Dolphin™ 75e

with Windows Embedded 8.1 Handheld

User’s Guide
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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.honeywellaids.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.honeywellaids.com/locations.

Limited Warranty

For warranty information, go to www.honeywellaids.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 ACSHSMTechnicalCommunications@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.
**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](image) to access system and application settings.
- Touch ![Wi-Fi](image) 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 ![Bluetooth](image) to turn the Bluetooth technology on or off.
- Touch ![Airplane Mode](image) to toggle Airplane Mode on or off.
- Touch ![Rotation Lock](image) 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.

**Customizing the Quick Actions**

To customize the action center:

1. From the Action Center, select ![All Settings](image) > 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**

<table>
<thead>
<tr>
<th>Icon</th>
<th>Meaning</th>
<th>Icon</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>🗣️</td>
<td>An app or service is using terminal location information.</td>
<td>🎧</td>
<td>Sound is turned off.</td>
</tr>
<tr>
<td>📬</td>
<td>Unread notification</td>
<td>📣</td>
<td>Vibrate mode is turned on.</td>
</tr>
<tr>
<td>📣</td>
<td>Wi-Fi is turned On, there is an active Wi-Fi network connection and the signal strength is strong.</td>
<td>🌋</td>
<td>Battery charge level</td>
</tr>
<tr>
<td>📣</td>
<td>Wi-Fi is turned On, there is an active Wi-Fi network connection but the signal strength is weak.</td>
<td>⟪Coffee Cup⟫</td>
<td>Battery saver mode is turned on.</td>
</tr>
<tr>
<td>📣</td>
<td>Bluetooth is turned On, the terminal is paired to another device with Bluetooth technology and the connection between terminal and paired device is active.</td>
<td>🌋 ⟪Coffee Cup⟫</td>
<td>Terminal is connected to external power. When the battery is charging the battery charge and external power icons toggle off and on.</td>
</tr>
<tr>
<td>📣</td>
<td></td>
<td>📣</td>
<td>Airplane mode is turned on.</td>
</tr>
</tbody>
</table>

*Note: Status and notification icons are hardware and software dependent. Some of the icons listed below may not be relevant for your Dolphin model.*

**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](http://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.

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.

<table>
<thead>
<tr>
<th>Say . . .</th>
<th>To . . .</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open . . .</td>
<td>Open an app.</td>
</tr>
<tr>
<td></td>
<td>Examples:</td>
</tr>
<tr>
<td></td>
<td>• “Open Email” accesses Outlook and view your emails.</td>
</tr>
<tr>
<td></td>
<td>• “Open Settings” accesses Settings app from the Apps list.</td>
</tr>
<tr>
<td></td>
<td>• “Open People” accesses your Contacts in the People app.</td>
</tr>
<tr>
<td>Note . . .</td>
<td>Open and save a note in OneNote. You can then view and edit the note text.</td>
</tr>
<tr>
<td>or Note to self . .</td>
<td>Examples:</td>
</tr>
<tr>
<td></td>
<td>• “Note to self: find book on building motors”</td>
</tr>
<tr>
<td></td>
<td>• “Note: get milk”</td>
</tr>
</tbody>
</table>
Navigation/Function Buttons

The Dolphin terminal has seven navigation/function buttons.

<table>
<thead>
<tr>
<th>Button</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>←</td>
<td>Back</td>
</tr>
<tr>
<td></td>
<td>Press to return to the previous screen.</td>
</tr>
<tr>
<td></td>
<td>Press and hold to open the App switcher.</td>
</tr>
<tr>
<td>Administrator</td>
<td>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 <a href="https://technet.microsoft.com">https://technet.microsoft.com</a>.</td>
</tr>
<tr>
<td>Developer Defined</td>
<td>Press to trigger the scanner/imager in the Scan Demo app</td>
</tr>
<tr>
<td></td>
<td>The Scan button functions as a system wake-up control if the terminal has entered Sleep mode (Suspend mode).</td>
</tr>
<tr>
<td>△</td>
<td>Search</td>
</tr>
<tr>
<td></td>
<td>If Cortana is turned Off, press to search the terminal and Web using Bing or press and hold to activate Speech for voice commands.</td>
</tr>
<tr>
<td></td>
<td>If Cortana is turned On, press to ask a question or initiate a voice command. To learn more about Cortana, go to <a href="http://www.windowsphone.com">www.windowsphone.com</a>.</td>
</tr>
<tr>
<td></td>
<td>Button function is also Administrator or Developer definable.</td>
</tr>
<tr>
<td></td>
<td>Start</td>
</tr>
<tr>
<td></td>
<td>Press to return to the Start screen.</td>
</tr>
<tr>
<td>Right &amp; Left</td>
<td>Press to trigger the scanner/imager in the Scan Demo app</td>
</tr>
<tr>
<td>Side</td>
<td></td>
</tr>
<tr>
<td>Volume</td>
<td>Press to raise or lower the volume of the active speaker.</td>
</tr>
<tr>
<td></td>
<td>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.</td>
</tr>
</tbody>
</table>

