Canadian ICES-003 and RSS210. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference.
- 2. This device must accept any interference received, including interference that may cause undesired operation.

Conformité à la règlementation canadienne

Cet appareil numérique de la Classe B est conforme à la norme NMB-003 et RSS210 du Canada. Son fonctionnement est assujetti aux conditions suivantes:

- 1. Cet appareil ne doit pas causer de brouillage préjudiciable.
- 2. Cet appareil doit pouvoir accepter tout brouillage reçu, y compris le brouillage pouvant causer un fonctionnement indésirable.

RF Exposure Information (SAR)

This mobile phone meets the government's requirements for exposure to radio waves. This phone is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6W/kg. *Tests for SAR are conducted using standard operating positions accepted by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the poser required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

The highest SAR value for the model phone as reported to the FCC when tested for use at the ear is <u>N/A_W/kg</u> and when worn on the body, as described in this user guide, is <u>0.412_W/kg</u> (Body-worn measurements differ among phone models, depending upon available accessories and FCC requirements.)

While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement.

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of www.fcc.gov/oet/ea/fccid after searching on FCC ID: <u>HD599EXLG</u>.

For body worn operation, this phone has been tested and meets the FCC RF exposure guidelines for use with an accessory that contains no metal and the positions the handset a minimum of 1.5 cm from the body. Use of other accessories may not ensure compliance with FCC RF exposure guidelines. If you do no t use a body-worn accessory and are not holding the phone at the ear, position the handset a minimum of 1.5 cm from your body when the phone is switched on.

For European Community Users

Honeywell complies with Directive 2002/96/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 27 January 2003 on waste electrical and electronic equipment (WEEE).

Waste Electrical and Electronic Equipment Information

This product has required the extraction and use of natural resources for its production. It may contain hazardous substances that could impact health and the environment, if not properly disposed.

In order to avoid the dissemination of those substances in our environment and to diminish the pressure on the natural resources, we encourage you to use the appropriate take-back systems for product disposal. Those systems will reuse or recycle most of the materials of the product you are disposing in a sound way.

The crossed out wheeled bin symbol informs you that the product should not be disposed of along

with municipal waste and invites you to use the appropriate separate take-back systems for product disposal.

If you need more information on the collection, reuse, and recycling systems, please contact your local or regional waste administration.

You may also contact your supplier for more information on the environmental performances of this product.

Pacemakers, Hearing Aids and Other Electrically Powered Devices

Most manufacturers of medical devices adhere to the IEC 601-1-2 standard. This standard requires devices to operate properly in an EM Field with a strength of 3V/m over a frequency range of 26 to 1000MHz. The maximum allowable field strength emitted by the Dolphin terminal is 0.3V/m according to Subpart B of Part 1 of the FCC rules. Therefore, the RF from the Dolphin terminal has no effect on medical devices that meet the IEC specification.

Microwaves

The radio in the Dolphin RF terminal operates on the same frequency band as a microwave oven. Therefore, if you use a microwave within range of the Dolphin RF terminal you may notice performance degradation in your wireless network. However, both your microwave and your wireless network will continue to function.

Preliminary Draft 1/19/11 **Getting Started**

Out of the Box

Verify that the carton contains the following items:

- Dolphin 99EX mobile computer (the terminal)
- Main battery pack (i.e., standard 3.7V Li-poly or extended 3.7V Li-ion)
- Quick Start Guide

Note: If you ordered accessories for your terminals, verify that they are also included with the order.

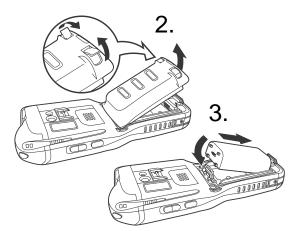
Be sure to keep the original packaging in the event that the Dolphin terminal should need to be returned for service. For details, see Product Service and Repair on page 19-1.

Step 1. Install the Main Battery Pack

The 99EX is shipped with the battery packaged separate from the unit. Follow the steps below to install the main battery.

- Release the hook securing the hand strap to the 1. back panel of the terminal near the speaker.
- 2. Remove the battery door by lifting up the latches near the base of the battery door.
- Insert the battery into the battery well. 3.
- 4. Replace the battery door. Apply pressure to engage the door latch.

Note: The battery door must be installed prior to powering the unit.



5. Reattach the hand strap.

battery packs. Use of any non-Honeywell battery may result in damage not covered by the warranty.

Step 2. Charge the Main and Backup Batteries

We recommend use of Honevwell Li-polv or Li-Ion

The power supply for Dolphin terminals consists of two types of battery power: the main battery pack that is accessible from the back panel, and the backup battery that resides inside the terminal.

The main battery powers the terminal. The internal backup battery charges off the main battery and maintains the application data stored in RAM memory for up to 30 minutes when the terminal's main battery pack is completely discharged or removed.

Battery Error Notification

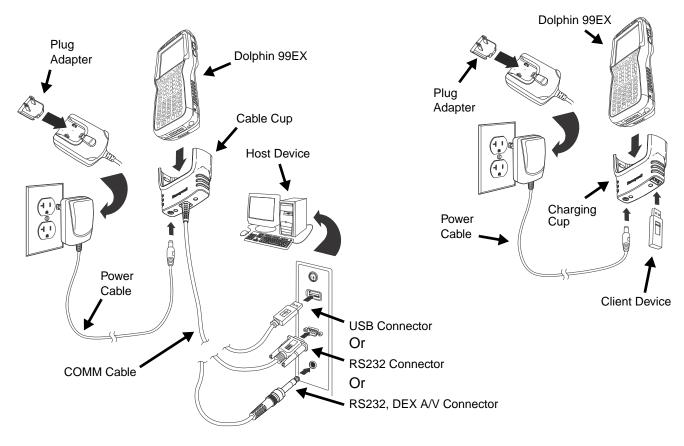
If your terminal displays the following indicators, replace the main battery pack with a Honeywell Li-poly or Li-ion battery pack.

- e appears in the Title bar at the top of the touch screen
- The General Notification LED flashes red
- A Notification appears on the Tile bar at the bottom of the touch screen

We recommend use of Honeywell peripherals, power cables, and power adapters. Use of any non-Honeywell peripherals, cables, or power adapters may cause damage not covered by the warranty.

Before Initial Use

Terminals are shipped with both batteries discharged of all power. The initial charging time for the main battery pack is 4.5 hours for the standard 3.7V battery or 6 hours for the extended 3.7V battery. Connect the terminal to one of the 99EX series charging peripherals to charge; see Peripherals for the 99EX on page 3-2. Honeywell recommends charging the Dolphin terminal for at least 24 hours prior to initial use to ensure the internal backup battery is fully charged.



Using the Charging/Communication Cables

Step 3. Boot the Terminal

The terminal begins booting as soon as power is applied. Do NOT press any keys or interrupt the boot process. When the boot process is complete, the Home screen appears, and the terminal is ready for use.

Note: The Home screen appears several times during the boot process. To ensure the boot process is complete, wait several seconds before using the device.

Step 4. Set the Time Zone, Time, and Date

On the Home screen, tap the line that displays the time and date.



The Clock Settings screen appears.

Clock & Alarms ⓐ 💭 ┥× Œ 2:59	Clock & Alarms ⓐ 📰 ◀× Œ 2:59
Alarms 🔇 Time 💙 Alarms	Alarms 🤇 Time 💙 Alarms
Time Zone:	Time Zone:
G GMT-5 Eastern US	GMT-5 Eastern US
GMT-5 Indiana (USA)	Date:
GMT-5 Bogota,Lima	7 / 29 / 2010 🔻 🗲
T GMT-4:30 Caracas	Time:
GMT-4 Atlantic	2 : 59 : 30 PM 🔺 🔻 🗲
u	
	(1) (0K)

Tap the arrow to the right of the time zone to open the drop down menu. Select the appropriate time zone from the menu. Set the correct time and date in the remaining fields and tap **OK** to save.

Home Screen

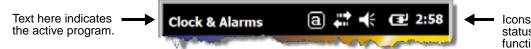
After the Dolphin terminal initializes the first time, you see the Home screen.



You can also display the Home screen anytime by tapping 🥹.

Title Bar

The Title bar, located at the top of the screen, displays the active program, the status of various system functions, and the current time. Tapping on the title bar provides access to the Horizontal Scroll. The scroll provides access to additional programs and application screens. For additional information, see Horizontal Scroll on page 2-7.



Icons here indicate the status of various system functions.

Note: Tapping the battery icon at the top of the screen does not open the Power applet with this version of Microsoft Windows Embedded Handheld. Windows Embedded Handheld

Indicator	Meaning
6	Synchronizing data
G	The terminal could not synchronize data with the workstation via ActiveSync.
X	New e-mail

Icons in the Title Bar

Icons in the Title Bar

Indicator	Meaning
3	New text message
	New voicemail
2	New instant message
e	Vibrate on
- 4×	Ringer off
٤	Speakerphone on
ផា	Voice call in progress
6	Calls are forwarded
<u>.</u>	Call on hold
Ų	Missed call
訕	Data call in progress
0	A battery error has occurred. Replace the main battery pack with a Honeywell Li-poly or Li-ion battery pack.
œ	Battery is has a full charge
m	Battery has a high charge
Œ	Battery has a medium charge
	Battery has a low charge
다.	Battery has a very low charge and requires charging
œ	Terminal is running on external power. If a battery pack is installed, the battery is charging in the background.
ď	The terminal is not connected to external power. A battery is installed, but is defective; specifically, its charge level cannot be measured.
പ	No SIM card is installed
÷*	Active network connection

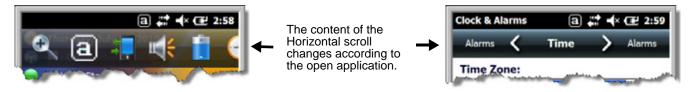
Icons in the Title Bar

Indicator	Meaning
€ **	No active network connection
G	GPRS available
⊴ _+	GPRS connecting
	GPRS in use
H	HSDPA available
₽ +	HSDPA connecting
.	HSDPA in use
E	EDGE available
E	EDGE connecting
91	EDGE in use
3G	UMTS available
	UMTS connecting
	UMTS in use
ሯ	Radio is off
Y	The radio is not connected to a network.
34	The radio is connected. The bars indicate the signal strength.
Y	No radio signal
Y.	The terminal is searching for a signal.
1	Wi-Fi is on, but device is not connected
P	Wi-Fi data call
A	Pending alarm
8	Bluetooth

Horizontal Scroll

The Horizontal Scroll, located at the top of most application windows, provides access to additional application screens. You can flick left or right on the scroll or tap each label on the scroll, until you get to the desired screen. Tapping a label to the left or right of the center item brings new labels into view.

Note: Tap the Title bar to access the horizontal scroll if it is not visible on the screen.



Tile Bar

The Tile bar is located at the bottom of application windows.



Pop-Up Menus

With pop-up menus, you can quickly choose an action for a selected item. To access a pop-up menu, tap and hold the stylus on the item name of the action you want to perform. When the menu appears, lift the stylus, and tap the action you want to perform.



Tap anywhere outside the menu to close the menu without performing an action.

Selecting Programs

To see the programs loaded on your terminal, tap *w* to access the Start Menu. To open a program, tap once on the program icon. To reposition an icon on the Start Menu, tap and hold the stylus on the icon, and then drag the icon to the desired position.

File Explorer

You can also use the File Explorer to find files and organize these files into folders.



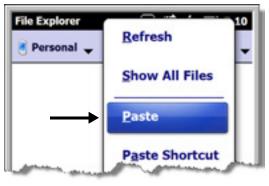
Tap the **Up** button at the bottom of the screen to move up one level in the directory.



You can move files in File Explorer by tapping and holding on the item you want to move, and then tapping **Cut** or **Copy** on popup menu.



Navigate to the folder you want to move the file to, and then tap and hold a blank area of the window. Tap **Paste** on the pop-up menu.



Note: If there is no blank space available in the window, tap **Menu** on the command bar, navigate to the end of the menu using the down arrow, and then tap **Edit** > **Paste**.



Search

The Search feature helps you quickly locate information. Tap 🧐 > Search Phone 🖳

Enter the text you want to find, select a data type, and then tap **Go** to start the search. Select **Larger than 64 KB** in the **Type** drop-down field to quickly find information that is taking up storage space.

