

Dolphin™ 75e

with Windows Embedded 8.1 Handheld

User's Guide

Disclaimer

Honeywell International Inc. ("HII") reserves the right to make changes in specifications and other information contained in this document without prior notice, and the reader should in all cases consult HII to determine whether any such changes have been made. The information in this publication does not represent a commitment on the part of HII.

HII shall not be liable for technical or editorial errors or omissions contained herein; nor for incidental or consequential damages resulting from the furnishing, performance, or use of this material. HII disclaims any and all responsibility and liability for the selection and use of software and/or hardware to achieve intended results.

This document contains proprietary information that is protected by copyright. All rights are reserved. No part of this document may be photocopied, reproduced, or translated into another language without the prior written consent of HII.

Web Address: www.honeywellaidc.com

Trademarks

Microsoft, Windows, Windows Embedded Handheld, Windows Phone, Outlook, Cortana, OneDrive and the Windows logo are either registered trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.

Mac is a trademark of Apple Inc.

The Bluetooth trademarks are owned by Bluetooth SIG, Inc., U.S.A. and licensed to Honeywell.

Other product names mentioned in this manual may be trademarks or registered trademarks of their respective companies and are the property of their respective owners.

Patents

For patent information, see www.hsmpats.com.

Copyright © 2015 Honeywell International Inc. All rights reserved.



Table of Contents

Customer Support

Product Service and Repair	xi
Contacting Customer Support.....	xi
Limited Warranty	xi
Warranty Disclaimer: Proper Use of a Touch Screen Mobile Device.....	xi
How to Extend Your Warranty	xi
Send Feedback.....	xi

Chapter 1 - Getting Started

Out of the Box	1-1
Memory Card Specifications	1-1
Initial Setup for Dolphin 75e Terminal.....	1-1
Unlocking the Screen.....	1-5
Customizing the Start Screen and Accessing Apps.....	1-6
Accessing the Action Center from the Status Bar	1-7
Customizing the Quick Actions	1-7
Changing Notifications	1-8
Common Status and Notification Icons	1-8
About Cortana Voice Assistant	1-8
Using the Search Bar	1-9
Using Speech.....	1-9
Navigation/Function Buttons	1-10
Remap a Button Function	1-10
Virtual Keyboard	1-10
Using the Virtual Keyboard	1-11
Turning Power On/Off	1-11
Turning Sleep Mode (Suspend Mode) On/Off	1-11
Turning Airplane Mode On/Off	1-11
Replacing the Battery.....	1-12
Restarting the Terminal.....	1-13
Resetting the Terminal.....	1-13
Connecting the Terminal to a Computer (PC) via a USB Connection.....	1-14
Using the Windows Phone App to Connect	1-14
Using File Explorer or Windows Explorer to Transfer Files.....	1-14
Changing USB Permissions and Notifications	1-15

Chapter 2 - Hardware Overview

Standard Configuration for the Dolphin 75e.....	2-1
Peripherals for the Dolphin 75e	2-1
Accessories for the Dolphin 75e	2-2
Holsters (Model HOLSTER-2 and 6000-HOLSTER)	2-2
Wrist Lanyard (Model SL-LANYARD-1)	2-2
Stylus (Model 75e-Stylus)	2-2
Battery Door Kits.....	2-2
Battery (Models 70e-BTSC and 70e-BTEC)	2-2

Features of the Dolphin 75e	2-3
Front, Bottom, and Right Panels.....	2-3
Back, Top, and Left Panels.....	2-6
The I/O Connector	2-8
Battery	2-8
Replacement Battery Specifications	2-8
Battery Authorize Failed	2-9
Charging Options.....	2-9
Charging Times	2-9
Understanding the Battery Charge Status LED Indicator	2-10
Important Charging Guidelines	2-10
Checking the Battery Health	2-10
Managing Battery Power	2-11
Storing Batteries	2-13
Guidelines for Battery Pack Use and Disposal	2-13
System Resets	2-14
Hardware Maintenance	2-14
Installing a Memory Card.....	2-14
Installation and/or Replacement	2-14

Chapter 3 - Using the Scan Image Engine

Overview.....	3-1
Image Engine Specifications	3-1
Field of View	3-1
Depth of Field	3-1
Supported Bar Code Symbolologies	3-2
Decoding	3-2
Using the Scan Demo to Decode a Bar Code	3-2
Configuring the Scan Demo Application	3-4
Aiming Beam	3-5

Chapter 4 - Using the Color Camera

Overview.....	4-1
Opening the Camera app and Adjusting the Settings	4-1
Adjusting the Camera/Video Settings	4-1
Taking a Photo	4-1
Taking a Burst Photo	4-2
Uploading Pictures and Videos	4-3

Chapter 5 - Settings

Overview.....	5-1
Network and Wireless Settings.....	5-1

Personalization	5-1
Changing Start and the Screen Theme	5-1
Changing the Sound Settings	5-2
Managing Security and Customizing the Screen Lock	5-2
Changing App Specific Notifications	5-3
Selecting What to Sync	5-4
Setting Up Quiet Hours with Cortana	5-5
Email + Messaging Accounts	5-5
Adding a Microsoft Account	5-5
Adding Additional Accounts	5-5
Adding an Exchange Account	5-6
Modifying or Removing an Account	5-6
Workplace Accounts	5-7
Adding a Workplace Account	5-7
Deleting a Workplace Account	5-7
System	5-7
Change the Terminal Name	5-7
Viewing Software and Hardware information	5-8
Performing a Factory Reset (Clean Boot)	5-8
Changing the Display Settings	5-8
Viewing Storage Statistics and Managing Apps and Files	5-9
Changing the Battery Settings	5-10
Changing USB Settings	5-10
Using the SD card for Manual Flash	5-10
Time and Language Settings	5-11
Changing the Date, Time, or Time Zone	5-11
Changing the Terminal Language	5-12
Changing the Terminal Region	5-12
Adding and Modifying Keyboards	5-12
Input and Accessibility	5-13
Customizing Services and System Features for Accessibility	5-13
Configuring the Speech Feature	5-13
Privacy	5-14
Changing the Location Service Settings	5-14
Modifying and Viewing App Permissions	5-14
Update and Backup	5-14
Enabling Automatic Updates	5-15
Backup Your Apps and Settings	5-15
Performing a Manual Backup	5-15
Backup Your Photos and Videos	5-15
Deleting a Backup	5-16
Extras	5-16
Battery Status Settings	5-16
Changing the Button Illumination Settings	5-16
Modifying the Smart Sensors	5-16
Modifying Wi-Fi Radio Settings	5-17

Chapter 6 - Communication

Wireless & Network Settings	6-1
Connecting the Terminal to a Wireless Network	6-1
Wi-Fi Network Connections	6-1
Turning Wi-Fi Networking On or Off	6-2
Connecting to a Wi-Fi Network	6-2
Connecting to a Hidden Wi-Fi Network.....	6-2
Managing Wi-Fi Networks.....	6-2
Advanced Wi-Fi Radio Settings and Security	6-3
Modifying the Channel Settings	6-3
Changing the Roaming Settings	6-3
Enabling Protected Management Frame (PMF) or AKM with SHA256 Key Derivation	6-4
Airplane Mode	6-4
Virtual Private Networks (VPN)	6-4
Adding a VPN Profile	6-4
Connecting to a VPN	6-5
Disconnecting the VPN.....	6-6
Editing or Deleting a VPN Profile.....	6-6
Viewing the VPN Profile Status	6-6
Working with Certificates	6-6
Installing a Certificate via Internet Explorer	6-6
Installing a Certificate via email	6-6
Installing a Certificate via MDM	6-7
Removing Certificates.....	6-7
Ethernet Communication	6-7
Viewing Network Adapter Information and Renewing/Releasing IP Addresses	6-7
Using the Ping App to Test a Network Connection.....	6-8
Changing How Data Packets are Routed.....	6-9

Chapter 7 - Working with Bluetooth and NFC Technology

Bluetooth Technology	7-1
Turning the Bluetooth Radio On or Off	7-1
Pairing and Trusted Devices.....	7-1
Connecting to Other Bluetooth Devices.....	7-1
Unpairing Bluetooth Devices	7-1
Making the Terminal Discoverable	7-2
Bluetooth Advanced Options	7-2
Sharing Photos and Videos	7-2
Near Field Communication (NFC) Technology.....	7-2
Hardware Requirements.....	7-3
Security Recommendation.....	7-3
NFC Settings	7-3
Sharing Photos and Videos	7-3
Reading NFC Tags.....	7-4

Chapter 8 - Dolphin 70e Black HomeBase (Model 70e-HB)

Overview.....	8-1
Unpacking the HomeBase.....	8-1
Optional Equipment.....	8-1
Charging Overview.....	8-1
Convenient Storage.....	8-1
Capacity.....	8-2
Dimensions.....	8-2
Weight.....	8-2
Parts and Functions.....	8-3
Front Panel.....	8-3
Back Panel.....	8-4
Bottom Panel.....	8-4
Power.....	8-4
Connecting Power to the HomeBase.....	8-5
Charging the Main Battery.....	8-5
Charging a Spare Battery in the Auxiliary Battery Well.....	8-5
Communication.....	8-6
Requirements.....	8-6
Establishing USB Communication.....	8-6
Mounting the HomeBase.....	8-6
Optional DIN Rail Mount.....	8-6
Additional Hardware.....	8-6
Installing the DIN Rail.....	8-7

Chapter 9 - Dolphin 70e Black eBase (Model 70e-EHB)

Overview.....	9-1
Unpacking the eBase.....	9-1
Optional Equipment.....	9-1
Charging Overview.....	9-1
Convenient Storage.....	9-1
Capacity.....	9-1
Dimensions.....	9-2
Weight.....	9-2
Parts and Functions.....	9-2
Front Panel.....	9-2
Back Panel.....	9-3
Bottom Panel.....	9-4
Power.....	9-4
Connecting Power to the eBase.....	9-5
Charging the Main Battery.....	9-5
To Power a Terminal and Charge its Main Battery.....	9-5
Charging a Spare Battery in the Auxiliary Battery Well.....	9-5
Communication.....	9-6
Establishing Ethernet Communication.....	9-6
Establishing USB Communication.....	9-6
Mounting the eBase.....	9-7

Chapter 10 - Dolphin 70e Black Mobile Base (Model 70e-MB)

Overview.....	10-1
Charging Overview	10-1
Convenient Storage	10-1
Dimensions.....	10-1
Weight	10-1
Mobile Base Components	10-2
Adjustable Arm with Suction Cup Base for Windshield Mounting	10-2
Mounting the Mobile Base	10-3
Safety Precautions.....	10-3
Installation.....	10-3
Charging the Main Battery.....	10-4
To Power a Terminal and Charge its Main Battery.....	10-5
Removing the Cable	10-6

Chapter 11 - Dolphin 70e Black ChargeBase (Model 70e-CB)

Overview.....	11-1
Unpacking the ChargeBase.....	11-1
Charging Overview	11-1
Convenient Storage	11-1
Capacity.....	11-1
Dimensions.....	11-2
Weight	11-2
Parts and Functions.....	11-2
Front Panel	11-2
Dock LEDs.....	11-2
Back Panel	11-3
Power Supply Connector.....	11-3
Bottom Panel	11-3
Power	11-3
Connecting Power to the ChargeBase	11-4
Charging the Main Battery.....	11-4
To Power a Terminal and Charge its Main Battery.....	11-4
Mounting the ChargeBase.....	11-4
Optional DIN Rail Mount.....	11-5
Additional Hardware	11-5
Installing the DIN Rail	11-5

Chapter 12 - Dolphin 70e Black Net Base (Model 70e-NB)

Unpacking the Net Base.....	12-1
Optional Equipment	12-1
Charging Overview	12-1
Convenient Storage	12-1
Capacity.....	12-1
Dimensions.....	12-2
Weight	12-2

Parts and Functions.....	12-2
Front Panel	12-2
Bottom Panel	12-4
Power	12-4
Connecting Power to the Net Base.....	12-4
Charging the Main Battery	12-4
To Power a Terminal and Charge the Main Battery	12-4
Communication.....	12-5
Establishing Ethernet Communication.....	12-5
Bottom Panel	12-5
Optional DIN Rail Mount.....	12-6
Additional Hardware	12-6
Installing the DIN Rail	12-6

Appendix A - Dolphin 75e Terminal Agency Information

Label Locations	A-1
Model Number and Serial Number	A-1
RF Exposure Information (SAR).....	A-1



Customer Support

Product Service and Repair

Honeywell International Inc. provides service for all of its products through service centers throughout the world. To find your service center, go to www.honeywellaidc.com and select **Support > Contact Support > Service and Repair**. Contact your service center to obtain a Return Material Authorization number (RMA #) before you return the product. To obtain warranty or non-warranty service, return your product to Honeywell (postage paid) with a copy of the dated purchase record.

For ongoing and future product quality improvement initiatives, the terminal comes equipped with an embedded device lifetime counter function. Honeywell may use the lifetime counter data for future statistical reliability analysis as well as ongoing quality, repair and service purposes.

Contacting Customer Support

To search our knowledge base for a solution or to log in to the Technical Support portal and report a problem, go to www.hsmcontactsupport.com.

For our latest contact information, see www.honeywellaidc.com/locations.

Limited Warranty

For warranty information, go to www.honeywellaidc.com and click **Resources > Warranty**.

The limited duration of the warranty for the Dolphin 75e is as follows:

- The duration of the limited warranty for terminals with an integrated imager is one year.
- The duration of the limited warranty for touch screens is one year.

The duration of the limited warranty for batteries is one year. Use of any battery from a source other than Honeywell may result in damage not covered by the warranty. Batteries returned to Honeywell International Inc. in a reduced state may or not be replaced under this warranty. Battery life will be greatly increased when following the battery instructions in this user's guide.

The duration of the limited warranty for the Dolphin 70e Black HomeBase, Dolphin 70e Black eBase, Dolphin 70e Black Net Base, Dolphin 70e Black Mobile Base, Dolphin 70e Black ChargeBase, and the Common QuadCharger is one year.

Warranty Disclaimer: Proper Use of a Touch Screen Mobile Device

If your device has a touch screen display, please note that a touch screen responds best to a light touch from the pad of your finger or a Honeywell approved stylus. Using excessive force or a metallic object when pressing on the touch-screen may cause damage to the tempered glass surface and may not be covered by the product's warranty.

How to Extend Your Warranty

Honeywell International Inc. offers a variety of service plans on our hardware products. These agreements offer continued coverage for your equipment after the initial warranty expires. For more information, contact your Sales Representative, Customer Account Representative, or Product Service Marketing Manager from Honeywell International Inc., or your Authorized Reseller.

Send Feedback

Your feedback is crucial to the continual improvement of our documentation. To provide feedback about this manual, please contact the Technical Communications department directly at ACSHSMTtechnicalcommunications@honeywell.com.



Getting Started

Out of the Box

Verify that the carton contains the following items:

- Dolphin 75e handheld computer (terminal)
- 1 GB, 2 GB or 4 GB industrial grade microSD™ memory card (optional)
- Rechargeable 3.7V Li-ion battery
- USB charge/communication cable
- Power adapter with regional plug adapters
- Product documentation

If you ordered accessories for your terminal, verify that they are also included with the order. Be sure to keep the original packaging in case you need to return the Dolphin terminal for service.

Memory Card Specifications

Honeywell recommends the use of Single Level Cell (SLC) industrial grade microSD or microSDHC™ memory cards with Dolphin terminals for maximum performance and durability. Contact a Honeywell sales representative for additional information on qualified memory card options.

Initial Setup for Dolphin 75e Terminal

Step 1. Install the Battery

Before installing the main battery, read the [Guidelines for Battery Pack Use and Disposal](#) on page 2-13.

The terminal is shipped with the battery packaged separate from the unit. To install the battery, follow the installation steps illustrated. For information on how to remove the battery, see [Replacing the Battery](#) on page 1-12.

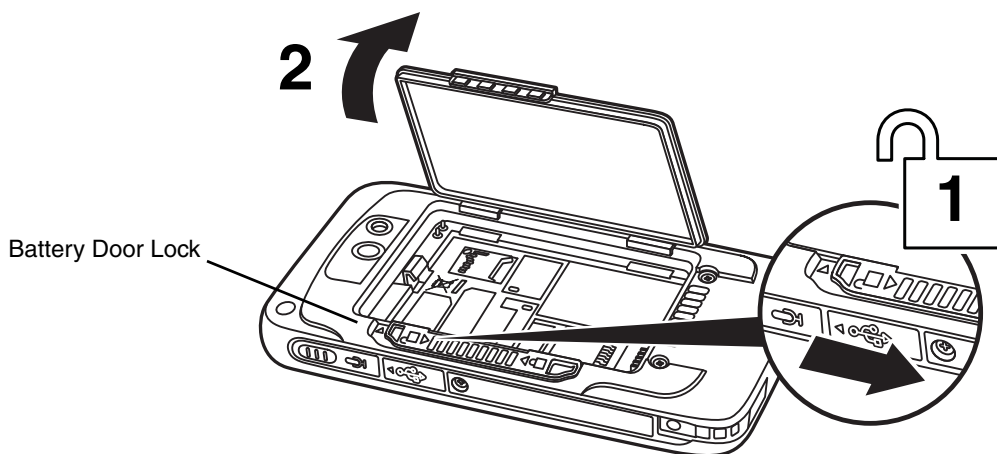


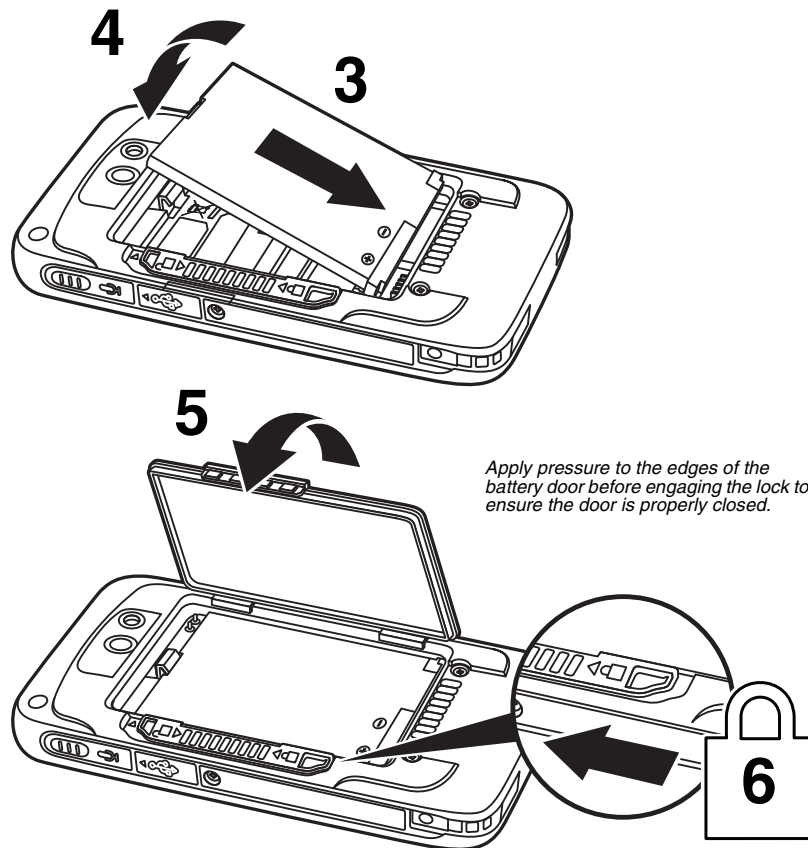
Ensure all components are dry prior to placing the battery in the terminal. Mating wet components may cause damage not covered by the warranty.

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

Important: All battery and connector doors must be present, undamaged, and properly closed to maintain the environmental rating of the terminal.

Note: Standard battery and standard battery door shown.





Step 2. Charge the Battery

The power source for the Dolphin terminal is the 3.7V Li-ion rechargeable battery located under the battery door on the back panel of the device. See [Battery](#) on page 2-8 for additional information on battery storage, use, and disposal.

Important: Removing the battery from the terminal erases all non-persistent memory. Always power off the terminal before removing the battery. For information on how to remove the battery from the terminal, see [Replacing the Battery](#) on page 1-12.

Before Initial Use

Dolphin terminals ship with the battery significantly discharged of power. After installing the battery in the terminal, charge the battery with a Dolphin 75e compatible charging peripheral for a minimum of **4 hours** for the standard battery pack or **6 hours** for the extended battery pack. When using the 70e-USB Charge/Communication cable to charge from a 500mA USB port on a host device, charge the battery for a minimum of **6 hours** for the standard battery and **8 hours** for the extended battery.

Note: Inadequate source current may interfere with effective battery charging; see [Important Charging Guidelines](#) on page 2-10 for additional information.



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.

Dolphin 75e model terminals are designed for use with the following charging devices and cables: 70e-HB, 70e-CB, 70e-EHB, 70e-NB, 70e-MB, 70e-MC, and 70e-USB ADAPTERKIT. See pages 2-1 and 2-2 for additional information on peripherals and accessories.



Ensure all components are dry prior to mating terminals/batteries with peripheral devices. Mating wet components may cause damage not covered by the warranty.

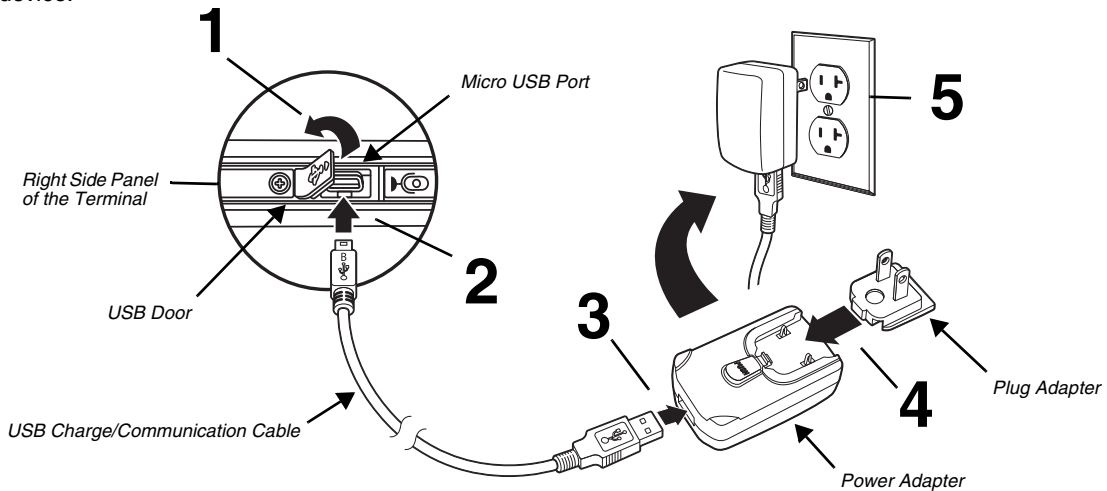
Using the USB Charge/Communication Cable (Model 70e-USB ADAPTERKIT)

Dolphin 75e terminals ship with a USB Charge/Communication Cable and a power adapter with regional plug adapters. The USB Charge/Communication cable provides two options for charging the terminal. Use the cable in conjunction with the provided power supply adapter and plug adapter to charge the terminal from a power outlet (Option 1) or connect the cable to a high-power USB port to charge from a host device (Option 2).

Warning: The terminal shall only be connected to CTIA certified adapters, products that bear the USB-IF logo or products that have completed the USB-IF compliance program when using the micro USB port as a charging source.

Option 1: Charging from a power outlet

Use only a UL Listed power supply, which has been qualified by Honeywell with an output rated at 5VDC and 1A with the device.

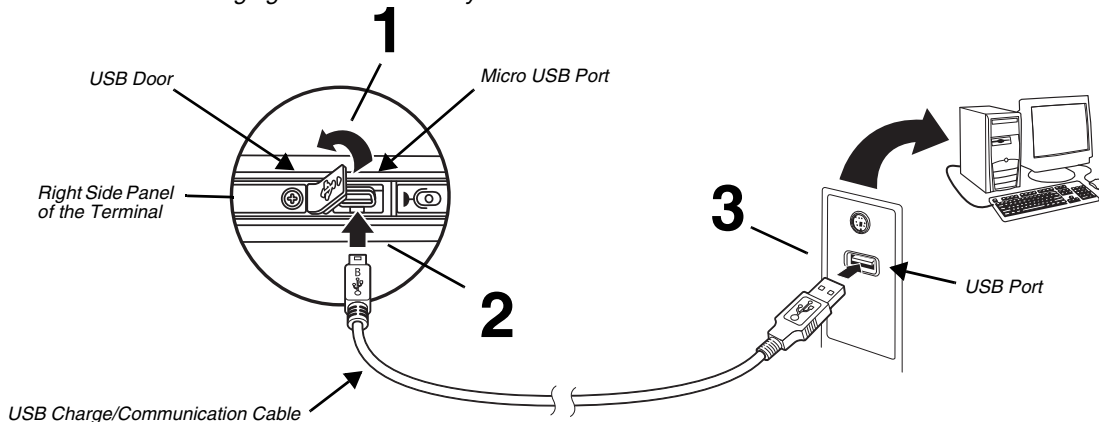


Option 2: Charging from a high power USB port on a host device (PC)

Charging the battery through a USB port takes more time than direct charging using the provided power supply. Inadequate source current may lengthen the charge time or prevent the battery from charging if the terminal is drawing more current than supplied by the USB port. The maximum current supplied by a USB Host can vary from 100mA to 500mA. **Do not attempt to charge the terminal from a 100mA source.** An active Dolphin terminal uses more current than supplied by a 100mA source causing the terminal to continue to draw power from the battery. See [Important Charging Guidelines](#) on page 2-10 for additional information.

On **Start** , swipe left to view the **App list**. Select **Settings**  > **USB**. Check the box next to “Notify me when I connect to a slower charger”.

*Note: Placing the terminal in **Sleep (Suspend)** mode while charging reduces the current draw of the terminal and shortens the charging time of the battery.*




Step 3. Power On and Set Up the Terminal

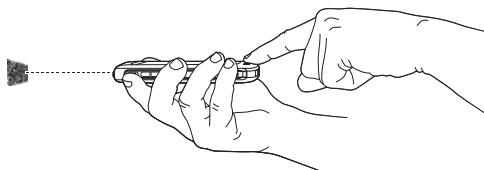
The first time you power up the Dolphin terminal, you have the option to set up your handheld using one of the following methods:

- Use a custom provisioning file (Prov.xml) to configure the terminal on startup. Custom provisioning allows you to set up multiple devices with organization-specific settings so they are ready to use. To learn more about creating custom provisioning XML files, see the Administrator Guide for Windows Embedded 8.1 Handheld, available from Microsoft at <https://technet.microsoft.com>.
- Use the Quick Start bar code to bypass custom provisioning and go straight to the Windows Start screen.
- Use the Consumer setup wizard that steps you through configuring the terminal and setting up a Microsoft® account (optional). Once you add a Microsoft account, there is no way to change it without resetting the terminal.


How to Use the Quick Start Bar Code or a Custom Provisional Bar Code

To use a provisioning bar code:

1. Press the **Power** button .
2. From the Welcome screen, select a language, and then **next**.
3. Point the terminal at the Quick Start bar code (below) or a custom provisional bar code, and then press the **Scan** button. For optimum performance, avoid reflections by scanning the bar code at a slight angle.



On a successful scan, the terminal beeps twice and “configuration received” appears under the Barcode option on the screen.

4. Touch **next**. “Configuration in progress” appears on the screen. When the terminal is done booting, the **Start**  screen appears.

How to Use a Custom Prov.xml file on an SD Card

To use a Prov.xml file saved to an SD Card:

1. Save the Prov.xml file to the root directory of the SD Card.


When using the SD card for provisioning, the file must be named Prov.xml and must be located in the root path. The provisioning file should also be encoded as UTF-8 or UTF-16LE, including the byte order mark (BOM).

2. Install the card in the terminal.

For information on how to install the SD card, see [Installing a Memory Card](#) on page 2-14.

3. Press the **Power** button .
4. From the Welcome screen, select a language, and then **next**.


The terminal automatically starts searching for provisioning data sources. When the Prov.xml file is found, “configuration received” appears under the SD Card option.

5. Touch **next**. “Configuration in progress” appears on the screen. When the terminal is done booting, the **Start**  screen appears.


How to Use Near Field Communication (NFC) Technology

To use an NFC tag:


1. Press the **Power** button .
2. From the Welcome screen, select a language, and then **next**.

-
3. Touch **NFC**.
 4. Hold the NFC tag close to the back of the terminal. When an NFC tag is recognized, “configuration received” appears under the NFC option.
 5. Touch **next**. “Configuration in progress” appears on the screen. When the terminal is done booting, the **Start**  screen appears.


To use an NFC enabled device:

1. Verify **Tap to share** and **Bluetooth** is enable on the sending device.
2. Press the **Power** button  on the terminal.
3. From the Welcome screen, select a language, and then **next**.
4. Touch **NFC**.
5. On the sending device, locate and select the prov.xml file. The maximum file size allowable is 128 KB.
6. Touch Share.
7. Hold the terminal back to back with the sending device.

When the entire Prov.xml is received, “configuration received” appears under the NFC option.

8. Touch **next**. “Configuration in progress” appears on the screen. When the terminal is done booting, the **Start**  screen appears.


Unlocking the Screen


Swipe up from the bottom of the screen to unlock the terminal and access the **Start**  screen.



For information on customizing the security feature, see [Managing Security and Customizing the Screen Lock](#) on page 5-2.






Customizing the Start Screen and Accessing Apps

Start  is the first screen you see once you power on the terminal and unlock screen. You can add, delete, move, resize, or group Tiles into folders for easy quick access. Tiles can be apps, contacts, maps, albums, or office files. Live Tiles provide notifications and updates in real time (e.g., weather stats).

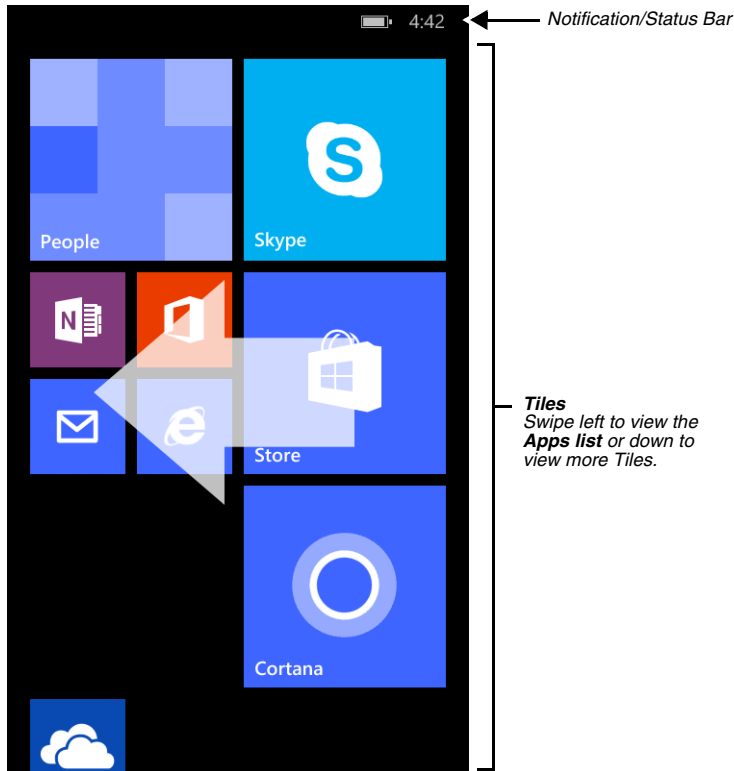
On **Start** , touch and hold a **Tile**, and then:

- Drag the Tile to a new location on the screen.
- Touch **Unpin**  to delete the Tile.
- Touch the **arrow**  to toggle through Tile sizes.