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 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](http://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.

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

**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.

**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**

<table>
<thead>
<tr>
<th>Charging Peripheral/Accessory</th>
<th>Model: 70e-BTSC</th>
<th>Model: 70e-BTEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>HomeBase (Model 70e-HB)</td>
<td>4 hours</td>
<td>6 hours</td>
</tr>
<tr>
<td>eBase (Model 70e-EHB)</td>
<td>4 hours</td>
<td>6 hours</td>
</tr>
<tr>
<td>ChargeBase (Model 70e-CB)</td>
<td>4 hours</td>
<td>6 hours</td>
</tr>
<tr>
<td>Net Base (Model 70e-NB)</td>
<td>4 hours</td>
<td>6 hours</td>
</tr>
<tr>
<td>Mobile Base (Model 70e-MB)</td>
<td>4 hours</td>
<td>6 hours</td>
</tr>
<tr>
<td>Mobile Charger (Model 70e-MC)</td>
<td>4 hours</td>
<td>6 hours</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Terminal is Connected Charger</th>
<th>LED Illumination</th>
<th>Battery Charge Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>Blinking Red</td>
<td>Battery level is below 15%</td>
</tr>
<tr>
<td>No</td>
<td>Off</td>
<td>Battery level is 15% or more</td>
</tr>
<tr>
<td>Yes</td>
<td>Steady Amber</td>
<td>Battery level is between 0% and 60%</td>
</tr>
<tr>
<td>Yes</td>
<td>Blinking Green</td>
<td>Battery level is between 61% and 95%</td>
</tr>
<tr>
<td>Yes</td>
<td>Steady Green</td>
<td>Battery level is above 95%</td>
</tr>
<tr>
<td>Either</td>
<td>Blinking Red</td>
<td>Battery error</td>
</tr>
</tbody>
</table>

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 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

Battery Saver

Battery life remaining:
93%

Estimated time remaining:
1 day 12 hours

Time since last charge:
3 minutes

When Battery Saver is on, all nonessential features and background tasks are turned off and push notifications are sent less often.

Conserve battery life

Off

When battery is under 20%

Always (limits functionality)

Usage

Battery Saver

usage

show apps with usage

show usage from last 48 hours

In use

Background

OneNote <1%

Battery Saver <1%

Office <1%

Cortana <1%

tools always allowed

Settings <1%

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 enabled, 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

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

<table>
<thead>
<tr>
<th>Symbology Type</th>
<th>Symbology Name</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1D Symbologies</strong></td>
<td>Codabar</td>
</tr>
<tr>
<td></td>
<td>Code 3 of 9</td>
</tr>
<tr>
<td></td>
<td>Code 11</td>
</tr>
<tr>
<td></td>
<td>Code 32 Pharmaceutical (PARAF)</td>
</tr>
<tr>
<td></td>
<td>Code 93</td>
</tr>
<tr>
<td></td>
<td>Code 128</td>
</tr>
<tr>
<td></td>
<td>EAN with Add-On</td>
</tr>
<tr>
<td></td>
<td>EAN with Extended Coupon Code</td>
</tr>
<tr>
<td></td>
<td>EAN-8</td>
</tr>
<tr>
<td></td>
<td>EAN-13</td>
</tr>
<tr>
<td></td>
<td>GS1-128</td>
</tr>
<tr>
<td></td>
<td>GS1 Databar</td>
</tr>
<tr>
<td><strong>2D Symbologies</strong></td>
<td>Aztec</td>
</tr>
<tr>
<td></td>
<td>Codablock A</td>
</tr>
<tr>
<td></td>
<td>Codablock F</td>
</tr>
<tr>
<td></td>
<td>Data Matrix</td>
</tr>
<tr>
<td><strong>Composite Codes</strong></td>
<td>UPC/EAN</td>
</tr>
<tr>
<td></td>
<td>UCC/EAN</td>
</tr>
<tr>
<td></td>
<td>GS1 Databar</td>
</tr>
<tr>
<td><strong>OCR</strong></td>
<td>MICR E 13-B</td>
</tr>
<tr>
<td></td>
<td>OCR-A</td>
</tr>
<tr>
<td></td>
<td>OCR-B</td>
</tr>
<tr>
<td><strong>Postal Codes</strong></td>
<td>Postnet and most international 4-state codes</td>
</tr>
<tr>
<td></td>
<td>Australian Post</td>
</tr>
<tr>
<td></td>
<td>British Post</td>
</tr>
<tr>
<td></td>
<td>Canadian Post</td>
</tr>
<tr>
<td></td>
<td>China Post</td>
</tr>
</tbody>
</table>