Hardware Overview

Standard Configurations for the 99EX

WLAN & WPAN

- Microsoft Windows Embedded Handheld 6.5 Classic
- OMAP3715 (1Ghz)
- 256MB RAM X 1GB Flash
- Four keyboard options
- 3.7V Li-poly or extended 3.7V Li-ion rechargeable battery pack
- Adaptus Imaging Technology: N5603ER/ SR/HD or N5600ER/SR/HD image engines
- 802.11a/b/g/n and Bluetooth

WLAN, WPAN, with GPS

- Microsoft Windows Embedded Handheld 6.5 Classic
- OMAP3715 (1Ghz)
- 256MB RAM X 1GB Flash
- Four keyboard options
- 3.7V Li-poly or extended 3.7V Li-ion rechargeable battery pack
- Adaptus Imaging Technology: N5603ER/ SR/HD or N5600ER/SR/HD image engines
- 802.11a/b/g/n and Bluetooth
- GPS
- 3.1 megapixel auto control color camera

WLAN, WPAN, & WWAN

- Microsoft Windows Embedded Handheld 6.5 Professional
- OMAP3715 (1Ghz)
- 256MB RAM X 1GB Flash
- Four keyboard options
- 3.7V Li-poly or extended 3.7V Li-ion rechargeable battery pack
- Adaptus Imaging Technology: N5603ER/ SR/HD or N5600ER/SR/HD image engines
- 802.11a/b/g/n, Bluetooth, and GSM/ HSPA+ or GSM/CDMA

WLAN, WPAN & Camera

- Microsoft Windows Embedded Handheld 6.5 Classic
- OMAP3715 (1Ghz)
- 256MB RAM X 1GB Flash
- Four keyboard options
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WLAN, WPAN, WWAN with GPS & Camera

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- OMAP3715 (1Ghz)
- 256MB RAM X 1GB Flash
- Four keyboard options
- 3.7V Li-poly or extended 3.7V Li-ion rechargeable battery pack
- Adaptus Imaging Technology: N5603ER/SR/HD or N5600ER/SR/HD image engines
- 802.11a/b/g/n, Bluetooth, and GSM/HSPA+ or GSM/CDMA
- GPS
- 3.1 megapixel auto control color camera

Some configurations of the 99EX terminal are available with an external housing made of plastic that is specifically designed for the healthcare industry. For more information, see Healthcare Housing on page 3-12.

Peripherals for the 99EX

Each of the following items is sold separately to enhance the capabilities of your Dolphin terminal.

Dolphin 99EX HomeBase[™] Device

The Dolphin 99EX HomeBase device is a charging and communication cradle supporting both RS232 and USB communications, which enables the terminal to interface with the majority of PC-based enterprise systems. This device also contains an auxiliary battery well that charges a spare Honeywell Li-poly or extended Li-ion battery.

For more information, see Dolphin 99EX HomeBase Device on page 12-1.

Dolphin 99EX Mobile Base[™] Device

The Dolphin 99EX Mobile Base device is a charging and communication cradle designed specifically for in-premise and in-transit data collection applications. It features a flexible mounting bracket and a cigarette lighter adapter to adapt it to your environment.

The serial connector supports RS232 communication and power out to peripheral devices, such as handheld scanners. The USB connector is a high-speed 2.0v compliant host port. Using a USB cable, you can connect the base to a peripheral device, such as a memory stick or printer.

For more information, see Dolphin 99EX Mobile Base Device on page 14-1.

Dolphin 99EX eBase[™] Device

The Dolphin 99EX eBase device enables a single 99EX mobile computer to commuicate with a host device over USB and Ethernet network. This device also contains an auxiliary battery well that charges a spare Honeywell Li-poly or extended Li-ion battery.

For more information, see Dolphin 99EX eBase Device on page 13-1.

Dolphin 99EX Net Base[™] Device

The Dolphin 99EX Net Base device enables up to four 99EX mobile computers to communicate with a host device over an Ethernet network. In addition, the Net Base provides a second RJ45 Ethernet port for connection to an additional device such as a printer, workstation, eBase, or another Net Base.

For more information, see Dolphin 99EX Net Base Device on page 16-1.

Dolphin 99EX Net Rack[™] Device

The Dolphin 99EX Net Rack device enables up to thirty 99EX mobile computer to communicate with a host device over an Ethernet network.

For more information, please consult the Dolphin 99EX Net Rack and Charge Rack User's Guide.

Dolphin 99EX ChargeBase

The Dolphin 99EX ChargeBase is a 4-slot charging cradle that holds, powers, and charges terminals. For more information, see Dolphin 99EX ChargeBase Device on page 15-1.

Dolphin 99EX ChargeRack[™] Device

The Dolphin 99EX Charge Rack device is a 30-slot charging rack that holds, powers, and charges terminals.

For more information, please consult the Dolphin 99EX Net Rack and Charge Rack User's Guide.

Dolphin 99EX QuadCharger[™] Device

The Dolphin 99EX QuadCharger device is a 4-slot charging station for 99EX standard Li-poly or extended Li-ion battery packs.

For more information, see Dolphin 99EX QuadCharger Device on page 17-1.

Accessories for the 99EX

Each of the following items is sold separately to enhance your terminal's capabilities.

Note: When using accessories where the terminal is worn on the body, the terminal's touch panel must face away from the body.

Dolphin 99EX Mobile Charger

The Dolphin 99EX Mobile Charger is a charging cable that connects the terminal directly to a 12 Volt DC power source, such as a cigarette lighter port inside a vehicle, eliminating the need for a cradle. Intelligent battery technology on-board the terminal ensures proper charging. The Dolphin 99EX Mobile Charger is an ideal low-cost charging solution for in-transit mobile applications.

Dolphin 99EX Mobile Mount

The Dolphin 99EX Mobile Mount, which holds a Dolphin terminal securely in place inside a vehicle, is an ideal, low-cost alternative to the Dolphin 99EX Mobile Base when communications is not required. When used in conjunction with the Dolphin 99EX Mobile Charger, the Dolphin 99EX Mobile Mount creates a complete mounting and charging solution for in-transit applications. The entire kit includes an adjustable vehicle mounting bracket.

Communication/Charging Cables

Dolphin communication/charging cable kits are an all-in-one solution for mobile applications. Each cable kit powers the terminal, charges its main battery, and communicates with host or peripheral devices without the need for a cradle. Cable kits can support RS232 or USB communications and are available with U.K. or European power cords.

Protective Holster

Holsters provide convenient storage for terminals and protect them from damage in mobile environments. The holster features a front pocket that holds an extra battery, a side pocket to hold an extra stylus, and a belt loop to secure the holster to a belt.

Protective Enclosure

Protective enclosures help seal and protect terminals from damage while providing full access to all terminal parts and features. These enclosures feature a swivel clip on the back that enables you to secure the enclosure to a belt. Enclosures also come with an adjustable shoulder strap for added convenience.

Stylus Kits

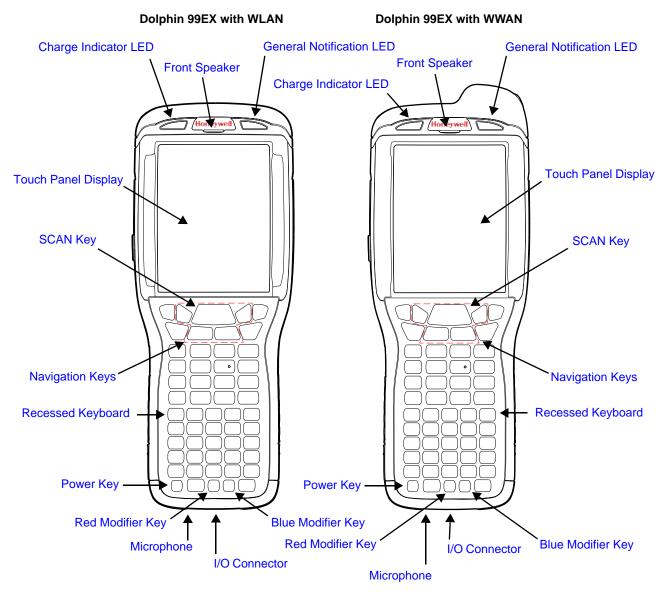
There are two stylus kits for each terminal type: one contains three styli and the other includes additional coiled tethers to secure the stylus to the terminal, which helps prevent loss.



Battery Pack

The rechargable battery pack (i.e., standard 3.7V, 3060mA Li-poly or extended 3.7V, 5000mA Li-ion) provides the main power for the terminal. For more information, see Batteries on page 3-13.

Front Panel: 99EX



Note: The illustrations above show the 55-Key Full Alpha/Numberic Keyboard option. For a complete overview of the optional keyboards available for the 99EX, see Using the Keyboards on page 6-1.

For a description of each callout, see Front Panel Features for the 99EX on page 3-5.

Front Panel Features for the 99EX

Blue Modifier Key

See Using the Modifier Keys on page 6-3.

Front Speaker

The front speaker is the receiver for handset voice calls. See GSM/HSPA+ Global Radio Dolphin Models on page 9-5.

General Notification LED

The light emitting diode (LED) located above the top right corner of the LCD display flashes and illuminates during resets, scanning/imaging, and taking a picture. This LED can be programmed by various software applications.

Charge Indicator LED

The light emitting diode (LED) located above the top left corner of the LCD display illuminates when the Power Tools **BattMon** application is enabled and the device is on AC charge. For more information, consult the Dolphin Power Tools User's Guide for Windows Embedded Handheld 6.5.

Microphone

The integrated microphone that provides audio input for handset and speakerphone voice calls. See Voice Communication on page 9-5.

Navigation Keys

The centrally located navigation keys enable you to move and position the cursor through software programs. The up and down arrows are programmed to perform specific functions when pressed in combination with the Blue and Red modifier keys. For more details, see Using the Navigation Keys on page 6-3.

Power Key

The power key located at the lower left corner of the keypad puts the terminal in Suspend Mode or wakes the terminal from Suspend Mode. See Software/Operating System Upgrades on page 3-17.

Recessed Keyboard

There are three keyboard options: a 34-key alpha/numeric keyboard, a 43-key alpha/numeric keyboard or a 55-key full alpha/numberic keyboard. For a complete overview of each keyboard, see Using the Keyboards on page 6-1.

Red Modifier Key

See Using the Modifier Keys on page 6-3.

SCAN Key

The SCAN key is centrally located for easy access with the right or left hand. When pressed, the SCAN key activates the scanner/imager. The SCAN key also functions as a system wake-up control for the terminal.

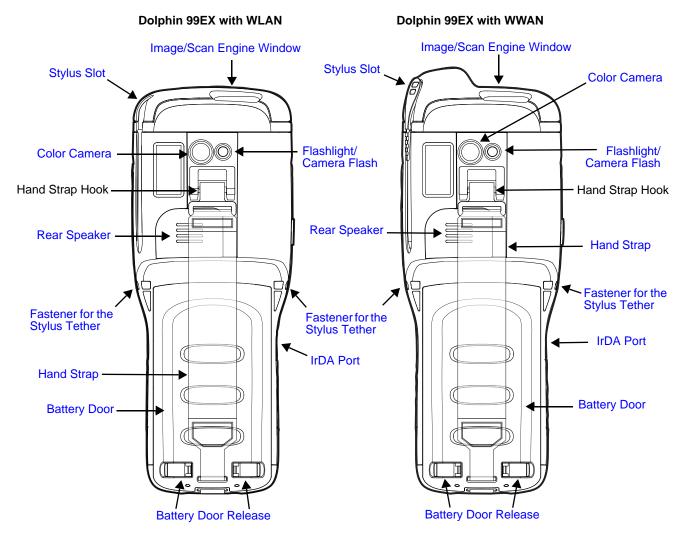
Touch Panel Display

The color 3.7 inch liquid crystal display (LCD) touch panel is covered with an industrial, protective lens for greater durability. The video graphic array (VGA) display resolution is 480 X 640.

The 262K color (18 bit RGB) LCD uses thin film transistor (TFT) technology. The touch panel backlight illuminates when the screen is touched, but not when the Backlight key is pressed. For more information, see Backlight on page 7-9.