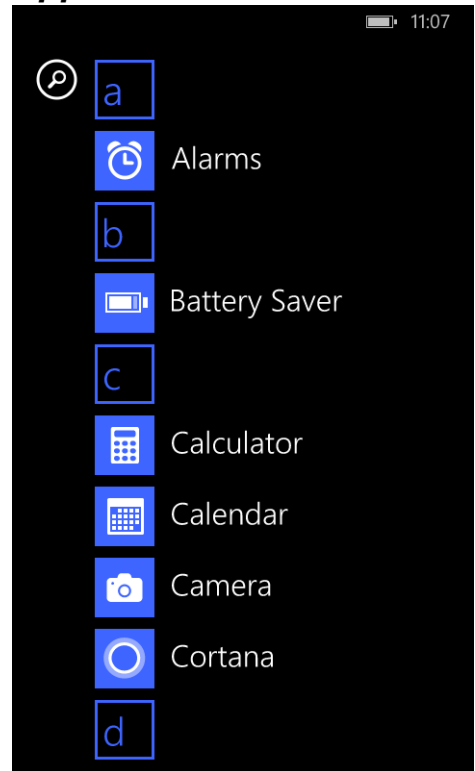
On **Start** , swipe left to access the **Apps list**. The Apps list contains a complete list of all the apps loaded on the terminal. You can pin anything on the **Apps list** on **Start**.

- Touch and hold an app, and then select **pin to start**.
- Touch the app icon/name to open the app.
- Touch a letter  or Search  to find an app quick.

Start








Apps List



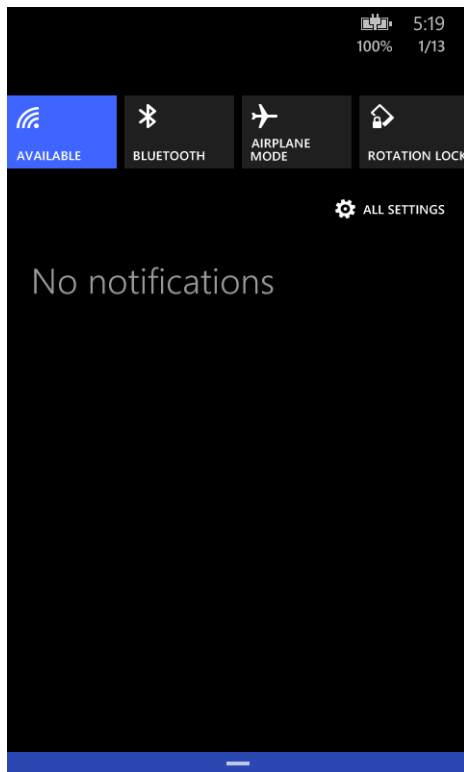
Accessing the Action Center from the Status Bar

To view the battery charge level (%), details about a notification or to quickly access and modify settings, touch and hold the status bar at the top of the screen and then drag down.

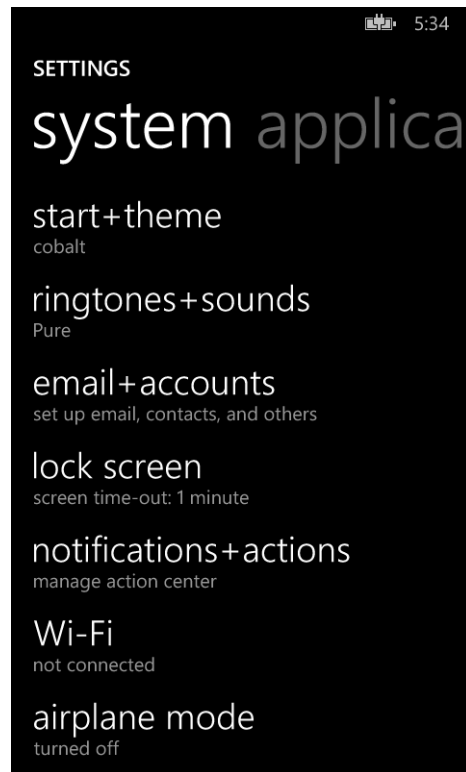
- The battery charge level (%) shows in the upper left corner of the screen.
- Touch any notification to open the related app and access additional settings or information.
- Touch  ALL SETTINGS to access system and application settings.
- Touch  to access the Wi-Fi settings screen where you can view available networks, add a Wi-Fi network, or turn Wi-Fi networking On or Off.
- Touch  to turn the Bluetooth technology on or off.
- Touch  AIRPLANE MODE to toggle Airplane Mode on or off.
- Touch  ROTATION LOCK to turn on or off automatic screen rotation when you rotate the terminal 90 degrees.

To close the action center, swipe up from the bottom of the screen.

Action Center




All Settings




Customizing the Quick Actions

To customize the action center:

1. From the Action Center, select  **ALL SETTINGS** > **notifications + actions**.
2. Touch the shortcut you want to change.
3. Select a new app from the list.












Changing Notifications

If you want to keep notifications hidden when you access the Action Center from the Lock screen:

1. From the Action Center, select  **ALL SETTINGS** > **notifications + actions**.
2. Remove the check from the box next to **Show notifications in action center when my phone is locked**.
The default setting is enabled (checked).

You can also set how and when specific apps show notifications. For more information, see [Changing App Specific Notifications](#) on page 5-3.

Common Status and Notification Icons

Icon	Meaning	Icon	Meaning
<i>Note: Status and notification icons are hardware and software dependent. Some of the icons listed below may not be relevant for your Dolphin model.</i>			
	An app or service is using terminal location information.		Sound is turned off.
	Unread notification		Vibrate mode is turned on.
	Wi-Fi is turned On, there is an active Wi-Fi network connection and the signal strength is strong.		Battery charge level
	Wi-Fi is turned On, there is an active Wi-Fi network connection but the signal strength is weak.		Battery saver mode is turned on.
	Bluetooth is turned On, the terminal is paired to another device with Bluetooth technology and the connection between terminal and paired device is active.		Terminal is connected to external power. When the battery is charging the battery charge and external power icons toggle off and on.
			Airplane mode is turned on.



Note: To view details about the status of the WLAN (Wi-Fi) and Bluetooth radio connections, swipe down from the top of the screen to expand the Action Center is expanded.

About Cortana Voice Assistant

Cortana is your personal assistant app that makes daily tasks easier and faster by using voice commands, simple questions, and quick screen input. Here are some of the things **Cortana** can help you with:

- Send an e-mail or message
- Schedule a meeting
- Set a reminders for an important tasks or events
- Check your location, get directions
- Get up-to-date traffic and weather info




To get started with **Cortana** you need an active Wi-Fi connection and a Microsoft account.

Press the **Search** button  or the touch the **Cortana** tile on the **Start**  screen.

This feature is not available in all languages or regions. For information on how to use **Cortana** or to view information on availability, go to www.windowsphone.com. If you do not want to use **Cortana** or it is not available in your country or region, you can still use the **Speech** functionality on your the terminal.

Turning Cortana Off

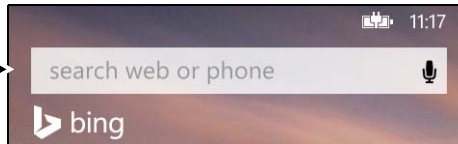
To turn Cortana On or Off:


1. Press the **Search** button .
2. Touch Cortana's Notebook , and then select **Settings**.
3. Turn Cortana Off  and restart the terminal.

Using the Search Bar

You can search for an item on the terminal or Internet using **Cortana** or **Bing**. An active Internet connection is required.

Touch inside the box to access the virtual keyboard for text entry search.




Touch  to initiate a voice search or a voice action.

Using Speech

If Cortana is turned off or unavailable in your region, you can still use **Speech** to initiate voice commands to send a text message, open an app, or perform an online search.

To use Speech:

1. Press and hold the **Search**  button. **Listening ...** appears on the terminal screen when Speech is active and ready for a voice command.

The first time Speech is activated, you are asked to either accept or decline the Microsoft speech recognition service. If you accept, the words you speak and the supporting data, including recent contact names, will be sent to Microsoft to provide and improve the service. Some commands and searches require the Service be turned On. You can turn the service On or Off from the speech settings screen.

To learn about adjusting the Speech feature, see [Configuring the Speech Feature](#) on page 5-13.

2. Do one of the following:
 - Say a command.
 - Ask a question.
 - Touch **see more** to select a category for some ideas about what to say.

Sample Commands and Questions









You can use the following sample commands with Speech.

Say . . .	To . . .
Open . . .	Open an app. Examples: <ul style="list-style-type: none">• “Open Email” accesses Outlook and view your emails.• “Open Settings” accesses Settings app from the Apps list.• “Open People” accesses your Contacts in the People app.
Note . . . or Note to self . . .	Open and save a note in OneNote. You can then view and edit the note text. Examples: <ul style="list-style-type: none">• “Note to self: find book on building motors”• “Note: get milk”

Search for . . . or Find . . . or Ask a question.	Display Bing search results for a term. Examples: <ul style="list-style-type: none"> • “Search for a map of Boston” • “Find weather in Seattle ” • “What time is it in Paris?”
---	--

Navigation/Function Buttons

The Dolphin terminal has seven navigation/function buttons.

Button	Function
 Back	Press to return to the previous screen. Press and hold to open the App switcher.
 Administrator or Developer Defined	For information on how to define the button function for custom configurations, see the Administrator Guide for Windows Embedded 8.1 Handheld, available from Microsoft® at https://technet.microsoft.com .
 Scan	Press to trigger the scanner/imager in the Scan Demo app The Scan button functions as a system wake-up control if the terminal has entered Sleep mode (Suspend mode).
 Search	If Cortana is turned Off, press to search the terminal and Web using Bing or press and hold to activate Speech for voice commands. If Cortana is turned On, press to ask a question or initiate a voice command. To learn more about Cortana, go to www.windowsphone.com . Button function is also Administrator or Developer definable.
 Start	Press to return to the Start screen.
 Right & Left Side	Press to trigger the scanner/imager in the Scan Demo app.
 Volume	Press to raise or lower the volume of the active speaker. The status bar briefly expands when you press either the volume up or down button. Touch  on the bar to access the volume adjustment slider for either the ringer and notifications or media and apps.

Remap a Button Function

Remapping the button functions requires reconfiguring the terminal using a custom provisional XML file. For information on how to create custom provisional file, see the Administrator Guide for Windows Embedded 8.1 Handheld, available from Microsoft at <https://technet.microsoft.com>.

Virtual Keyboard

The virtual keyboard appears when you open an application or select a field that requires text or numerical input. The content of the keyboard may vary depending on the application in use and the input field requirements.


Using the Virtual Keyboard

During text input, you may need to switch between keyboard modes to access additional character sets (e.g., function keys, symbols, and numbers). Each keyboard mode, includes navigation keys, which allow you to quickly switch between modes. Touch the **abcd** key to switch to the Qwerty Mode, and the **&123** key to switch to the Numeric Mode. Touch and hold the the **period “.”** key to access additional symbols (e.g., dash “-”, exclamation point “!”, question mark “?”, colon “:”) and 😊 for emoticons.


See [Time and Language Settings](#) on page 5-11 for additional information on configuring keyboard & input methods.

Note: The content of the keyboard and the mode initially displayed may vary depending on the application in use and the input field requirements.

Turning Power On/Off

To turn the terminal On, press and release the **Power** button .

To turn the terminal Off:


1. Press and hold the **Power** button .
2. When the message, “slide down to power off” appears, release the button and swipe down toward the bottom of the screen.


You should always power off the terminal before removing the battery. For information on removing the battery, see [Replacing the Battery](#).

Turning Sleep Mode (Suspend Mode) On/Off


Sleep mode automatically turns the touch panel display off and locks the terminal to save battery power when the terminal is inactive for a programmed period of time.

To wake the terminal from sleep mode and unlock the screen:

1. Press and release the **Power** button .
2. Swipe up from the bottom of the screen to unlock the terminal.

To manually place the unit in **Sleep** mode, press and release the **Power** button .


To adjust the time out limits:

1. Touch **Settings**  on the Apps list screen.
2. Select **lock screen** to adjust the display time out limit or select **sensor settings > features** to adjust the sleep time out limit.

Turning Airplane Mode On/Off

Turn **Airplane Mode** on to disable all the terminal radios that transmit voice or data.

To toggle Airplane Mode On or Off.

1. Swipe down from the top of the screen to display the action center.
2. Touch **Airplane Mode** to toggle the mode on or off. When Airplane Mode is turned on,  shows on the status bar.

Replacing the Battery

Before replacing the battery, read the [Guidelines for Battery Pack Use and Disposal](#) on page 2-13. For battery replacement part numbers, see [Replacement Battery Specifications](#) on page 2-8.



RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. The battery should be disposed of by a qualified re-cycler or hazardous materials handler. Do not incinerate the battery or dispose of the battery with general waste materials.

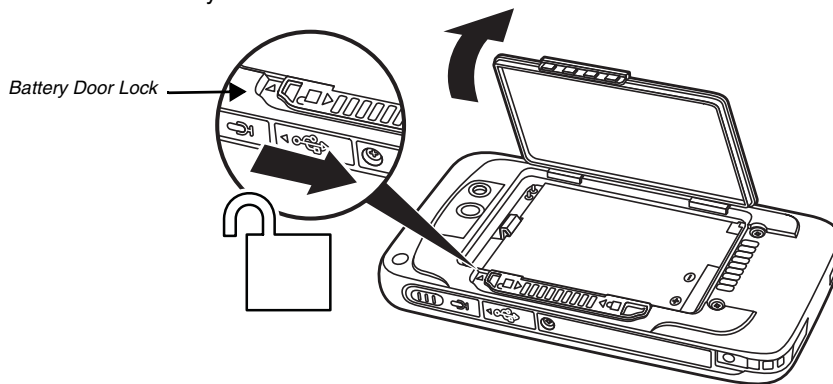
Ensure all components are dry prior to mating terminals/batteries with peripheral devices. Mating wet components may cause damage not covered by the warranty.

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

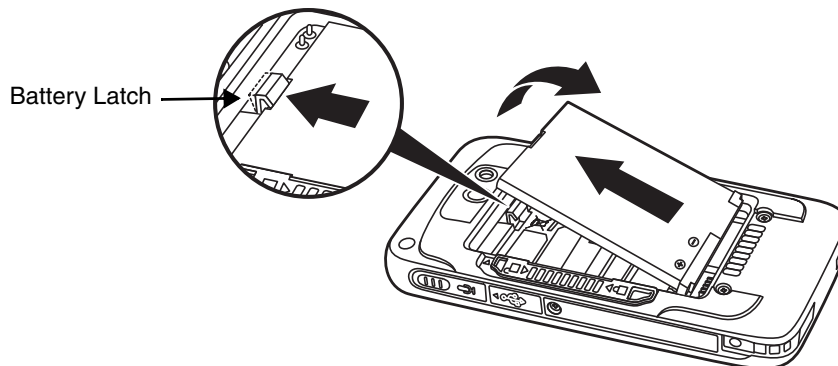
The following illustrations depict a standard battery with a standard battery door; however, battery removal and installation procedures are the same for the extended battery and extended battery door.

To replace the battery:

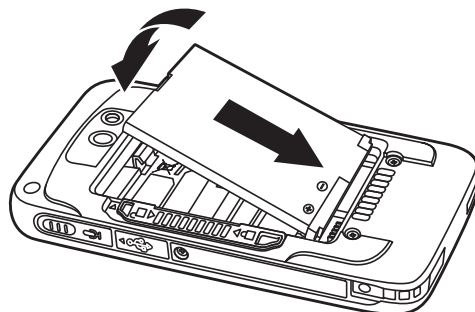
1. Power Off the terminal.
2. Unlock and remove the battery door.



3. Pull the battery latch back and remove the battery.



-
4. Insert the new battery and install the battery door.




5. Apply pressure to the edges of the battery door to ensure the door is properly closed. Engage the door lock.

6. Press the **Power** button .



Important: All battery and connector doors must be present, undamaged, and properly closed to maintain the environmental rating of the terminal.

Restarting the Terminal

You may need to restart the terminal to correct conditions where an application stops responding to the system or the terminal seems to be locked up.

- Press and hold the **Power** button . When the message, “slide down to power off” appears, release the button and swipe down toward the bottom of the screen. Press the Power button and to turn the terminal back on.

To perform a restart if the touch panel display is unresponsive:

- Press and hold the **Volume Down**  and **Power**  buttons simultaneously for 10-15 seconds. The terminal automatically restarts.

Resetting the Terminal


If the terminal completely stops responding, you may need to perform a **Factory Reset (Clean Boot)**. Because resetting the terminal can result in data loss, use this method only if all other recovery methods have failed.

When a reset is performed, all personal content is erased (e.g., emails, pictures, contacts) and all factory default settings are restored on the terminal. The reset discards any account information you added, including your Microsoft account information. Only installed Microsoft over-the-air (OTA) updates persist after a reset is performed.









Caution: A **Factory Reset (Clean Boot)** erases the memory in the terminal, including all applications and data files, with the exception of those found in the Flash File Store or any removable storage. Any custom provisioning must be reimplemented after a Factory Reset.

To perform a **Factory Reset (Clean Boot)**:

1. Touch **Settings**  on the **Apps list** screen.
2. Touch **about**, and then select **reset your phone**.
3. Touch **Yes**, and then **Yes** again to confirm restoring the factory settings.
4. Once the terminal resets, the set up Welcome screen appears. For more information, see [Power On and Set Up the Terminal](#) on page 1-4.

To perform a **Factory Reset** if your touchscreen is unresponsive and all other recovery methods have failed:

1. Press and hold the **Volume Down**  and **Power**  buttons simultaneously until a large exclamation mark appears on the screen.
2. Press the following buttons in this order: **Volume Up**  > **Volume Down**  > **Power**  > **Volume Down** .
3. Once the terminal resets, the set up Welcome screen appears. For more information, see [Power On and Set Up the Terminal](#) on page 1-4.

Connecting the Terminal to a Computer (PC) via a USB Connection

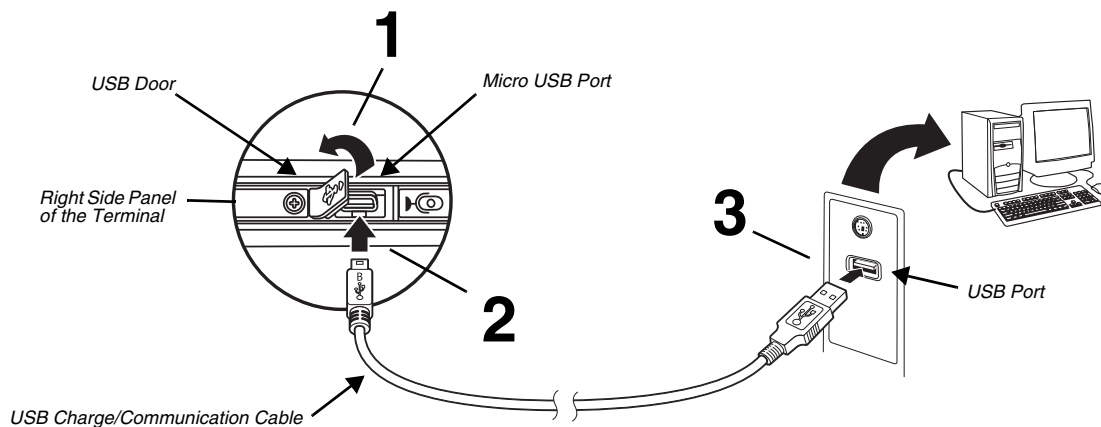
You can transfer files (e.g., pictures, music, and videos) between your computer and the terminal using the supplied USB Charge/Communication cable or a Dolphin 70e Black HomeBase with a standard USB cable.

Note: The terminal supports Hi-Speed USB communication (USB 2.0) with a maximum data transfer rate of 480 Mbps.

Using the Windows Phone App to Connect

1. Connect the terminal to the PC using the USB charge/communication cable supplied.

If you are using Windows® 8, the Windows Phone® app automatically opens on the PC. If you are using Windows 7 or Mac, go to www.windowsphone.com to download and install the Windows Phone app for desktop or Mac.



2. In the Windows Phone app, set your phone name and sync preferences.


The default phone name is “Windows Embedded Handheld”. You can always modify your preferences later by selecting **Settings** in the upper right corner of the app screen.

Using File Explorer or Windows Explorer to Transfer Files

To move files between your Dolphin terminal and PC without using the app:

1. Connect the terminal to the PC using the USB charge/communication cable supplied.
2. Depending on the Windows operating system either open **File Explorer** or **Windows Explorer**.
3. Under **Computer**, click on **Windows Embedded Handheld > Phone**.
4. You can now copy, delete and/or move files or folders between the computer and the terminal or the an microSD card installed in the terminal as you would with any other storage drive (e.g., cut and paste or drag and drop).

Changing USB Permissions and Notifications

1. In the **Apps list**, touch **Settings**  .
2. Touch **USB**.
3. Touch the box next to the options you want to enable (check mark) or disable (no check mark).
 - Ask me before using USB to communicate with other devices.
 - Notify me when I connect to a slower charger.

The Dolphin 75e should only be connected via its microUSB connector to CTIA certified adapters, products that bear the USB-IF logo or products that have completed, the USB-IF compliance program.



Hardware Overview

Standard Configuration for the Dolphin 75e

WLAN, WPAN, NFC & Camera

- Windows Embedded 8.1 Handheld
- Qualcomm APQ8074AB Processor
- 2GB RAM X 16GB Flash
- 3.7V Li-ion rechargeable standard or extended battery pack
- Dedicated imager capable of decoding standard 1D and 2D bar code symbologies
- 8.0 megapixel auto focus color camera
- 802.11a/b/g/n/ac and Bluetooth
- Near Field Communication (NFC) support

Peripherals for the Dolphin 75e

Each of the following items is sold separately to enhance the capabilities of your Dolphin terminal. Dolphin 70e Black peripherals are compatible with Dolphin 75e terminals.

Dolphin 70e Black HomeBase (Model 70e-HB)

The HomeBase is a charging and communication cradle equipped with a USB host port that is Hi-Speed 2.0v compliant, 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 standard or extended battery pack.

For more information, see [Dolphin 70e Black HomeBase \(Model 70e-HB\)](#) on page 8-1.

Dolphin 70e Black eBase (Model 70e-EHB)

The Ethernet Base (eBase) enables a single Dolphin 75e terminal to communicate with a host device over an Ethernet network. In addition, the ebase is equipped with a USB host port that is Hi-Speed 2.0v compliant, 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 standard or extended battery pack.

For more information, see [Dolphin 70e Black eBase \(Model 70e-EHB\)](#) on page 9-1.

Dolphin 70e Black Mobile Base (Model 70e-MB)

The Mobile Base is a charging cradle designed specifically for in-premise and in-transit data collection applications. It features a flexible mounting bracket, an integrated speaker with volume control, and a cigarette lighter adapter to adapt it to your mobile environment.

For more information, see [Dolphin 70e Black Mobile Base \(Model 70e-MB\)](#) on page 10-1.

Dolphin 70e Black ChargeBase (Model 70e-CB)

The ChargeBase is a 4-slot charging cradle that holds, powers, and charges terminals.

For more information, see [Dolphin 70e Black ChargeBase \(Model 70e-CB\)](#) on page 11-1.

Dolphin 70e Black Net Base (Model 70e-NB)

The Net Base enables up to four Dolphin 75e terminals 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 70e Black Net Base \(Model 70e-NB\)](#) on page 12-1.

QuadCharger (Model COMMON-QC)

The QuadCharger is a compact 4-slot battery charging station designed for use with Dolphin 75e 3.7V Li-ion rechargeable batteries. For additional information on the common QuadCharger, visit the Dolphin 75e product page at www.honeywellaidc.com or contact your local sales representative.

Accessories for the Dolphin 75e

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 70e Black Mobile Charger (Model 70e-MC)

The 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 Mobile Charger is an ideal low-cost charging solution for in-transit mobile applications.

USB Charge/Communication Cable Adapter Kit (Model 70e-USB ADAPTERKIT)

The Dolphin USB charge/communication cable adapter kit is an all-in-one solution for charging and communication. Use the 70e-USB cable in conjunction with the included power supply adapter and plug adapter to charge the terminal from a power outlet or connect the cable to a high-power USB port to charge from a host device. The 70e-USB cable also supports communication with a computer without the need for a cradle. See [Connecting the Terminal to a Computer \(PC\) via a USB Connection](#) on page 1-14.

Holsters (Model HOLSTER-2 and 6000-HOLSTER)

A holster provides convenient storage for the Dolphin 75e terminal in mobile environments. Long and short holster models with integrated belt clips and spare battery pouches are available.

Wrist Lanyard (Model SL-LANYARD-1)

The black wrist lanyard attaches to the bottom corner of the terminal providing additional security from accidental drop during terminal use.

Stylus (Model 75e-Stylus)

The stylus has a special tip for added accuracy and ease when operating the touch panel. The tether is a coiled, elastic cord, which secures the stylus to the terminal to prevent accidental loss. The stylus may be ordered with or without the tether.

Battery Door Kits

Replacement battery door kits are available for both standard and extended battery door types. See [Important Battery and Battery Door Replacement Guidelines](#) on page 2-9 before ordering battery door kits for your terminal.

Battery (Models 70e-BTSC and 70e-BTEC)

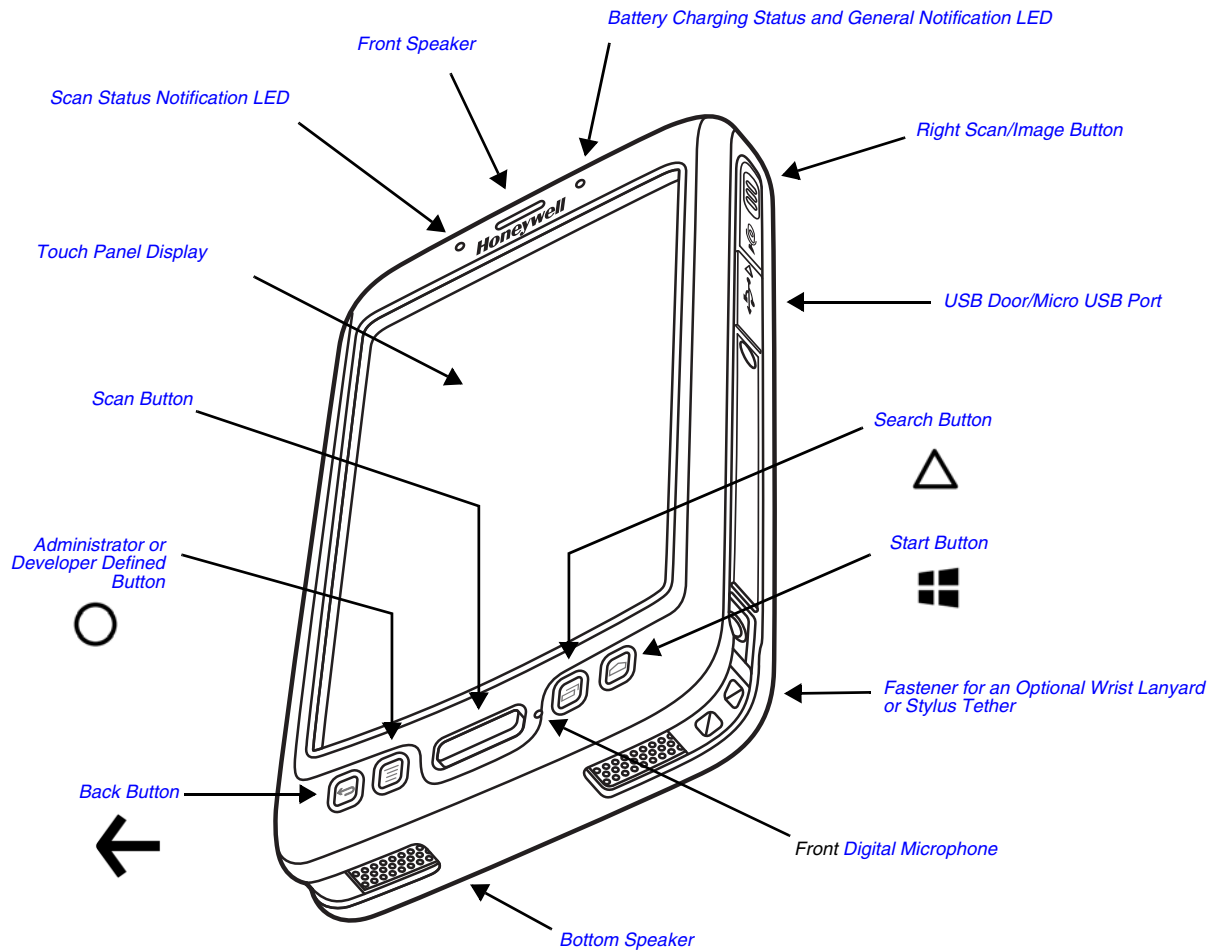
The 3.7V Li-ion rechargeable battery provides the main power for the terminal. See [Battery](#) on page 2-8 for battery specifications, replacement part numbers, and guidelines for use and disposal.

Protective Rubber Boot (Model 70e-BOOT)

Protective Black Rubber Enclosure provides added protection.

Features of the Dolphin 75e


Front, Bottom, and Right Panels



For a description of each callout, [see page 2-4](#).

Feature Descriptions: Front, Bottom, and Right Panels

Back Button

The **Back**  button returns you to the previous screen. When you press and hold the Back button, the App switcher opens allowing you to view and switch between recently used apps.

Bottom Speaker

The integrated bottom 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 speaker phone for VoIP audio.

Digital Microphone

The integrated digital microphone, located on the front of the terminal provide audio input for handset VoIP calls when a headset is not plugged into the [Audio Jack](#) (see page 2-7). When a headset is plugged into the Audio Jack, the terminal defaults to the microphone on the headset. By default, the front microphone is also used for speaker phone calls, voice command audio input, and recording sound.

Front Speaker

The front speaker is the receiver for handset VoIP calls.


Fastener for an Optional Wrist Lanyard or Stylus Tether

The fastener provides access for attaching an optional wrist lanyard or stylus tether.


Battery Charging Status and General Notification LED

The light emitting diode (LED) located above and to the right of the display panel indicates the battery charge status. The LED also illuminates briefly during power up and a reboot. For detailed information on settings and meanings, see [Understanding the Battery Charge Status LED Indicator](#) on page 2-10.

Start Button

The **Start**  button returns you to the Start screen, see page 1-10.


Administrator or Developer Defined Button

By default this button  is left unassigned (open) for administrator and developer customization. To define the button function, a provisional XML file (Prov.xml) must be used to configure the terminal on initial startup. To learn more about provisioning the terminal using a Prov.xml file, see the Administrator Guide for Windows Embedded 8.1 Handheld, available from Microsoft at <https://technet.microsoft.com>.

Right Scan/Image Button

The right button triggers the scanner/imager in the **Scan Demo** app.

Search Button

The **Search**  button functions differently depending on your **Cortana** or **Speech** settings. If Cortana is turned Off, press the button to search the terminal and Web using the **Bing** browser or press and hold the button to activate Speech for voice commands. If **Cortana** is turned On, press to ask a question or initiate a voice command. To learn how to turn Cortana On or Off, see [About Cortana Voice Assistant](#) on page 1-8.

The Search button is also administrator or developer definable. To change how the button function, a provisional XML file (Prov.xml) must be used to configure the terminal on initial startup. To learn more about provisioning the terminal using a Prov.xml file, see the Administrator Guide for Windows Embedded 8.1 Handheld, available from Microsoft at <https://technet.microsoft.com>.

Scan Button

The Scan button functions as a system wake-up control if the terminal has entered Sleep mode (Suspend mode). The button also triggers the scanner/imager when the Scan demo app is open and set to either Normal or Continuous mode.

Touch Panel Display

The color 4.3 inch WVGA (480 x 800 resolution) multi-touch capacitive touch panel is covered with an industrial protective lens for greater durability. The touch panel can be activated with a finger or with the optional stylus.