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.

   ![Scan Settings](image)

   **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**

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
<th>Default Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vibrate</td>
<td>When On , the terminal vibrates to indicate a good read.</td>
<td>Off</td>
</tr>
<tr>
<td>Sound</td>
<td>When On , the terminal beeps to indicate a good read.</td>
<td>On</td>
</tr>
<tr>
<td>Scan Mode</td>
<td>Three scan mode options are available:</td>
<td>Normal</td>
</tr>
<tr>
<td></td>
<td>• <strong>Normal</strong> (see Using the Scan Demo to Decode a Bar Code on page 3-2)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• <strong>Automatic</strong> (see Automatic Scanning on page 3-3)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• <strong>Continuous</strong> (see Continuous Scanning)</td>
<td></td>
</tr>
<tr>
<td>Automatic Interval</td>
<td>Sets the number of seconds between scan attempts. An slider adjustment allows you to choose between 0 and 30 seconds.</td>
<td>5 seconds</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Profile</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HON:Reset</td>
<td>Resets all symbology settings to disabled.</td>
</tr>
<tr>
<td>HON:EnablePreviewOnDecode</td>
<td>Profile not supported in Scan Demo.</td>
</tr>
<tr>
<td>HON:EnablePreviewOnDecodeAttempt</td>
<td>Profile not supported in Scan Demo.</td>
</tr>
<tr>
<td>HON:DisablePreview</td>
<td>Disables sending images to the application. This is the default profile. Only decode results are shown on the screen.</td>
</tr>
</tbody>
</table>
### 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.

![Linear Bar Code Example](image)

#### 2D Matrix Symbol

![2D Matrix Symbol Example](image)
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 customize 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.

### Notifications + Actions

Choose your quick actions

- [ ] Show notifications in action center when my phone is locked

Turn notifications on or off for apps and settings, and choose whether to see banners at the top of the screen.

### Notification Settings

#### Outlook

- **Show in action center**
  - [ ] On

- **Show notification banners**
  - [ ] On

- **Notification sound**
  - [ ] none

- **Vibrate**
  - [ ] On

When the Vibrate check box is selected, your phone will vibrate if your ringtones + sounds settings allow it.

- **LED Notification**
  - [ ] On

To learn more about how to customize the Action Center, see page 1-7.

---

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 [ ].
   - To turn off sound, select [ ] none.

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 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


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 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 OK. 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.

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 shows in bottom row. Touch the key to switch the between the keyboard languages.

![Keyboard Layout]

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 videos 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.
Communication

Wireless & Network Settings

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

Connecting the Terminal to a Wireless Network

You connect the terminal to a wireless network through the onboard 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.

7. 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.

8. 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.

9. 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.

10. In the **Profile name** box, add the VPN profile name you want your settings saved under.

11. 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.

1. In the **Apps list**, touch **Settings** ☰ > **VPN**.

2. Verify the VPN Status is On ☑️.

3. 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 and 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.