The touch panel can be activated by the stylus (included with the terminal) or a finger. For more information, see Using the Touch Panel on page 3-12.

Back Panel: 99EX



For a description of each callout, see Back Panel Features for the 99EX below.

Back Panel Features for the 99EX

Battery Door

The battery door secures the Li-ion or Li-poly battery pack in the terminal's battery well. For more information, see Batteries on page 3-13.

Color Camera

The 3.1-Megapixels Resolution (QXGA 2048H x 1536V) color camera provides easy piture capture with Automated Camera Control (ACC). Additional features include automated picture profiles and an Application Programming Interface (API).

Fastener for the Stylus Tether

Stylus tethers can be purchased separately to help prevent accidental loss when the stylus is not stored in the stylus slot. A stylus tether is a coiled, elastic cord that tethers the stylus to the terminal. Secure one end of the cord to the back panel of the terminal and the other end to the stylus.

Flashlight/Camera Flash

The flashlight/camera flash is located on the back panel of the terminal. When used as a Flashlight, press the Blue key + key to turn the flashlight on or off. When used as a Camera Flash with the terminal's color camera, the flash is controlled by the camera application.

Hand Strap

The 99EX comes with a removable, elastic hand strap.

Image/Scan Engine Window

The available image engines read and decode linear, stacked linear (e.g., PDF417), and 2D matrix bar code symbologies. The available image engines contain a laser aimer for greater accuracy. The laser apertures for the imaging engines' laser aimers are contained behind this window. For more details, see Using the Scan Image Engine on page 4-1.

Memory Card Socket and SIM Card Socket

The memory card socket provides the user with the option to expand the terminal's memory capacity using industry-standard microSD or microSDHC memory interfaces. The expansion socket is located under the main battery in the battery well.

When the protective SIM/memory card door, battery pack, and the battery door are properly installed, the memory card is sealed against moisture and particle intrusion, read/write data is stored securely, and the terminal's environmental rating is preserved; see Installing a Memory Card on page 3-10.

The card socket for the Subscriber Identity Module (SIM) is also located under the main battery in the battery well. See SIM Card Installation and SIM Card Requirements, on page 9-3 for additional information.

Rear Speaker

The integrated rear speaker sounds audio signals as you scan bar code labels and enter data. The integrated speaker also supports playback of wave and MP3 files, software mixer, and Speakerphone for WWAN/GSM audio. The operating frequency range is 600-3000Hz at >90dB.

Stylus Slot

The stylus is used to operate the touch panel. The back panel of the terminal features a storage slot to hold the stylus when not in use. The stylus features a special tip for added accuracy and ease of use.

Stylus for Dolphin 99EX with WLAN

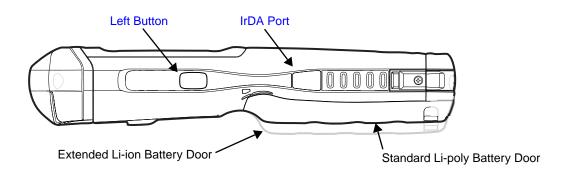
Stylus for Dolphin 99EX with WWAN

0 . \square

Side Panels: 99EX

The left and the right side panels of the Dolphin contain different features.

Left Side



Left Button

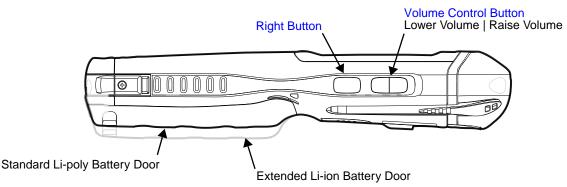
By default, the Left Button triggers the scanner/imager. You can reassign the button to launch applications or execute commands. For additional information, see Changing Button Assignments on page 7-4.

IrDA Port

The IrDA port enables infrared communication. The maximum data transfer speed is 115 kbps. For more information about using this port, see Using the IrDA Port on page 8-2.

Note: The infrared LED aperture is located behind the IrDA Port window.

Right Side



Right Button

By default, the Right Button triggers the scanner/imager. You can reassign the button to launch applications or execute commands. For additional information, see Changing Button Assignments on page 7-4.

Volume Control Button

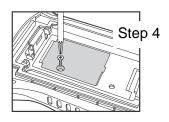
Press the top or bottom of the volume button to raise or lower the volume of the active speaker.

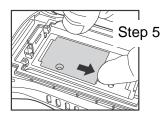
Installing a Memory Card

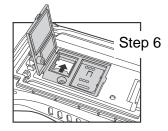
- 1. Press the Power key 🕑 to put the terminal in Suspend Mode.
- 2. Release the hand strap hook near the speaker on the back panel of the terminal.
- 3. Remove the battery door and the battery.
- 4. Remove the T6 torque screw securing the protective door closed.
- 5. Lift up the lower left corner of the door to access the memory socket.
- Unlock the access door to the memory socket by sliding the door toward the IrDA port side of the terminal.
- 7. Lift the door up to expose the socket.
- 8. Slide the microSD or microSDHC card into the door of the socket.
- Note: Make sure the interface on the memory card is connected to the interface in the socket; align the notch on the card with the notch of the socket.
- 9. Close and lock **A** the access door.
- 10. Close the protective door over the memory socket. Install and tighten the T6 torque screw to secure the door closed.
- 11. Install the battery and the battery door. Reattach the hand strap to the terminal.
- 12. Press the Power key or SCAN key to wake the terminal.

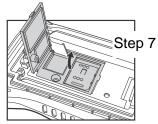
Installing a SIM Card

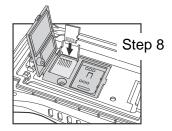
See Installing a SIM Card on page 9-4.

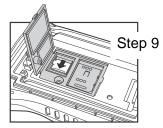






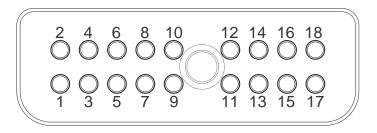






Bottom Panel: 99EX

Pin	Description
1	GND
2	GND
3	USBC_DET
4	USBC_D-
5	RTS
6	USBC_D+
7	DTR
8	SPK
9	Audio_GND
10	MIC
11	CTS
12	USBH_D-
13	5V_OUT
14	USBH_D-
15	TXD
16	RXD
17	VCC
18	VCC



Note: Signals referenced are for a DTE device.

I/O Connector

The I/O connector powers the terminal, charges the main battery, and facilitates communication. All Dolphin peripherals are designed to work exclusively with this connector.

The I/O connector supports RS232 and high speed USB v2.0 communication. For RS232, the maximum communication speed is 115.2 Kbps with seven baud rate settings. For USB, the communication speed is up to 480 Mbps.

I/O Power Out

The I/O connector also provides power out (to peripheral devices) +5V at 500mA. This means that, with the proper cable, the terminal can power another device. By default, power out is disabled, but the 5V output may be enabled, see Five Volt Control on page 7-12.

Using the Touch Panel

Honeywell defines proper use of the terminal touch panel as using a screen protector and proper stylus. Screen protectors maintain the ongoing integrity (i.e., prevent scratching) of the touch panel, which is why their use is recommended for applications that require a high to medium level of interface with the touch panel, such as signature capture for proof of delivery.

Honeywell advocates the use of screen protectors on all Dolphin devices. We recommend implementing a screen protector replacement program to ensure that screen protectors are replaced periodically when signs of damage/wear are noticeable. For general use, we recommend replacing the screen protector every thirty (30) days. However, replacement cycles vary according to the average level of touch panel use in your application.

Replacement screen protectors can be purchased directly from Honeywell. Please contact a Honeywell sales associate for details.

Honeywell also mandates use of a proper stylus, which is one that has a stylus tip radius of no less than 0.8 mm. Use of the Honeywell stylus included with the terminal is recommended at all times.

Honeywell warranty policy covers wear on the touch panel for the first twelve (12) months if a screen protector is applied and an approved stylus is used for the 12 month duration covered by the warranty.

Installing a Screen Protector

Dolphin terminals ship with a screen protector already installed. You will need to replace the screen protector at regular intervals.

- 1. After the current screen protector has been removed from the touch panel, clean the touch panel thoroughly with a clean, non-abrasive, lint-free cloth. Make sure there is no debris on the touch panel.
- 2. Align the exposed section of the protector with the bottom edge of the touch panel. Make sure that the screen protector is flush with each side of the touch panel. To reposition, lift up gently and reapply.
- 3. Press the screen protector firmly and carefully across the surface of the touch panel as you peel away the backing.
- 4. If necessary, smooth out any air pockets or bumps.

Healthcare Housing

Some configurations of the 99EX terminal are available with an external plastic housing that is designed to resist the effects of harsh chemicals in a healthcare environment. The plastic is crystalline in nature, which helps prevent chemicals from seeping through the housing.

- **Important!** The following cleaning solutions have been tested to assure safe cleaning of your terminal's disinfectant-ready housing. They are the only solutions approved for use with these terminals. Damage caused by the use of cleaners other than those listed below may not be covered by the warranty.
- Sani-Cloth[®] HB wipes
- Sani-Cloth[®] Plus wipes
- Sani-Cloth[®] Bleach wipes
- Super Sani-Cloth[®] wipes

- Isopropyl Alcohol wipes (70%)
- CaviWipes[™]
- Virex[®] 256
- 409[®] Glass and Surface Cleaner
- Windex[®] Blue
- Gentle dish soap and water

Batteries

There are three types of battery power: the main battery pack installed in the back panel, the backup battery located inside the terminal and the Real Time Clock (RTC) battery located inside the terminal. They are designed to work together to prevent data loss when the terminal is in use over long periods. **All batteries must be completely charged before using a Dolphin terminal for the first time!**

Main Battery Pack



We recommend use of Honeywell Li-ion or Li-poly battery packs. Use of any non-Honeywell battery may result in damage not covered by the warranty.

The standard 3.7 V, 11.3 watt hour Li-poly or extended 3.7 V, 18.5 watt hour Li-ion battery pack is the primary power source for the terminal. The Li-poly and Li-ion battery packs are designed to operate in a temperature range of -10° to 50°C (14° to 122°F).

Charging Options

When the main battery pack is installed in the terminal, use one of the following peripherals:

- Dolphin 99EX HomeBase Device (see page 12-1)
- Dolphin 99EX eBase Device (see page 13-1)
- Dolphin 99EX Mobile Base Device (see page 14-1)
- Dolphin 99EX ChargeBase Device (see page 15-1)
- Dolphin 99EX Net Base Device (see page 16-1)

When the main battery pack is not installed in the terminal:

- Place the battery pack in the Dolphin 99EX QuadCharger Device (see page 17-1)
- Place the battery pack in the Auxiliary Battery Well of the Dolphin 99EX HomeBase Device (see page 12-2) or Dolphin 99EX eBase Device (see page 13-1).

Charging Time

The standard 3.7V Li-poly battery pack requires 4.5 hours to charge completely before initial use.

The extended 3.7V Li-ion battery pack requires 6 hours to charge completely before initial use.

Honeywell recommends charging the Dolphin terminal for at least 24 hours prior to initial use to ensure the internal backup battery is fully charged.

Note: The RTC battery will preserve the Real Time Clock 60 days after the main battery and internal backup battery are fully depleted.

Note: Honeywell recommends placing the terminal in Software/Operating System Upgrades (see page 3-17) before removing the battery cover.

Battery Error Notification

If your terminal displays the following indicators, replace the main battery pack with a Honeywell Li-poly or Li-ion battery pack.

- 😑 appears in the Title bar at the top of the touch screen.
- The General Notification LED flashes red.
- A Notification appears on the Tile bar at the bottom of the touch screen.

Storing Batteries

To maintain top performance from batteries, avoid storing batteries outside of the following temperature ranges:

- 14°F to 113°F (-10°C to +45°C) for short term storage of less than one month
- 32°F to 86°F (-0°C to +30°C) for long term storage

Do not store batteries in extremely high humidity. For prolonged storage, do not keep batteries stored in a charger that is connected to a power source.