*Note: To conserve battery power the touch screen dims and then turns off after a period of no activity. Press the **Power button** to wake the terminal from Sleep Mode (Suspend mode). See [Managing Security and Customizing the Screen Lock](#) on page 5-2 for information on how to adjust sleep (timeout) settings.*

USB Door/Micro USB Port

The micro USB port is located under the protective USB door on the right side of the terminal. To access the micro USB port, gently lift the top edge of the door closest to the digital microphone.

The micro USB port in conjunction with the USB Charge/Communication Cable Adapter Kit powers the terminal, charges the main battery, and facilitates communication. The micro USB port supports low, full, and high-speed USB v2.0 client communication with a maximum rate of 480 Mbps.

For additional information, see [Using the USB Charge/Communication Cable \(Model 70e-USB ADAPTERKIT\)](#) on page 1-3 and [Connecting the Terminal to a Computer \(PC\) via a USB Connection](#) on page 1-14.

The Dolphin 75e should only be connected via its microUSB connector to CTIA certified adapters, products that bear the USB-IF logo or products that have completed the USB-IF compliance program.

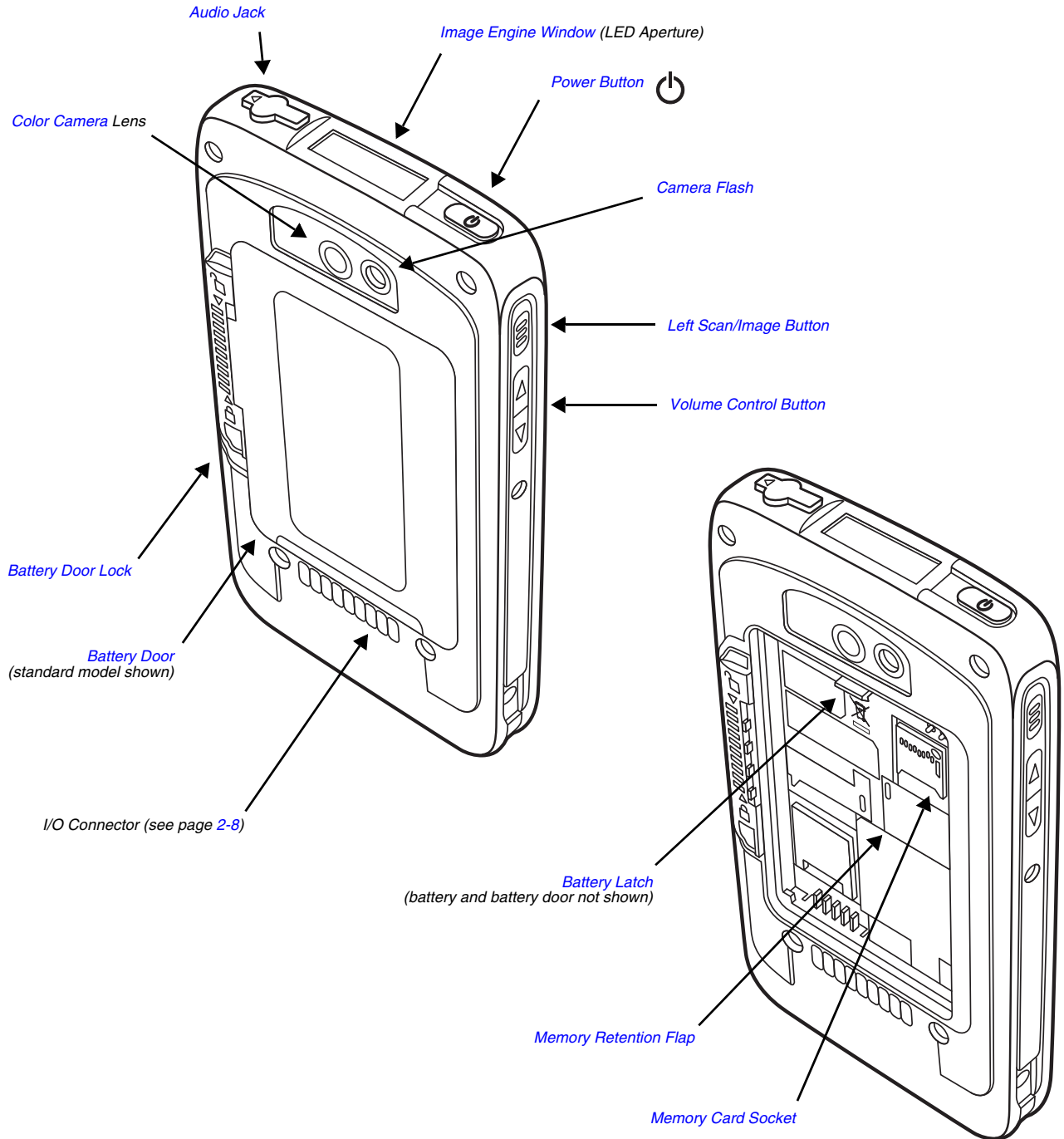
Scan Status Notification LED

The light emitting diode (LED) located above and to the left of the LCD display flashes and illuminates during scan/ image capture to provide scan status information. For additional information on the scan engine, see [Using the Scan Image Engine](#) on page 3-1.

The LED may also flash blue if the notifications setting has been turned on for select applications. To learn how to change app notification settings, see [Changing App Specific Notifications](#) on page 5-3.

Back, Top, and Left Panels

For a description of each callout, see page 2-7.



Feature Descriptions: Back, Top, and Left Panels

Audio Jack

The audio jack is located under the protective door on the top of the terminal. To access the jack gently lift the edge of the door marked with an arrow. The 3.5mm audio jack supports both speaker (stereo) and microphone (mono) headsets.

Battery

The 3.7V Li-ion rechargeable battery provides the main power for the terminal and is protected by the battery door. See [Battery](#) on page 2-8 for battery specifications, replacement part numbers, and guidelines for use and disposal.

Battery Door

The battery door protects the battery and any installed SIM and/or memory cards in the terminal's battery well. Proper installation of the battery door preserves the environmental rating of the terminal. Do not use the terminal without the battery door installed.

Battery Door Lock

The battery door lock secures the battery door to the terminal. Slide the lock down toward the IO contacts to release the lock for battery door removal and battery access. Slide the lock up toward the camera lens to secure the battery door closed and seal the battery in the terminal.

Battery Latch

The battery latch secures the battery in the battery well. Pull the latch away from the battery to release and remove the battery from the terminal. For information on [Replacing the Battery](#), see page 1-12.

Color Camera

The 8.0-Megapixel Resolution color camera provides easy picture and video capture. The camera lens and camera flash are located on the back panel of the terminal.

Camera Flash

The camera flash is located on the back panel of the terminal. When used as a Camera Flash with the integrated color camera, the flash is controlled by the camera application.

Image Engine Window

The image engine reads and decodes linear, stacked linear (e.g., PDF417), and 2D matrix bar code symbologies. The LED aperture for the imaging engine's LED aimer is contained behind this window. For more details, see [Using the Scan Image Engine](#) on page 3-1.

Left Scan/Image Button

The left button triggers the scanner/imager when scan wedging is enabled (default) or when a scan/image demo app is open (e.g., IQ Image Demo or Scan Demo). You can reassign the button to launch applications or execute commands; see [Remap a Button Function](#) on page 1-10.

Memory Card Socket


The memory card socket gives you the option to expand the terminal's memory capacity using microSD or microSDHC memory interfaces. The expansion socket is located under the battery door and battery.

When the battery door and battery pack are properly installed, the 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 2-14.

Memory Retention Flap

The retention flap locks the memory card in the socket; see [Installing a Memory Card](#) on page 2-14.


Power Button

The **Power** button , located on the top of the terminal, initiates multiple functions depending on the length of time the button is pressed. For information about how use the button to:

- Turn Power On or Off, see page 1-11.
- Turn Sleep (Suspend Mode) On or Off, see page 1-11.
- Restart the terminal if the touch screen is unresponsive, see page 1-13.

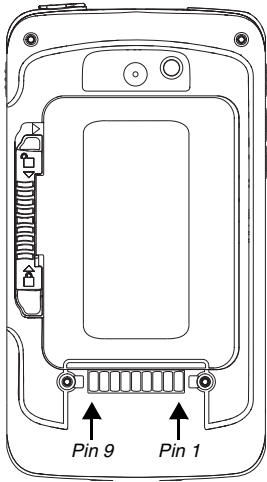
Volume Control Button

Press the top or bottom of the volume button to raise or lower the volume of the active speaker. Lower the volume all the way down to turn off the volume and enable vibration only mode.

The status bar briefly expands when you press either the volume up or down button. Touch the  to expand the bar and access the volume adjustment slider for either the ringer and notifications or media and apps.

The I/O Connector

The I/O connector powers the terminal, charges the main battery, and facilitates communication. Dolphin 70e Black peripherals are designed to work exclusively with this connector. The I/O connector supports low, full, and high speed USB v2.0 communication with a maximum rate of 480 Mbps.

Pin	Signal	Description	Terminal Back Panel
1	VDC_IN	5V DC input for charging and operation	
2	VBUS_HOST	5V output for USB host and peripheral power	
3	USB_DM_HOST	USB D- for the host port	
4	USB_DP_HOST	USB D+ for the host port	
5	USBC_DET	Multipurpose pin to allow for detection of an unpowered SLED, determine SLED type, and to signal a HomeBase the docking of the terminal.	
6	GND	Ground connection	
7	USB_DN_DOCK	USB D- for the client port	
8	USB_DP_DOCK	USB D+ for the client port	
9	VBUS_DOCK	5V input for USB client (and charging)	

Note: Signals referenced are for a DTE device.

Battery

The primary power source for the Dolphin terminal is the 3.7V Li-ion rechargeable battery located under the battery door on the back panel of the device. Honeywell recommends, you keep the battery in the terminal charged at all times to help prevent data loss. Letting the battery become fully discharged causes the terminal to lose all data in RAM.

Note: All data in RAM is cleared when the battery is removed. Always power off the terminal before removing the battery to ensure any changes made are saved to the flash memory.

Replacement Battery Specifications

Dolphin 75e model terminals are designed for use with battery part numbers BAT-STANDARD-02 (Li-ion 3.7V, 6.179 watt hour) and BAT-EXTENDED-02 (Li-ion 3.7V, 12.358 watt hour) manufactured for Honeywell International Inc. For information on how to replace the battery, see page 1-12.

Important Battery and Battery Door Replacement Guidelines

Follow the guidelines listed below when ordering batteries and/or battery doors.

- Size (e.g., standard or extended): The battery and battery door must be the same size.
- Type (e.g., locking or non-locking): Dolphin 75e models are only compatible locking type battery doors.
- Near Field Communication (NFC) requirements: Use only NFC compatible battery doors with NFC equipped Dolphin models identified with the letter N at the end of the model number (e.g., 75exxN).



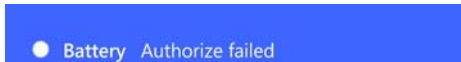
We recommend use of Honeywell Li-ion battery packs. Use of any non-Honeywell battery may result in damage not covered by the warranty.

Important: All battery and connector doors must be present, undamaged, and properly closed to maintain the environmental rating of the terminal.

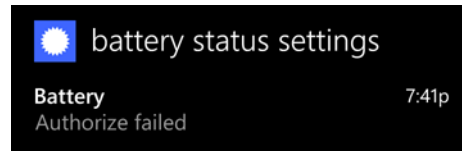
Battery Authorize Failed

If a “Battery Authorize failed” notification appears, replace the battery with a qualified Honeywell Li-ion battery pack. The battery does not charge if authentication fails.

Start



Action Center



Charging Options

Dolphin 75e terminals ship with the battery significantly discharged of power. Before using a terminal for the first time, charge the battery with a Dolphin charging device for a minimum of **4 hours** for the standard battery and **6 hours** for the extended battery. When using the 70e-USB Charge/Communication cable to charge from a 500mA USB port on a host device, charge the battery for a minimum of **6 hours** for the standard battery and **8 hours** for the extended battery.

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

- [Dolphin 70e Black HomeBase \(Model 70e-HB\)](#), see page 8-1
- [Dolphin 70e Black eBase \(Model 70e-EHB\)](#), see page 9-1
- [Dolphin 70e Black Mobile Base \(Model 70e-MB\)](#), see page 10-1
- [Dolphin 70e Black ChargeBase \(Model 70e-CB\)](#), see page 11-1
- [Dolphin 70e Black Net Base \(Model 70e-NB\)](#), see page 12-1
- Dolphin 70e USB Charge/Communication Cable (Model 70e-USB ADAPTERKIT) included with terminal, [see page 1-14](#)

When the main battery is not installed in the terminal:

- Place the battery pack in the [Auxiliary Battery Well](#) of the [Dolphin 70e Black HomeBase \(Model 70e-HB\)](#) or the [Dolphin 70e Black eBase \(Model 70e-EHB\)](#).
- Insert the battery in the QuadCharger (Model COMMON-QC), [see page 2-1](#).

Charging Times

Charging Peripheral/Accessory	Model: 70e-BTSC	Model: 70e-BTEC
	BAT-STANDARD-02	BAT-EXTENDED-02
HomeBase (Model 70e-HB)	4 hours	6 hours
eBase (Model 70e-EHB)	4 hours	6 hours
ChargeBase (Model 70e-CB)	4 hours	6 hours
Net Base (Model 70e-NB)	4 hours	6 hours
Mobile Base (Model 70e-MB)	4 hours	6 hours
Mobile Charger (Model 70e-MC)	4 hours	6 hours

USB Charge/Communication Cable with provided power supply (Model 70e-USB ADAPTERKIT)	4 hours	6 hours
USB Charge/Communication Cable (Model 70e-USB) connected to a workstation (PC) 500mA USB port	6 hours	8 hours
QuadCharger (Model COMMON-QC)	4 hours	6 hours

Understanding the Battery Charge Status LED Indicator

The activity of the Battery Charge Status LED provides feedback about the charge level and charging status of the battery in the terminal.

Terminal is Connected Charger	LED Illumination	Battery Charge Level
No	Blinking Red	Battery level is below 15%
No	Off	Battery level is 15% or more
Yes	Steady Amber	Battery level is between 0% and 60%
Yes	Blinking Green	Battery level is between 61% and 95%
Yes	Steady Green	Battery level is above 95%
Either	Blinking Red	Battery error

Important Charging Guidelines

Source Current Specifications




Battery charging times can be significantly lengthened or charging may not occur if the terminal is drawing more current than is supplied by the charging peripheral (e.g., HomeBase, eBase, Mobile Base, or ChargeBase), USB wall charger, or USB Host (e.g., workstation PC).

- The maximum current supplied through a charging peripheral is 2.0A.
- The maximum current supplied by the USB wall charger is 900mA.
- The maximum current supplied by a USB Host can vary from 100mA to 500mA. Do not attempt to charge the terminal from a 100mA source. An active Dolphin terminal uses more current than supplied by a 100mA source causing the terminal to continue to draw power from the battery.

*Note: Placing the terminal in **Sleep Mode** (Suspend mode) while charging reduces the current draw of the terminal and shortens the charging time of the battery.*


On **Start** , swipe left to view the **App list**. Select **Settings**  > **USB**. Check the box next to “Notify me when I connect to a slower charger”.

Charging a Severely Low or Completely Discharged Battery

The terminal powers off if the battery charge goes below 5%. If you press the power button and a low battery image  briefly appears on the screen but the unit does not start, the battery charge is too low to boot. Connect the terminal to an AC power source for charging. When you first connect the terminal to the charger, the battery charge status LED on the terminal briefly turns red, then Off and back On to a steady amber. As the battery charge reaches approximately 2%, the a battery charging icon temporarily appears and flashes from  to  on the terminal screen. Once the battery reaches a safe charge threshold (approximately 7%), the terminal starts to boot. The length of time before the battery reaches a safe charge threshold varies depending on the extent of the battery discharge.

Note: If you are charging the terminal from a USB host device (PC) using the USB Charge/Communication Cable, the length of time before the battery reaches a safe charge threshold varies depending on the extent of the initial battery discharge level and the current supplied by the USB charging source. Inadequate source current may interfere with effective battery charging.


Checking the Battery Health

On the **Settings**  screen under extras, select **battery status settings**.

Viewing the Battery State

On the **battery state** screen, you can view statistics about the battery including the:

- Battery life percent—This statistic indicates the percentage of charge left on the battery.
- Time to empty
- Voltage
- Current
- Temperature
- SOH (State of Health)—This battery health percentage provides an indication of the recharging life left on the battery. A Li-ion battery can be recharged many times but the battery life is still limited.
- Cycle count
- Serial Number


To access settings that conserve battery power and view app power consumption statistics, select **Battery Saver**  from the **Apps list**.

Turning on the Battery Log

When the battery log feature is enabled, battery state related events and statistics are logged and displayed on the screen. The default logging interval is 5 minutes but can be changed to 10 minutes, 15 minutes, 30 minutes, or 60 minutes. The first three fields note the date, time and event type. Additional information logged is determined by the event type. Events include:

- TIME LOG
- BATT REMOVAL (when AC is connected)
- BATT PRESENT
- BATT CHANGE
- BATT CRITICAL
- BATT FULL
- POWER ON LINE (for external VDC_IN)
- POWER USB DCP (for a dedicated charger connected)
- POWER USB FULL (for 500mA USB client connection)
- POWER USB LIMITED (for a USB power source is present but only available at 100m)

To enable the logging feature:


1. Swipe left from the **battery state** screen to view the **battery log** screen.
2. Touch the box next to **Enable Log** to turn On the battery Time log feature. By default, the battery **Time log** setting is turned Off (no check in the box).
3. Select the **Interval Time** (minutes) for logging events. As events are logged, they appear on the screen.
4. Select  to save your settings.

Managing Battery Power

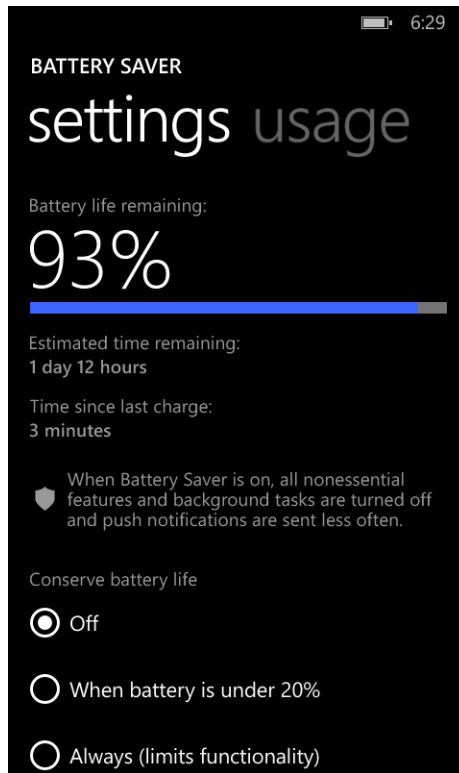
Letting the battery become fully discharged causes the terminal to lose all data in RAM. Honeywell recommends, you keep a charged battery in the terminal at all times to help prevent data loss. Removing the battery from the terminal erases all non-persistent memory.

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.

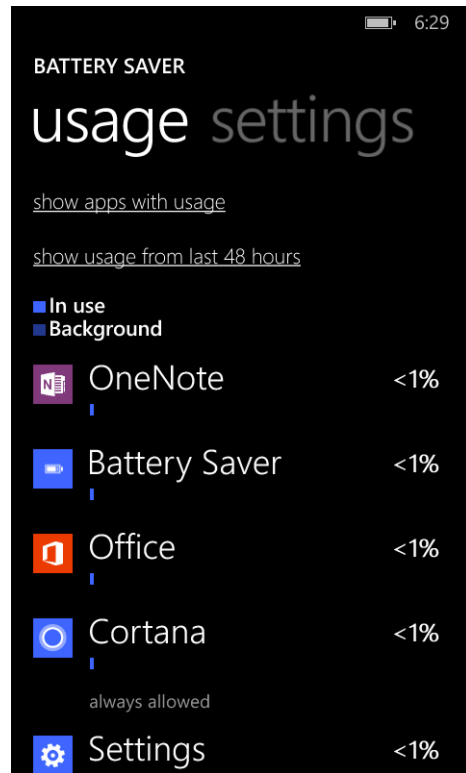
Checking Battery Power and Monitoring Battery Power Use

On the **App list**, select **Battery Saver** . From the **settings** screen you can view statistics about the battery charge and access to options for conserving battery power (see below). Swipe left or select **usage** to view and adjust how individual apps consume battery (see page 2-13).

Settings





Usage



Saving Battery Power by Turning Off All Nonessential Features and Background Tasks


To conserve battery power, you can enable the Battery Saver setting to turn off all nonessential features and tasks that run in the background consuming battery power. This includes but is not limited to automatic updates to your email, calendar, and some Live Tiles that use a push notification for updates.

To turn the Battery Saver on or off and set when to conserve battery power:

1. Select **Battery Saver**  from the **App list**.
2. Select one of the following options.
 - **Off**
Turns the Battery Saver feature off.
 - **When battery is under 20%**
Turns the Battery Saver feature on when the battery charge level drops below 20%.
 - **Always (limits functionality)**
Turns the Battery Saver feature on all the time.
 - **Now until next charge** .
Temporarily turns on the Battery Saver until the next time you charge the terminal. Once the a charge cycle is initiated, the terminal switches back to normal battery usage.

Limiting Background Usage for a Specific Application

If you only want to adjust how a specific app consumes battery power by running in the background:

1. Select **Battery Saver**  from the **App list**.
2. Swipe left or touch **usage** to view a list of apps and their correlating battery use percentage.
3. Select the app.
4. Select the options you want to modify. Options vary depending on the app type.
 - **Allow app to run in the background**
Select the On or Off toggle box to set background permissions for the app.
 - **Allow this app to run in the background even when Battery Saver is on**
Check the box for this option if you do not want the app affected by the Battery Saver feature. If enable, this option reduces the efficiency of the Battery Saver.

Disabling the Button Backlights and Enabling the Smart Sensors to Conserve Power

To learn how to reduce power consumption by turning off the backlight on the terminal buttons, see [Changing the Button Illumination Settings](#) on page 5-16.

To learn about configuring the integrated motion detection sensors for advanced power management, see [Modifying the Smart Sensors](#) on page 5-16.

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:

- Do not disassemble or open crush, bend or deform, puncture or shred.
- Do not modify or remanufacture, attempt to insert foreign objects into the battery, immerse or expose to water or other liquids, expose to fire, explosion or other hazard.
- Improper battery use may result in a fire, explosion or other hazard.
- We recommend use of Honeywell Li-ion battery packs. Use of any non-Honeywell battery may pose a personal hazard to the user.
- Only use the battery for the system for which it is specified. Do not use a battery in any other manner outside its intended use in Dolphin terminals and peripherals.
- Only use the battery with a charging system that has been qualified with the system per standard IEEE-Std-1725-2006. Use of an unqualified battery or charger may present a risk of fire, explosion, leakage, or other hazard.
- Replace the battery only with another battery that has been qualified with the system per this standard, IEEE-Std-1725-2006. Use of an unqualified battery may present a risk of fire, explosion, leakage or other hazard.
- Replace defective batteries immediately; using a defective battery could damage the Dolphin terminal.
- Never throw a used battery in the trash. Promptly dispose of used batteries in accordance with local regulations.
- Do not short-circuit a battery or throw it into a fire; it can explode and cause severe personal injury. Do not allow metallic conductive objects to contact battery terminals.
- 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, see [Customer Support](#).
- Battery usage by children should be supervised.
- Avoid dropping the terminal or battery. If the terminal or battery is dropped, especially on a hard surface, and the user suspects damage, send it to a Honeywell International Inc. or an authorized service center for inspection.
- If you are not sure the battery or charger is working properly, send it to Honeywell International Inc. or an authorized service center for inspection, see [Customer Support](#).

- Excessive discharge can degrade battery performance. Recharge the battery when your terminal indicates low battery power.
- 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.

System Resets

See [Resetting the Terminal](#) on page 1-13.

Hardware Maintenance

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

Important: All battery and connector doors must be present, undamaged, and properly closed to maintain the environmental rating of the terminal.

Installing a Memory Card

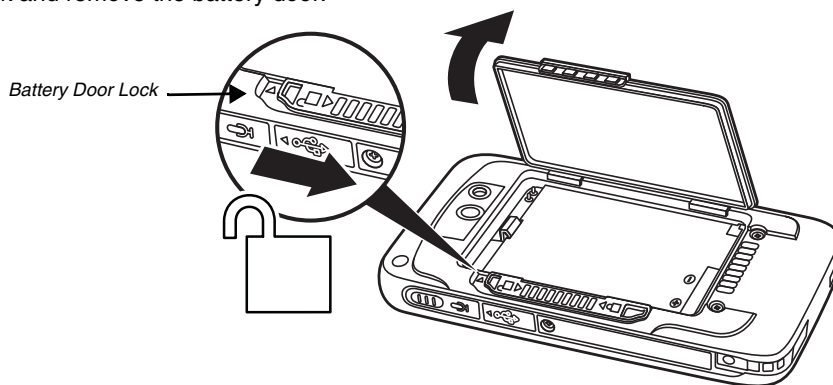
You can expand the terminal's memory capacity by installing a microSD or microSDHC card. Honeywell recommends the use of Single Level Cell (SLC) industrial grade microSD or microSDHC memory cards with Dolphin terminals for maximum performance and durability. Contact a Honeywell sales representative for additional information on qualified memory card options.

Note: Format memory card before initial use.

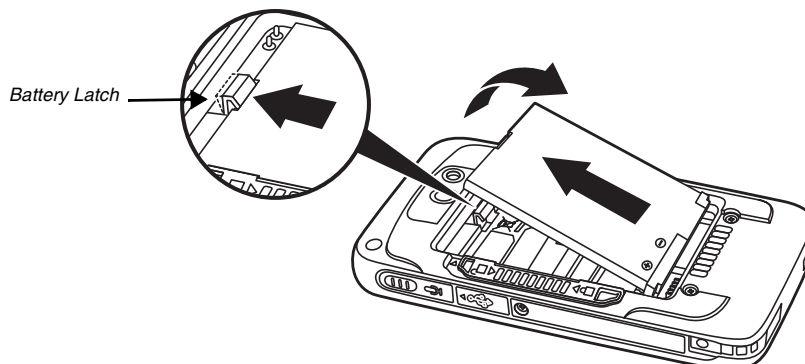
Installation and/or Replacement

To install a memory card:

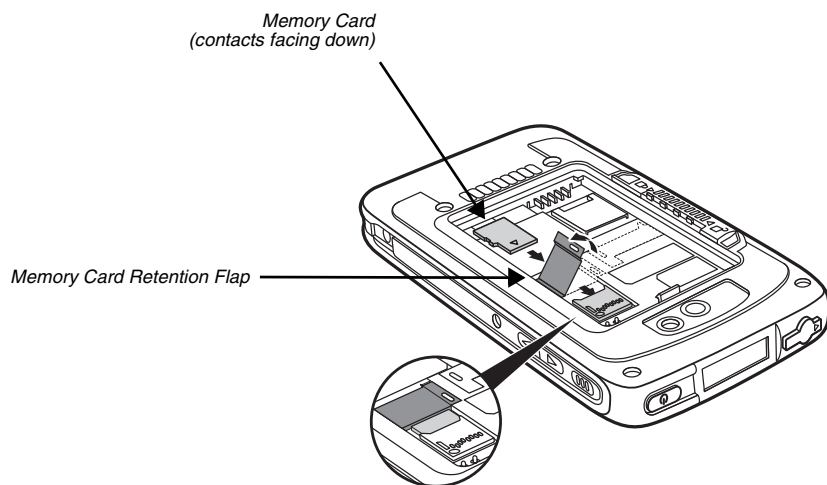
1. **Power Off** the terminal.
2. Unlock and remove the battery door.



3. Pull the battery latch back and remove the battery.



-
4. Lift the card retention flap for the memory socket, slide the card (contacts facing down) into the socket, and then close the retention flap.



5. Install battery and battery door. Apply pressure to the edges of the battery door to ensure the door is properly closed, and then engage the door lock.

6. Press the **Power** button  .



Using the Scan Image Engine

Overview

The Dolphin 75e 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.

Image Engine Specifications

Field of View

Horizontal Field Angle (°) 21.9+/-0.5 degree

Vertical Field Angle (°) 15.9+/-0.5 degree

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

Symbology	Distance (in/cm) Near	Distance (in/cm) Far	Delta (in/cm)
3 mil C39/128	-	-	-
5 mil C39/128	2.25 (5.7)	4.35 (11.049)	2.1 (5.3)
7.5 mil C39/128	1.25 (3.2)	6.87 (17.4)	5.62 (14.3)
10 mil C39/128	0.67 (1.7)	9.93 (25.2)	9.26 (23.5)
15 mil C39/128	1.01 (2.6)	15.16 (38.5)	14.15 (35.94)
20 mil C39/128	1.80 (4.57)	18.56 (47.14)	16.76 (42.57)
100% 13 mil UPC	1.57 (3.9)	12.18 (30.9)	10.61 (26.9)
5 mil PDF417	-	-	-
6.7 mil PDF417	1.53 (3.8)	4.63 (11.7)	3.1 (7.8)
10 mil PDF417	1.38 (3.5)	7.34 (18.6)	5.96 (15.1)
5 mil microPDF	-	-	-
5 mil DataMatrix	-	-	-
10 mil DataMatrix	1.52 (3.8)	4.87 (12.3)	3.35 (8.5)
20 mil DataMatrix	1.07 (2.7)	9.66 (24.5)	8.59 (21.8)
10 mil QR	1.50 (3.8)	5.13 (13.0)	3.63 (9.2)
20 mil QR	2.48 (6.3)	9.66 (24.5)	7.18 (18.2)
32 mil Maxicode	1.56 (3.9)	13.19 (33.5)	11.63 (29.5)

Supported Bar Code Symbolologies

Symbology Type	Symbology Name
1D Symbolologies	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 of 5 ISBT 128 Matrix 2 of 5 MSI Plessey Straight 2 of 5 IATA Straight 2 of 5 Industrial Telepen Trioptic Code UPC with Add On UPC-A UPC-E
2D Symbolologies	Aztec Codablock A Codablock F Data Matrix GS1 Databar MaxiCode Micro PDF PDF417 QR Code
Composite Codes	UPC/EAN UCC/EAN GS1 Databar
OCR	MICR E 13-B OCR-A OCR-B
Postal Codes	Postnet and most international 4-state codes Australian Post British Post Canadian Post China Post


Decoding

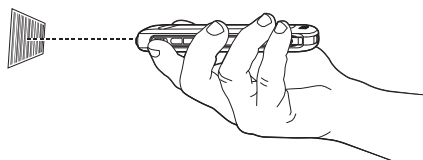
The terminal supports image decoding for use in various bar code reading and imaging applications. Full-area imaging provides omni-directional reading of linear and non-linear 1D and 2D bar codes, OCR, signature capture, and picture taking.

When reading all bar code types using full-area imaging, a positive read can be obtained from many positions; see [Aiming Beam](#) on page 3-5. To achieve the best read, the aiming beam should be centered horizontally across the bar code.

Using the Scan Demo to Decode a Bar Code

The Scan Demo demonstrates the functionality of the integrated scan image engine in the terminal and is not intended as a functional business solution.

1. On the **All Apps list** select **Scan Demo** .
2. Point the Dolphin terminal at the bar code. For optimum performance, avoid reflections by scanning the bar code at a slight angle.