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.
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.*
**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:

<table>
<thead>
<tr>
<th>Dolphin Models</th>
<th>Battery Model No.</th>
<th>Battery Part No.</th>
<th>Battery Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dolphin 75e</td>
<td>70e-BTSC</td>
<td>BAT-STANDARD-02</td>
<td>Li-ion 3.7V, 6.179 watt hour</td>
</tr>
<tr>
<td>Dolphin 70e</td>
<td>70e-BTEC</td>
<td>BAT-EXTENDED-02</td>
<td>Li-ion 3.7V, 12.358 watt hour</td>
</tr>
</tbody>
</table>

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**

![Diagram of HomeBase dimensions]

- **Height:** 65.6 mm [2.58 inches]
- **Width:** 129.3 mm [5.09 inches]
- **Depth:** 116.3 mm [4.58 inches]

**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.
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:

<table>
<thead>
<tr>
<th>Dolphin Models</th>
<th>Battery Model No.</th>
<th>Battery Part No.</th>
<th>Battery Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dolphin 75e</td>
<td>70e-BTSC</td>
<td>BAT-STANDARD-02</td>
<td>Li-ion 3.7V, 6.179 watt hour</td>
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<td>Dolphin 70e</td>
<td>70e-BTEC</td>
<td>BAT-EXTENDED-02</td>
<td>Li-ion 3.7V, 12.358 watt hour</td>
</tr>
</tbody>
</table>

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

![Diagram of dimensions]

Weight

eBase weight: 310g [.683 lbs]

Note: Weight excludes packaging, cables and power supply.

Parts and Functions

Front Panel

![Diagram of 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**

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.

<table>
<thead>
<tr>
<th>Status</th>
<th>Yellow LED</th>
<th>Green LED</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Ethernet Link</td>
<td>Off</td>
<td>Off</td>
</tr>
<tr>
<td>10Mbps Ethernet Connection Established</td>
<td>Off</td>
<td>On</td>
</tr>
<tr>
<td>100Mbps Ethernet Connection Established</td>
<td>On</td>
<td>On</td>
</tr>
<tr>
<td>Data transfer in progress</td>
<td>Connection Speed Dependent</td>
<td>Flashing</td>
</tr>
</tbody>
</table>

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.

**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

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.
**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:

<table>
<thead>
<tr>
<th>Dolphin Model</th>
<th>Battery Model No.</th>
<th>Battery Part No.</th>
<th>Battery Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dolphin 75e</td>
<td>70e-BTSC</td>
<td>BAT-STANDARD-02</td>
<td>Li-ion 3.7V, 6.179 watt hour</td>
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<td>70e-BTEC</td>
<td>BAT-EXTENDED-02</td>
<td>Li-ion 3.7V, 12.358 watt hour</td>
</tr>
</tbody>
</table>

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 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**

- 109.82 mm [4.32 inches]
- 159.98 mm [6.30 inches]
- 42.15 mm [1.66 inches]

**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.
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:

<table>
<thead>
<tr>
<th>Dolphin Models</th>
<th>Battery Model No.</th>
<th>Battery Part No.</th>
<th>Battery Specification</th>
</tr>
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<tbody>
<tr>
<td>Dolphin 75e</td>
<td>70e-BTSC</td>
<td>BAT-STANDARD-02</td>
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<td>70e-BTEC</td>
<td>BAT-EXTENDED-02</td>
<td>Li-ion 3.7V, 12.358 watt hour</td>
</tr>
</tbody>
</table>

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

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 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:

<table>
<thead>
<tr>
<th>Dolphin Model</th>
<th>Battery Model No.</th>
<th>Battery Part No.</th>
<th>Battery Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dolphin 75e</td>
<td>70e-BTSC</td>
<td>BAT-STANDARD-02</td>
<td>Li-ion 3.7V, 6.179 watt hour</td>
</tr>
<tr>
<td>Dolphin 70e</td>
<td>70e-BTEC</td>
<td>BAT-EXTENDED-02</td>
<td>Li-ion 3.7V, 12.358 watt hour</td>
</tr>
</tbody>
</table>

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**

![Back Panel Diagram]

**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.

<table>
<thead>
<tr>
<th>Status</th>
<th>Yellow LED</th>
<th>Green LED</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Ethernet Link</td>
<td>Off</td>
<td>Off</td>
</tr>
<tr>
<td>10Mbps Ethernet Connection Established</td>
<td>Off</td>
<td>On</td>
</tr>
<tr>
<td>100Mbps Ethernet Connection Established</td>
<td>On</td>
<td>On</td>
</tr>
<tr>
<td>Data transfer in progress</td>
<td>Connection Speed Dependent (see above)</td>
<td>Flashing</td>
</tr>
</tbody>
</table>

*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 \[ \text{to} \] 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 RJ 45 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

Compliance Labels and Marks

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.