Guidelines for Battery Pack Use and Disposal

The following are general guidelines for the safe use and disposal of batteries:

- We recommend use of Honeywell Li-ion or Li-poly battery packs. Use of any non-Honeywell battery may pose a personal hazard to the user.
- Replace defective batteries immediately; using a defective battery could damage the Dolphin terminal.
- Never throw a used battery in the trash. A battery contains heavy metals and should be recycled according to local guidelines.
- Do not use a battery in any other manner outside its intended use in Dolphin terminals and peripherals.
- Do not short-circuit a battery or throw it into a fire; it can explode and cause severe personal injury.
- Excessive discharge damages a battery. Recharge the battery when your terminal indicates low battery power.
- If you observe that the Honeywell battery supplied is physically damaged, please send it to Honeywell International Inc. or an authorized service center for inspection. Refer to the Product Service and Repair section of this guide.
- Although your battery can be recharged many times, the battery life is limited. Replace it after the battery is unable to hold an adequate charge.
- If you are not sure the battery or charger is working properly, send it to Honeywell International or an authorized service center for inspection.

Internal Backup Battery

Located inside the terminal, the backup battery is a 3.6 Volt nickel metal hydride (NiMH) battery.

The internal backup battery prevents the terminal from being reset if you need to remove and replace the main battery pack. It retains RAM data. If the terminal is left without the main battery pack for more than 30 minutes, the internal backup battery needs to be recharged to function according to its specifications.

Note: Data and programs stored in Flash memory are not lost even if the internal backup battery fails.

Charging

The internal backup batteries are powered by the main battery pack. Therefore, charging the internal backup batteries require that the main battery pack be installed in the terminal and the terminal be connected to a charging device.

Note: Honeywell recommends placing the terminal in Software/Operating System Upgrades (see page 3-17) before removing the battery cover.

The internal backup battery must be fully charged before using the terminal for the first time. Honeywell recommends charging the Dolphin terminal for at least 24 hours prior to initial use to ensure the internal backup battery is fully charged. After that, if the internal backup battery becomes fully discharged of power, it requires a minimum of 30 hours of charging time to function normally.

Guidelines for Use

Follow these guidelines to maximize the life of the internal backup battery:

- Keep a charged Li-ion or Li-poly battery pack in the terminal; the backup battery prematurely discharges if there is not at least a partially charged battery in the terminal.
- Keep the terminal connected to power when the terminal is not in use.

Managing Battery Power

Letting the backup battery become fully discharged causes the terminal to lose all data in RAM. Honeywell recommends, you keep a charged battery pack in the terminal at all times to help prevent data loss. The internal battery discharges prematurely if there is not at least a partially charged battery in the terminal. When you remove a battery pack, insert another charged battery pack in the terminal immediately.

Default Critical and Low Battery Points

When the terminal is running on battery power (as opposed to external power), warnings are displayed when the battery reaches critical and low battery points. The warning points are determined by the following registry entry:

[HKEY_LOCAL_MACHINE\ControlPanel\Power]

There are two DWORD values in this registry entry: MedState and LowState.

The default values for these entries are as follows:

MedState=25%

This sets the Low Battery point to 25%. When the battery hits the percentage charge specified here, the user is notified.

LowState=10%

This sets the Critical Battery point to 10%. When the battery hits the percentage charge specified here, the user is notified.

Note: Warnings do not appear when the terminal is on external power.

Setting Critical and Low Battery Points

Developers can reset the battery parameters in the registry from 0 (no warning) to 99 (would nearly always warn). You can review and set these battery points in the RegEdit Power Tool.

- 1. Tap 🥹 > Power Tools > RegEdit.
- 2. Drill down to **HKEY_LOCAL_MACHINE** > **ControlPanel** > **Power**.
- Tap the Value Name to change the Value Data. You can reset the Value Data from 0 (no warning) to 99 (would nearly always warn).
- 4. Tap **OK** to save changes.

For more information about the RegEdit Power Tool, refer to the Dolphin Power Tools User's Guide available for download at www.honeywellaidc.com.

Checking Battery Power

Tap 🥹 > Settings > System > Power.



For more information, see Power on page 7-16.

Note: Tapping the battery icon at the top of the screen does not open the Power applet with this version of Microsoft Windows Embedded Handheld.

Resetting the Terminal

There are three types of system resets: a soft reset, a hard reset and a factory reset. The soft and hard resets preserve all data stored in the file system. See Honeywell support for more information on how to perform a factory reset.

Soft Reset (Warm Boot)

A soft reset re-boots the device and preserves any objects created in RAM. You would perform a soft reset when:

• the terminal fails to respond.

- · after installing some software applications.
- after making changes to certain system settings, such as network cards.
- 1. Press and hold the CTRL **CTRL** + ENTER keys for approximately 5 seconds.
- 2. The decode and scan LEDs flash for approximately three seconds as the terminal resets.
- 3. When the reset is complete, the Home screen displays.

Hard Reset (Cold Boot)

A hard reset re-boots the device and clears RAM data. Files in the user store are not affected unless you are performing a software upgrade.

A hard reset erases all of the data stored in RAM memory!

- 1. Press and hold the CTRL **CTRL** + ESC **keys** for approximately 5 seconds.
- 2. The decode and scan LEDs light for approximately 3 seconds.
- 3. The terminal re-initializes; see Initialize the Mobile Computer on page 2-8.

Software/Operating System Upgrades

Software upgrades reset the device back to a factory state. Back up all user files to a storage card or external memory prior to performing a software upgrade. All files in the user store will be erased during an operating system upgrade. Data stored in the IPSM directory is preserved during an operating system upgrade.

Suspend Mode

The terminal goes into Suspend Mode automatically when the terminal is inactive for a programmed period of time. You can program this time on the Advance tab of the Power System Setting; see Power on page 7-16.

To put the terminal into Suspend Mode manually, press the Power key 🙆 and the screen goes blank.

To wake the terminal from Suspend Mode, press the Power key O or SCAN key

Hardware Maintenance

When needed, clean the image engine window and the LCD display with a clean, non-abrasive, lint-free cloth. The terminal can be cleaned with a damp cloth.

For additional information on hardware maintenance specific to the Dolphin Healthcare Housings, see page 3-12.



Preliminary Draft 1/19/11 Using the Scan Image Engine

Overview

The Dolphin terminal houses a compact image engine that instantly reads popular 1D and 2D bar codes and supports omni-directional aiming and decoding for greater flexibility in real-world settings. The image engine can also capture black and white digital images, such as signatures and pictures of damaged inventory.

With the latest CMOS-based technology, the engine works like a digital camera and enables black and white digital image capture, signature capture, and reading of OCR characters.

Angled Imaging

All imagers are installed at a 25 degree downward-facing angle for enhanced comfort and maneuverability while scanning.

Laser Safety

See Laser Safety on page 1-1.

LED Safety

See LED Safety on page 1-2.

Image Engine Specifications

Engines	1D	2D	Image Capture	Aiming Pattern	Omni-Directional Aiming
N5603SR/ER/HD	Y	Y	Y	N5603 Red High-Vis Aiming Pattern (page 4-5) See Laser Safety on page 1-1.	Y
N5600SR/ER/HD	Y	Y	Y	Capturing Images (page 4-6)	Y

N5603 Beam Divergence Angle

Engines	Horizontal Beam Divergence Angle (degrees)	Vertical Beam Divergence Angle (degrees)
N5603SR/HD	18.1	14.3
N5603ER	13.1	9.9

Depth of Field

The depth of field measurements used the following parameters:

- Distances are measured from the front of the engine.
- +23°C (+73°F), 0 lux
- Photographic quality codes

Focus	N5603/N5600 High Density (HD)			N5603/I Standa	N5600 rd Range (SR)	N5603/N5600 Extended Range (ER)		
Symbology	Distanc	e (in/cm)	Delta (in/cm)	Distanc	Distance (in/cm) Delta (in/cm)		Distance	e (in/cm)	Delta (in/cm)
	Near	Far		Near	Far		Near	Far	
3 mil C39/128	2.1 (5.3)	3.4 (8.6)	1.3 (3.3)	-	-	-	-	-	-
5 mil	1.3	4.8	3.5	2.7	6.2	3.5	5.8	9.0	3.2
C39/128	(3.3)	(12.2)	(8.9)	(6.9)	(15.7)	(8.9)	(14.7)	(22.9)	(8.1)
7.5 mil	1.3	5.7	4.4	2.3	9.4	7.1 (18)	4.0	12.8	8.8
C39/128	(3.3)	(14.5)	(11.2)	(5.8)	(23.9)		(10.2)	(32.5)	(22.4)
10 mil	1.3	5.6	4.3	1.3	13.5	12.2	2.7	17.6	14.9
C39/128	(3.3)	(14.2)	(10.9)	(3.3)	(34.3)	(31)	(6.9)	(44.7)	(37.8)
15 mil	1.3	7.8	6.5	1.3	19.5	18.2	1.9	21.4	19.5
C39/128	(3.3)	(19.8)	(16.5)	(3.3)	(49.5)	(46.2)	(4.8)	(54.4)	(49.5)
20 mil	2.1	9.4	7.3	2.0	20.1	18.1	2.8	26.5	23.7
C39/128	(5.3)	(23.9)	(18.5)	(5.1)	(51.1)	(46)	(7.1)	(67.3)	(60.2)
100% UPC	1.9	7.1	5.2	1.8	17.0	15.2	2.7	20.9	18.2
	(4.8)	(18)	(13.2)	(4.6)	(43.2)	(38.6)	(6.9)	(53.1)	(46.2)
5 mil	1.3	4.9	3.6	2.2	5.8	3.6	6.1	7.9	1.8
PDF417	(3.3)	(12.4)	(9.1)	(5.6)	(14.7)	(9.1)	(15.5)	(20.1)	(4.6)
6.7 mil	1.3	4.9	3.6	1.9	6.6	4.7	4.6	9.9	5.3
PDF417	(3.3)	(12.4)	(9.1)	(4.8)	(16.8)	(11.9)	(11.7)	(25.1)	(13.5)
10 mil	1.6	6.3	4.7	1.9	11.3	9.4	2.4	16.0	13.6
PDF417	(4.1)	(16)	(11.9)	(4.8)	(28.7)	(23.9)	(6.1)	(40.6)	(34.5)
5 mil MicroPDF	1.7 (4.3)	3.3 (8.4)	1.6 (4.1)	-	-	-	-	-	-
5 mil Data Matrix	1.6 (4.1)	3.0 (7.6)	1.4 (3.6)	-	-	-	-	-	-
10 mil Data	1.3	5.3	4.0	1.9	8.2	6.3 (16)	5.4	11.3	5.9
Matrix/Aztec	(3.3)	(13.5)	(10.2)	(4.8)	(20.8)		(13.7)	(28.7)	(15)
20 mil	1.9	8.0	6.1	1.9	16.0	14.1	2.4	19.9	17.5
Data Matrix	(4.8)	(20.3)	(15.5)	(4.8)	(40.6)	(35.8)	(6.1)	(50.5)	(44.5)

10 mil QR	3.3 (8.4)	5.0 (12.7)	3.5 (8.9)	2.1 (5.3)	7.2 (18.3)	5.1 (13)	4.1 (10.4)	10.6 (26.9)	6.5 (16.5)
20 mil QR	2.0	8.0	6.0	1.9	15.8	13.9	2.0	19.6	17.6
	(5.1)	(20.3)	(15.2)	(4.8)	(40.1)	(35.3)	(5.1)	(49.8)	(44.7)
32 mil	2.2	8.8	6.6	2.1	19.3	17.1	3.7	23.2	19.5
Maxicode	(5.6)	(22.4)	(16.8)	(5.3)	(49)	(43.4)	(9.4)	(58.9)	(49.5)

Supported Bar Code Symbologies

Symbology Type	Symbology Name	
1D Symbologies	Codabar Code 3 of 9 Code 11 Code 32 Pharmaceutical (PARAF) Code 93 Code 128 EAN with Add-On EAN with Extended Coupon Code EAN-8 EAN-13 GS1-128 GS1 Databar Interleaved 2 or 5	ISBT 128 Matrix 2 of 5 MSI Plessey PosiCode Straight 2 of 5 IATA Straight 2 of 5 Industrial Telepen Trioptic Code UPC UPC-A UPC-E
2D Symbologies	Aztec Codablock Code 16K Code 49 Composite Data Matrix	GS1 Databar MaxiCode Micro PDF OCR PDF417 QR Code
Composite Codes	Aztec Mesa Codablock F EAN•UCC GS1 Databar-14	
OCR	OCR US Money Font MICR (E 13 B) and SEMI Font OCR-A OCR-B	
Postal Codes	Postnet and most international 4-state code Australian Post British Post Canadian Post China Post Japanese Post KIX (Netherlands) Post Korea Post Planet Code	S

Decoding

The terminal supports two types of image decoding for use in various bar code reading and imaging applications: full-area imaging and Advanced Linear Decoding (ALD).

