Dolphin™ CT40
Mobile Computer
powered by Android™ 7
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Customer Support

Technical Assistance

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

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

Product Service and Repair

Honeywell International Inc. provides service for all of its products through service centers throughout the world. To find your service center, go to www.honeywellaidc.com and select Support. Contact 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. To learn more, go to www.honeywellaidc.com and select Service & Repair at the bottom of the page.

For ongoing and future product quality improvement initiatives, the mobile computer 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.

Limited Warranty

For warranty information, go to www.honeywellaidc.com and click Get Resources > Product Warranty.
This chapter introduces the Dolphin CT40 Mobile Computer with the Android 7 operating system. Use this chapter to learn about the basic computer features, functions, and accessories.

About the Dolphin CT40 Mobile Computer

Dolphin CT40 mobile computers, built on the Mobility Edge™ platform, deliver real-time connectivity, advanced data capture, and future-proof investment protection. All CT40 models come equipped for fast Wi-Fi connectivity with a WLAN 802.11 a/b/g/n/ac radio and Bluetooth (v5.0) technology that includes Bluetooth Low Energy (BLE) support. CT40-L1N models provide additional connectivity with a wireless WWAN radio for high speed data and quality voice support across all network technologies. CT40 WWAN models also include an integrated global positioning satellite (GPS) receiver that supports GPS protocols including, Simultaneous GNSS Receiver Support for GPS, GLONASS, Galileo and Beidou GPS.

Note: Throughout this manual, all versions of the mobile computer are referred to as the CT40 unless information is specific to a particular model.

Model Overview

<table>
<thead>
<tr>
<th>Standard Feature</th>
<th>Model CT40-L0N</th>
<th>Model CT40-L1N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Android 7 operating system, upgradeable through Android Q</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>2.2 GHz Qualcomm Snapdragon™ 660 octa-core processor</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>2 GB/4 GB DDR4 RAM, 32 GB flash memory</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Choice of Honeywell N6603 or N3601 high performance 2D imager with ergonomic Scan buttons</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>WLAN IEEE 802.11 a/b/g/n/ac radio; Wi-Fi certified</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Bluetooth™ V5.0 and Bluetooth Low Energy (BLE) technology support</td>
<td>x</td>
<td>x</td>
</tr>
</tbody>
</table>
### Features of the CT40

**Standard Feature**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Model CT40-L0N</th>
<th>Model CT40-L1N</th>
</tr>
</thead>
<tbody>
<tr>
<td>NFC technology for short-range wireless data exchange</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Wireless WWAN radio for high speed data and quality voice support across all network technologies</td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>Integrated GPS receiver; GPS Supported Protocols: Simultaneous GNSS Receiver Support for GPS, GLONASS, Galileo and Beidou</td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>Mid-tier rugged specifications with IP64 sealing</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Customer-accessible microSD™ slot for removable memory cards up to 512 GB (SDXC/SDHC/SDIO-compliant)</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Value-added software components supporting specialized imaging and OCR functions</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>13-megapixel color camera, 4K video with image stabilization and advanced software features for enhanced exposure control</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Large, high definition, bright color, outdoor-readable display with responsive multi-touch capacitive touch panel*</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Integrated ambient light sensor, proximity sensor, and accelerometer</td>
<td>x</td>
<td>x</td>
</tr>
</tbody>
</table>

* Use of a screen protector may have small effect on the capacitive touch panel performance.

**Note:** To learn more, see Appendix A: Specifications beginning on page 77.
Note: Hand strap not shown.

* Phone feature is available only on CT40-L1N models. On CT40-L0N and CT40-L1N models, the SIM slot supports use of an UICC card for NFC Secure Element NFC link encryption.
About the Battery

The computer uses a rechargeable Li-ion battery as its main power source. Several factors determine the life of the battery, such as display brightness, display timeout, input device, extreme temperature, and battery usage. Honeywell recommends that you keep the battery charged at all times to prevent data loss.

Dolphin CT40 computers are designed for use with battery model CT50-BTSC manufactured for Honeywell International Inc. For a list of compatible accessories for the CT40 mobile computer series and their part numbers, see the Dolph,,in CT40 Accessory Guide, available for download from the CT40 product page at www.honeywellaidc.com.

Contact your local sales representative for replacement battery ordering information.

Caution: Read Battery Recommendations and Safety Precautions on page 9 and all cautionary markings on the battery, charging peripheral, and device using the battery before attempting to install, use, or charge the battery.

Charge the Battery Before Use

Dolphin CT40 computers ship with the battery significantly discharged of power. Fully charge the battery before using your computer for the first time.

You can charge the battery with a Dolphin CT40 series charging accessory before or after you install the battery in the computer. A fully discharged battery charges in approximately 6 hours.

To charge the battery before you install it in the computer:

- Insert the battery into the CT40 Quad Battery Charger or the battery well of a CT40 Standard Home Base or Ethernet Home Base connected to a power source.