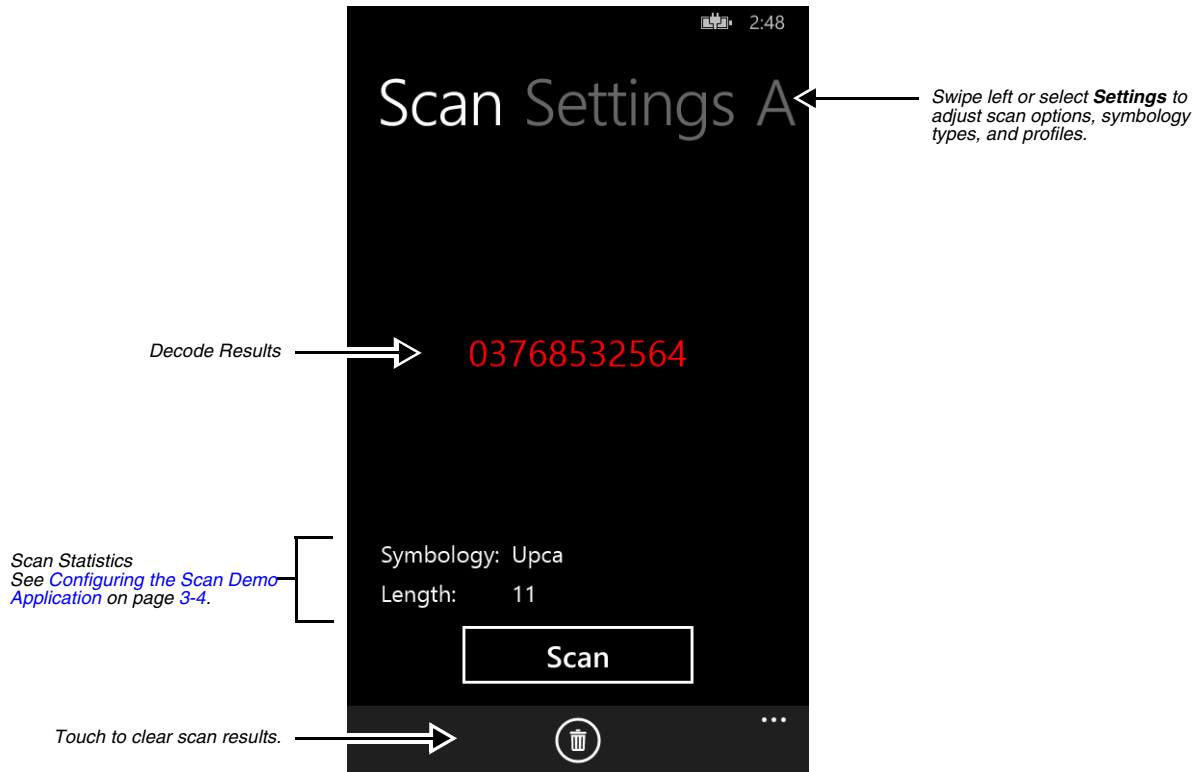


3. Touch **Scan** or press the **Scan** button (center button).

If you touch and hold **Scan** a red beam appears to assist with aiming; see [Aiming Beam](#) on page 3-5.



Note: By default, the left and right side buttons also trigger the scan/imager.

4. The bar code is decoded and the results appear on the screen.



Automatic Scanning

Enable **Automatic** scan mode to activate the imager for continuous scanning without requiring the operator to touch **Scan** for each bar code presented in the field of view of the imager.


1. Open the **Scan Demo** .
2. Swipe left or touch **Settings**, and then select **Scan**.
3. Change the Scan Mode to **Automatic**.
4. Use the slider adjustment under **Automatic Interval** to set the number of seconds (0 to 30) between scan attempts.
5. Press the **Back** button  to return to the Scan screen.
6. Touch **Scan** on the screen to activate the imaging engine. Once activated, the imager automatically scans and decodes bar codes presented in the field of view based on the Automatic Interval set.

To disable the feature set the Scan mode back to **Normal**.

Continuous Scanning



Enable Continuous scan mode to activate the imager for continuous scanning when you press and hold the Scan button.

1. Open the **Scan Demo** .

2. Swipe left or touch **Settings**, and then select **Scan**.
3. Change the Scan Mode to **Continuous**.
4. Press the **Back** button  to return to the Scan screen.
5. Press and hold the Scan button to activate the imaging engine. The imager scans and decodes bar codes presented in the terminal's field of view as long as the button is pressed. You can also press and hold either the left or right side buttons to activate the imaging engine.
6. Release the **Scan** button to deactivate the imager.

To disable the feature set the Scan mode back to **Normal**.

Configuring the Scan Demo Application

1. Open the **Scan Demo** .
2. Swipe left or touch **Settings**.
3. Select **Scan**, **Symbology**, or **Profiles**.
4. Modify the settings to meet your application needs, and then press the **Back** button  to return to the Scan Demo screen.

Scan Settings

Setting	Description	Default Value
Vibrate	When On <input checked="" type="checkbox"/> , the terminal vibrates to indicate a good read.	Off <input type="checkbox"/>
Sound	When On <input checked="" type="checkbox"/> , the terminal beeps to indicate a good read.	On <input checked="" type="checkbox"/>
Scan Mode	Three scan mode options are available: <ul style="list-style-type: none"> • Normal (see Using the Scan Demo to Decode a Bar Code on page 3-2) • Automatic (see Automatic Scanning on page 3-3) • Continuous (see Continuous Scanning) 	Normal
Automatic Interval	Sets the number of seconds between scan attempts. An slider adjustment allows you to choose between 0 and 30 seconds.	5 seconds

Symbology Settings

The Symbology Settings defines the bar code symbology types the scanner will decode when using the Scan Demo app. Touch the toggle box next to a symbology to enable or disable the symbology for scanning. Swipe up or down to scroll through the list of available symbologies.

Profiles

The built-in Point of Service (POS) profiles are applied by the Scan Demo app using the Microsoft POS application program interface (API) ClaimedBarcodeScanner.SetActiveProfileAsync, which sets the active profile on the terminal bar code scanner. The profile strings defined by the HoneywellDecoderSettingsV2.exm file are returned to the app using BarcodeScanner.GetSupportedProfiles, which gets the list of profiles supported by the bar code scanner.

Profile	Description
HON:Reset	Resets all symbology settings to disabled.
HON:EnablePreviewOnDecode	Profile not supported in Scan Demo.
HON:EnablePreviewOnDecodeAttempt	Profile not supported in Scan Demo.
HON:DisablePreview	Disables sending images to the application. This is the default profile. Only decode results are shown on the screen.

Profile	Description
HON:ScanButtonEnable	<p>Enables scanner driver handling when the scan button is pressed and released. When using the Scan Demo, this profile has no visible effect since the demo application handles all scan button events.</p> <p>Example: When the scan button is pressed, the scanner driver starts scanning and sends the <code>ClaimedBarcodeScanner.TriggerPressed</code> event.</p> <p>When the scan button is released, the scanner driver stops scanning and sends the <code>ClaimedBarcodeScanner.TriggerReleased</code> event.</p>
HON:ScanButtonDisable	<p>Disables scanner driver handling when the scan button is pressed. When using the Scan Demo, this profile has no visible effect since the demo application handles all scan button events.</p> <p>Example: When the scan button is pressed, the scanner only sends the <code>ClaimedBarcodeScanner.TriggerPressed</code> event.</p> <p>When the scan button is released, the scanner only sends the <code>ClaimedBarcodeScanner.TriggerReleased</code> event.</p>
HON:EnableOOBE	<p>Enables the symbology types required when the built-in out-of-box plug-in runs at first boot for scanning EZConfig labels.</p>

Aiming Beam

The aiming beam is 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.

Linear Bar Code.



2D Matrix Symbol

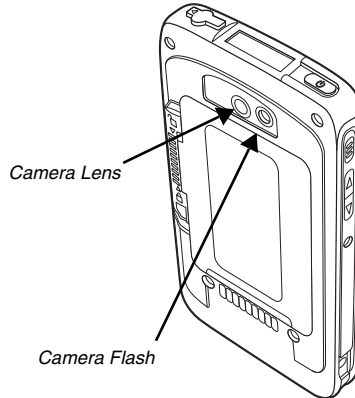




Using the Color Camera

Overview

Dolphin 75e terminals are equipped with 8.0-Megapixel auto focus cameras to 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.



Opening the Camera app and Adjusting the Settings

To open the Camera app, touch **Camera**  on the **Apps list** screen.

Adjusting the Camera/Video Settings

The camera/video settings are adjustable from within the **Camera** app by touching **More** **...**.

Phone settings

Select phone settings to:

- Adjust the camera flash, resolution, ISO, exposure, and white balance.
- Select a scene mode with predefined settings for specific situations (e.g, Portrait, Sport, Night).
- Turn Focus Assist Light setting on to improve the auto focus results in low light situations.
- Turn Antibanding on to avoid stripes appearing in the picture if you are capturing a computer or TV screen.
- Turn the Tap to take photo option on or off.
- Set the length of time to keep unsaved burst photos.



Video Settings




Select Video settings to turn the Video light on or off and set the video Resolution.

Show these setting in the viewfinder

You can customize the viewfinder for access to favorite settings. Under “Show these settings in the viewfinder”, touch one of the five icons, and then select the setting you want to show in viewfinder. When you are done, touch **More** **...** to return to the full viewfinder.








Taking a Photo

1. In the **Apps list**, touch **Camera**  .
2. Select single photo mode  in the viewfinder.








-
3. Point the camera lens at the object you want to capture. The camera lens is located on the back panel of the terminal.
 4. Touch  to take the photo.
 5. Swipe right if to view the captured photo. By default, single photos are saved to Camera Roll album (Phone\Pictures\Camera Roll) in the Photos Hub (**Apps list** > **Photos** ).
 6. Press the **Back** button  return to the Camera app.

Taking a Burst Photo

Burst mode can be used to take eleven photos in rapid succession to improve action photos results.

1. In the **Apps list**, touch **Camera** .
2. Select **burst** mode  in the viewfinder.
3. Point the camera lens at the object you want to capture. The camera lens is located on the back panel of the terminal.
4. Touch  in the viewfinder to start capturing the photos. A countdown appears on the screen as the photos are taken.
5. Swipe right on the screen and touch **Burst**  to see the series of photos taken.
6. Swipe the filmstrip left or right to scroll through the photos.
7. Touch the photos you want to keep. A check mark in the filmstrip indicates the photo is selected.
8. Touch **Save** . By default, the selected photos are saved to Camera Roll album (Phone\Pictures\Camera Roll) in the Photos Hub (**Apps list** > **Photos** ).
9. Press the **Back** button  return to the Camera app.

Recording Video

1. In the **Apps list**, touch **Camera** .
2. Select **video** mode  in the viewfinder.
3. Point the camera lens at the scene or object you want to capture in video.
4. To start capturing video, touch **Record** .
5. To stop capturing video, touch **Stop** .
6. Swipe right and select **Play**  to view the captured video. By default, videos are saved to Camera Roll album (Phone\Pictures\Camera Roll) in the Photos Hub (**Apps list** > **Photos** ).
7. Press the **Back** button  return to the Camera app.


Uploading Pictures and Videos

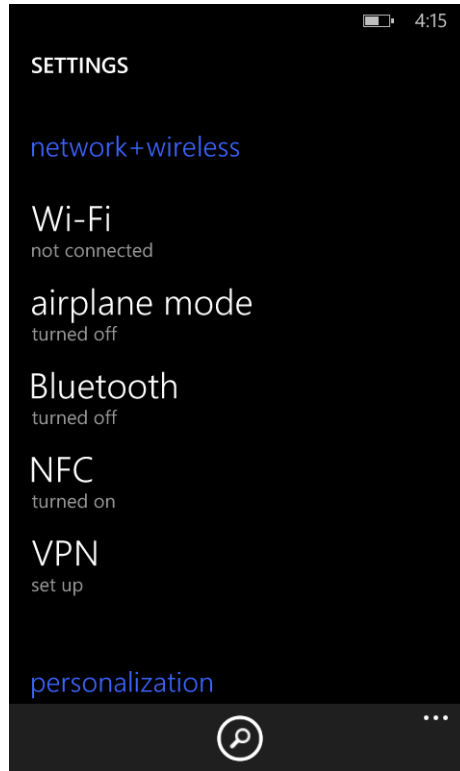
Picture and Video files can be uploaded to a computer using a USB connection. For additional information, [see page 1-14](#).



Overview

The Settings allows you to verify and/or alter system parameters to customized your terminal to meet your specific needs.

Touch **Apps list** > **Settings**  or pull down the Action Center from the top of the screen and select  **ALL SETTINGS**.



Network and Wireless Settings


For information on Wi-Fi and VPN settings, see [Wireless & Network Settings](#), beginning on page 6-1.

For information on Bluetooth settings, see [Working with Bluetooth and NFC Technology](#), beginning on page 7-1.

For information on Ethernet settings, see [Establishing Ethernet Communication](#) on page 9-6.

Personalization

Changing Start and the Screen Theme

1. In the **Apps list**, touch **Settings**  > **start + theme** under personalization.
2. Select the screen setting you want to modify.

Background

Change the screen background to light or dark.


Accent Color

Select a new screen accent color.


Start Background

Select a photo as the background of the Tiles shown on the Start screen.

Show more Tiles

To increase the number of Tiles shown on the Start screen and decrease the Tile sizes, turn On  the **Show more Tiles** option.


Changing the Sound Settings

1. In the **Apps list**, touch **Settings**  > **ringtones + sounds** under personalization.
2. Select the configuration setting you want to modify.


Vibrate


Touch the toggle box to turn vibration feedback On  or Off  during touch screen interaction.

Ringtone

Touch the Ringtone box and select from the list of preset ringtones. To hear a ringtone, touch the play icon .

Reminders

Touch the Reminders box and select from the list of preset tones. To hear a tone, touch the play icon .

To turn off sound notification for reminders, select  none.

Play a sound for

Touch the check box to toggle sound On (check) or Off (no check) for each of the following features:

- Key press
- Lock and unlock
- Camera shutter
- System alerts

Manage App Sounds



Touch **manage app sounds** to access the **notifications+actions** setting screen. To learn more see [Changing App Specific Notifications](#) on page 5-3.

Managing Security and Customizing the Screen Lock

Access the lock screen settings to adjust the screen lock time out limit or set up a password lock for added security against unauthorized access. You can also customize what you want showing when the screen lock is active. Select a special photo for the screen lock background or have your notifications and appointment reminders viewable without unlocking the screen.

Adding a Password Lock and Adjusting the Password Activation Time Limit


To set up a Password lock:

1. In the **Apps list**, touch **Settings**  > **lock screen** under personalization.
2. Under Password, touch the toggle box turn **On**  password protection.
3. Enter a password in the New password box.
4. Enter the password again in the Confirm password box, and then select **done**.
5. Select the box under **Require a password after** to change the length of time between the screen lock turning on and the password lock turning on.

The default setting is **each time**. Every time the screen lock activates so does the password lock. You can change the setting to include a waiting period (e.g., 30 seconds, 1 minute, or 3 minutes) between the screen lock activation and the password lock activation. This setting does not control when the screen lock is activated. For information on the screen lock, see [Setting when the Screen Lock Activates](#) on page 5-3.

Changing or Removing a Password Lock



To change the Password lock:

1. In the **Apps list**, touch **Settings**  > **lock screen** under personalization.
2. Touch **change password**.
3. Enter the current password.
4. Enter the new password.
5. Enter the new password again to confirm, and then select **done**.

To remove a password lock, touch the toggle box to turn password protection Off and then enter your current password.


Changing Lock Screen Background

To change the lock screen background:

1. In the **Apps list**, touch **Settings**  > **lock screen** under personalization.
2. Touch the box under **Background** and do one of the following:
 - Touch **Photo** > **Change photo** to choose an photo from your albums or favorites stored on the terminal. Once you select the image, adjust how it looks in the box on the screen. Slide it left or right so it is centered or pinch your fingers together or apart to resize the image. Select crop  to save.
 - Touch **Bing** to receive periodic image updates from Bing.


Choosing what Notifications Show on the Lock Screen

To select what information shows on the Lock screen:

1. In the **Apps list**, touch **Settings**  > **lock screen** under personalization.
2. Under notifications modify the following options:
 - **Choose an app to show detailed status**—Touch the box and select an app from the list or none to show no status.
 - **Choose apps to show quick status**—You can show the quick status of up to five apps on the lock screen. Touch a box to select and add an app.

Setting when the Screen Lock Activates

To set the time limit of inactivity before the Screen Lock activates:

1. In the **Apps list**, touch **Settings**  > **lock screen** under personalization.
2. Touch the box under **Screen times out after**, and then select a time increment (**seconds** or **minutes**) or **never** if you do not want the screen lock to activate after a period of no activity.

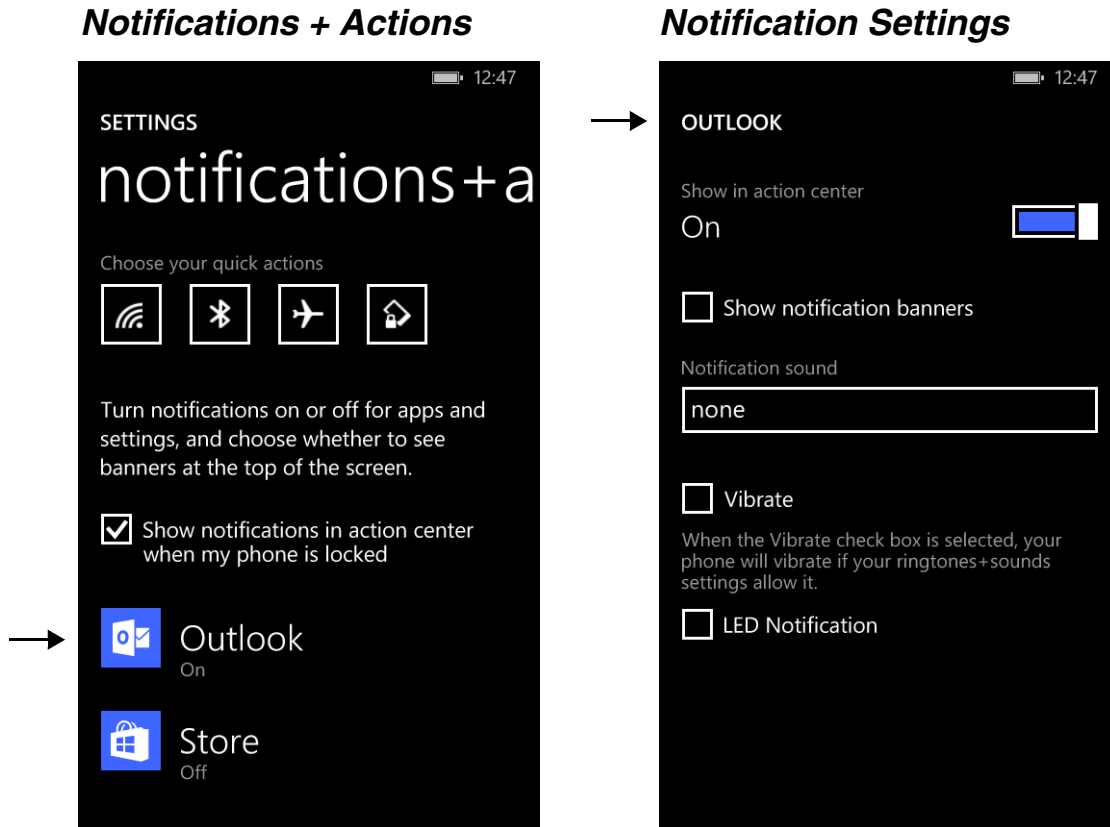
Note: This setting does not control when the Password lock is activated. For information on the Password lock, see [Adding a Password Lock and Adjusting the Password Activation Time Limit](#) on page 5-2.




Changing App Specific Notifications

You can change how specific apps deliver notifications by accessing the **notifications + actions** settings. Set whether you want an app to show notifications in the Action Center or personalize the characteristics of the notifications received to include a unique sound, terminal vibration, or LED activity.

1. In the **Apps list**, touch **Settings**  > **notifications + actions** or, from the Action Center, select  **ALL SETTINGS** > **notifications + actions**.

2. Touch an app from the list to access the notification settings.



3. Touch the toggle box to turn On  or Off  **Show in action center**.
4. Touch the **Show notification banners** check box to turn notification banners On (check) or Off (not checked). When turned On, a banner appears at the top of the screen if there is a new notification from the app.
5. Touch the **Notification sound** box and select from the list of preset sounds.
To hear a sound, touch the play icon .
6. Touch the **Vibrate** check box to turn vibration notification On (check) or Off (not checked).
7. Touch the **LED Notification** check box to turn LED feedback On (check) or Off (not checked). When turned On, left LED (closest to the H in the Honeywell logo) briefly blinks blue to indicate a new message has been received.

To learn more about how to customize the Action Center, see page [1-7](#).

Selecting What to Sync

When you first set up the terminal and sign into your Microsoft account, sync settings is turned on by default (except for **Theme** syncing). A Microsoft account is required to use this feature.


To select what settings you want synced across your Microsoft devices:

1. In the **Apps list**, touch **Settings**  > **sync my settings**.

2. Touch the toggle box to turn sync On  or Off  for the following settings:

- **Theme**
- **App settings**
- **Internet Explorer**
- **Passwords**

Setting Up Quiet Hours with Cortana



You can set up quiet hours when Cortana handles texts and other notifications. In the **Apps list**, touch **Settings**  > **quiet hours**. To learn more about how to use Cortana and the quiet hours feature, go to www.microsoftphone.com.

Email + Messaging Accounts

Adding a Microsoft Account

A Microsoft account (email address and password) is required to sign into some services like Outlook.com, OneDrive®, Windows Phone or Shop. You can have more than one Microsoft account but the first account you set up on the terminal will be the account used for any services that require an Microsoft account.

Important: Once you add the first Microsoft account, there is no way to change it without resetting the terminal. For more information, see [Resetting the Terminal](#) on page 1-13.



1. In the **Apps list**, touch **Settings** .
2. Touch **email + accounts**.
3. Touch  **add an account**, and then **Microsoft account**
4. Select **sign in**. If you do not already have an account, select **create one** and follow on the on screen prompts.
5. Enter the account email address and password, and then touch **next**.
6. You may need to validate your identity by entering a Microsoft code. The code is sent to you using the contact information you provided when setting up your Microsoft account.
7. Select **yes** or **no** to set the your cloud syncing and backup preferences.

Adding Additional Accounts

Once your first Microsoft account is set up, you can still add other accounts (e.g., Google, Hotmail.com, Live.com, MSN) to keep your email, contacts and the calendars in sync on the terminal.

For information on how to add a Microsoft Exchange, Office 365 or an account that uses Exchange ActiveSync, see [Adding an Exchange Account](#) on page 5-6.

To add an additional account:

1. In the **Apps list**, touch **Settings** .
2. Touch **email + accounts**.
3. Touch  **add an account**.
4. If the account type you want to add is listed, select it or select **other account** to add an email account from an Internet Service Provider (ISP).



Note: Select Outlook.com for Hotmail.com, Live.com or MSN accounts. Outlook.com only shows if you are already signed into your first Microsoft account.

5. If necessary, touch **connect**. Not all account types require this authentication step.
6. Enter the account email address and password, and then touch **sign in**.



-
7. For some accounts, you may need to validate your identity by entering a Microsoft code. The code is sent to you using the contact information you provided when setting up the account.
 8. If you are adding a **Google** account, select **accept**.

Manual Set Up

If you prefer to manually input the account settings (e.g., email server addresses and account type) during account set up:

1. In the **Apps list**, touch **Settings** .
2. Touch **email + accounts**.
3. Touch  **add an account**, and then **advanced setup**.
4. Enter the account email address and password, and then touch **next**.
5. Touch **Internet email** or **Exchange ActiveSync**.
6. Enter the account settings. Check with your service provider for the correct settings if you are not sure what to enter.
7. Touch **advanced settings** to view SSL Requirement options and to set your download settings. These options are only available if you selected Internet email for the account type.
8. Touch **sign in**.

Adding an Exchange Account



1. In the **Apps list**, touch **Settings** .
2. Touch **email + accounts**.
3. Touch  **add an account**, and then **Exchange**.
4. Enter the account email address and password, and then touch **sign in**.

If the terminal does not automatically connect to your account, try the following in the order shown:


- To verify you did not mistype your password, select **Show password**. Check the rest of the information on the screen, and then touch **sign in**.
 - Select **advanced**, and enter the server address in the **Server** box.
 - Touch **all settings** and verify the **Server requires encrypted (SSL) connection** setting is correct, and then touch **sign in**.
5. If the **Create a new password** message appears, touch **set** and then enter the new password. Enter the password again to confirm, and then touch **done**.

Modifying or Removing an Account

To modify account settings:

1. In the **Apps list** > **Settings**  > **email + accounts**.
2. Select the **account**.
3. Edit the account settings and then select  to save your changes.


To remove an account:

1. In the **Apps list** > **Settings** .
2. Touch **email + accounts**.
3. Touch and hold the account you want to delete, and then select **delete**.
4. Touch **delete** to confirm deletion.

Workplace Accounts

Some organizations provide a workplace account for easy terminal setup. The workplace account may include an app or account profile that can be installed on the terminal or additional information on the specific settings needed to access the organization's network.

Adding a Workplace Account




1. In the **Apps list** > **Settings** .
2. Touch **workplace**.
3. Touch **add account**.
4. Enter the email address, and then touch **sign in**.
5. Enter your password, if prompted, and follow the instructions on the screen. The process for adding a workplace account varies depending on the organization.

Note: If a workplace account is not available and you want to learn how to manually add virtual private network profile to the terminal, see [Virtual Private Networks \(VPN\)](#) on page 6-4.

Deleting a Workplace Account

Note: This option may not be available if your organization prevents the deletion of a workplace account.



To delete a workplace account:

1. In the **Apps list** > **Settings** .
2. Touch **workplace**.
3. Select the account you want to delete.
4. Touch delete , and then delete  again to confirm.

System


Change the Terminal Name

To change the default terminal name:




1. In the **Apps list**, touch **Settings**  > **about**.
2. Select **edit name**. The default name is *Windows Embedded Handheld*.
3. Input a new name.
4. Select **Save** .

Viewing Software and Hardware information

To view basic software and hardware information:

1. In the **Apps list**, touch **Settings**  > **about**.
2. Select **more info**. The following information appears on the screen.
 - OS version
 - Firmware and hardware revision numbers
 - Radio software and hardware version
 - Bootloader version
 - Chip SOC version
 - Screen resolution
 - Mac address
 - Custom ID

To view detailed software and hardware information:

1. In the **Apps list**, touch **DiagnosticInfo** .
2. Swipe up or down to scroll through the following:
 - System Date/Time
 - Device Information
 - Scanner Information
 - Honeywell Apps (version number)
 - Radio Information (includes MAC, Bluetooth, IP Addresses)
 - Battery Information
 - Memory Information
3. If you want to export the diagnostic information to a text file, touch **Save** .
4. Select a folder location and then touch **Save** .
5. Select **ok** to return to the diagnostic info screen.




Performing a Factory Reset (Clean Boot)

To learn how to perform a Factory Reset (Clean Boot), see [Resetting the Terminal](#) on page 1-13.

Changing the Display Settings



Brightness

You can either set the screen brightness level to automatically adjust or stay at a fixed level. The default setting is automatically adjust.

1. In the **Apps list**, touch **Settings**  > **brightness**.
2. Select the toggle box to turn automatic brightness adjustment **On**  or **Off** .
3. If automatic is turned off, touch the box under **Level** and select one either **low**, **medium** or **high**.

Screen Rotation


By default, the display automatically adjusts the orientation of the screen between landscape and portrait when the terminal is rotated. To prevent the screen from automatically rotating, turn on the Rotation lock setting.

-
1. In the **Apps list**, touch **Settings**  > **brightness**.
 2. Select the toggle box to turn the screen Rotation lock **On** .

Sleep

The touch screen dims and then turns off after a specified period of inactivity to save battery power. To wake the terminal press the power button and swipe up to unlock the screen. To learn how to adjust the time out limit, see [Setting when the Screen Lock Activates](#) on page 5-3.


Viewing Storage Statistics and Managing Apps and Files

The **Storage Sense**  app displays free and used space statistics for both the internal storage on the terminal (phone) and the SD card, if installed. To view a detailed breakdown of the use statistics for each storage location and to access additional file and app management options, touch either **phone** or **SD card**.

To safely **remove the SD card** or **format the SD card**, select **SD card** from the **Storage Sense** screen, swipe up until the options are visible, and then touch the action you want performed.


Changing the Default Storage Location for New Media, Apps, and Downloads

If you have installed a memory card in the terminal, you can change the default storage location for new media (e.g., music, videos), apps, or downloads from the Phone (internal storage) to the SD card.



1. In the **Apps list**, touch **Storage Sense** .
2. Swipe up until you see the options under “Change where store your music, photos, apps, and more.”
3. Select the box under the location you want to change and then touch **SD card**.

Formatting or Safely Removing the SD Card



To format or safely remove an SD card installed in the terminal:

1. In the **Apps list**, touch **Storage Sense** .
2. Select **SD card** (if installed).
3. Swipe up to reach the bottom of the SD card screen.
4. Touch either **remove SD card** or **format SD card**.
5. Select **yes** to confirm.



Viewing, Moving, or Uninstalling an App

1. In the **Apps list**, touch **Storage Sense** .
2. Select **phone** or **SD card** (if installed).
3. Select **apps + games** to view a list of apps installed on the terminal organized by size (largest to smallest).
4. Touch  if you want to move the app to or from the SD card or uninstall an app.
5. Check the box next to the app(s) you want to move or uninstall.
6. Touch either **move** or **uninstall**.

Cleaning up Storage Space

1. In the **Apps list**, touch **Storage Sense** .
2. Select **phone** or **SD card** (if installed).
3. Select one of the following categories and actions:
 - Touch **photos** > **delete burst photos** to delete unsaved burst photos.
 - Touch **podcasts** > **manage** select a pod cast and then delete .
 - Touch **downloads** > **delete** to delete files downloaded with the Internet Explorer.
 - Touch **maps** > **manage** > **delete history** to delete previous map searches and temporary files.
 - Touch **temporary files** > **delete** to delete temporary files that are not in use (e.g., cookies, browser history, temporary storage).

Managing Apps and Files

1. In the **Apps list**, touch **Storage Sense** .
2. Select **phone** or **SD card** (if installed).
3. Select one of the following categories and actions:
 - Touch **music** > **manage** to open the **Photos**  app.
 - Touch **videos** > **manage** to open the **my videos** collection.
 - Touch **documents** > **manage** to open the **Office Hub** to manage your Microsoft Office files.
 - Touch **emails + messaging**. Select **manage accounts** to open your **email + account settings**.
 - Touch **maps** > **manage** to open your **Maps** settings.
 - Touch **temporary files** > **Internet Explorer settings** to open your browser settings.

Changing the Battery Settings

See [Managing Battery Power](#) on page 2-11.

Changing USB Settings

See [Changing USB Permissions and Notifications](#) on page 1-15.


Using the SD card for Manual Flash

This option is for advanced administrator or developer use to flash a specific firmware image on the device or if Internet access is not available for over-the-air (OTA) automatic updates. A 2GB microSD card and a valid Windows Embedded 8 Handheld full flash update image (Flash.ffu) is required. For more information about Flash.ffu image files, see the Administrator Guide for Windows Embedded 8.1 Handheld, available from Microsoft at <https://technet.microsoft.com>.



Caution: All data on the terminal is erased during the flash process.

To update the terminal using an SD card:

1. Copy the provisional FFU image onto the root directory of the SD card. The file name must be Flash.ffu and be signed by the OEM for the manual flash feature to recognize the image.
2. Install the SD card in the terminal.
3. Plug the terminal in an external power source. The terminal must have power for the entire flash process or it could become unstable.
4. In the **Apps list**, touch **Settings**  > **manual flash**.
5. If a valid Windows Embedded 8 Handheld Flash.ffu image is found on the SD card, a “Configuration received” message appears under the SD Card heading.




6. Select SD Card to start flashing the terminal.
7. If you want to continue, select **OK** to confirm. All data on the terminal will be erased.
8. Select **OK** to verify the terminal is connected to a reliable power source.

A “Goodbye” message appears, and then the terminal reboots into flash mode. A lightning bolt appears on the screen as the image is flashed onto the terminal. The flash process takes several minutes without a progress indicator. When the process is finished, the terminal boots into out-of-box experience (OOBE) mode. A language selection screen appears. For information on how to set up the unit from the OOBE mode, see [Power On and Set Up the Terminal](#) on page 1-4.