Full-Area Imaging

Full-area imaging provides omni-directional reading of linear and non-linear 1D and 2D bar codes, OCR, signature capture, and picture taking. When reading all bar code types using full-area imaging, a positive read can be obtained from many positions; see Aiming Options on page 4-4. To achieve the best read, the aiming beam should be centered horizontally across the bar code.

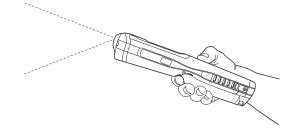
ALD

ALD provides fast reading of linear and stacked linear bar codes. To achieve a positive read when reading linear 1D and PDF417 bar codes, the green aiming beam should be centered horizontally across the bar code. When ALD is enabled, the reader does not read matrix or postal codes.

To Decode a Bar Code

The aiming beam should be oriented in line with the bar code to achieve optimal decoding. A range of 4-10 inches (10-25 cm) from the bar code is recommended.

- 1. Tap 🕹 > Demos 🚃 > Scan Demo 🔟 .
- 2. Point the Dolphin terminal at the bar code.



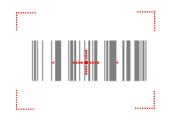
- 3. Project the aiming beam or pattern by pressing and holding the SCAN key
- 4. The scan LED lights red.
- 5. Center the aiming beam over the bar code; see Aiming Options on page 4-4.
- 6. When the bar code is successfully decoded, the decode LED lights green and the terminal beeps.
- 7. The bar code information is entered into the application in use.

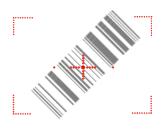
Aiming Options

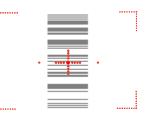
The aiming beams are smaller when the terminal is held closer to the code and larger when it is farther from the code. Symbologies with smaller bars or elements (mil size) should be read closer to the unit whereas symbologies with larger bars or elements (mil size) should be read farther from the unit.

N5603 Red High-Vis Aiming Pattern

If your Dolphin terminal is configured with a 5603 imager, high-vis aimers frame the bar code for more intuitive aiming. See Laser Safety on page 1-1.







N5600 Green Aiming Beam

Linear Bar Code



2D Matrix Symbol











Capturing Images

The image-capture process is an intuitive, split-second operation for experienced users. By following the basic guidelines, new users can easily develop their own technique and, with practice, quickly learn to adapt it to different application environments.

Image Preview

When the imaging process is initiated, the touch screen displays a preview of the object. This is a live video image of what the imager is currently viewing. The live video image has a slightly degraded appearance compared to the captured image. This is normal.

Scan Key

On all 99EX terminals, the SCAN key captures images.

File Formats

File formats supported for image storage include Bitmap (BMP), JPEG (JPG) and Portable Network Graphics (PNG). The default file format for images is a grayscale JPG.

Compression

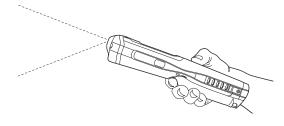
Digital images have a maximum image size of 640 x 480 pixels and may have up to a 256 grayscale image definition.

The image quality and related file size are determined by the data compression method used by the software application used to take images. The average size of the image file is approximately 4–8K. However, the size of the image depends on the content of the image - the more complex the content, the larger the file size.

Taking an Image

The following steps are basic guidelines for taking images:

- 1. Tap 🥝 > Demos > Imaging Demo 🛅
- 2. Point the Dolphin terminal at the object.



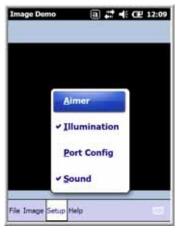
- 3. To preview the image, press and hold the SCAN key
- 4. The touch screen displays a preview of the object, and the decode and scan LEDs light red.
- 5. Adjust the terminal's position until the object appears on the screen the way you want it to appear in the image.
- 6. Hold the terminal still and release the SCAN key. The scan and decode LEDs flash red, the screen flashes, and the captured image appears on the screen.

7. Unless otherwise specified by the application in use, the image is saved to the **\My Device\My Documents** folder.

Enabling the Aimer

If your Dolphin terminal is configured with the 5300 imager, you can enable the aiming pattern for imaging in the Imaging Demo. For details about the aimer, see Capturing Images on page 4-6.

1. Tap 🧐 > Demos > Imaging Demo > Setup menu > Aimer.



2. The aiming pattern is now enabled for imaging.

Uploading Images

Image files can be uploaded to a host workstation via Microsoft ActiveSync and a Dolphin communication peripheral or your wireless radio connection.

- Note: You can download the most current version of ActiveSync from www.microsoft.com.
- Note: Visit the Microsoft Windows 7 website for information on how to sync your music, pictures, contacts and calendars using Device Stage.
- Note: Visit the Microsoft Windows Vista website for information on how to sync your music, pictures, contacts and calendars using Windows Mobile Device Center.



We recommend use of Honeywell peripherals, power cables, and power adapters. Use of any non-Honeywell peripherals, cables, or power adapters may cause damage not covered by the warranty.

Overview

Dolphin 99EX terminals equipped with a 3.1-Megapixels Resolution color camera with Automated Camera Control (ACC), and an Application Programming Interface (API) provide easy integration of color picture and video capture into business applications. The camera lens and camera flash are located on the back panel of the terminal.

Taking a picture using the Camera Demo tool

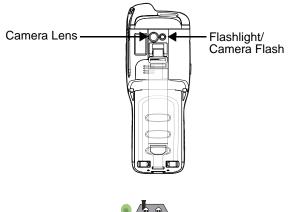
- 1. Tap 🕝 > Demos 🔤 > Camera Demo 📖 .
- 2. Adjust the camera settings using the icon menu at the top of the display screen.



- 3. Point the terminal's camera lens at the object you want to capture. The camera lens is located on the back panel of the terminal.
- 4. Center the object in the touch screen display.
- 5. Press the ENT key 🕎 or tap **Snap** . The terminal's red LED illuminates during picture capture.

Note: Tap the green arrow discrete to review or edit your pictures.

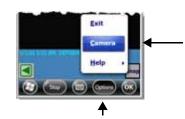
Tap the green box 🔲 to exit the picture review/edit screen.





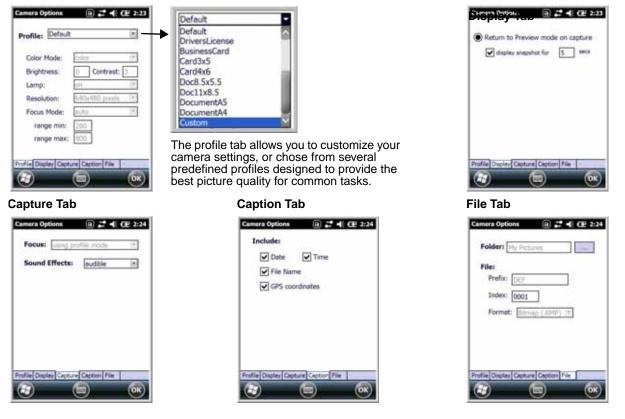
Options

Tap Options > Camera.



The Camera Options menu appears. There are five tabs of configurable options accessible from the Camera Options menu.

Profile Tab



Taking a picture using the Windows Embedded Handheld 6.5 Camera tool

- 1. Tap 🥹 > Pictures & Videos > Camera
- 2. Point the terminal's camera lens at the object you want to capture. The camera lens is located on the back panel of the terminal.
- 3. Center the object in the touch screen display.
- 4. Press the ENT key
- 5. The touch screen displays the captured photo.

Menu

Tap **Menu** on the Command Bar to adjust the camera settings, switch to video mode, and access additional camera options.

Item	Descriptions
Video	Activate Video Mode
Mode	Normal Mode, Burst Mode, Timer Mode
Resolution	Set picture resolution (i.e., 320 x 240, 640 x 480, 800 x 600, 1600 x 1200)
Zoom	Set zoom (i.e., x1, x2, x3, and x4)
Flash	Camera Flash On or Camera Flash Off
Focus	Focus On, Focus Off, Focus on Trigger, or Fixed-Focus
Brightness	Set the brightness setting from +2.0 EV to -2.0 EV in .5 EV increments
Full Screen	Switch to full screen mode
Options	Set General, Slide Show, Camera, and Video options
Focus	Manual focus adjustment

Options

Tap **Menu > Options**. The Options menu contains four screens:

General Tab

Slide Show Tab

Camera Tab

Video Tab



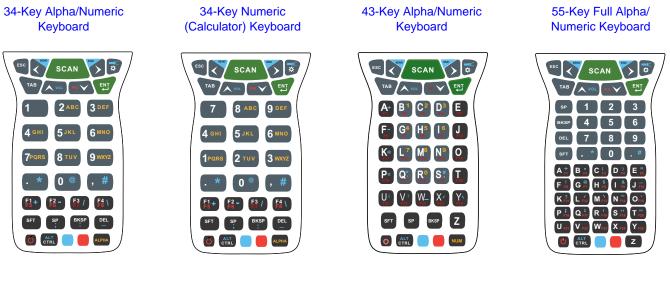
Recording Video

- 1. Tap 🧐 > Pictures & Videos > Camera > Menu > Video
- 2. Point the terminal's camera lens at the object you want to capture.
- 3. Press the ENT key 🐨 to start recording.
- 4. Tap Stop or press ENT to stop recording.

Preliminary Draft 1/19/11 Using the Keyboards

Available Keyboards

There are four keyboard options in the 99EX series:



All Keyboards Contain the Following:

- Backlit for easy viewing in various lighting conditions.
- Centrally located Scan key for both right- and left-hand operation.
- Color-coding so you can clearly see the most common keyboard combinations.
- Function, navigation, and modifier keys.

Keyboard Combinations

See 34-Key Alpha/Numeric Keyboard Combinations on page 6-6. See 34-Key Numeric (Calculator) Keyboard Combinations on page 6-9. See 43-Key Keyboard Combinations on page 6-12. See 55-Key Keyboard Combinations on page 6-14.

Common Buttons

See Using the Function Keys on page 6-2. See Using the Modifier Keys on page 6-3. See Using the Navigation Keys on page 6-3.

Using the Function Keys

Name	Кеу	Function
Backlight	*	Turns the keyboard backlight on and off.
Flashlight	Blue & 💭	Turns the flashlight on and off. The flashlight is located on the back panel of the terminal.
Backspace (BKSP)	BKSP 34-Key BKSP 43-Key BKSP 55-Key	Moves the cursor back one space each time the key is pressed. If you are typing text, it deletes the previous character each time it is pressed.
Delete (DEL)	DEL 55-Key	Deletes the next character each time the key is pressed. This key only appears on the 34-key and 55-key kepad options.
Enter (ENT)	ENT	Confirms data entry.
Escape (ESC)	ESC	Cancels the current action.
Power Key	C	Puts the terminal in and wakes the terminal from Suspend Mode; see Software/Operating System Upgrades on page 3-17.
SCAN Key	SCAN	Activates the scan and "wakes" the terminal from Sleep Mode. Its position allows convenient one-handed image-taking and/or bar code decoding.
Space (SP)	SP 34-Key SP 43-Key SP 55-Key	Moves the cursor one space.
Tab	ТАВ	Moves the cursor to the next tab stop or the next control (on a form).

Using the Modifier Keys

Name	Кеу	Function
ALPHA	ALPHA 34-Key	The ALPHA key enables you to toggle between the alpha and numeric modes. See ALPHA Key on page 6-5.
Blue and Red	Blue	The blue and red keys are used in combination with other keys to type special characters and perform system functions. Each key modifies only the next key pressed.
	Red	Each keyboard is color-coded to indicate the character typed or function performed when specific keys are pressed immediately after the blue or red modifier key.
Number Lock (NUM)	NUM 43-Key	The Number Lock key enables you to toggle between the alpha and numeric modes. See Number Lock (NUM) Key on page 6-11.
Shift (SFT)	SFT 34-Key	The shift key modifies only the next key pressed; it must be pressed before each key you wish to modify. Shift toggles the keyboard between uppercase alphabet mode and lowercase alphabet mode.
	SFT 43-Key SFT 55-Key	Press the shift key twice to toggle Caps Lock on and off. When Caps Lock is toggled on, characters are uppercase; when toggled off, characters are lowercase.