To charge the battery after installing it in the computer:

- Insert the computer into a CT40 Standard Home Base, Ethernet Home Base, Charge Base, Net Base, or Snap-On USB Adapter connected to a power source.

Note: Using the computer while charging the battery increases the time required to reach a full charge.
Replace the Battery

If your battery power is low, you need to either charge the battery in the computer, or replace it with a charged battery.

To replace the battery:

1. Save your files and close any open applications.
2. Press and hold the **Power** button until the options menu appears.
3. Tap **Power Off** and then **OK** to verify.
4. Disconnect one end of the hand strap from the computer.
5. Press and hold down the small button on the battery latch, and then slide the latch toward the side of the computer to unlock the battery.
6. Lift up on the edge of the battery and remove it from the computer.
7. Insert the charged battery into the computer.

8. Apply pressure to the battery and slide the lock toward the side of the computer and into the locked position.

9. Attach the hand strap.

10. Press and hold **Power** button for approximately 3 seconds, and then release the button.

### About the Battery Status

Use the battery icon in the Status bar at the top of the screen to see the charge level of your battery. If you want more detailed information on your battery, such as usage time, charge remaining on the battery, or battery health information, open **Settings** app 📋 and tap either **Battery** or **Battery Monitor**.

**Battery Status Icons**

<table>
<thead>
<tr>
<th>Icon</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Battery Icon]</td>
<td>The battery charge is at 100%.</td>
</tr>
<tr>
<td>![Battery Icon]</td>
<td>The battery charge is at 50%.</td>
</tr>
<tr>
<td>![Battery Icon]</td>
<td>The battery charge is low. You need to charge or replace the battery soon.</td>
</tr>
<tr>
<td>![Battery Icon]</td>
<td>The battery is critically low. You need to replace the battery now or connect the computer to a charging accessory.</td>
</tr>
<tr>
<td>![Battery Icon]</td>
<td>The computer is connected to external power and the battery is charging.</td>
</tr>
</tbody>
</table>
The Battery status LED color and behavior (e.g., steady on, blinking, off) indicates the charging status of the battery. To view status descriptions and to learn how to modify the Battery LED behavior, see About the Battery Status LED Setting on page 7.

About the Battery Status LED Setting

You can change the behavior of the Battery status LED if the out-of-box behavior for a charging battery (blinking green) is not acceptable to your environment.

You can choose one of three options:

- **Default Battery LED** (optional Android OS configuration)
- **Honeywell Battery LED** (factory default, out-of-box configuration)
- **No Battery LED**

**Honeywell Battery LED Behavior (Factory Default/Out-of-Box Configuration)**

<table>
<thead>
<tr>
<th>Connected to Power</th>
<th>LED State</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>Blinking amber</td>
<td>Battery level is below 15%</td>
</tr>
<tr>
<td>No</td>
<td>Off</td>
<td>Battery level is more than 15%</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 60% 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>

**Default Battery LED Behavior (Optional Android OS Configuration)**

<table>
<thead>
<tr>
<th>Connected to Power</th>
<th>LED State</th>
<th>Description</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 red</td>
<td>Battery level is below 15%</td>
</tr>
<tr>
<td>Yes</td>
<td>Steady amber</td>
<td>Battery level is between 15% and 90%</td>
</tr>
<tr>
<td>Yes</td>
<td>Steady green</td>
<td>Battery level is 90% or more</td>
</tr>
</tbody>
</table>

Select the No battery LED setting if you want to use the LED as a notification LED for applications or device management solutions. For more information on how to use the LED as a notification LED, see [http://developer.android.com/guide/topics/ui/notifiers/notifications.html](http://developer.android.com/guide/topics/ui/notifiers/notifications.html).
Change the Battery Status LED Behavior

To change the battery status LED behavior:

1. Swipe up from the bottom of the Home screen to access all apps.

2. Tap Settings > Battery LED.

3. Choose one of the options:
   - Default Battery LED (optional Android OS configuration)
   - Honeywell Battery LED (factory default/out-of-box configuration)
   - No Battery LED

Check the Battery Level and Usage

In addition to the Battery status icon and LED, you can monitor the battery status from the Settings app.

1. Swipe up from the bottom of the Home screen to access all apps.

2. Tap Settings > Battery.

   The current percentage of battery power remaining and the amount of usage time left on the battery appear on the screen. A list shows the battery usage for individual apps and services. For usage details, select one of the apps or services in the list. You can also access the Battery saver feature from the battery screen.

About Battery Life and Conservation

If you store the battery outside of the computer for long periods of time, the battery slowly discharges. To maintain battery performance, storing the battery in a charger is recommended. Use the reference table below to learn about how to conserve battery power.