Time and Language Settings

By default, the terminal is set to automatically update the time and date for your current location, when an active network connection is available for syncing. You can turn Off automatic updating and manually change the date, time and the time zone or switch the clock from to a 12-hour to a 24-hour clock format from the **date + time** settings screen.

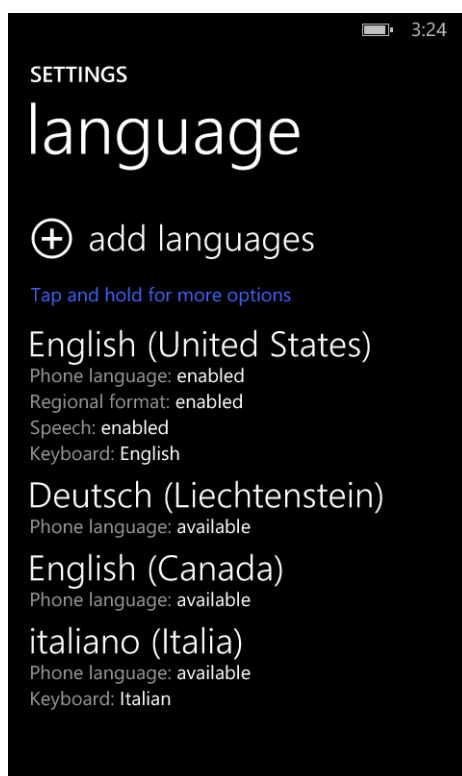
Changing the Date, Time, or Time Zone

1. In the **Apps list**, touch **Settings** .
2. Select **date + time**.
3. Turn the 24-hour clock format On or Off . The default setting is Off.
4. By default, the terminal is set to automatically update the time and date for your current location.
To manually set the date and time turn Off the **Set date and time automatically** feature and then modify the date and time.
5. Touch the Time zone box and then select the new time zone.

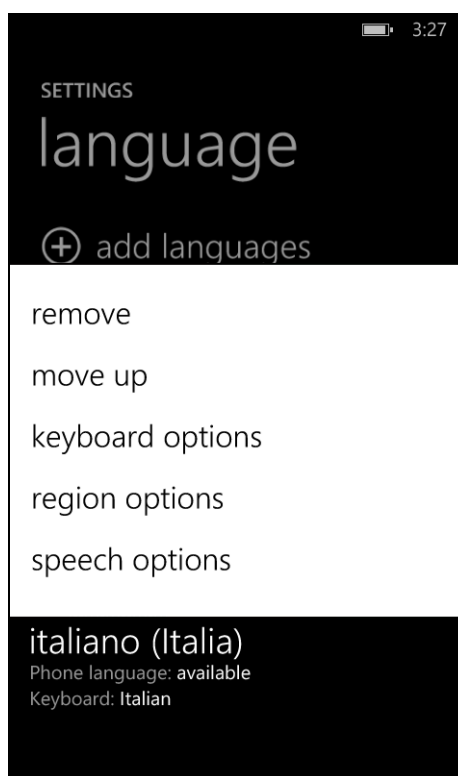
Changing the Terminal Language

1. In the **Apps list**, touch **Settings** .
2. Select **language**, and then touch  **add languages**.
3. Select all the languages you want available on the terminal, and then touch . The selected languages appear in the available language list.
4. Touch **restart phone** to enable the first language on the list. If you want a different language enabled, touch and hold the language, and then select **move up**. Repeat moving the language up until it is the first language on the list, and then touch **restart phone**.

Language



Language Menu





Changing the Terminal Region

You can change terminal **Country/Region** and set the **Regional format** from the **Settings**  > **region** screen.

Adding and Modifying Keyboards

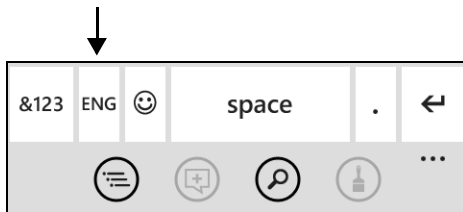
You can activate more than one keyboard language, and then switch between the languages using the language key on the virtual keyboard.

To add keyboard languages:

1. In the **Apps list**, touch **Settings** .
2. Select **keyboard**, and then touch  **add keyboards**.

-
3. Select all the languages you want available on the keyboard, and then touch .

The selected languages are added to the available keyboard list. The next time you access the keyboard, a language key is shown in the bottom row. Touch the key to switch between the keyboard languages.



To remove a language on the list, touch and hold the language and then select **remove**.



Advanced Keyboard Settings

Select the advanced option to modify common settings for all the keyboard languages and manage the word

suggestion feature that runs while you type in text. In the **Apps list**, touch **Settings**  > **keyboard** > **advanced**.

Input and Accessibility

Customizing Services and System Features for Accessibility



Touch **ease of access** from the **Settings**  screen to configure services and features that make using the terminal easier to use. Use the slider to adjust the text size on the screen. A preview screen provides feedback as you adjust the slider. Select **browser captions** to turn On  and adjust custom fonts and colors used for captions in Internet Explorer and apps that use the browser display content.

You can also turn the following options On  or Off  from the **ease of access** screen:


- Text size
- High contrast
- Narrator
- Narrator quick launch
- Screen magnifier
- Allow zooming on all web content
- Speech for phone accessibility (caller ID)

For more information on these features, go to www.windowsphone.com.

Configuring the Speech Feature

If Cortana is turned off, you can use the Speech feature to initiate a voice search or command by pressing and holding the search  button or by selecting  from the Bing browser search box. When you first activate **Speech**, you are asked to either accept or decline the Microsoft speech recognition service. If you accept, the words you speak and supporting data, including recent contact names, will be sent to Microsoft to provide and improve the service. You can turn the service On or Off from the speech settings screen. You can also adjust when you want text-to-speech feedback or specify the language and the voice type used.

To configure the **Speech** feature:


1. In the **Apps list**, touch **Settings** .
2. Select **speech**.

3. Modify one or more of the following settings:


- Set when to Read aloud incoming text messages.
- Set the type of Text-to-Speech voice used for turn-by-turn directions and other 3rd party apps.
- Select the Speech language.
- Turn On or Off allowing Speech to be used when terminal is locked.
- Turn On or Off Improve recognition for non-native speakers.
- Turn On or Off the Speech Recognition Service.

Privacy



Changing the Location Service Settings

Location services are used when apps access Wi-Fi networks to approximate the location of the terminal to improve search results and other services. When you first open an app, you may be asked to provide permission for the app to use the terminal location information for better performance. If you allow location access, an  icon shows in the notification/status bar whenever the app requests the terminal location.

Turning Location Services On or Off

1. In the **Apps list**, touch **Settings** .
2. Select **location**.
3. Turn the location services On or Off . When this feature is turned On , the terminal location is available to apps with permissions set to allow access to location information.


Turning the Location Request Indicator On or Off

1. In the **Apps list**, touch **Settings** .
2. Select **location**.
3. Select the **Show icon** check box to turn the location request notification On (checked) or Off (not checked). When this option is turned On,  shows on the notification/status bar at the top of the screen when an app is requesting location data.

Modifying and Viewing App Permissions


You can control whether all apps or just specific apps have permission to access the terminal camera, your calendar and contacts, messaging or the terminal microphone.

Limiting App Permissions

1. In the **Apps list**, touch **Settings** .
2. Select **app permissions**.
3. Select either Calendar, Camera, Contacts, Messaging or Microphone.
4. Turn the access permission for all apps or only specific apps On or Off .

Update and Backup

Microsoft periodically releases software updates for the Windows Embedded Handheld software running on the terminal.


To check the update status of the terminal software, in the **Apps list** , touch **Settings > phone update**. The time of the last update is listed under Update status. To manually check for updates, touch **check for updates**. You can also set the terminal to automatically download and install the updates if:

- sufficient space on the terminal storage is available
- sufficient charge on the battery is available
- an active Wi-Fi network connection is available

-
- data sense and battery saver settings do not limit data usage

Enabling Automatic Updates

To set the terminal to automatically download and install updates:




1. In the **Apps list**, touch **Settings** .
2. Select **phone update**.
3. Check the box next to **Automatically download updates if my data settings allow it**.
4. Select a preferred time for installation.

When you create and sign into a Microsoft account on the terminal, you gain access to services that let you back up important apps, settings, photos and videos to the cloud or OneDrive for recovery purposes if something happens to the terminal. For more information on Microsoft accounts, the cloud and OneDrive, go to www.windowsphone.com.

Backup Your Apps and Settings



You can set the terminal to automatically backup your apps and settings when a Wi-Fi connection is available and the terminal is connected to a power source. A reminder to create a new backup appears if the terminal has not been able to create a recent backup after three weeks due to the lack of a network connection and power source connection.

To enable automatic backups and select what you want saved:

1. In the **Apps list**, touch **Settings** .
2. Select **backup > apps + settings**.
3. To back up your settings, turn **Settings backup** On .
4. To include apps in the back up, turn **App backup** On .

Performing a Manual Backup


To manually initiate a backup:

1. In the **Apps list**, touch **Settings** .
2. Select **backup > apps + settings**.
3. Turn **Settings backup** On .
4. Select **back up now**.

Backup Your Photos and Videos


You can set the terminal to automatically upload your photos and videos to OneDrive so you can access them from any device. A Microsoft account and Wi-Fi connection are required for this option.

To set up automatic photo and video uploads:

1. In the **Apps list**, touch **Settings** .
2. Select **backup > photos + videos**.
3. For Photo uploads, select either **Don't upload**, **Good quality**, or **Best quality**.
4. For Video uploads, select either **Don't upload** or **Best quality**.

Deleting a Backup

To delete a backup:


1. In the **Apps list**, touch **Settings** .
2. Select **backup > apps + settings**.
3. Select **manage backups**.
4. Do one of the following:
 - To delete the entire backup, select the **Settings backup** check box and then touch **delete**.
 - To delete only your app data, verify the Settings backup check box is clear (not checked). Select the **App backup** check box, and then touch **delete**.

Extras

Battery Status Settings


For information on the checking the battery status, see [Checking the Battery Health](#) on page 2-10.

Changing the Button Illumination Settings

1. In the **Apps list**, touch **Settings** .
2. Select **button illumination**.
3. Select one of the following options:
 - **Off**,
When selected, the button backlights are always turned Off.
 - **On with Backlights**,
When selected, the button backlights are always On, except when the terminal is in sleep mode.
 - **On with Backlight in Dark Environment**
When selected, the button backlights turn on only when the terminal sensors indicate light levels have dropped to the specified Brightness Threshold level. You can set the threshold to be between 0 and 999.

Modifying the Smart Sensors

To configure the integrated motion detection sensors for advanced power management:

1. In the **Apps list**, touch **Settings** .
2. Select **sensor settings**.
3. Check the box for one or more of the following options:
 - **Low power mode on face down**
When selected, the terminal automatically enters Sleep mode (Suspend mode) when placed face down on a flat surface. By default this option is disabled
 - **Keep on when motion detected**
When selected, the terminal is prevented from entering Sleep mode (Suspend mode) when motion is detected. By default this option is disabled.
 - **Turn off display on face down**
When selected, the terminal display is automatically turned off when placed face down on a flat surface. Once the display turns off, the terminal enters sleep mode after 60 seconds. You can adjust the length of time between the terminal display going off and entering sleep mode. By default this option is disabled.
 - **Turn off display on close proximity**
When selected, the terminal display is automatically turned off when the sensors indicate something is in close proximity to the face of the terminal. Once the display turns off, the terminal enters sleep mode after 60 seconds. You


adjust the length of time between the terminal display going off and entering sleep mode. By default this option is disabled.

Modifying Wi-Fi Radio Settings

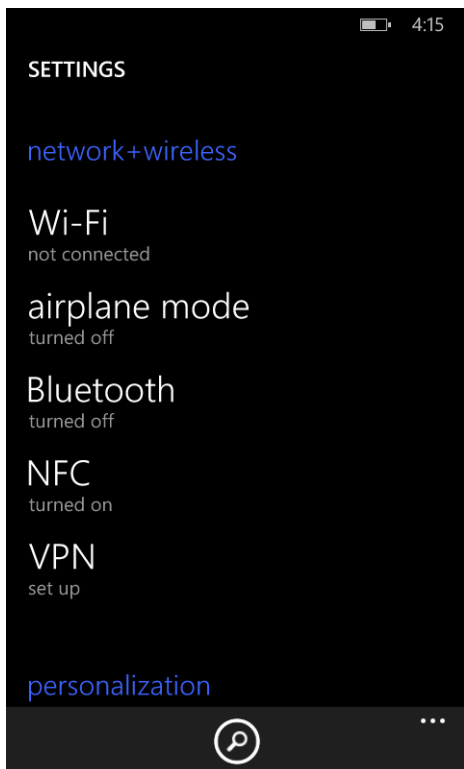
For information on setting up and changing the Wi-Fi settings, see [Wireless & Network Settings](#), beginning on page 6-1.



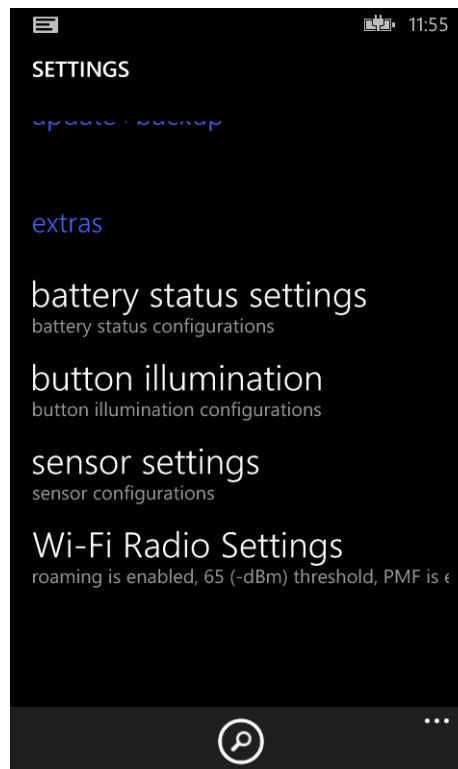
Wireless & Network Settings

On the **Settings**  screen, under the **network + wireless** and the **extras** heading there are options for turning the on board wireless radios in the terminal On or Off and for configuring network connections.

Network + Wireless



Extras



Connecting the Terminal to a Wireless Network

You connect the terminal to a wireless network through the on-board radios (802.11a/b/g/n/ac and/or Bluetooth). Each radio has its own configuration settings and requires specific information about the wireless network to connect. A successful connection depends on your network infrastructure so you may need to consult your network administrator before attempting a connection.

WLAN (802.11a/b/g/n/ac)

The Dolphin 75e has a 802.11a/b/g/n/ac WLAN (Wireless Local Area Network) radio. The radio is interoperable with other 802.11a/b/g/n/ac, Wi-Fi compliant products including access points (APs), workstations via PC card adapters, and other wireless portable devices.






Bluetooth

See [Working with Bluetooth and NFC Technology](#) on page 7-1.



Wi-Fi Network Connections

The Dolphin 75e supports Wi-Fi network connections for open or secure networks that use any of the following security protocols: WPA/WPA2-Enterprise (PEAP, TLS and TTLS), WPA/WPA2-PSK (AES and Mixed-Mode), WEP, and OPEN. By default, the terminal Wi-Fi radio is turned On.

Turning Wi-Fi Networking On or Off

1. In the **Apps list**, touch **Settings** .
2. Select **Wi-Fi**.
3. Touch the toggle box to turn **Wi-Fi networking** On  or Off .
4. If you turned Wi-Fi networking Off , select when you want Wi-Fi turned back On . You have the option to choose **in 1 hour**, **in 4 hours**, **in 1 day** or **manually**.

Connecting to a Wi-Fi Network




1. In the **Apps list**, touch **Settings**  > **Wi-Fi**.
2. Verify the **Wi-Fi networking** is turned On .

The terminal searches for available Wi-Fi networks within range. If the terminal previously connected to a Wi-Fi network, it automatically reconnects to the same network.
3. Touch the network name you want to connect to from the available Wi-Fi network list.
4. If the network is secured, you are asked to provide information relevant to the network security protocol (e.g., password, key, or certificate). Enter the required information.
5. Touch **Done** to connect.

Connecting to a Hidden Wi-Fi Network

For security reasons, some networks do not broadcast the network name and do not appear on the available network list even if you are in range.


To connect to a hidden network:

1. In the **Apps list**, touch **Settings**  > **Wi-Fi**.
2. Verify the **Wi-Fi networking** is turned On .
3. Select **manage** and then touch Add .
4. Input the network name in the Network name box, and then tap **add**. The network name is case sensitive.
5. If the network is secured, you are asked to provide information relevant to the network security protocol (e.g., password, key, or certificate). Enter the required information.
6. Touch **Done** to connect.

Managing Wi-Fi Networks


Viewing and Editing Network Connection Information

When a Wi-Fi connection is active, you can view connection information (e.g., IP address, Subnet mask, Default gateway, DNS and DNS suffix) or edit the network settings by selecting the network name on the Wi-Fi settings screen


(**Settings**  > **Wi-Fi**). If the network connection is not active, touch **manage** from the Wi-Fi settings screen, and then touch the network name under **Known networks**.

Stopping the Terminal from Automatically Connecting to a Wi-Fi Network

If you do not want the terminal to automatically connect to a known network:

1. In the **Apps list**, touch **Settings**  > **Wi-Fi**.
2. Select **manage**.
3. Under **Known networks**, touch the network name.
4. Remove the check from the **Connect automatically** check box.

Deleting a Saved Network



1. In the **Apps list**, touch **Settings**  > **Wi-Fi**.
2. Select **manage**.
3. Under **Known networks**, touch and hold the network name you want to delete.
4. Select **delete**.

Advanced Wi-Fi Radio Settings and Security

The **Wi-Fi Radio Settings** network utility provides several options for advanced configuration of the Wi-Fi 802.11 radio in the terminal.

Modifying the Channel Settings



If you want to manually select the channel(s) the 802.11 radio uses:

1. In the **Apps list**, touch **Settings** .
2. Select **Wi-Fi Radio Settings** under the extras heading.
3. Touch **Channel Settings**, and then swipe left or right to view the channels available under the 2.5GHz, 5GHz, and DFS bands.
4. Select the box next to a channel to enable (check) or disable (no check) the channel for Wi-Fi use.
5. Touch save .

Changing the Roaming Settings

By default roaming is enabled for the 802.11 radio. When enabled, the Wi-Fi radio automatically roams from one access point to another as needed to provide seamless connectivity.



To turn off Wi-fi roaming capabilities Off:

1. In the **Apps list**, touch **Settings** .
2. Select **Wi-Fi Radio Settings** under the extras heading.
3. Touch **Roaming Settings**.
4. Touch the **Roaming** check box to turn roaming off (not checked).
5. Touch save .

Enabling Protected Management Frame (PMF) or AKM with SHA256 Key Derivation

The Dolphin 75e supports AP Protected Management Frame (802.11w) authentication and encryption technology for data communication, which adds protection against attacks targeted for wireless management frames. You can configure the radio to restrict access to APs that meet the PMF standard and enable AKM with SHA256 Key Derivation for added security.

To change the Wi-Fi Radio settings:

1. In the **Apps list**, touch **Settings** .
2. Select **Wi-Fi Radio Settings** under the extras heading.
3. Modify the following settings to meet your security needs:
 - Check the **PMF Enabled** box to turn On WLAN data communication using Protected Management Frame standards. The default setting for this option is Off (no check).
 - Check the **PMF Require** box to restrict AP selection for WLAN data communication to APs that meet PMF standards. The default setting for this option is Off (no check).
 - Check the **AKM with SHA256 Key Derivation** check box to use HMAC-SHA256 as the Authentication and Key Management (AKM) suite to protect security. The default setting for this option is Off (no check).
4. Touch save .

Airplane Mode

See [Turning Airplane Mode On/Off](#) on page 1-11.




Virtual Private Networks (VPN)

You can use a Virtual Private Network connection for additional security when connecting to your organization's network or Internet via Wi-Fi. To establish a VPN connection you must first create a VPN profile on the terminal either by setting up a **workplace account** (see page 5-7) using a profile supplied by your organization or by manually creating a profile. To manually set up a VPN profile, you may need to do one of the following first:

- Ask your ISP or network administrator for the VPN connection settings for your organization (e.g., proxy server name, server type, port, type of Socks protocol used, and your user name and password) if you do not already have the information.
- Visit the Windows Phone Store to download an app for the VPN service you want to use. Check the service provider's web site for any additional installation or set up requirements.

Adding a VPN Profile

To manually set up a VPN profile:

1. In the **Apps list**, touch **Settings**  > **VPN**.
2. Turn the **VPN Status** On .
3. Touch **add** .
4. In the **Server name or IP address** box, input the server name or IP address of the VPN server.
5. In the **Type** box, choose either **IKEv2**, **L2TP with IPsec** or your **VPN service provider** for the type of VPN connection you want to create.


The VPN service provider only appears in the options if you have already downloaded and installed the service provider app. If needed, you can touch the link under the Type box to connect and download a SSL VPN app from the Windows Store.

6. Touch the **Connect using** box. Select the security type required to connect to the VPN server and then input the relevant information. The options listed change depending on the type of connection you selected in the previous step. This setting may not be available for all connection types (e.g., if you used an SSL VPN app).

- **User name + password**
Select and enter your **User name** and **Password** in the boxes provided.
- **Certificate**
Select to have the terminal automatically search for certificates on the terminal. Touch the security certificate you want to use to connect to the VPN.
- **User name + password + preshared key**
Select and enter your **User name**, **Password** and **Preshared Key** in the boxes provided.
- **Preshared key**
Select and enter your **Preshared Key** in the box provided.
- **Preshared key+ certificate**
Select to have the terminal automatically search for certificates on the terminal. Touch the security certificate you want to use to connect to the VPN and then enter the **Preshared Key** in the box provided.

- If you are using a certificate to connect, you can turn On **Server certificate validation** for added security. When turned On , the authenticity of the server is validated by comparing the server certificate to the terminal certificate.
- Select whether you want the terminal to **Connect automatically** to the VPN. By default automatic connection is turned On . If this option is turned Off , you have to manually select the VPN each time you want to connect.
- By default **Send all traffic** is turned On . All data you send and receive goes over the VPN when the connection active. You can limit traffic over the VPN to only data sent and received from protected domains or IP addresses.

To specify data traffic restrictions over the VPN:

- Turn Off **Send all traffic**.
- Touch **domains** or **IP ranges**, and then select **add** .
- Enter the protected domain name or IP range or addresses, and then select **add**.
- Press the **Back** button.


- In the **Profile name** box, add the VPN profile name you want your settings saved under.
- If needed, touch **Advanced**, to modify the following settings:
 - Enter specific **Proxy** settings or add a **DNS suffix**.
 - Turn **VPN use on company Wi-Fi** On or Off .
 - Turn **VPN use on home Wi-Fi** On or Off .

12. When you are done modifying the **Advanced** settings, press the **Back**  button.

13. Select **save**.

Connecting to a VPN

The type of VPN profile determines what you need to do to connect to the VPN. Profiles that have been set to connect automatically do not require you to manually connect each time you want to access the VPN.

- In the **Apps list**, touch **Settings**  > **VPN**.
- Verify the VPN Status is On .
- The connection type is listed under the profile name (e.g., Automatic, Manual). Depending on the connection type, do one of the following to connect:
 - **Automatic**
The terminal automatically connects to the VPN when you access the organization's network or Internet sites that have an IP address in the protected IP range.

- **Manual**


Touch the profile name to connect to the VPN and then use the organization's app to access data on the private network, visit the organization's intranet site or protected domains and IP addresses.

Note: When a VPN connection is established over the Wi-Fi,  appears in the status bar at the top of the screen.

To change the profile connection type:


1. From the VPN Settings screen, touch and hold the name of the VPN profile.
2. Select either **switch to automatic** or **switch to manual**.

Disconnecting the VPN

1. In the **Apps list**, touch **Settings**  > **VPN**.
2. Turn Off **VPN**.


Editing or Deleting a VPN Profile

To edit or delete the VPN profile:

1. In the **Apps list**, touch **Settings**  > **VPN**.
2. Touch and hold the name of the VPN profile you want to edit or delete.
3. Select either **edit** or **delete**.
4. Edit the profile information and select **save**.

Viewing the VPN Profile Status

If you want to view details about a VPN profile including the connection status, if the profile was added by a company policy, and any connection error codes:

1. In the **Apps list**, touch **Settings**  > **VPN**.
2. Touch and hold the name of the VPN profile.
3. Select **details**.

Working with Certificates

The Windows Embedded 8.1 Handheld allows you to install digital certificates for secure client communications with websites and services via three methods: Internet Explorer, email or mobile device management (MDM). Once a certificate is installed, it can be used when setting up your VPN profiles, Wi-Fi and email accounts. A certificate can only be removed by resetting the terminal.

Installing a Certificate via Internet Explorer

Some certificates are posted and made available for download through a device-accessible URL. When you access the page and select the certificate, it opens on the terminal and you can choose to install or cancel the certificate installation.

Installing a Certificate via email

The Windows Embedded 8.1 Handheld certificate installer supports .cer, .p7b, .pem, and .pfx files. Open the email that has the encrypted certificate file attached. Save the file to the terminal. Select the file to open it and choose install. Enter any security information (e.g., password, user name) required.

Installing a Certificate via MDM

Administrators can use MDM software to add root and CA certificates or configure the terminal to enroll a client certificate with an enrollment server that supports Simple Certificate Enrollment Protocol (SCEP) used for certificate based client authentication (e.g., Wi-Fi, VPN, email). To learn how to install certificates via MDM, go to “Installing digital certificates” on the Microsoft Developer Network (MSDN) Web site at <https://msdn.microsoft.com/en-us/library/dn643705.aspx>.

Removing Certificates


A Factory Reset (Clean Boot) is required to remove a certificate installed on the terminal. To learn how to perform a Factory Reset, see [Resetting the Terminal](#) on page 1-13.

Ethernet Communication

See [Establishing Ethernet Communication](#) on page 9-6.

Viewing Network Adapter Information and Renewing/Releasing IP Addresses

The **IPConfig**  app displays, releases, and renews IP parameters for on-board network adapters.

1. In the **Apps list**, touch **IPConfig** .
2. From the **AdapterInfo** screen, touch the box under **Adapter**.
3. Select one of the integrated network adapters installed in the terminal from the drop down menu:
 - **Bluetooth Device (Personal Area Network Adapter)**
 - **Qualcomm Atheros Wireless LAN Adapter**
 - **Microsoft Wi-Fi Direct Virtual Adapter**

Every field on the screen pertains to the adapter selected from the drop down menu. Swipe up or down to view the following:

- Mac and IP addresses
- Netmask
- Gateway
- DHCP enabled (Yes or No)
- DHCP server
- Index
- Lease Expiration date
- Lease Obtained date
- Type (e.g. 802.11 or Ethernet CSMACD)

Swipe left to view the **NetworkParams** screen. This screen provides information on:


- Host Name
- DNS
- Node Type
- Routing enabled (Yes or No)
- Proxy enabled (Yes or No)


To Renew or Release the IP Address used by the selected adapter:

4. Touch **more**  on the AdapterInfo screen.
5. Select either **RenewIPAddress** or **ReleaseIPAddress**.

You can refresh the information shown by selecting .

Using the Ping App to Test a Network Connection

The **Ping**  app provides a GUI-based version of the traditional command line ping utility. Pinging sends out an echo request to a specific computer on the network. Use Ping to verify communication links or to make sure a specific IP address is working.

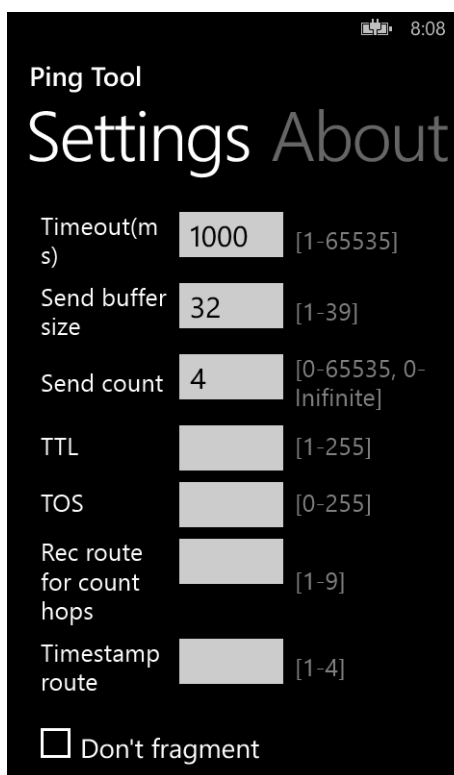
In the **Apps list**, touch **Ping** . The app is organized into three screens: **Ping**, **Settings**, and **About**. You can switch between the screens by swiping left or right.

From the **Ping** screen you can initiate a ping to a specified remote host and see the results. Enter the destination IP address in the box and then touch **Ping**. The results appear in the lower half of the screen. You can configure the parameters of the ping being sent from the **Settings** screen.

Ping



Settings



Note: You do not need to complete all the fields on Settings screen to successfully execute a Ping. Just enter the Destination IP address on the Ping screen.

Configuring the Ping App

Swipe left to access the **Settings** screen and then modify one or more of the following fields:

- **Timeout**
Enter the timeout time in millisecond intervals; 1000 is the default.
- **Send buffer size**
Indicate the buffer size for sending; 32 is the default.
- **Send count**
Indicate the count for sending; 4 is the default. Check Infinite to make the send count infinite.
- **TTL**
Enter the Time To Live (TTL); 1–255. This is the maximum amount of time a packet is allowed to travel through the network before it is discarded.
- **TOS**
Enter the Type of Service (TOS); 1–255. This specifies the value in the IP header for Echo request messages sent.

- **Rec route for count hops**


Enter the number of hops to record in the IP header; 1–9. This field traces the route of the packets for each hop. The hop count is the number of network devices between the starting node and the destination node that an IP packet hits while traveling over a network. The number of hops is recorded in the IP header.


- **Timestamp route**

Enter the number of timestamps to record for each hop; 1–4. The timestamp is the packet's arrival time at each hop.

Check the box next to **Don't Fragment** to specify echo request messages are sent with the Don't Fragment flag in the IP header set to 1. The Echo Request message cannot be fragmented by routers in the path to the destination.

Changing How Data Packets are Routed

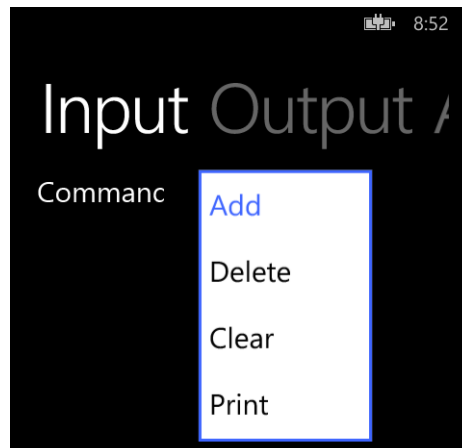
The **Route**  app allows you to view and edit the rules that govern how packets destined for various subnets are routed. These rules tell the device which gateways on a given interface's subnet may be used to route packets to hosts on other subnets.

In the **Apps list**, touch **Route** .

The Route screen opens to the **Input** screen. Route is organized into three screens: **Input**, **Output**, and **About**. Enter and execute a command on the **Input** screen and review the results on the **Output** screen.

Using the Command Options in the Route App

On the **Input** screen, touch the box next to access the available **Commands** (i.e., Add, Delete, Clear or Print).



To add a route:

1. On the **Input** tab, select **Add** from the Commands drop-down list.
2. Specify the range of IP addresses to which this rule will apply using the **Destination** and **Netmask** fields.
3. Enter the **Gateway**.
4. Enter the **Metric** (not always required).
5. Enter the **Interface** (not always required).
6. Touch **Execute**. The system verifies your results and the **Output** screen lets you know if your entry was added successfully.