Using the Navigation Keys

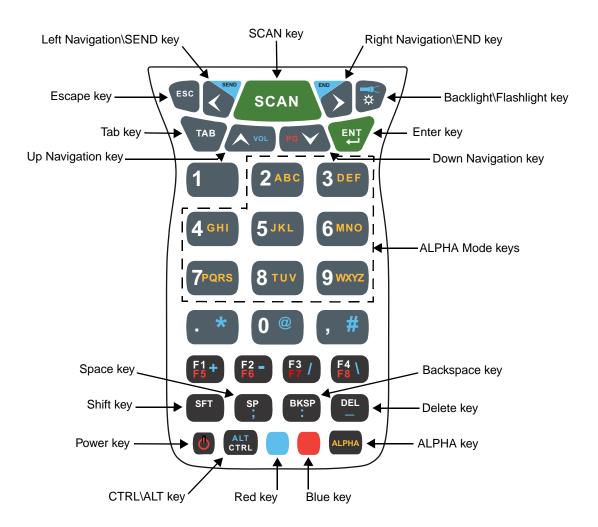
Located in the center of each keyboard for easy access with either hand, the navigation keys navigate the cursor through application screens.

Кеу	Function
VOL	Moves the cursor up one row or line.
	Moves the cursor down one row or line.
Blue & VOL	Raises the volume.
Blue & Po	Lowers the volume.
Red & VOL	Moves the cursor up one page.

Кеу	Function
Red & PC	Moves the cursor down one page.
	Moves the cursor one character to the right.
	Moves the cursor one character to the left.

Note: Additional functionality varies according to the application in use.

34-Key Alpha/Numeric Keyboard



ALPHA Key

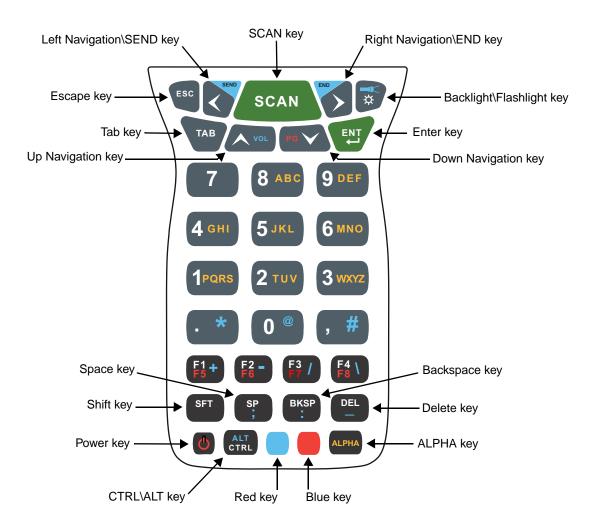
The ALPHA lock key enables you to toggle between the alpha and numeric keyboard modes. On the 34-Key Keyboard, numeric mode is the default. Press the ALPHA key once to switch to ALPHA lock mode. Press the ALPHA key again to exit the ALPHA lock mode.

34-Key Alpha/Numeric Keyboard Combinations

Кеу	NUM (Default)	Shift-NUM	ALPHA	Shift- ALPHA	Blue	Red				
ESC	Escape	Escape								
Left	Left	Left	Left	Left	Send (Phone)	Left				
Scan	Scan									
Right	Right	Right	Right	Right	End (Phone)	Right				
Backlight	Toggles Keybo	ard Backlight Or	n/Off		Toggles Flashlight On/Off	Toggles Keyboard Backlight On/ Off				
ТАВ	Tab	Tab	Tab	Tab	Tab	Tab				
Up	Up	Up	Up	Up	Volume Up	Prior				
Down	Down	Down	Down	Down	Volume Down	Next				
Enter	Return									
1	1	!								
2	2	@	a,b,c	A,B,C						
3	3	#	d,e,f	D,E,F						
4	4	\$	g,h,i	G,H,I						
5	5	%	j,k,l	J,K,L						
6	6	^	m,n,o	M,N,O						
7	7	& (ampersand)	p,q,r,s	P,Q,R,S						
8	8	* (multiply)	t,u,v	T,U,V						
9	9	(w,x,y,z	W,X,Y,Z						
Period	. (period)	>	. (period)	>	* (multiply)					
0	0)			@					
Comma	, (comma)	<	, (comma)	<	#					

Кеу	NUM (Default)	Shift-NUM	ALPHA	Shift- ALPHA	Blue	Red	
F1	F1	F1	F1	F1	+	F5	
F2	F2	F2	F2	F2	-	F6	
F3	F3	F3	F3	F3	/	F7	
F4	F4	F4	F4	F4	١	F8	
SFT	Shift	Shift	Shift	Shift			
SP	Space	Space	Space	Space	,	Space	
BKSP	Backspace	Backspace	Backspace	Backspace	:	Backspace	
DEL	Delete	Delete	Delete	Delete	Underscore	Delete	
Power	Off/On						
CTRL	Control		Control		Menu		
Blue	Blue		Blue		Blue		
Red	Red		Red			Red	
ALPHA	Toggles between ALPHA mode and NUM Lock mode						

34-Key Numeric (Calculator) Keyboard



ALPHA Key

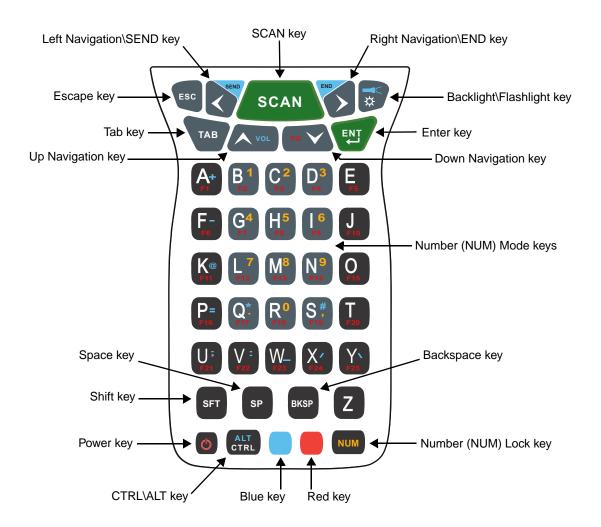
The ALPHA lock key enables you to toggle between the alpha and numeric keyboard modes. On the 34-Key Keyboard, numeric mode is the default. Press the ALPHA key once to switch to ALPHA lock mode. Press the ALPHA key again to exit the ALPHA lock mode.

34-Key Numeric (Calculator) Keyboard Combinations

Кеу	NUM (Default)	Shift-NUM	ALPHA	Shift- ALPHA	Blue	Red			
ESC	Escape								
Left	Left	Left	Left	Left	Send (Phone)	Left			
Scan	Scan								
Right	Right	Right	Right	Right	End (Phone)	Right			
Backlight	Toggles Keybo	Toggles Keyboard Backlight On/Off Toggles Flashlight On/Off Backlight On/Off Backlight On/Off Backlight On Off Off							
ТАВ	Tab	Tab	Tab	Tab	Tab	Tab			
Up	Up	Up	Up	Up	Volume Up	Prior			
Down	Down	Down	Down	Down	Volume Down	Next			
Enter	Return								
1	1	!							
2	2	@	a,b,c	A,B,C					
3	3	#	d,e,f	D,E,F					
4	4	\$	g,h,i	G,H,I					
5	5	%	j,k,l	J,K,L					
6	6	^	m,n,o	M,N,O					
7	7	& (ampersand)	p,q,r,s	P,Q,R,S					
8	8	* (multiply)	t,u,v	T,U,V					
9	9	(w,x,y,z	W,X,Y,Z					
Period	. (period)	>	. (period)	>	* (multiply)				
0	0)			@				
Comma	, (comma)	<	, (comma)	<	#				

Кеу	NUM (Default)	Shift-NUM	ALPHA	Shift- ALPHA	Blue	Red	
F1	F1	F1	F1	F1	+	F5	
F2	F2	F2	F2	F2	-	F6	
F3	F3	F3	F3	F3	/	F7	
F4	F4	F4	F4	F4	١	F8	
SFT	Shift	Shift	Shift	Shift			
SP	Space	Space	Space	Space	;	Space	
BKSP	Backspace	Backspace	Backspace	Backspace	:	Backspace	
DEL	Delete	Delete	Delete	Delete	Underscore	Delete	
Power	Off/On						
CTRL	Control		Control		Menu		
Blue	Blue		Blue		Blue		
Red	Red		Red			Red	
ALPHA	Toggles between ALPHA mode and NUM Lock mode						

43-Key Alpha/Numeric Keyboard



Number Lock (NUM) Key

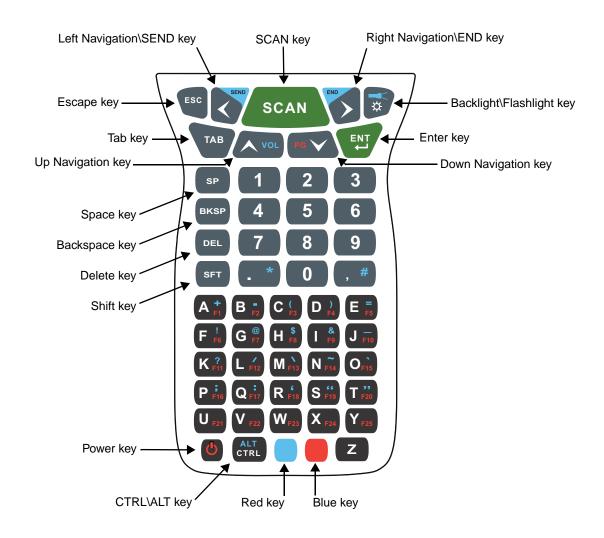
The Number Lock key enables you to toggle between the alpha and numeric keyboard modes. On the 43-key keyboard, alpha mode is the default. Press the NUM key once to switch to NUM lock mode. Press the NUM key again to exit the NUM lock mode.

43-Key Keyboard Combinations

Кеу	ALPHA (Default)	Shift-ALPHA	NUM	Shift-NUM	Blue	Red		
ESC	Escape							
Left	Left	Left	Left	Left	Send (Phone)	Left		
Scan	Scan							
Right	Right	Right	Right	Right	End (Phone)	Right		
Backlight	Toggles Keybo	oard Backlight Or	n/Off		Toggles Flashlight On/Off	Toggles Keyboard Backlight On/ Off		
ТАВ	Tab							
Up	Up	Up	Up	Up	Volume Up (Phone)	Prior		
Down	Down	Down	Down	Down	Volume Down (Phone)	Next		
Enter	Return							
Α	а	A			+ (add)	F1		
В	b	В	1	!		F2		
С	с	с	2	@		F3		
D	d	D	3	#		F4		
E	е	E				F5		
F	f	F			- (subtract)	F6		
G	g	G	4	\$		F7		
н	h	н	5	%		F8		
I	i	I	6	^		F9		
J	j	J				F10		
к	k	к		@	@	F11		

Кеу	ALPHA (Default)	Shift-ALPHA	NUM	Shift-NUM	Blue	Red
L	I	L	7	&		F12
Μ	m	м	8	* (multiply)		F13
Ν	n	N	9	(F14
0	0	0				F15
Р	р	Р			=	F16
Q	q	Q	. (period)	>	* (multiply)	F17
R	r	R	0)		F18
S	s	S	, (comma)	<	#	F19
т	t	т				F20
U	u	U			. ,	F21
V	v	v			:	F22
W	w	w			(underscore)	F23
Х	x	x			/	F24
Y	у	Y			١	F25
SFT	Shift		Shift			
SP	Space				·	
BKSP	Backspace					
Z	z	Z				
Power	Off/On					
CTRL	Control		Control		Menu	
Blue	Blue		Blue		Blue	
Red	Red		Red			Red
NUM	Toggles betwe	en NUM lock mo	de and ALPHA	mode	•	