To delete an active route:

1. On the **Input** tab, select **Delete** from the Commands drop-down list.
2. Enter the IP address in the **Destination** field.
3. Touch **Execute**. The system processes the request and displays how many routes were deleted.

To clear the routing tables of all the gateway entries:

1. On the **Input** tab, select **Clear** from the Commands drop-down list.
2. Touch **Execute**. The system processes your request and the number of entries deleted appears on the **Output** screen.

To print network routing tables to the Output screen:

1. On the **Input** tab, select **Print** from the Commands drop-down list.
2. Touch **Execute**. The **Output** tab displays the network routing table.



Working with Bluetooth and NFC Technology

Bluetooth Technology

Bluetooth is a short-range wireless communications technology used to exchanged data between devices over a distance of approximately 26.2 feet (8 meters). Windows Embedded 8.1 Handheld supports both Bluetooth™ 2.1 and 4.0 wireless communication technology.

Turning the Bluetooth Radio On or Off

Before you can connect or pair your terminal to another device using Bluetooth technology, you must first turn on the Bluetooth radio.


1. In the **Apps list**, touch **Settings** .
2. Select **Bluetooth**, and then turn the **Status** to On .



Once the Bluetooth radio is activated, the terminal automatically starts searching for discoverable devices. When a device is found in range, it appears on the screen. The terminal also becomes discoverable to other nearby devices with Bluetooth technology as long as the Bluetooth settings screen is displayed.

Pairing and Trusted Devices

The terminal supports pairing with other devices using Bluetooth technology. Pairing happens during general connection setup. Paired devices are “trusted” devices. This means that there is unrestricted access to all services (including services that require authorization and authentication).

Connecting to Other Bluetooth Devices

To connect to other Bluetooth devices, you need to perform a device search, select a discovered device, and then connect to the selected device. Pairing happens as part of the connection process. After paired with a device, the terminal automatically connects whenever the device is in range, the terminal Bluetooth radio is turned On , and the terminal is not locked or in sleep mode.

1. Make sure the Bluetooth device you are attempting to connect to is in range and set to be discoverable by other devices using Bluetooth technology. Both the terminal and device must be active (not locked or in sleep mode).
2. In the **Apps list**, touch **Settings**  > **Bluetooth**.
3. Verify the Bluetooth radio **Status** is On .
4. Touch on the name of the device you want to pair with the terminal. As the Bluetooth radio attempts to connect with the device, “pairing” appears under the name.
5. If the device requires a pin, do one of the following:
 - Compare the pin displayed on both the terminal and other device in the Pairing accessory message box. If they match, select **OK**.
 - Enter the pin for the device and then select **done**.
6. When the devices are paired successfully, “paired” appears under the device name.


Note: When attempting to connect to a printer or headset with Bluetooth capabilities, the pin may default to either 1234 or 0000. If there is no default, consult the device literature for the number.

Unpairing Bluetooth Devices

1. In the **Apps list**, touch **Settings**  > **Bluetooth**.
2. Touch and hold the name of the paired device, and then select **delete**.

Making the Terminal Discoverable

By default, the Dolphin terminal is not discoverable by other Bluetooth devices unless the following conditions are met:

- the Bluetooth radio is turned On 
- the Bluetooth settings screen is displayed
- the screen lock is off and the terminal is not in sleep mode


Bluetooth Advanced Options

If your Bluetooth device has problems with speech recognition, select **advanced** on the Bluetooth settings screen. Check the box next to **Use an alternate Bluetooth audio connection for Speech**.



Sharing Photos and Videos

Before attempting to transfer files, make sure the receiving Bluetooth device is in range of the terminal and set to be discoverable by other devices. The device must be able to support the Bluetooth Object Push Profile (OPP) needed for the transfer. Depending on the operating system of the receiving device, you may need to set the device to receive incoming beams (Android devices).

1. Verify the Bluetooth radio is turned on for both devices. See [Turning the Bluetooth Radio On or Off](#) on page 7-1.
2. Pair the terminal with the device that going to receive the file. To learn how, see [Connecting to Other Bluetooth Devices](#) on page 7-1.

3. In the **Apps list** on the terminal, touch **Photos** .

4. Do one of the following:

- To share a photo, browse to and select the photo. Touch **share** .
- To share a video select **albums > Camera Roll**. Select the video you want to share, and then touch **share** .

5. Touch **Bluetooth**.

6. On **Choose Bluetooth device** screen, touch the name of the receiving device from the paired device list.

A message at the top of the screen notifies you the file is **Sharing** with a progress indicator (%).

7. Accept the file transfer on the receiving device. The acceptance procedure depends on the device's OS and security protocols.

A **Transfer complete** message appears at the top of the screen on the Dolphin 75e.

If you are sharing with another Windows Embedded 8.1 Handheld device, "Done and saved. Tap to view." appears at the top of the screen indicating a successful file transfer.

Near Field Communication (NFC) Technology

NFC technology provides the ability for short-range, wireless data transfer between the terminal and NFC tags or other NFC enabled devices placed in close proximity (tapped) to the back of the terminal. NFC equipped Dolphin 75e models support the following:

- **NFC tag Reader/Write mode**
The terminal reads/writes NFC Data Exchange Format (NDEF) information from/to an NFC tag.
- **Peer-to-Peer (P2P) mode**
The terminal uses either Bluetooth or WLAN technology to transfer content (e.g., a picture, contact information, Web page URL, or file) between NFC enabled devices.

Note: Sleep mode (Suspend mode) and the screen lock temporarily turns the NFC radio off.

Hardware Requirements

NFC functionality is hardware dependent and only available on Dolphin 75e models ending with the letter N (e.g., 75exxN). Use only NFC compatible replacement battery doors with NFC equipped Dolphin models.



Security Recommendation

NFC functionality is enabled by default on Dolphin 75e models ending with the letter N (e.g., 75exxN). The recommended setting for NFC functionality is disabled until the feature is required. Enabling NFC allows data exchanges between the terminal and other NFC devices or tags.

NFC Settings



Enabling or Disabling NFC Functionality

To enable NFC for short-range wireless data exchange:

1. In the **Apps list**, touch **Settings** .
2. Touch **NFC**.
3. Turn On  **Tap to share** to enable NFC sharing and pairing.


*Note: The Dolphin 75e does not currently support the **Tap to pay** feature.*


To disable NFC functionality:



1. In the **Apps list**, touch **Settings**  > **NFC**.
2. Turn Off  **Tap to share**.

Sharing Photos and Videos

To share files between the terminal and another device using NFC technology:

- The Bluetooth radio must be enabled on both the terminal and the other device. Depending on the OS of the other device, you may also need to enable other options. Consult the user documentation for the device.
- NFC functionality must be enabled on both devices. On the Dolphin 75e, **Tap to share** must be turned On  under NFC settings. Depending on the OS of the other device, you may also need to enable other options. Consult the user documentation for the device.
- Both the terminal and device must be active (not locked or in sleep mode).

1. In the **Apps list** on the terminal, touch **Photos** .
2. Do one of the following:

- To share a photo, browse to and select the photo. Touch **share** .
- To share a video select **albums** > **Camera Roll**. Select the video you want to share, and then touch **share** .

3. Touch **Tap to share (NFC)**.
4. Hold the terminal and the other device back to back.

A message at the top of the screen notifies you the file is **Waiting** for the other device to approve the transfer.

5. **Accept** the file transfer on the receiving device. The acceptance procedure depends on the device's OS and security protocols.

Once the transfer is accepted, the message at the top of the screen notifies you the file is **Sharing** and a progress indicator (%) is shown. When the Dolphin 75e is done sending, **Transfer complete** appears.

If you are sharing with another Dolphin 75e, “Done and saved. Tap to view.” appears at the top of the screen to indicate a successful file transfer.

Reading NFC Tags

Embedded NFC tags can be included in business cards, advertising media, books and posters. When the tag is read by the terminal, the information contained on the tag can be quickly saved, for example, a person’s contact information. The tag might also include a URL opens a coupon, additional product information or a company Web site.

To read an NFC tag:

1. Hold the NFC tag close to the back of the terminal.
2. When an NFC tag is recognized, touch **Accept** to open the contact or website.

Note: The terminal must be unlocked for NFC tag detection.

Dolphin 70e Black HomeBase (Model 70e-HB)

Overview

The Dolphin 70e Black HomeBase (Model 70e-HB) is a charging and communication cradle that supports USB Hi-Speed 2.0v communication, which enables the terminal to interface with the majority of PC-based enterprise systems. The HomeBase also contains an auxiliary battery well that charges a spare Honeywell standard or extended battery.

The 70e-HB charger is designed for use with the following Dolphin models and batteries manufactured for Honeywell International Inc:

Dolphin Models	Battery Model No.	Battery Part No.	Battery Specification
Dolphin 75e Dolphin 70e	70e-BTSC	BAT-STANDARD-02	Li-ion 3.7V, 6.179 watt hour
	70e-BTEC	BAT-EXTENDED-02	Li-ion 3.7V, 12.358 watt hour



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.

Unpacking the HomeBase

Open the shipping box and inspect the package to see that the following standard items are included:

- One Dolphin HomeBase, model 70e-HB
- One power supply (see [Power](#) on page 8-4)
- One power cord

These items are needed to operate the HomeBase. If any items are missing or anything appears to be damaged, contact your Customer Account Representative. Keep the original packaging in case you need to return the HomeBase for service or to store the HomeBase while not in use.

Optional Equipment

A standard USB (Type A to B) cable is required when using the HomeBase for communication between the terminal and a host device.

Charging Overview

The base provides power to the intelligent battery charging system in all Dolphin terminals that senses when a full charge has been achieved and switches to a trickle charge to maintain the full charge. The base completes a full charge of the main battery installed in the terminal seated in the terminal well in 4 hours for the standard battery or 6 hours for the extended battery. The base completes a full charge of the battery pack in the [Auxiliary Battery Well](#) (see page 8-3) in 4 hours for the standard battery or 6 hours for the extended battery.

Note: Before attempting to use, charge, or replace the battery in the terminal, you should read the [Guidelines for Battery Pack Use and Disposal](#) on page 2-13.



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

Convenient Storage

The intelligent battery charging system makes this base a safe and convenient storage receptacle for your Dolphin terminal.

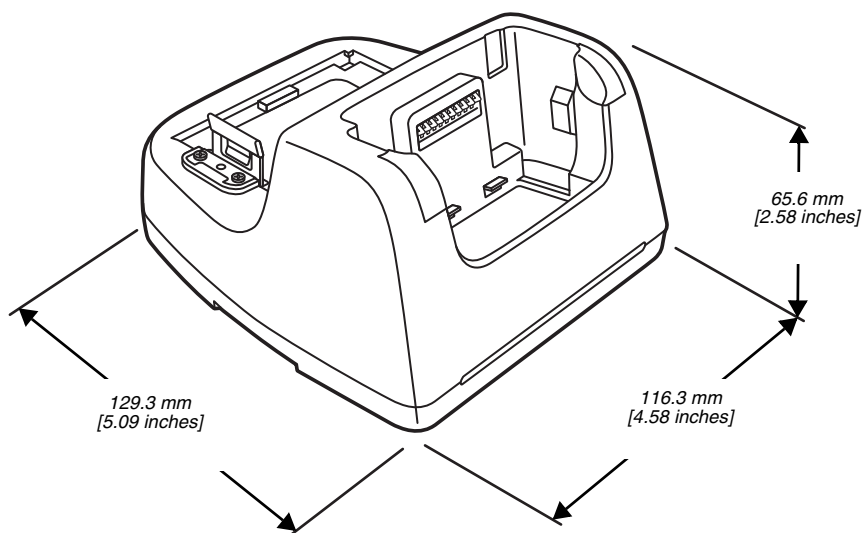
Capacity

The base holds one terminal and features an auxiliary battery well behind the terminal well that can charge a battery pack independently of the terminal well. This means that one base can charge two battery packs: the one installed in the terminal and a spare.



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.

Dimensions



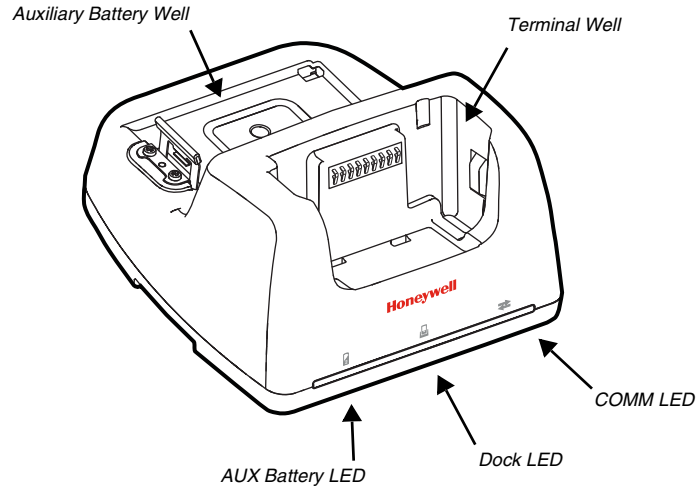
Weight

HomeBase weight: 303g [.668 lbs]

Note: Weight excludes packaging, cables and power supply.

Parts and Functions

Front Panel



Terminal Well

Place the terminal in this well to communicate with a host device, power the terminal, and charge the installed battery pack. The base completely charges the main battery in a Dolphin terminal in 4 hours for the standard battery or 6 hours for the extended battery. See [page 8-6](#) for information on [USB Communication](#) between the host and terminal via the HomeBase.

Auxiliary Battery Well

See "Auxiliary Battery Well" on page 8-4

AUX Battery LED

Indicates status of the battery charging in the auxiliary battery well; see [Back Panel](#) on page 8-4.

This color	means...
Orange	The auxiliary battery is charging.
Green	The auxiliary battery has completed charging and is ready for use.

For information about charging a battery in the auxiliary battery well, see page 8-5.

Dock LED

Indicates if a terminal is docked properly in the base.

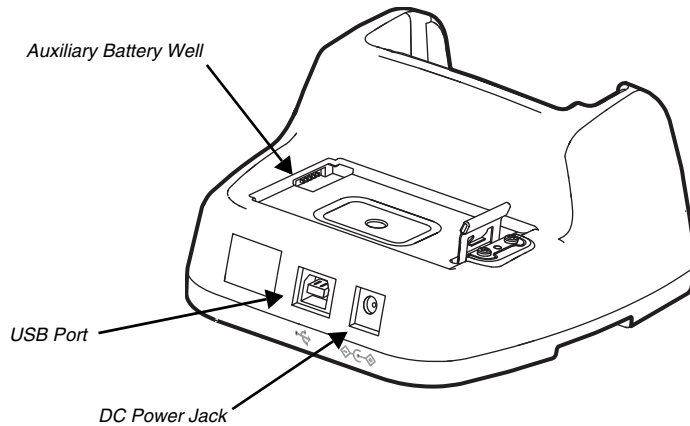
This color	means...
Blue	The terminal is properly seated in the base.

COMM LED

This is the communication LED. It indicates the status of data transfer between the Dolphin terminal and the host device.

This color	means...
Green	A USB Connection is established with the host workstation.

Back Panel



Auxiliary Battery Well

The base enables you to charge an additional battery pack independently of the terminal well in 4 hours for the standard battery or 6 hours for the extended battery. This feature ensures that you can always have a fully-charged battery for your terminal. See [Charging a Spare Battery in the Auxiliary Battery Well](#) on page 8-5.

USB Port

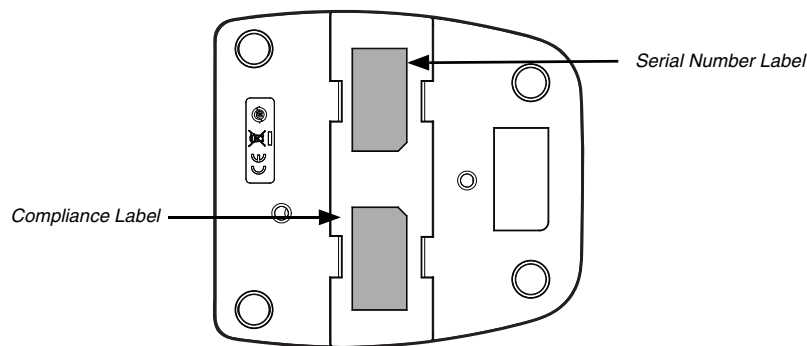
This USB port is USB v2.0 Hi-Speed (480 Mbps) compliant. Using a USB cable, you can connect the base to a host device, such as a workstation. When the terminal is seated in the terminal well, it is connected to the host device via the base. See [Communication](#) on page 8-6.

DC Power Jack

See [Power](#) on page 8-4.

Bottom Panel

For details on how to mount the HomeBase, see [Mounting the HomeBase](#) on page 8-6.



Power

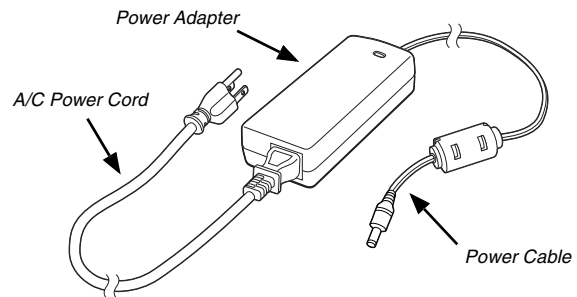
The base requires 12 Volts DC input for communications, battery charging, and power output to the terminal. The power adapter included with the base, converts the voltage from the AC power source to 12 Volts DC. **Use only a UL listed power supply, which has been qualified by Honeywell with output rated at 12VDC and 3 amps with the device.** The operating temperature range is -10° to 50°C (14° to 122°F). Honeywell recommends that you leave the base connected to its power source at all times, so that it is always ready to use.



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.

Connecting Power to the HomeBase

1. Plug the A/C power cord into the power adapter.
2. Plug the power cable into the power connector on the back of the HomeBase.
3. Plug the A/C power cord into a grounded power source.
4. The base is now powered.



Charging the Main Battery

The base provides power to the Dolphin terminal and allows the charging of the terminal's battery. The intelligent battery charging system incorporated into all Dolphin terminals prevents overcharging, which means that Dolphin terminals may be stored in the base indefinitely without damage to the terminals, battery, or the base. When the terminal is docked, the base completes a full charge in 4 hours for the standard battery or 6 hours for the extended battery.



For more information about Honeywell battery packs and how to check battery power levels in your terminal, refer to [Battery](#) (page 2-8).

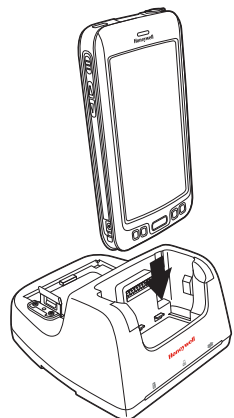
To Power a Terminal and Charge its Main Battery



Ensure all components are dry prior to mating terminals/batteries with peripheral devices. Mating wet components may cause damage not covered by the warranty.

1. Install the battery pack in the terminal; see [Install the Battery](#) on page 1-1.
2. Slide the terminal into the terminal well. The Dock LED illuminates blue. Battery charging begins immediately if required by the Dolphin terminal.

Note: When the terminal is docked, the Battery Icon changes from  to , indicating the terminal is running on external power. Battery charging occurs in the background. When the Dolphin is removed from the base, the battery icon indicates the charge level of the battery, see [Common Status and Notification Icons](#) on page 1-8.



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

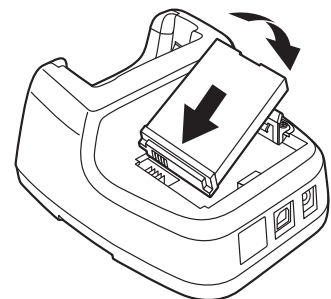
Charging a Spare Battery in the Auxiliary Battery Well

The auxiliary battery well located on the back of the base charges a spare battery independently of the terminal well. The Aux Battery LED on the front panel indicates the status of the battery in this well. Charge time is 4 hours for the standard battery pack or 6 hours for the extended battery pack; see [Auxiliary Battery Well](#) on page 8-4.

1. Insert the battery at an angle.

Note: Align the battery contacts with the contacts inside the auxiliary battery well.

2. Snap the battery into place with a hinging motion. The Aux Battery LED lights orange during charging.
3. Use the AUX Battery LED to monitor the charging progress. The LED changes to green when the auxiliary battery has completed charging and is ready for use.



Communication

Dolphin terminals support USB communications out of the box. The base also supports USB communications via the USB port located on the back. The base acts as a USB device by interfacing the USB signals of the Dolphin terminal to the USB of the host workstation. Using a standard USB cable, the base's USB interface allows the Dolphin terminal to communicate with a workstation.

Note: This base cannot be daisy-chained.

Requirements

- A base powered by a power cable and power adapter cable
- A standard USB (Type A to B) communication cable
- A work station running Windows XP, Windows Vista, or Windows 7.

Establishing USB Communication

1. Connect power to the HomeBase (see [Power](#) on page 8-4).
2. Plug the USB communication cable into the USB port on the back of the base.
3. Connect the other end of the USB cable to the host workstation.
4. Insert the Dolphin terminal into the terminal well of the base. The Dock LED illuminates blue.

If you are using Windows® 8, the Windows Phone® app automatically opens on the PC. If you are using Windows 7 or Mac, go to www.windowsphone.com to download and install the Windows Phone app for desktop or Mac.

5. In the Windows Phone app, set your phone name and sync preferences.

The default phone name is "Windows Embedded Handheld". You can always modify your preferences later by selecting **Settings** in the upper right corner of the app screen.

If you want to use File Explorer or Windows Explorer to transfer files between your Dolphin terminal and PC without using the Windows Phone app, see [Using File Explorer or Windows Explorer to Transfer Files](#) on page 1-14.

Note: The Dolphin terminal should always be removed from the HomeBase when connecting or disconnecting the USB cable.

Mounting the HomeBase

Set the base on a dry, stable surface, such as a desktop or workbench near an electrical outlet. The user should be able to view and operate the Dolphin terminal while it is in the base. When choosing a mounting location, bear in mind that the location must allow users' easy access to the Auxiliary Battery Well and the back panel of the HomeBase where the USB port and the power jack are located.

Optional DIN Rail Mount

A DIN rail (7.5 X 35 mm) may be installed on the bottom of the base to provide the optional security of mounting the base to a flat horizontal surface with hardware.

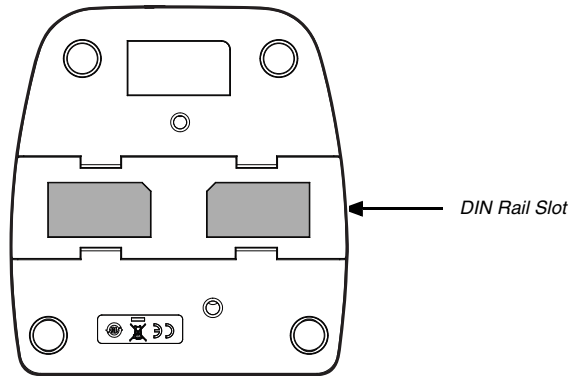
Additional Hardware

- DIN Rail, Qty. 1
- 3/16 in. dia x 5/8 in. long pan head screw, Qty. 2
- 1/2 in. OD x 7/32 in. ID x 3/64 in. thick washer, Qty. 4
- 3/16 in. dia nut, Qty. 2

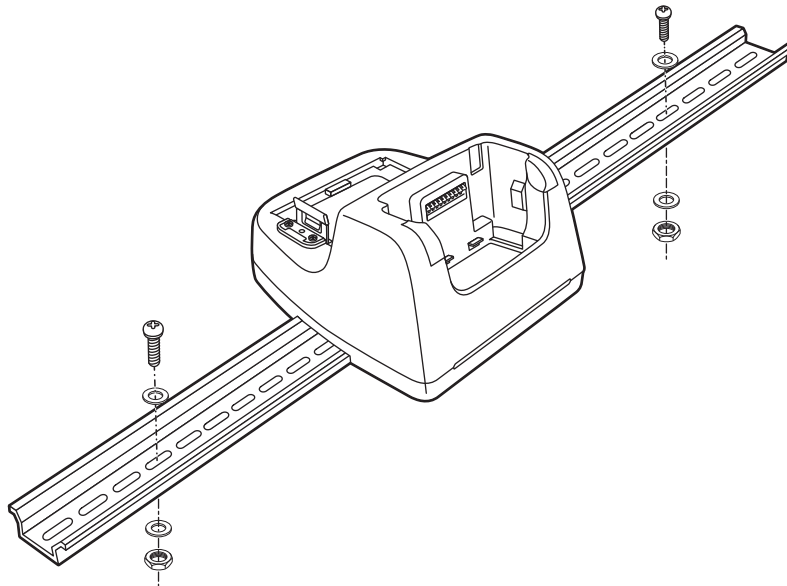
Note: The items listed are for reference only. Final hardware selection is dependent on the material type and thickness of the mounting surface.

Installing the DIN Rail

1. Slide the DIN rail into the slot along the bottom panel of the base.



2. Use the appropriate hardware to secure the DIN rail to the desk or flat surface.





Dolphin 70e Black eBase (Model 70e-EHB)

Overview

The Ethernet Base (eBase) enables a single Dolphin 75e computer to communicate with a host device over an Ethernet network. The 70e-EHB charger is designed for use with the following Dolphin models and batteries, manufactured for Honeywell International Inc:

Dolphin Models	Battery Model No.	Battery Part No.	Battery Specification
Dolphin 75e Dolphin 70e	70e-BTSC	BAT-STANDARD-02	Li-ion 3.7V, 6.179 watt hour
	70e-BTEC	BAT-EXTENDED-02	Li-ion 3.7V, 12.358 watt hour



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.

Unpacking the eBase

Open the shipping box and inspect the package to see that the following standard items are included:

- One Dolphin eBase Ethernet cradle, model 70e-EHB
- One power supply (see [Power](#) on page 9-4)
- One power cord

These items are needed to set up and operate the eBase. If any items are missing or anything appears to be damaged, contact your Customer Account Representative. Keep the original packaging in case you need to return the eBase for service or to store the eBase while not in use.

Optional Equipment

- A standard USB (Type A to B) cable is required when using the eBase for USB communication between the terminal and a host device.
- A standard CAT-5 Ethernet network cable is required when using the eBase for communication between the terminal and a host device over an Ethernet network.

Charging Overview

The base provides power to the intelligent battery charging system in all Dolphin terminals that senses when a full charge has been achieved and switches to a trickle charge to maintain the full charge. The base completes a full charge of the main battery pack installed in the terminal seated in the terminal well in 4 hours for the standard battery or 6 hours for the extended battery. The base completes a full charge of the battery pack in the [Auxiliary Battery Well](#) (see page 9-3) in 4 hours for the standard battery or 6 hours for the extended battery.

Note: Before attempting to use, charge, or replace the battery in the terminal, you should read the [Guidelines for Battery Pack Use and Disposal](#) on page 2-13.



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

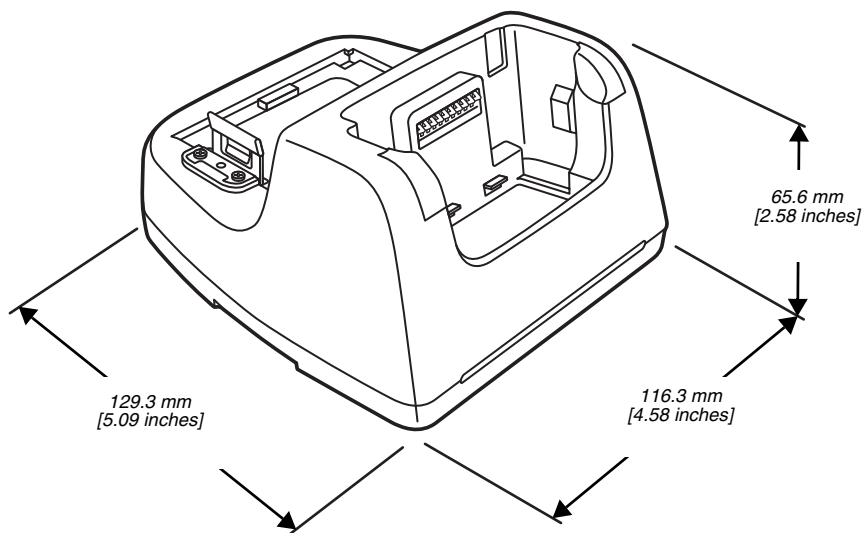
Convenient Storage

The intelligent battery charging system makes this base a safe and convenient storage receptacle for your Dolphin terminal.

Capacity

The base holds one terminal and features an auxiliary battery well behind the terminal well that can charge a battery pack independently of the terminal well. This means that one base can charge two battery packs: the one installed in the terminal and a spare.

Dimensions



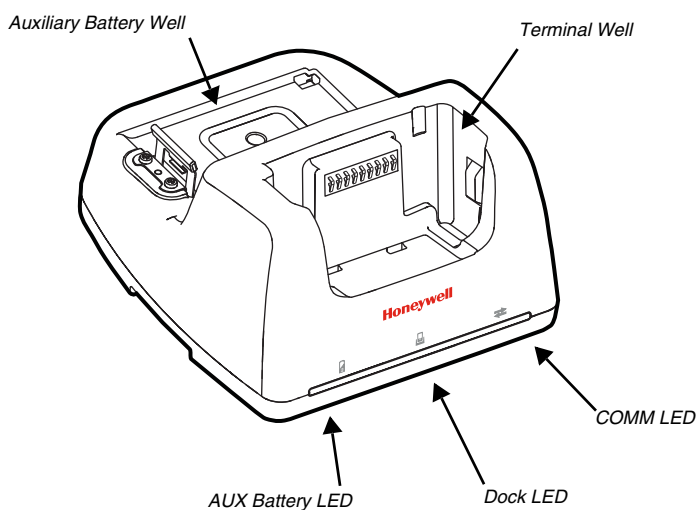
Weight

eBase weight: 310g [.683 lbs]

Note: Weight excludes packaging, cables and power supply.

Parts and Functions

Front Panel



Terminal Well

Place the terminal in this well to communicate with a host device, power the terminal, and charge the installed battery pack. The eBase completely charges the main battery in a Dolphin terminal in 4 hours for the standard battery or 6 hours for the extended battery.

Auxiliary Battery Well

See "Auxiliary Battery Well" on page 9-3

AUX Battery LED

Indicates status of the battery charging in the auxiliary battery well; see [Back Panel](#) on page 9-3.

This color	means...
Orange	The auxiliary battery is charging.
Green	The auxiliary battery has completed charging and is ready for use.

For information about charging a battery in the auxiliary battery well, see page 9-5.

Dock LED

Indicates if a terminal is docked properly in the base.

This color	means...
Blue	The terminal is properly seated in the base.

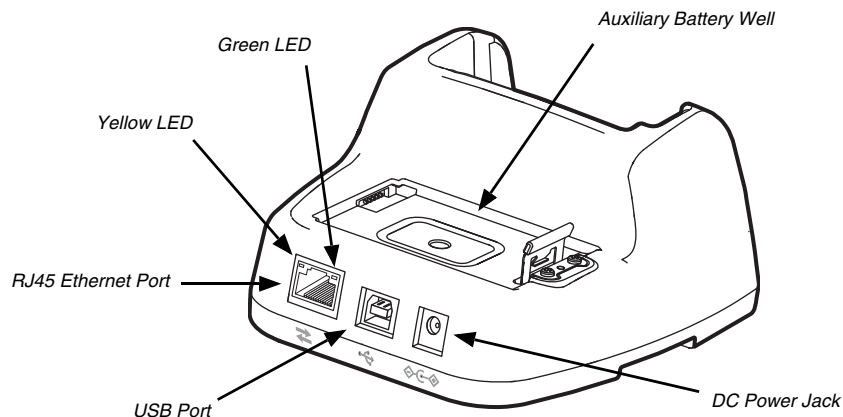
COMM LED

Indicates the status of the connection and data transfer between the Dolphin terminal and the host device.

This color	means...
Green	A USB Connection is established with the host workstation.

Note: Ethernet activity is indicated by RJ45 integrated LED on the back panel of the base.

Back Panel



Auxiliary Battery Well

The eBase enables you to charge an additional battery pack independently of the terminal well in 4 hours for the standard battery or 6 hours for the extended battery. This feature ensures that you can always have a fully charged battery for your terminal.

USB Port

This USB port is USB v2.0 Hi-Speed (480 Mbps) compliant. Using a USB cable, you can connect the base to a host device, such as a workstation (PC). When the terminal is seated in the terminal well, it is connected to the host device via the base.

RJ45 Ethernet Port

Use a standard CAT-5 Ethernet cable; you can connect the ebase to an Ethernet-compliant device to facilitate Ethernet communication to and from the terminal. The RJ45 connector includes integrated LEDs that provide Ethernet communication status and speed information.

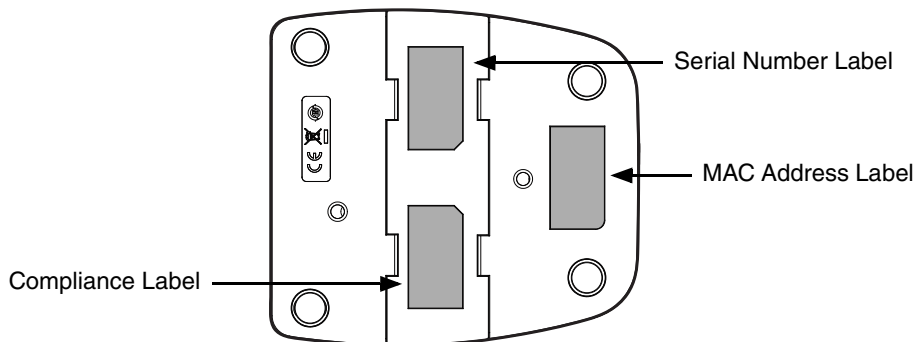
Status	Yellow LED	Green LED
No Ethernet Link	Off	Off
10Mbps Ethernet Connection Established	Off	On
100Mbps Ethernet Connection Established	On	On
Data transfer in progress	Connection Speed Dependent (see above)	Flashing

DC Power Jack

This connector receives input from the power adapter. Plug the power connector cable from the power adapter into this connector, see [Power](#).

Bottom Panel

For details on how to mount the eBase, see [Mounting the eBase](#) on page 9-7.



Power

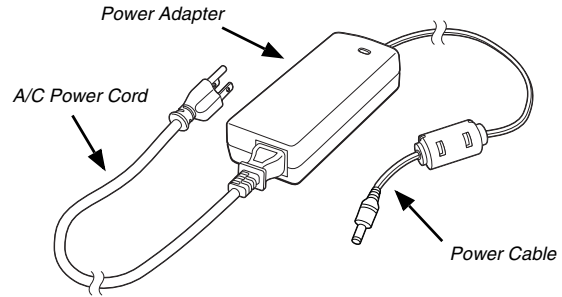
The base requires 12 Volts DC input for communications, battery charging, and power output to the terminal; the power adapter included with the base converts the voltage from the AC power source to 12 Volts DC. **Use only a UL listed power supply, which has been qualified by Honeywell with output rated at 12VDC and 3 amps with the device.** The operating temperature range is -10° to 50°C (14° to 122°F). Honeywell recommends that you leave the eBase connected to its power source at all times, so that it is always ready to use.



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.

Connecting Power to the eBase

1. Plug the A/C power cord into the power adapter.
2. Plug the power cable into the power connector on the back of the eBase.
3. Plug the A/C power cord into a grounded power source.



Charging the Main Battery

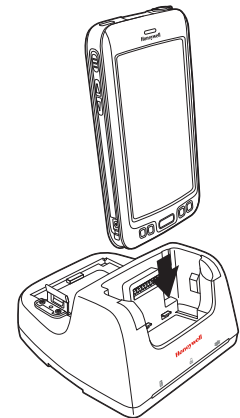
The base provides power to the Dolphin terminal and allows the charging of the terminal's battery. The intelligent battery charging system incorporated into all Dolphin terminals prevents overcharging, which means that Dolphin terminals may be stored in the base indefinitely without damage to the terminals, battery packs, or the base. When the terminal is docked, the base completes a full charge in 4 hours for the standard battery or 6 hours for the extended battery.

For more information about Honeywell battery packs and how to check battery power levels in your terminal, refer to [Battery](#) (page 2-8).



To Power a Terminal and Charge its Main Battery



Ensure all components are dry prior to mating terminals/batteries with peripheral devices. Mating wet components may cause damage not covered by the warranty.



1. Install the battery pack in the terminal; [see page 1-1](#).
2. Slide the terminal into the terminal well. The Dock LED illuminates blue. Battery charging begins immediately if required by the Dolphin terminal.

Note: When the terminal is docked, the Battery Icon changes from  to , indicating the terminal is running on external power. Battery charging occurs in the background. When the Dolphin is removed from the base, the battery icon indicates the charge level of the battery, see [Common Status and Notification Icons](#) on page 1-8.

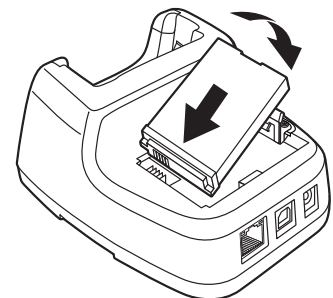


We recommend use of Honeywell Li-Ion battery packs. Use of any non-Honeywell battery may result in damage not covered by the warranty.

Charging a Spare Battery in the Auxiliary Battery Well

The auxiliary battery well located on the back of the base charges a spare battery independently of the terminal well. The Aux Battery LED on the front panel indicates the status of the battery in this well. Charge time is 4 hours for the standard battery pack or 6 hours for the extended battery pack; see [Auxiliary Battery Well](#) on page 9-3.

1. Insert the battery at an angle.
Note: Align the battery contacts with the contacts inside the auxiliary battery well.
2. Snap the battery into place with a hinging motion. The Aux Battery LED lights orange during charging.
3. Use the AUX Battery LED to monitor the charging progress. The LED lights green when the auxiliary battery has completed charging and is ready for use.



Communication

Establishing Ethernet Communication

Connecting the Dolphin Terminal to the eBase

By default, the Dolphin terminal is configured to obtain IP addresses automatically via DHCP server. This means that in most cases you would simply plug-and-play the unit.

1. Connect power to the eBase (see [Power](#) on page 9-4).
2. Plug the CAT-5 Ethernet cable into the RJ45 connector on the back of the eBase.
3. Plug the Ethernet cable into the network.
4. Insert the Dolphin into the terminal well. The Dock LED on the base illuminates blue.

Displaying the eBase and Terminal IP Address

Once the Dolphin terminal has been successfully connected to the network through eBase, the terminal uses the eBase IP address. The IP address can be used by any application on the Dolphin terminal.

In the **Apps list**, touch **DiagnosticInfo**  to view the assigned IP Address.

Establishing USB Communication

Dolphin terminals support USB communications out of the box. The base also supports USB communications via the USB port located on the back. The base acts as a USB device by interfacing the USB signals of the Dolphin terminal to the USB of the host workstation. Using a standard USB cable, the base's USB interface allows the Dolphin terminal to communicate with a workstation.

Note: This base cannot be daisy-chained.

Requirements

- A base powered by a power cable and power adapter cable
- A standard USB (Type A to B) communication cable
- A work station running Windows XP, Windows Vista, Windows 8 or Windows 7.

Setting Up and Connecting the Dolphin Terminal to an eBase

1. Connect power to the HomeBase (see [Power](#) on page 9-4).
2. Plug the USB communication cable into the USB port on the back of the base.
3. Connect the other end of the USB cable to the host workstation.
4. Insert the Dolphin terminal into the terminal well of the base. The Dock LED illuminates blue.

If you are using Windows 8, the Windows Phone app automatically opens on the PC. If you are using Windows 7 or Mac, go to www.windowsphone.com to download and install the Windows Phone app for desktop or Mac.

5. In the Windows Phone app, set your phone name and sync preferences.

The default phone name is "Windows Embedded Handheld". You can always modify your preferences later by selecting **Settings** in the upper right corner of the app screen.

If you want to use File Explorer or Windows Explorer to transfer files between your Dolphin terminal and PC without using the Windows Phone app, see [Using File Explorer or Windows Explorer to Transfer Files](#) on page 1-14.

Note: The Dolphin terminal should always be removed from the HomeBase when connecting or disconnecting the USB cable.

Mounting the eBase

Set the base on a dry, stable surface, such as a desktop or workbench near an electrical outlet. Be sure to provide enough workspace with good lighting for the user to view and operate the Dolphin terminal while it is in the base. When choosing a mounting location, bear in mind that the location must allow users' easy access to the Auxiliary Battery Well and the back panel of the eBase where the USB port, Ethernet port, and power jack are located.

Optional DIN Rail Mount

A DIN rail (7.5 X 35 mm) may be installed on the bottom of the base to provide the optional security of mounting the base to a flat horizontal surface with hardware.

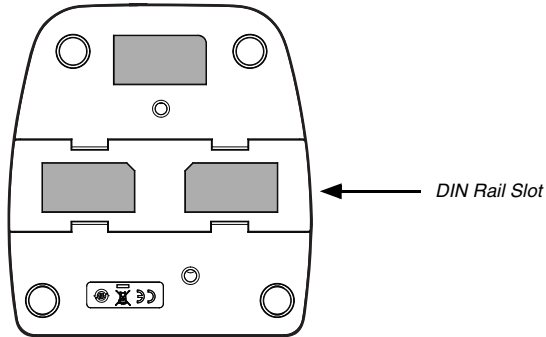
Additional Hardware

- DIN Rail, Qty. 1
- 3/16 in. dia x 5/8 in. long pan head screw, Qty. 2
- 1/2 in. OD x 7/32 in. ID x 3/64 in. thick washer, Qty. 4
- 3/16 in. dia nut, Qty. 2

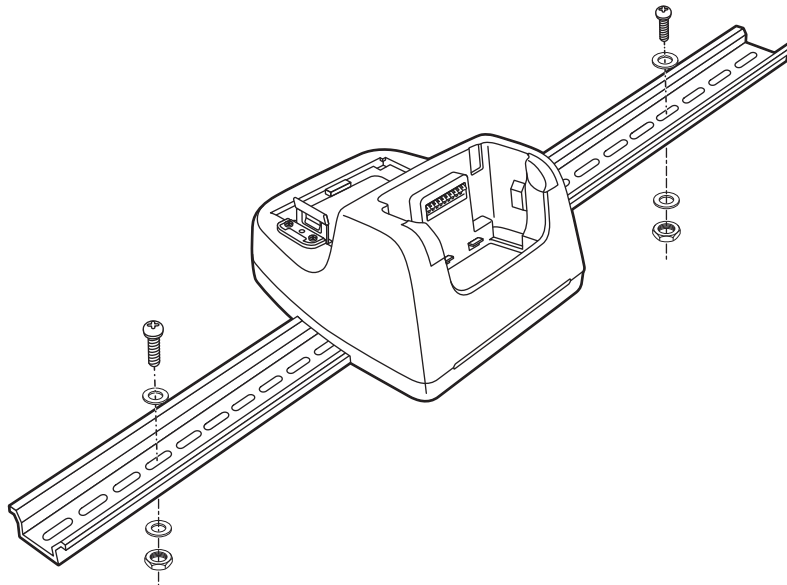
Note: The items listed above are for reference only. Final hardware selection is dependent on the material type and thickness of the mounting surface.

Installing the DIN Rail

1. Slide the DIN rail into the slot along the bottom panel of the base.



2. Use the appropriate hardware to secure the DIN rail to the desk or flat surface.





Dolphin 70e Black Mobile Base (Model 70e-MB)

Overview

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

The 70e-MB charger is designed for use with the following Dolphin models and batteries manufactured for Honeywell International Inc:

Dolphin Model	Battery Model No.	Battery Part No.	Battery Specification
Dolphin 75e Dolphin 70e	70e-BTSC	BAT-STANDARD-02	Li-ion 3.7V, 6.179 watt hour
	70e-BTEC	BAT-EXTENDED-02	Li-ion 3.7V, 12.358 watt hour



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.

Charging Overview

The base provides power to the intelligent battery charging system in all terminals that senses when a full charge has been achieved and switches to a trickle charge to maintain the full charge. The base completes a full charge of the main battery in 4 hours for the standard battery pack or 6 hours for the extended battery pack.

Note: Before attempting to use, charge, or replace the battery in the terminal, you should read the [Guidelines for Battery Pack Use and Disposal](#) on page 2-13.

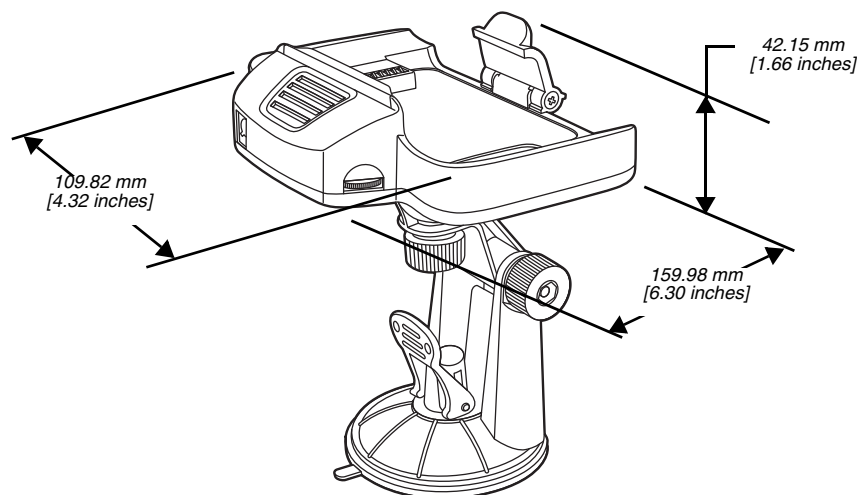


We recommend use of Honeywell Li-Ion battery packs. Use of any non-Honeywell battery may result in damage not covered by the warranty.

Convenient Storage

Intelligent battery charging makes the base a safe and convenient storage receptacle for your Dolphin terminal.

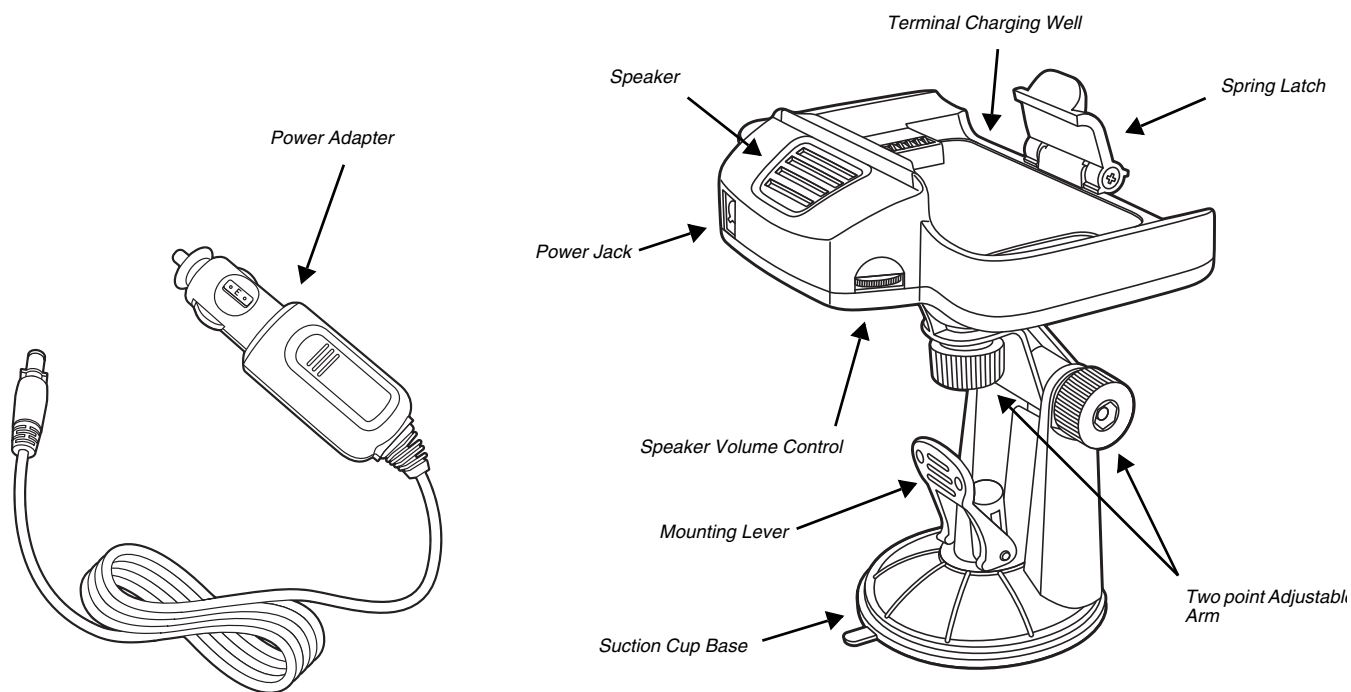
Dimensions



Weight

Mobile Base and adjustable arm weight: 270g [.595 lbs]

Mobile Base Components



Adjustable Arm with Suction Cup Base for Windshield Mounting

The Mobile Base includes a two point adjustable arm with a suction cup base for fixed mount locations (e.g., a car windshield).

Power Adapter

The mobile base is provided with a power adapter cable that can be connected to a vehicle cigarette lighter outlet.

UL listed power supply

Input: 10V - 30VDC, 0.43A(30V) - 1.28A(10V)

Output: 4.75V - 5.25VDC, 0 - 2A



Verify that the power source is always within the specified range and observe correct input voltage polarity. An improper input voltage range or reverse polarity could damage the power conversion circuitry.

Speaker and Volume Control Dial

The integrated speaker amplifies the Dolphin terminal's audio signals and the speaker volume is adjusted using the dial located on the side of the base.

Spring Latch

The spring latch secures the terminal in the Mobile Base charging well.

Terminal Charging Well

Place the terminal in this well to charge the battery.

Mounting the Mobile Base

Safety Precautions

Honeywell is not responsible for any damages caused to you, your vehicle, or other individuals due to the installation of the Dolphin Mobile mount. Follow these safety precautions when mounting the mobile base:



Do not mount the base in a location where it prevents safe operation of the vehicle and/or impedes the vehicle operator's field of view.



Do not mount the base in a location where the connectors on the bottom panel of the base are not easily accessible. Be sure to leave enough room for unrestricted cable connections.



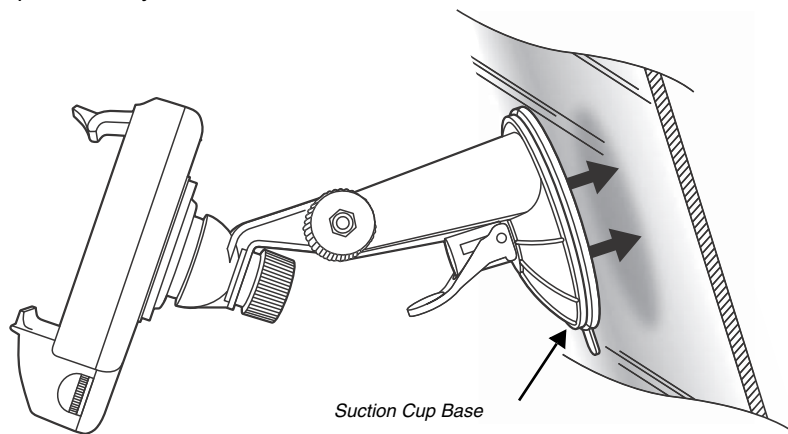
The Mobile base is intended for use in an enclosed space protected from the elements. Do not mount the Mobile base on external vehicle surfaces.



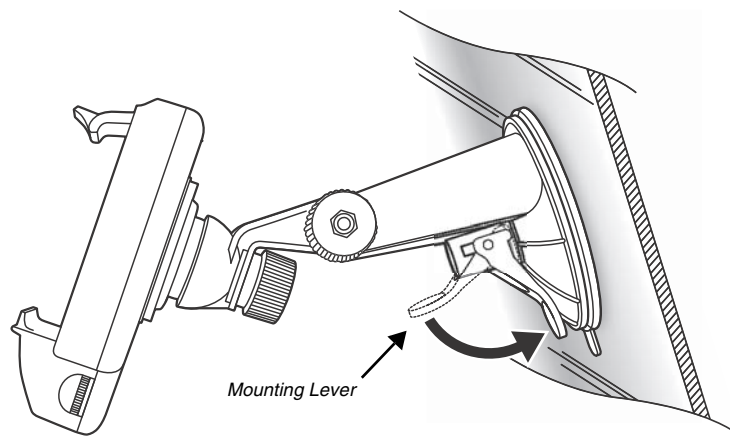
Do not install the Mobile base in an air bag deployment zone. Honeywell assumes no responsibility of liability for injury or death because of car crashes and/or air bag deployment.

Installation

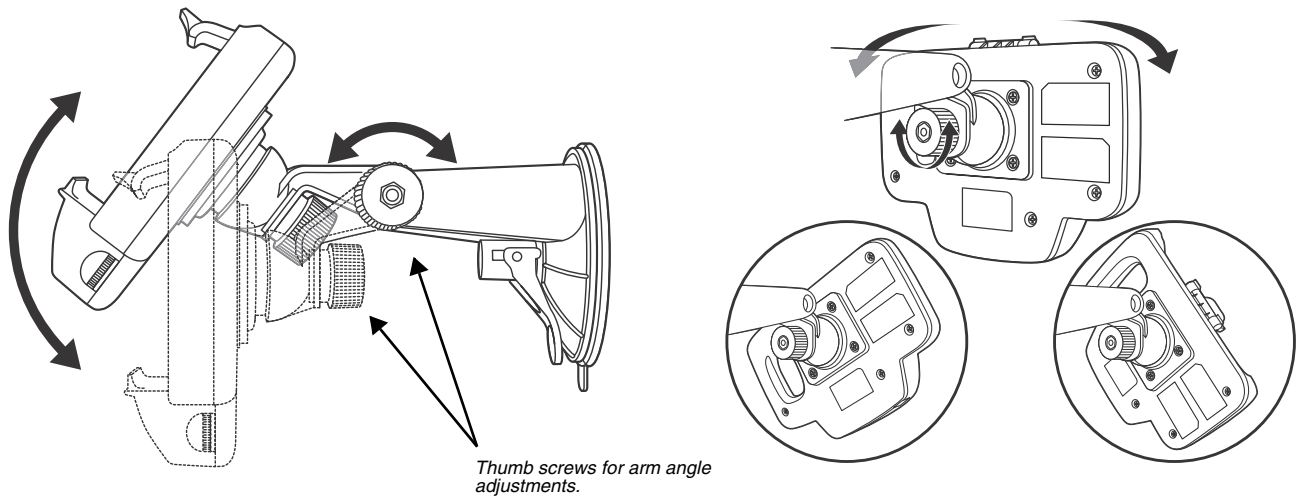
1. Push the suction cup base firmly to the windshield.



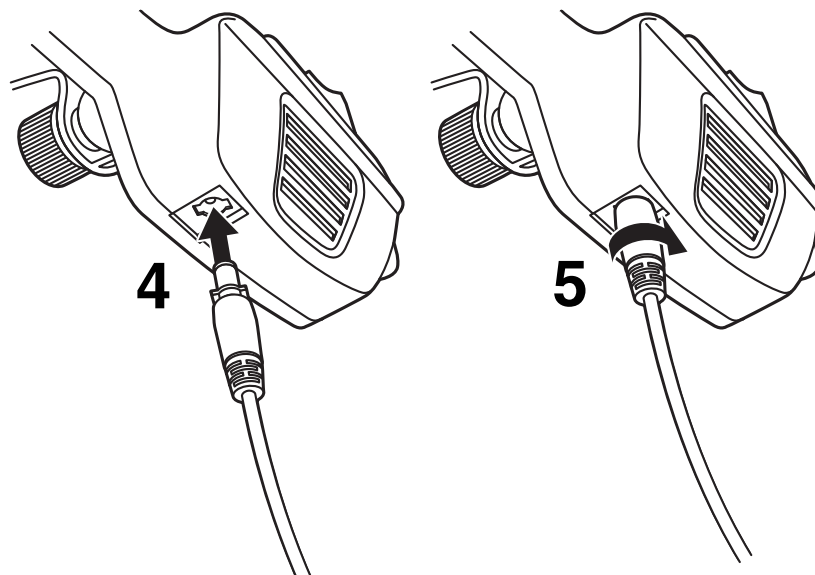
2. Flip the mounting lever down to secure the suction cup.



-
3. To adjust the angle of the bracket arm, twist the thumb screws counterclockwise to loosen the locks. Reposition the angle of the arm, and then twist the knobs clockwise to lock the arm into position.



4. Insert the power cable connector into the power jack on the Mobile Base.
5. Twist the cable connector 90° clockwise to engage the cable lock.



6. Plug the power adapter into the vehicle power outlet (e.g., cigarette lighter outlet)

Charging the Main Battery

The mobile base provides power to the Dolphin and allows charging of the main batteries in the terminal. The main battery charges in 4 hours for the standard battery or 6 hours for the extended battery. The intelligent battery charging system incorporated into all Dolphin terminals prevents overcharging, which means that terminal may be seated in the base indefinitely without damage to the terminal, battery pack, or the base.

For more information about Honeywell battery packs and how to check battery power levels in your terminal, refer to [Battery](#) (page 2-8).

To Power a Terminal and Charge its Main Battery

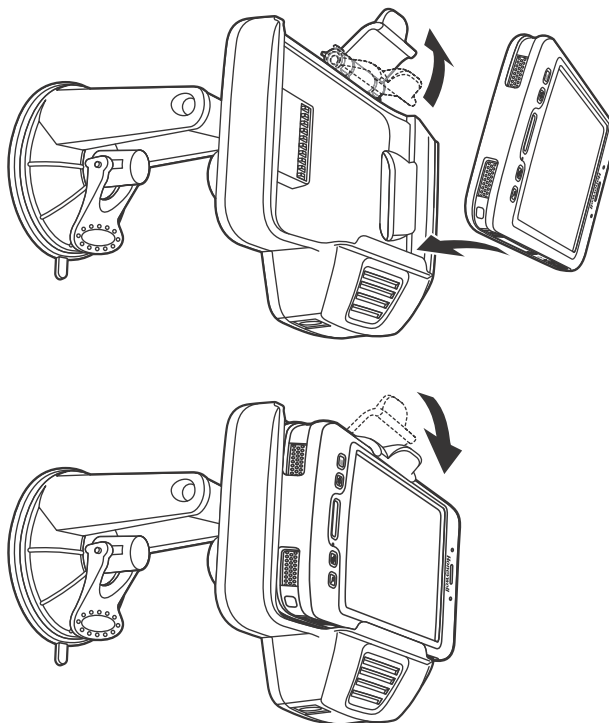


Ensure all components are dry prior to mating terminals/batteries with peripheral devices. Mating wet components may cause damage not covered by the warranty.



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

1. Install the main battery in the terminal; see [Install the Battery](#) on page 1-1.
2. Mount the Mobile base and install the power cable; see [Mounting the Mobile Base](#) on page 10-3.
3. Pull the spring latch back and insert the Dolphin 75e into the terminal well. Charging begins immediately if required by the Dolphin terminal.



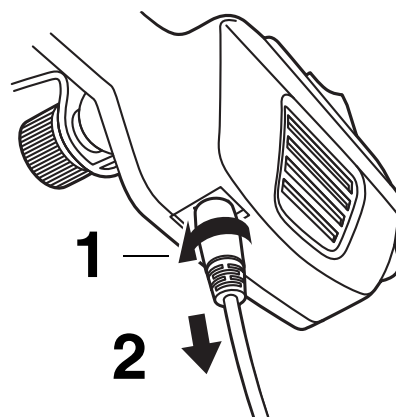
Note: Align the contacts on the back panel of the terminal with the charging contacts on the Mobile Base.

Removing the Cable



Attempting to remove the cable without disengaging the lock may result in damage to the base and power cable not covered by the warranty.

1. Twist the cable 90° counterclockwise to disengage the cable lock.
2. Remove the cable from the power jack.



Dolphin 70e Black ChargeBase (Model 70e-CB)

Overview

The Dolphin 70e Black ChargeBase is a 4-slot charging cradle that can power four Dolphin terminals, and charge their main batteries in 4 hours for the standard battery or 6 hours for the extended battery. The 70e-CB charger is designed for use with the following Dolphin models and batteries manufactured for Honeywell International Inc:

Dolphin Models	Battery Model No.	Battery Part No.	Battery Specification
Dolphin 75e Dolphin 70e	70e-BTSC	BAT-STANDARD-02	Li-ion 3.7V, 6.179 watt hour
	70e-BTEC	BAT-EXTENDED-02	Li-ion 3.7V, 12.358 watt hour



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.

Unpacking the ChargeBase

Open the shipping box and inspect the package to see that the following standard items are included:

- One Dolphin ChargeBase, model 70e-CB
- One power supply (see [Power](#) on page 11-3)
- One power cord

These items are needed to operate the ChargeBase. If any items are missing or anything appears to be damaged, contact your Customer Account Representative. Keep the original packaging in case you need to return the ChargeBase for service or to store the ChargeBase while not in use.

Charging Overview

The base supplies power to the intelligent battery charging system in all Dolphin terminals, which senses when a full charge has been achieved and switches to a trickle charge to maintain the full charge. As battery packs charge, the charging circuitry follows the two-step charging process (CC-CV) that is recommended for the battery type. The process monitors changes in temperature, current, and voltage. The main battery of each terminal charges in 4 hours for the standard battery or 6 hours for the extended battery.

Note: Before attempting to use, charge, or replace the battery in the terminal, you should read the [Guidelines for Battery Pack Use and Disposal](#) on page 2-13.



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

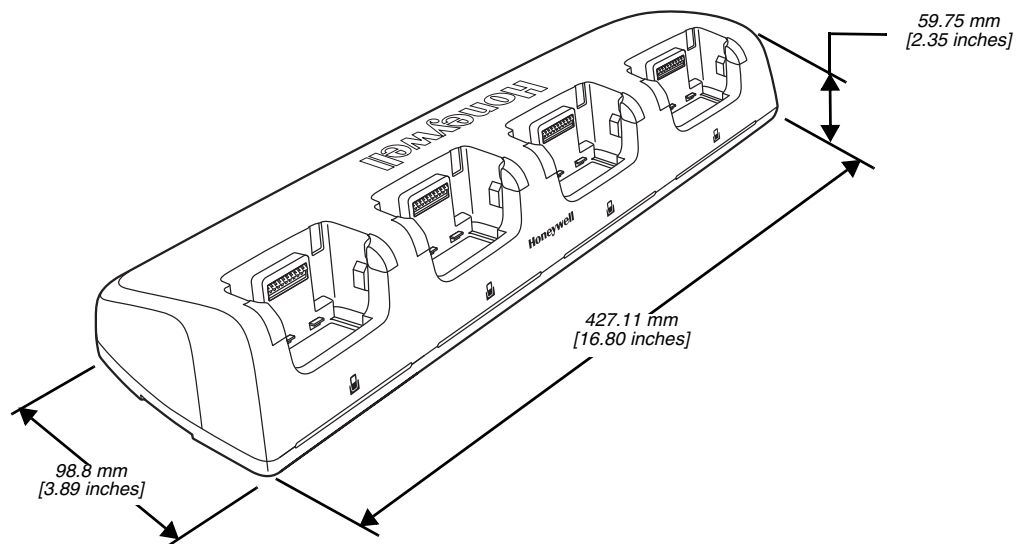
Convenient Storage

The intelligent battery charging system makes this base a safe and convenient storage receptacle for your Dolphin terminal.

Capacity

The base holds up to four Dolphin terminals. Each charging well charges each terminal independently of the other wells.