55-Key Full Alpha/Numeric Keyboard



55-Key Keyboard Combinations

Кеу	Normal	Shift	Blue	Red		
ESC	Escape					
Left	Left	Left	Send (Phone)	Left		
Scan	Scan					
Right	Right	Right	End (Phone)	Right		

Кеу	Normal	Shift	Blue	Red			
Backlight	Toggle Keyboard	Backlight On/Off	Toggle Flashlight On/ Off	Toggle Keyboard Backlight On/ Off			
ТАВ	Tab						
Up	Up	Up	Volume Up	Prior			
Down	Down	Down	Volume Down	Next			
Enter	Return						
SP	Space						
1	1	!	1	1			
2	2	@	2	2			
3		#	3	3			
BKSP	Backspace						
4	4	\$	4	4			
5	5	%	5	5			
6	6	•	6	6			
DEL	Delete	•					
7	7	&	7	7			
8	8	*	8	8			
9	9	(9	9			
SHIFT	Shift						
Period	. (period)	>	* (multiply)	. (period)			
0	0)	0	0			
Comma	, (comma)	<	_ (underscore)	, (comma)			
Α	а	Α	+ (add)	F1			
В	b	В	- (subtract)	F2			
С	с	С	(F3			

Кеу	Normal	Shift	Blue	Red			
D	d	D)	F4			
E	е	E	=	F5			
F	f	F	!	F6			
G	g	G	@	F7			
н	h	н	\$	F8			
I	i	I	&	F9			
J	j	J	_ (underscore)	F10			
к	k	к	?	F11			
L	I	L	١	F12			
М	m	Μ	1	F13			
N	n	Ν	~	F14			
0	0	0	1	F15			
Р	р	Р	,	F16			
Q	q	Q	:	F17			
R	r	R	' (back quote)	F18			
S	S	S	" (quotes)	F19			
т	t	т	" (back quotes)	F20			
U	u	U	u or U	F21			
V	v	V	v or V	F22			
w	w	w	w or W	F23			
x	x	X	x or X	F24			
Y	у	Y	y or Y	F25			
Power	Off/On						
CTRL	Control		Menu				
Blue	Blue						

Кеу	Normal	Shift	Blue	Red
Red	Red			
Z	z	Z	z or Z	z or Z

7 Preliminary Draft 1/19/11 System Settings

Overview

Customized settings are available on the System Settings menu. Tap 🕑 > Settings and the settings screen opens.



Icon		Description
Bluetooth	*	Configures the Bluetooth radio. See Working with the Bluetooth Radio on page 10- 1.
Clock & Alarms		Set the system clock, date, time and schedule alarms. See Clock & Alarms on page 7-2.
Lock		Password protect the terminal to limit access to the terminal.
Sounds & Notifications	8	Set the sound volume, enable or disable sounds for specific actions, set sound parameters for system notifications and enable or disable vibrator notification.
Home		Customize the look and the information displayed on the Home screen.
Connections		Establishes network connections settings. See Connections Menu on page 8-1.
Personal		Customizes buttons, and set SIP options. See Personal Menu on page 7-3.

lcon		Description
System	101	Adjusts system settings. See System Menu on page 7-7.
Microsoft My Phone	a	Synchronizes your phone's contacts, calendar, tasks, text messages, music, photos, videos, and other documents with your My Phone account at http://myphone.microsoft.com.

Clock & Alarms

The Clock & Alarms settings can be accessed from the Home screen or the Settings Menu.

1. On the Home screen, tap the line that displays the time and date

OR



2. The Clock Settings screen appears. This setting sets the system clock. All scheduled items run according to this setting.





Tap the arrow to the right of the time zone to open the drop down menu. Select the appropriate time zone from the menu. Set the correct time and date in the remaining fields and tap **OK** to save.

Personal Menu

To access the Personal Menu, tap 🧐 > Settings > Personal. The screen opens displaying the Personal Menu.



lcon		Description
Buttons	@	Program the side buttons to perform specific tasks. See Buttons on page 7-3.
Owner Information	200	Enter your contact information. This information will appear on the Home screen.
Phone	Co.	When the GSM radio is enabled, tap this icon to set up user parameters. See Setup Options on page 9-7.

Buttons

The Buttons setting programs certain keyboard buttons to launch applications or execute commands.

Enable HotKeys

Default Buttons setting assignments are inactive until you enable the HotKeys Power Tool.

Tap *Solution* > **Power Tools** and tap the HotKeys icon **Solution once**. HotKeys is enabled, and the button assignments in the Buttons setting are active.

For more information about the HotKeys Power Tool, refer to the Dolphin Power Tools User's Guide, which is available for download from the web at www.honeywellaidc.com.

Changing Button Assignments

1. After HotKeys is enabled, tap



- Note: The buttons that appear on this window are the only buttons that can be programmed via the Buttons setting. You cannot add buttons to this window.
- 2. To change button assignment, tap on the name of the button in the **Button** column, and then select a program or command in the **Assign a program** drop down list.
- 3. Tap OK to save.
- 4. Press the button to verify that the program is launched or action performed.

Available Applications

The **Assign a program** list contains the applications installed on the terminal. If there is a program installed that you would like to see in this list, paste a Shortcut to the program in the \\Windows\Start Menu\Programs folder. For instructions about creating shortcuts, see Using File Explorer on page 7-5.

Additional Functions

The Assign a program list also contains the following commands:

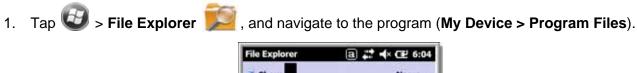
Command	Description
<context menu=""></context>	Performs the same function as tap-and-hold to open the context menu for the control.
<input panel=""/>	Opens the soft input panel.
<left softkey=""></left>	Opens the menu or performs the action displayed on the left side of the Command bar.
<left trigger=""></left>	Activates the scanner/imager.
<none></none>	Nothing happens when the button is pressed.
<ok close=""></ok>	Performs the same function as tapping OK on the screen.

Command	Description
<right softkey=""></right>	Opens the menu or performs the action displayed on the right side of the Command bar.
<right trigger=""></right>	Activates the scanner/imager.
<rotate screen=""></rotate>	Changes the screen orientation from portrait to landscape.
<scroll down=""></scroll>	Scrolls down in the open application.
<scroll left=""></scroll>	Scrolls left in the open application.
<scroll right=""></scroll>	Scrolls right in the open application.
<scroll up=""></scroll>	Scrolls up in the open application.
<start menu=""></start>	Opens the Start menu.

Using File Explorer

If you do not see the program listed, you can either use File Explorer to move the program or ActiveSync on the workstation to create a shortcut to the program and place the shortcut in the Start Menu folder.

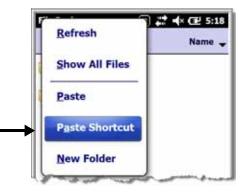
Note: We recommend that you Copy and Paste Shortcut so that you do not alter your program configurations by accident. Using Copy and Paste Shortcut (as opposed to Cut and Paste) ensures that the program files remain where they need to be for the system to find them to perform system functions.





2. Tap and hold on the program, then tap **Copy** on the pop-up menu.

3. Navigate to the Windows folder and open the Start Menu (**My Device > Windows > Start Menu > Programs**), tap and hold a blank area of the window, and tap **Paste Shortcut** on the pop-up menu.



Note: If there is no blank space available in the window, tap on Menu > Edit > Paste Shortcut.



4. Tap 🧐 to verify that the program now appears on the Start menu.

Using ActiveSync on the Workstation

Here, you are performing the same basic process as on the terminal, except that you are using the Explore utility (Windows Explorer) to copy and paste the shortcut.

- 1. Open ActiveSync > Explore and navigate to the program.
- 2. Right-click on the program and select Create Shortcut.
- 3. Select the shortcut, right-click, and select Cut.
- 4. Navigate to the Start Menu folder (Windows > Start Menu > Programs).
- 5. Right-click on an empty area and select Paste Shortcut.
- 6. On the terminal, tap the **Start** menu.
- 7. Verify that program appears.

System Menu

The System menu enables you to verify and sometimes alter system parameters. To access the System menu, go to **Start > Settings > System**. Tap the appropriate icon to open that system setting.



lcon		See Page
About	1	See About on page 7-8.
Backlight		See Backlight on page 7-9.
Battery	1	See Battery on page 7-10.
Certificates	- F	See Certificates on page 7-10.
Customer Feedback	3	See Customer Feedback on page 7-10.
Encryption		See Encryption on page 7-11.
Error Reporting	×	See Error Reporting on page 7-11.

lcon		See Page
External GPS		See External GPS on page 7-11.
Five Volt Control	9	See Five Volt Control on page 7-12.
HISS		See HISS on page 7-12.
Managed Programs		See Managed Programs on page 7-14.
Memory		See Memory on page 7-14.
Power	1	See Power on page 7-16.
RIL	Ŀ	See RIL on page 7-15.
Regional Settings	5	See Regional Settings on page 7-16.
Remove Programs	8	See Remove Programs on page 7-17.
Screen		See Screen on page 7-18.
Task Manager		See Task Manager on page 7-19.

About

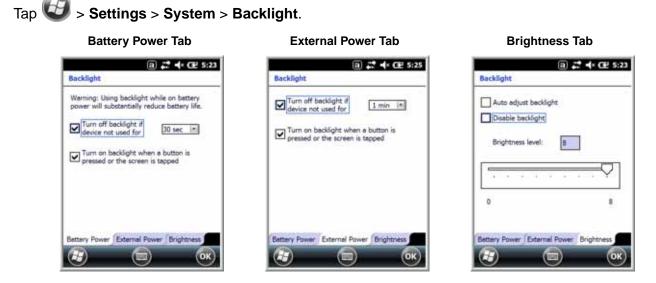
The About system setting displays specific information about the terminal. It contains three screens:

Version ScreenDisplays the information about the software, operating system, and processor.Device ID ScreenDisplays the information the terminal uses to identify itself to other devices. It can be important to know this information if the Dolphin terminal is going to be part of a networked system of devices.Device name: Displays the system's default name. (This is the name used by ActiveSync.)Description: Displays the description of the device ID.

Copyrights Screen Displays important copyright information.

Backlight

The Backlight system setting enables you to customize backlight functionality for the display. The backlight for the color display is user-defined. The Backlight system setting screen contains three tabs: Battery Power, External Power, and Brightness.



The Battery Power tab determines the backlight timeout when the terminal is running on battery power.

The **External Power** tab determines the backlight timeout when the terminal is running on external power.

The options on the power tabs are the same.

Turn off backlight: Select how many minutes you want to elapse before the backlight automatically turns off.

Turn on backlight: Select this option if you want the backlight to turn on when the button is pressed or the touch screen is tapped.

The **Brightness** tab determines the backlight intensity. Move the slider to set the intensity of the backlight. The default is 8.

Battery

The Battery system settings menu contains two tabs: Battery Status and Log Config. The Battery Status tab provides the status of the main battery pack (e.g., Battery Life Percentage, Voltage, Current, Temperature, Type, and Serial Number). The Log Config Tab allows you to enable and customize a time-event log.

Battery Status Tab	Log Config Tab
ⓐ ₽ ★ Œ 5:33	a 2 + ce
Bettery Life Percent 100 %	File With Some Log File to Interval To Log Enable Time Log Interval To 5 min
Bettery Time to Full Bettery Full Bettery Voltage 4201 mV Bettery Current 201 mA Bettery Temperature 26.8 C Bettery Chemistry LION Bettery Serial Number PSS0101330062	Event Log Enable External Power ✓ Disable External Power ✓ Disable External Power ✓ Disable External Power ✓ Serial Number Change ✓ Serial Number Change ✓ Temperature Above ✓ or Below Thresholds Select All Select None Bettery Status, Log Config

Certificates

Certificates shows you the certificates that are recognized by the operating system. It contains three screens.



Customer Feedback

Customer Feedback gives you the option to participate in the Microsoft Customer Experience Improvement Program.

Encryption

Encryption gives you the option of encrypting files placed on storage cards so that those files cannot be read by any other device.



Error Reporting

Error Reporting gives you the option of enabling or disabling the error reporting function of Windows Embedded Handheld 6.5.



External GPS

External GPS determines which port a third-party GPS software application can use to access the GPS receiver.



Note: You need the installation parameters from the GPS manufacturer to configure the connection.

Five Volt Control

Five Volt Control gives you the option to enable 5V output.

Note: Do not leave the USB Host enabled at all times.

HISS

The Honeywell Integrated Smart Sensor (HISS) configuration utility enables you to configure the Dolphin's integrated accelerometer, light, and proximity sensors.



Motion Settings

Motion Settings enable you to customize how the terminal responds to motion and object proximity for advanced power management.



Display Settings enables or disables Auto Display **Orientation**. When enabled, the Dolphin's display automatically switches between portrait and landscape depending on how you hold the terminal.

Power Mana	-		
	e Down		
	off display		
Suspe	ind device		
Mot	on Detect	on	
🗌 Кеер	on when n	notion deter	cted
Wake	up when	motion dete	cted
ower Manage	mark Fatt	ne Euset	

Power Management Settings customize how the terminal

- Save power by turning off the display or suspending the terminal when it is placed face down.
- Modify the Motion Detection settings to wake the terminal from suspend mode or prevent the terminal from entering suspend mode when motion is detected.



Event Track displays an event log summary of detected free fall events exceeding 2 ft. over 250 ms. The summary includes the time, date, and duration of the most recent 50 events. Several options are provided for audible notification of free fall events.

Light Settings



Light Sensor Settings customize how the terminal responds to the environmental lighting conditions in which the terminal is being used.

- Enable Display Backlight Adjustment automatically adjusts the brightness of the display screen depending on the environmental lighting conditions.
- Enable Automatic Keypad Backlight automatically turns the keypad backlight on or off depending on the environmental lighting conditions.

Proximity Settings

-Proximity Se	an Managaran	;:* ∢ × Œ 5:3
D Pr	oximity Sensi	or
Proximity	Sensor Sens	tivity Levels
		OK

Proximity Sensor Settings customize how the terminal responds to objects detected close to the touch screen display (e.g., a person's face, carrying holster, or tabletop). When enabled, the terminal automatically turns the display off when it detects an object in close proximity to the entire touch panel display. The display turns back on when the sensor detects the removal of the object. Sensor sensitivity is adjusted using the slider bar.

Accelerometer Calibration



Tap **Start** to calibrate the integrated accelerometer sensor used for motion detection. When calibration is complete, the "Accelerometer Calibration Finished!" message window appears.

Managed Programs

Managed Programs are a list of programs that are managed if enrolled to enterprise domain. Managed Programs is the client-side that works with the server product System Center Mobile Device Manager (MDM). MDM consists of MDM Gateway Server and one or more computers that run MDM Device Management Server; MDM Enrollment Server; and Microsoft SQL Server® 2005 databases.

It lets system administrators:

- provide an authenticated connection to LOB applications, managed Group Policy, and application packages.
- use Group Policy and software packages to manage the enrolled Windows phones (enforce policy, wipe devices, etc.).
- manage the requests for and retrieving of certificates for devices and for creating the Active Directory® Domain Service objects that represent these devices. By using these objects, you can manage the devices as if they were members of a domain.

Memory

The Memory system setting displays capacity and usage statistics for both RAM (volatile) and IPSM/ Storage Card (non-volatile) memory. Access this setting whenever you receive system messages about memory.

You cannot change the terminal's memory allocation in the Memory system setting. To change the memory allocation, you need to use the SetRAM Power Tool (**Start > Power Tools > SetRAM**). For more details, please refer to the Honeywell Power Tools User's Guide, which is available for download from www.honeywellaidc.com.

There are two screens: Main and Storage Card.

Main Screen

Memory		a 🗱 🔶 👁 s	
Storage C.	- <	Main	> Storage C
Storage		Prog	ram
Total	722.911	MB Tob	I: 230.11 MB
In use:	61.33	MB In us	e: 83.52 MB
Free:	661.571	MB Fre	et 146.59 MB
Eind lan	ge files	using sto	rage memory
			OK
		O	0

This screen displays the usage statistics of the on-board, volatile RAM memory.

Columns:

Storage = RAM memory used to store programs and program data. **Program** = RAM memory used to run programs.

Rows:

Total = Displays the current MB of memory allocated for use. **In use** = Displays the total MB of that allocated memory being used. **Free** = Displays the total MB of memory available.

Storage Card Screen

Total storage card me		
All the second the		
in use: 26.84 MB	Free: 9	L.00 MB
IDSM		
		0
ind large files us		

This screen displays the current capacity and usage statistics of the selected memory type: IPSM or Storage Card.

Select the memory type from the drop-down list. IPSM is selected by default.

Total storage card memory= The total MB of memory capacity of IPSM or Storage Card. **In use** = The MB currently being used. **Free** = The MB that is still available for use.

Note: The IPSM partition is fixed at 128MB and cannot be increased in size.

IPSM—Short for Internal Persistent Storage Manager, this is the on-board Flash memory that is non-volatile. This memory is non-volatile, data or programs stored in IPSM are not affected when power is removed or the operating system is upgraded. Autoinstall programs, for example, are stored in \\IPSM\Honeywell\Autoinstall so that they are always installed after a operating system upgrade or factory reset. See Honeywell support for more information on how to perform a factory reset.

Storage Card—You can install one memory card in Dolphin terminals (see Installing a Memory Card on page 3-10). If a storage card is installed in the terminal, you can select it in the drop-down list and see capacity and usage statistics for the card.

RIL

The RIL Information screen displays useful statistics for the GSM WAN Voice module (PH8).

To verify whether or not the GSM radio is enabled, check the Dolphin Wireless Manager (see page 8-6).

Power

Power system settings contains two tabs: Battery and Advanced.

Battery Tab



Advanced Tab

On battery power:		
Turn off device if not used for	1 minute	
On external power:		
Used for	1 minute	10

For more information, see Batteries on page 3-13.

Determines power time-outs.

For **On battery power**, select from the drop-down list, the number of minutes of inactivity you want to pass before the terminal powers off when running on battery power.

For **On external power**, select from the drop-down list, the number of minutes of inactivity you want to pass before the terminal powers off when running on external power.

Note: You can also set automatic turn-off times for the terminal to conserve power. When the terminal is "turned off," that means that it goes into Suspend Mode, see Software/Operating System Upgrades on page 3-17.

Regional Settings

Regional Settings enables you to customize the appearance and formatting to your geographic region. Specifically, you can customize numbers (i.e., number of decimal places allowed), currency (i.e., using the \$ or € symbol), time, and date. These specifications apply to all screens, including the Home screen. The Region tab displays an overview of the region selected in the drop-down list at the top.

The terminal is loaded with a number of pre-programmed regional settings. Select one from the list and the results appear on the screen. To see specific settings or to change a specific setting, tap on one of the tabs, make the change, and tap **OK** to save it.

Remove Programs

Remove Programs enables you to remove programs installed on the terminal. Use this setting to troubleshoot when you receive messages that the terminal is out of memory. The programs removed are removed from RAM memory. Any program (usually CAB or DLL files) stored in the Autoinstall folder (**My Device > IPSM > Honeywell > Autoinstall**) will re-install after the next hard reset, operating system upgrade or a factory reset.

For information about the hard reset process, see Hard Reset (Cold Boot) on page 3-17. See Honeywell support for more information on how to perform a factory reset.

1. Tap **Remove Programs**. In the list, select the program you want to remove.



2. Tap Remove. The following message appears:



- 3. Tap Yes. Wait while the program is removed.
- 4. Verify that the program no longer appears in the list.

Screen

The Screen system setting contains three screens: General, Clear Type, and Text Size.

General Screen



Orientation

The General screen enables you to set the dynamic screen rotation. Three choices of screen orientation are supported: Portrait, Landscape (right-handed), and Landscape (left-handed).

Align Screen

The General Tab also allows you to re-align the screen. You need to re-align the screen if tapping buttons or icons with the stylus no longer seems to work appropriately.

Tapping **Align Screen** brings up the align screen window where you are guided to tap a target several times. This recalibrates how the touch screen receives input.

- Alignment should always be performed with a stylus designed for touch panel applications. The small point is required for accurate calibration.
- Press the stylus firmly into the center of the cross-hair target once and release. Do not "double-tap" the target.



The display supports ClearType font rendering, which is a Microsoft technology that dramatically increases the readability of text on LCD displays.

To enable ClearType font rendering, select **Enable ClearType** and tap **OK**.

For more information about ClearType font rendering, visit: www.microsoft.com/typography/WhatIsClearType.mspx.

ClearType Screen

Text Size Screen



The Text Size screen enables you to perform font scaling within certain views of the:

- Home screen,
- Contacts,
- Calendar,
- Messaging, and
- Tasks.

Font scaling means that you can increase or decrease the point size of the font on application windows.

To change the font size, move the slider toward **Smallest** or **Largest**. The Example text changes to reflect the font change. Tap **OK** to save the new font size setting.

Task Manager

The Task Manager provides information about applications and processes running on your mobile computer. You can use the Task Manager to monitor the memory and CPU usage of specific applications and processes. Check the Task Manager when you are receiving out of memory errors or when the mobile computer is running slowly.



Using the Task Manager

Applications

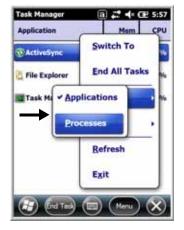


To view the status of the programs running on your mobile computer, tap the **Menu** button at the bottom of the screen, then tap **View > Applications**.

From the application list, you can:

- Tap and hold on an application, then tap **Switch To** on the pop-up menu.
- Tap and hold on an application, then tap **End Task** or **End All Tasks** on the pop-up menu.
- Note: Anytime you stop a running program, it frees up RAM memory. Be advised that, when you stop a program here, any unsaved data in that program is lost. To free up memory without risking data loss, return to the running program, save your data, and close the application.

Processes



To view information about the processes running on the mobile computer, tap the **Menu** button at the bottom of the screen, then tap **View > Processes**.

Connections Menu

The Connections system setting provides access to the terminal's various wireless communication options.



lcon		Tapping this icon
Beam	•0	Enables infrared communication. See Receiving Data on page 8-3.
Connections		Opens Microsoft's connections manager. See Connections Manager on page 8-4.
Domain Enroll		Opens the Enrollment screen for connecting your phone with company resources. Note: System administrator password is required for domain enrollment.
USB to PC	^ک و	Enables advanced wired USB to PC communication via sync sofware. See Communication on page 8-8.
Wi-Fi	([(-	Enables you to configure Wireless Zero Config (WZC). This icon appears only if the 802.11a/b/g driver is loaded on the terminal and the Honeywell WLAN Security Supplicant is not loaded. By default, the Wireless Zero Config is disabled and the supplicant is loaded. This icon appears only if you removed the supplicant and cold booted the terminal.

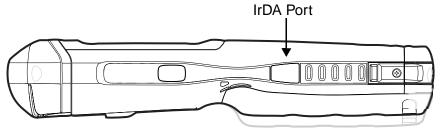
Note: All server-assigned IP addresses use Dynamic Host Configuration Protocol (DHCP).

Note: The Dolphin Wireless Manager controls the wireless radios installed in the terminal, see Dolphin Wireless Manager Window on page 8-6. for additional information.

Using the IrDA Port

Using the IrDA port, you can send and receive data between the terminal and other devices equipped with infrared. This can include, but is not limited to, Windows Embedded Handheld information such as Contacts and Tasks, as well as software upgrades.

IrDA Port Location



To send or receive, the IrDA ports of both devices - whether it is two terminals, or a terminal and a host device - must be aligned with each other and within a close range. The maximum data transfer speed is 115 Kbps.

Sending Data

- 1. Align the IrDA ports.
- 2. Open the program where you created the item you want to send and locate the item in the list. You can also beam files, but not folders, from File Explorer.
- 3. Tap and hold the item and select **Beam File**.

ЖH	y Pictures 🕳	Name -
6	ass 10/	14/09 62.6K
-	Cut	
	Сору	
2	Rename	
	Delete	
	Send	
	Beam File	
	Set as Tor Ba	cke und

4. The IrDA port searches for a receiving IrDA port in the vicinity. The selected device reads "Pending."