Dimensions



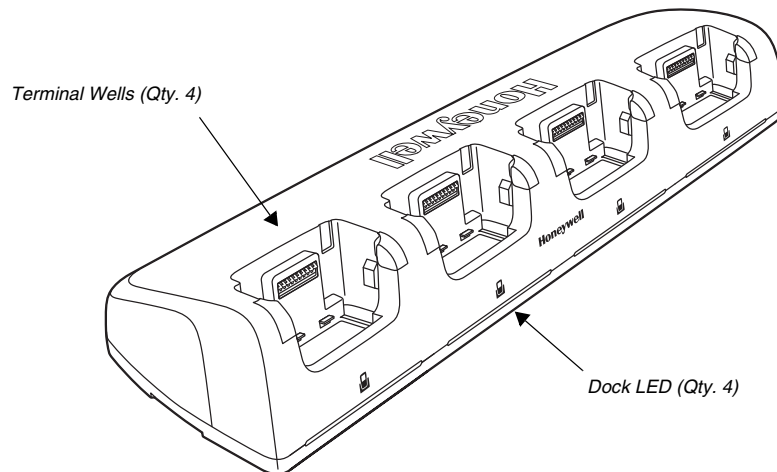
Weight

ChargeBase weight: 674g [1.49 lbs.]

Note: Weight excludes packaging, cables and power supply.

Parts and Functions

Front Panel



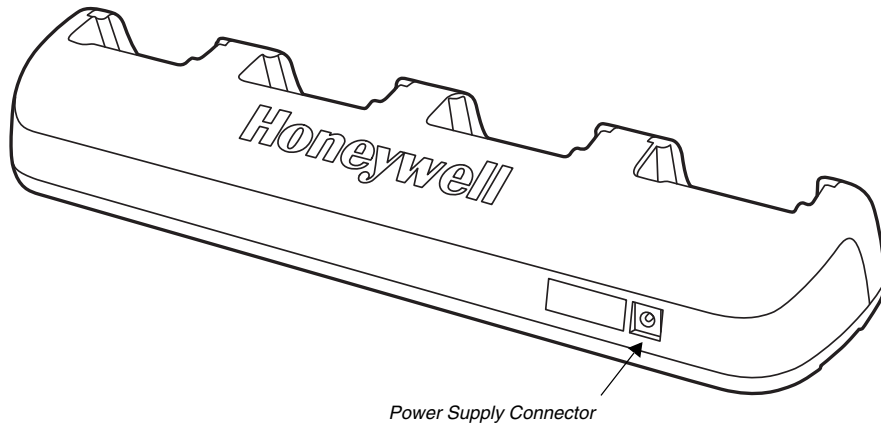
Terminal Wells

The base contains four terminal wells, which offer independent battery charging for each docked terminal.

Dock LEDs

The Dock LED indicates if the terminal is properly seated in the charging well. Each well has a dedicated Dock LED, which illuminates blue when a terminal is properly seated in the charging well.

Back Panel

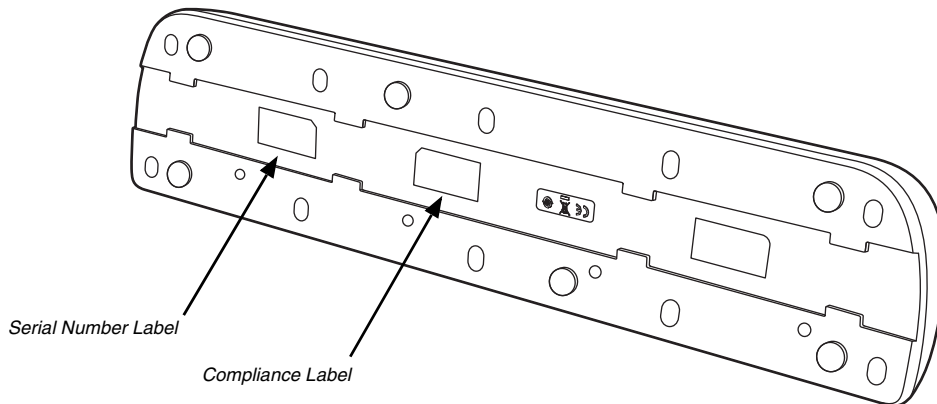


Power Supply Connector

This connector receives input from the power adapter. Plug the power connector cable from the power adapter into this connector.

Bottom Panel

For details on how to mount the base, see [Mounting the ChargeBase](#) on page 11-4.



Power

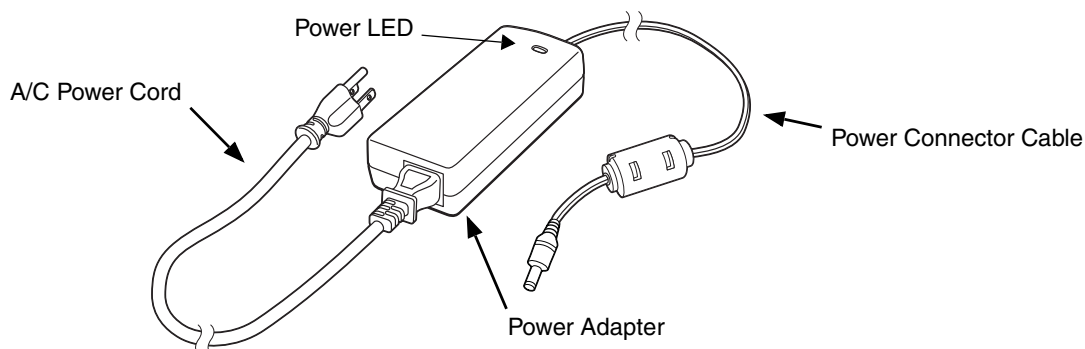
The terminal requires 12 Volts DC input for battery charging and power output to the terminal. The power adapter included with the base, converts the voltage from the AC power source to 12 volts DC. **Use only a UL Listed power supply, which has been qualified by Honeywell with output rated at 12VDC and 5 amps with the device.** The operating temperature range is -10° to 50°C (14° to 122°F).

Honeywell recommends that you leave the ChargeBase connected to its power source at all times, so that it is always ready to use.



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.

Connecting Power to the ChargeBase



1. Plug the A/C power cord into the power adapter.
2. Plug the power cable into the power connector on the back of the ChargeBase.
3. Plug the A/C power cord into a grounded power source.
4. The base is ready to begin charging terminals.

Charging the Main Battery

The base provides power to the Dolphin terminals and allows charging of the batteries in the terminals. The battery of each terminal charges in 4 hours for the standard battery or 6 hours for the extended battery. The intelligent battery charging system incorporated into all Dolphin terminals prevents overcharging, which means that Dolphin terminals may be seated in the base indefinitely without damage to the terminals, batteries, or the base.



For more information about Honeywell battery packs and how to check battery power level in your terminal, refer to [Battery](#) (page 2-8).

To Power a Terminal and Charge its Main Battery



Ensure all components are dry prior to mating terminals/batteries with peripheral devices. Mating wet components may cause damage not covered by the warranty.

1. Install the battery in the terminal, see [Install the Battery](#) on page 1-1.
2. Insert the Dolphin terminal into one of the four terminal wells. The Dock LED for the well illuminates blue. Charging begins immediately if required by the Dolphin terminal.

Note: When the terminal is docked, the Battery Icon changes from  to , indicating the terminal is running on external power. Battery charging occurs in the background. When the Dolphin is removed from the base, the battery icon indicates the charge level of the battery, see [Common Status and Notification Icons](#) on page 1-8.

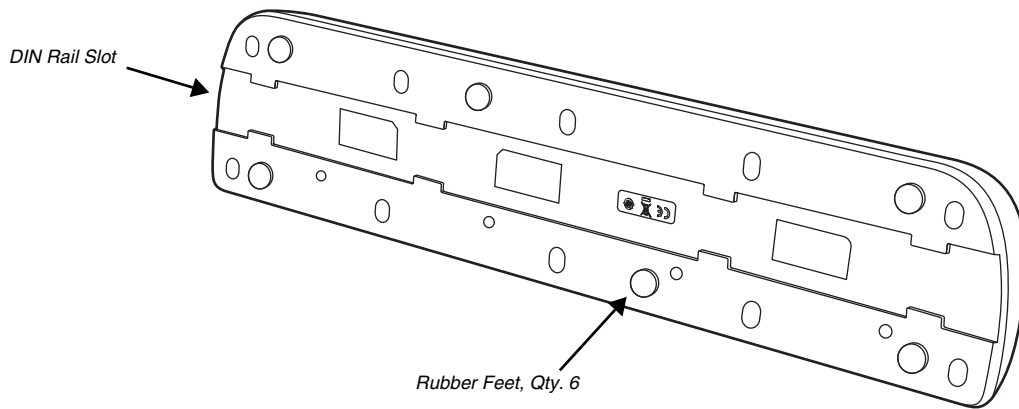


We recommend use of Honeywell Li-ion battery packs. Use of any non-Honeywell battery may result in damage not covered by the warranty.

Mounting the ChargeBase

Set the base on a dry, stable surface, such as a desktop or workbench near an electrical outlet. Be sure to provide enough workspace with good lighting for the user to view and operate the Dolphin terminal while it is in the base. When choosing a location, keep in mind that the mounting location must allow users to see the LEDs and provide easy access to the terminal wells and the power jack.

Bottom Panel



Optional DIN Rail Mount

A DIN rail (7.5 X 35 mm) may be installed on the bottom of the base to provide the optional security of mounting the base to a flat horizontal surface with hardware.

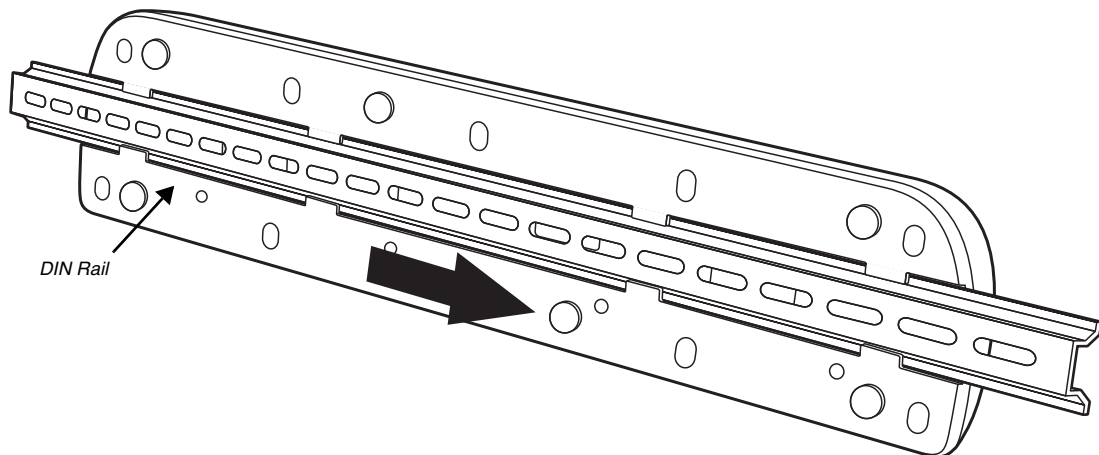
Additional Hardware

- DIN Rail, Qty. 1
- 3/16 in. dia x 5/8 in. long pan head screw, Qty. 2
- 1/2 in. OD x 7/32 in. ID x 3/64 in. thick washer, Qty. 4
- 3/16 in. dia nut, Qty. 2

Note: The items listed above are for reference only. Final hardware selection is dependent on the material type and thickness of the mounting surface.

Installing the DIN Rail

1. Slide the DIN Rail into the DIN Rail slot on the bottom panel of the base.



2. Turn the base and DIN Rail right side up.
3. Use the appropriate hardware to secure the DIN Rail to a stable, flat horizontal surface.



Dolphin 70e Black Net Base (Model 70e-NB)

Overview

The Net Base enables up to four Dolphin 75e handheld 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, Net Base, or another Net Base. The 70e-NB charger is designed for use with the following Dolphin models and batteries manufactured for Honeywell International Inc:

Dolphin Model	Battery Model No.	Battery Part No.	Battery Specification
Dolphin 75e Dolphin 70e	70e-BTSC	BAT-STANDARD-02	Li-ion 3.7V, 6.179 watt hour
	70e-BTEC	BAT-EXTENDED-02	Li-ion 3.7V, 12.358 watt hour



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.

Unpacking the Net Base

Open the shipping box and inspect the package to see that the following standard items are included:

- One Dolphin Net Base Ethernet cradle, model 70e-NB
- One power supply (see [Power](#) on page 12-4)
- One power cord

These items are needed to set up and operate the Net Base. If any items are missing or anything appears to be damaged, contact your Customer Account Representative. Keep the original packaging in case you need to return the Net Base for service or to store the Net Base while not in use.

Optional Equipment

A standard CAT-5 Ethernet network cable is required when using the Net Base for communication between the terminal(s) and a host device over an Ethernet network.

Charging Overview

The base supplies power to the intelligent battery charging system in all Dolphin terminals, which senses when a full charge has been achieved and switches to a trickle charge to maintain the full charge. As battery packs charge, the charging circuitry follows the two-step charging process (CC-CV) that is recommended for the battery type. The process monitors changes in temperature, current, and voltage. The main battery of each terminal charges in 4 hours for the standard battery or 6 hours for the extended battery.

Note: Before attempting to use, charge, or replace the battery in the terminal, you should read the [Guidelines for Battery Pack Use and Disposal](#) on page 2-13.



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

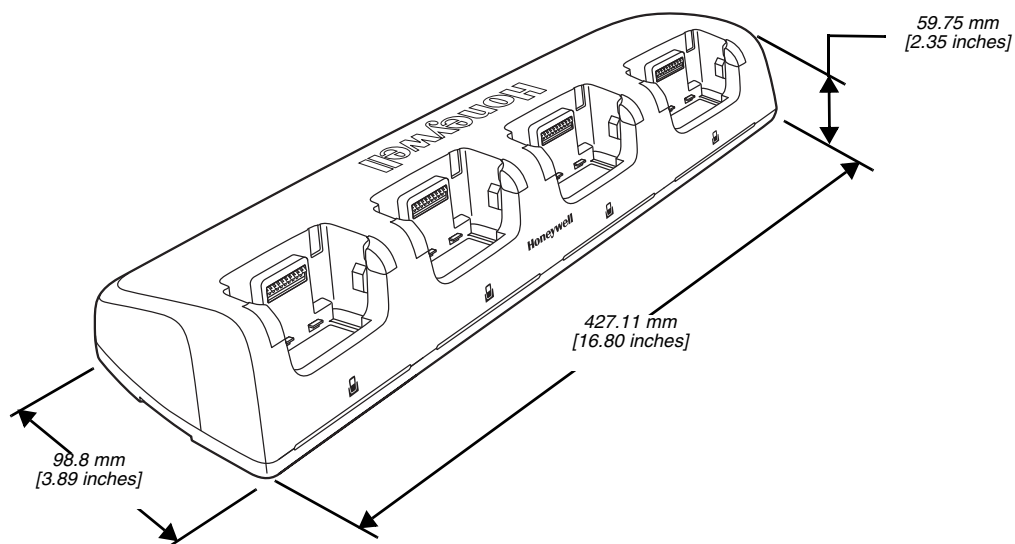
Convenient Storage

The intelligent battery charging system makes this base a safe and convenient storage receptacle for your Dolphin terminal.

Capacity

The base holds up to four Dolphin terminals. Each charging well charges each terminal independently of the other wells.

Dimensions



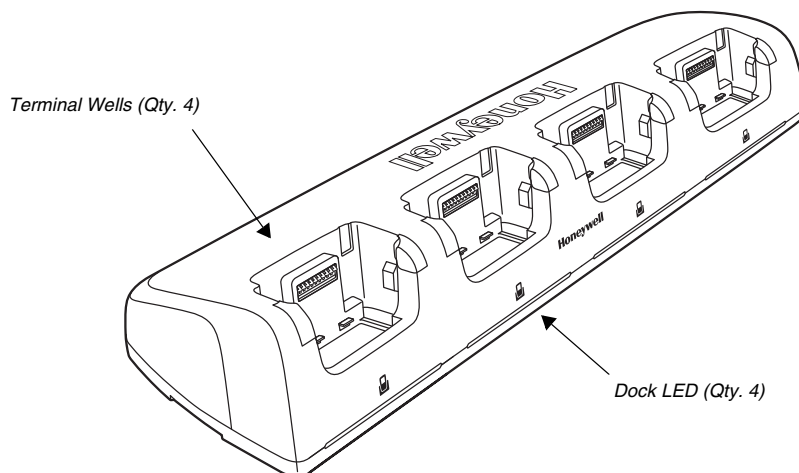
Weight

Net Base weight: 694g [1.53 lbs.]

Note: Weight excludes packaging, cables and power supply.

Parts and Functions

Front Panel



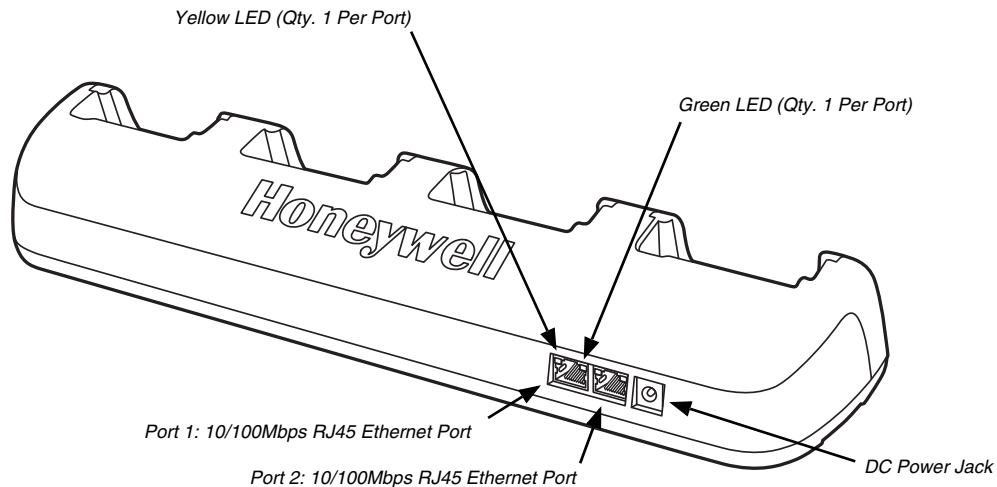
Terminal Wells

The base contains four terminal wells, which offer independent battery charging for each docked terminal.

DOCK LEDs

The Dock LED indicates if the terminal is properly seated in the charging well. Each well has a dedicated Dock LED, which illuminates blue when a terminal is properly seated in the charging well.

Back Panel



RJ45 Ethernet Ports

The Net Base contains two RJ45 Ethernet ports. You can connect the Net Base to an Ethernet-compliant device to facilitate Ethernet communication to and from the terminal by plugging a standard CAT-5 Ethernet cable into one of the two Ethernet ports provided. The second RJ45 Ethernet port can be used for connection to an additional device such as a printer, workstation, eBase, or another Net Base.

Note: The Net Base does not use a Spanning Tree Protocol (STP). When both RJ45 Ethernet ports are used, do not connect both Net Base interfaces to the same layer 2 LAN.

Each RJ45 Ethernet port has a dedicated green and yellow status LED.

Status	Yellow LED	Green LED
No Ethernet Link	Off	Off
10Mbps Ethernet Connection Established	Off	On
100Mbps Ethernet Connection Established	On	On
Data transfer in progress	Connection Speed Dependent (see above)	Flashing

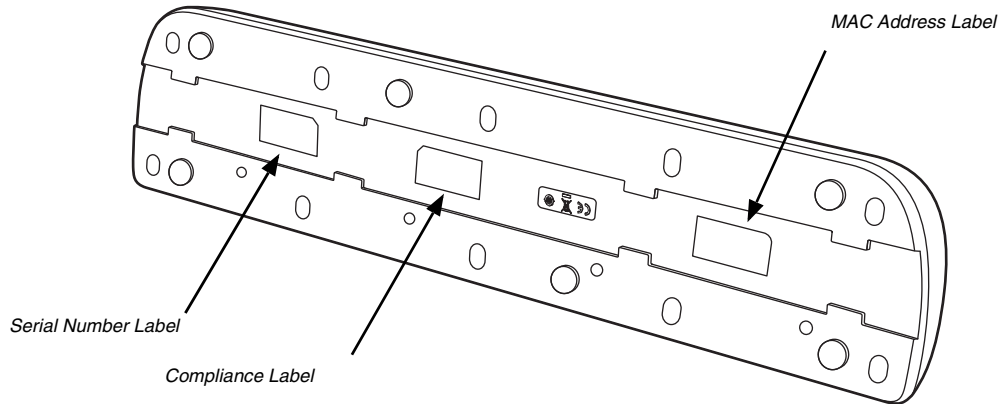
Note: The terminal and Ethernet link must be set up properly to allow the terminal to communicate to other devices and/or the Internet. For more information, see [Establishing Ethernet Communication](#) on page 12-5.

DC Power Jack

This connector receives input from the power adapter. Plug the power connector cable from the power adapter into this connector, see [Power](#).

Bottom Panel

For details on how to mount the base, see [Mounting the Net Base](#) on page 12-5.



Power

The terminal requires 12 Volts DC input for battery charging and power output to the terminal. The power adapter included with the base, converts the voltage from the AC power source to 12 volts DC. **Use only a UL Listed power supply, which has been qualified by Honeywell with output rated at 12VDC and 5 amps with the device.** The operating temperature range is -10° to 50°C (14° to 122°F).

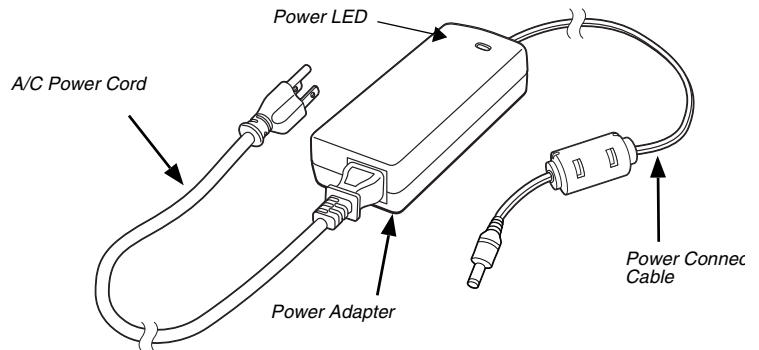
Honeywell recommends that you leave the Net Base connected to its power source at all times, so that it is always ready to use.



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.

Connecting Power to the Net Base

1. Plug the A/C power cord into the power adapter.
2. Plug the power cable into the power connector on the back of the Net Base.
3. Plug the A/C power cord into a grounded power source.
4. The base is ready to begin charging terminals.



Charging the Main Battery

The base provides power to the Dolphin terminals and allows charging of the batteries in the terminals. The battery of each terminal charges in 4 hours for the standard battery or 6 hours for the extended battery. The intelligent battery charging system incorporated into all Dolphin terminals prevents overcharging, which means that Dolphin terminals may be stored in the base indefinitely without damage to the terminals, battery packs, or the base.



For more information about Honeywell battery packs and how to check battery power levels in your terminal, refer to [Battery](#) (page 2-8).

To Power a Terminal and Charge the Main Battery



Ensure all components are dry prior to mating terminals/batteries with peripheral devices. Mating wet components may cause damage not covered by the warranty.

1. Install the battery in the terminal, see page 1-1.
2. Slide the Dolphin terminal into one of the four terminal wells. The Dock LED for the well illuminates blue. Charging begins immediately if required by the Dolphin terminal.

Note: When the terminal is docked, the Battery Icon changes from  to , indicating the terminal is running on external power. Battery charging occurs in the background. When the Dolphin is removed from the base, the battery icon indicates the charge level of the battery, see [Common Status and Notification Icons](#) on page 1-8.



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

Communication

Establishing Ethernet Communication

Connecting the Dolphin Terminal to the Net Base

By default, the Dolphin terminal is configured to obtain IP addresses automatically via DHCP server. This means that in most cases you would simply plug-and-play the unit.

1. Connect power to the Net Base (see [Power](#) on page 12-4).
2. Plug the CAT-5 Ethernet cable into the RJ45 connector on the back of the Net Base.
3. Plug the Ethernet cable into the network.
4. Insert the Dolphin into the terminal well. The Dock LED for the well illuminates blue.

Displaying the Net Base and Terminal IP Address

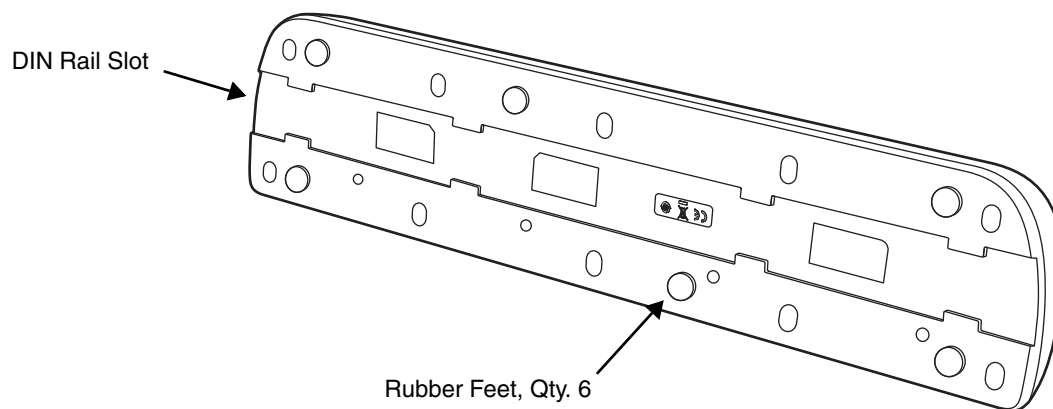
Once the Dolphin terminal has been successfully connected to the network through Net Base, the terminal uses the Net Base IP address. The IP address can be used by any application on the Dolphin terminal.

In the **Apps list**, touch **DiagnosticInfo**  to view the assigned IP Address.

Mounting the Net Base

Set the Net Base on a dry, stable surface, such as a desktop or workbench near an electrical outlet. Be sure to provide enough workspace with good lighting for the user to view and operate the Dolphin terminal while it is in the Net Base. When choosing a location, bear in mind that the mounting location must allow users to see the LEDs and provide easy access to the terminal wells, the Ethernet ports, and the power jack.

Bottom Panel



Optional DIN Rail Mount

A DIN rail (7.5 X 35 mm) may be installed on the bottom of the base to provide the optional security of mounting the base to a flat horizontal surface with hardware.

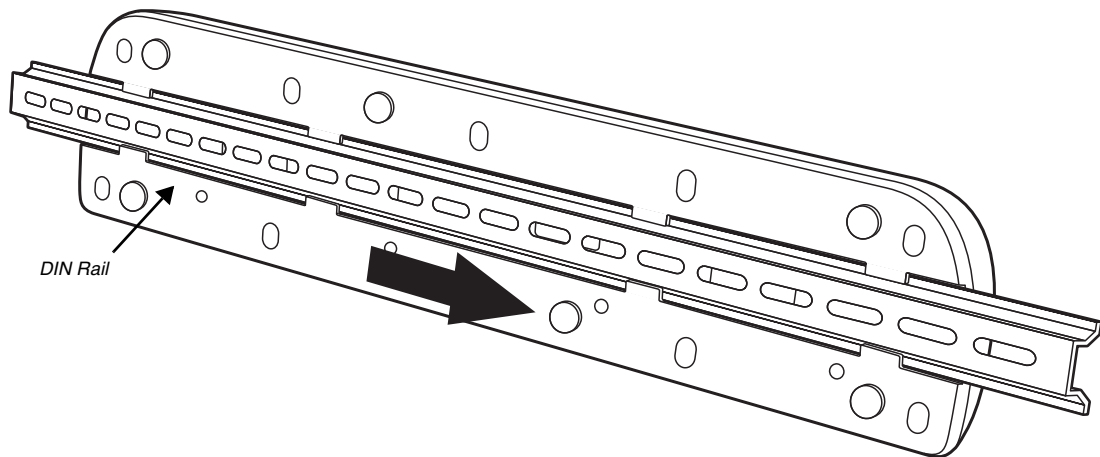
Additional Hardware

- DIN Rail, Qty. 1
- 3/16 in. dia x 5/8 in. long pan head screw, Qty. 2
- 1/2 in. OD x 7/32 in. ID x 3/64 in. thick washer, Qty. 4
- 3/16 in. dia nut, Qty. 2

Note: The items listed above are for reference only. Final hardware selection is dependent on the material type and thickness of the mounting surface.

Installing the DIN Rail

1. Slide the DIN Rail into the DIN Rail slot on the bottom panel of the base.



2. Turn the base and DIN Rail right side up.
3. Use the appropriate hardware to secure the DIN Rail to a stable, flat horizontal surface.

Dolphin 75e Terminal Agency Information

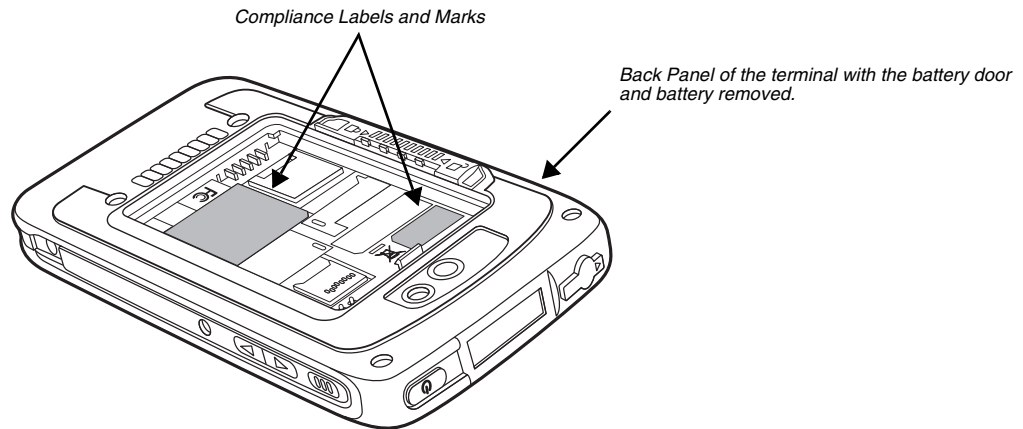
Dolphin 75e handheld computers meet or exceed the requirements of all applicable organizations that set standards for safe operation. The best way to ensure safe operation is to use the handheld computer according to the agency guidelines in this user guide and on the regulatory sheet shipped with the terminal. Read all guidelines before using your Dolphin terminal. To download product documentation for the Dolphin 75e handheld computer, go to www.honeywellaidc.com.

This documentation is relevant for the following Dolphin model: 75eL0N.



Caution: Read the [Guidelines for Battery Pack Use and Disposal](#) on page 3-16 and all cautionary markings on the battery, charging peripheral, or device using the battery before attempting to install, use, or charge the battery. Risk of fire and burns if improperly handled. Do not open, crush, heat above 60°C (140°F), or incinerate.

Label Locations



Model Number and Serial Number

The model (item) number and serial number for the terminal are located on labels affixed to the bottom of the battery well.

RF Exposure Information (SAR)

This handheld computer meets the government's requirements for exposure to radio waves. This handheld computer 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 devices employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/Kg and for Europe 2 W/Kg. Although the SAR is determined at the highest certified power level, the actual SAR level of the handheld computer while operating can be well below the maximum value. This is because the device is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

The highest reported SAR values for head and body-worn accessory are: 0.367 W/kg (1 g) for body and 0.596 W/kg (1 g) for head.

The highest reported CE SAR values for head and body-worn accessory are: 0.170 W/kg (10 g) for body and 0.310 W/kg (10 g) for head.

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

The FCC has granted an Equipment Authorization for this handheld computer with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this handheld computer 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: HD5-75EL0N.



Honeywell Scanning & Mobility

9680 Old Bailes Road

Fort Mill, SC 29707

www.honeywellaidc.com