<table>
<thead>
<tr>
<th>When You Want to:</th>
<th>Do this to Save Battery Power:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use the computer and the low battery status icon appears or the battery light turns on.</td>
<td>Do one of the following:</td>
</tr>
<tr>
<td>Stop using the computer for 5 minutes or more.</td>
<td>Make sure that the low battery status icon is not on the screen and that the battery status LED is not on. Press and release the Power button to suspend the computer.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>When You Want to:</th>
<th>Do this to Save Battery Power:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use the computer and the low battery status icon appears or the battery light turns on.</td>
<td>Do one of the following:</td>
</tr>
<tr>
<td>Stop using the computer for 5 minutes or more.</td>
<td>Make sure that the low battery status icon is not on the screen and that the battery status LED is not on. Press and release the Power button to suspend the computer.</td>
</tr>
</tbody>
</table>
Battery Recommendations and Safety Precautions

Caution: Improper battery replacement or incompatible device usage may result in risk of burns, fire, explosion, or other hazard. Dispose of lithium-ion batteries according to local regulations. Risk of fire and burns if improperly handled. Do not open, crush, heat above 60°C (140°F), or incinerate.

- For maximum battery life, charge the battery at 20 °C (68 °F) to 25 °C (77 °F) and store at 20 °C (68°F) with a 50% charge.
- Do not store the battery at temperatures above 60 °C (140 °F). Storage above 60 °C (140 °F) may damage the battery.
- Charge the battery before use. Battery ships with only a partial charge.
- See Charge the Battery Before Use on page 4 for approved charging methods. Use of this battery in other devices could result in damage to the device or battery.
- Avoid dropping the battery or computer. If you suspect that the battery or computer is damaged, send it to Honeywell service center for inspection.
- Replace the battery only with another CT50-BTSC model battery. This battery has been tested in accordance with applicable safety standards. Contact your Honeywell sales representative or distributor if this battery is no longer available.
- Discarded batteries may create a safety hazard. Before disposal, cover the battery contacts with electrical insulating tape.
- Do not modify the battery or attempt to insert foreign objects into it.
- Do not solder directly to the battery contacts.
- Do not drop the battery or apply mechanical shocks or pressure to it.
- Do not disassemble or open, crush, bend or deform, puncture, shred or burn the battery.
- Do not immerse the battery in water or get the battery wet.
Enable Airplane Mode

If you do not need to connect to any wireless networks, you can enable Airplane mode to turn off the radios and save battery power.

1. Swipe up from the bottom of the Home screen to access all apps.

2. Tap **Settings**.

3. In the Wireless & Networks section, choose **More**.

4. Tap the toggle button next to **Airplane mode**. An airplane icon appears in the status bar to indicate Airplane mode is turned on.

Power On the Computer

After you have fully charged and installed a battery, power on the computer for the first time:

- Press and hold the **Power** button for approximately 3 seconds, and then release the button.

Welcome Screen

The first time you power on the computer, a Welcome screen appears. You can either scan a configuration bar code or use the Wizard to manually set up the computer. To learn more about how to **Scan Bar Codes**, see page 48.

During the manual setup process, follow the prompts on the screen as the wizard has you:

- Set the default language.
- Set up the Wi-Fi network connections.
- Set the time, date, and time zone.
- Personalize (name) the computer.
- Set up security and privacy options.

Once you complete the initial setup, the Welcome screen no longer appears when you power on the computer and **Provisioning mode** is automatically turned Off (disabled). Scanning a bar code to install applications, certificates, configuration files, and licenses on the computer is restricted when **Provisioning mode** is turned Off. To learn more **About Provisioning Mode** see page 78.
Unlock the Screen

The screen lock automatically activates every time the computer is turned on or when the computer wakes from sleep mode.

- Swipe up from the lock icon at the bottom of the screen.

The level of security provided depends on the type of lock set (e.g., Swipe, Pattern, PIN, or Password). The default setting (Swipe) provides no protection against unauthorized access to your computer.

Change the Screen Lock to Protect the Computer

After you start using the computer, you should change the screen lock to prevent unauthorized persons from accessing the computer after the screen lock activates, unless they input the correct password, pin, or pattern.

The recommended setting for the Screen Lock is to enable a Password lock. Use a strong password value (e.g., include numbers, characters, special characters, and mix character case).

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap Settings > Security > Screen lock.
3. Choose one of the following options:
   - None
   - Swipe
   - Pattern
   - PIN
   - Password
4. Follow the on-screen prompts to complete the setup.
5. Exit the Settings app.

Configure the Screen Backlight

The display has an ambient light sensor that automatically adjusts the backlight intensity to conserve power and ensure the display is readable. You can also manually set the backlight intensity if you do not want to use the automated adaptive brightness feature.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap Settings > Display.
3. Choose one of the following options:
   - To have the computer automatically adjust the brightness for your work environment, turn on the **Adaptive brightness** setting. You can tap **Adaptive brightness** to toggle the feature On or Off.
   - To set the brightness level manually, verify the Adaptive brightness feature is turned off, and tap **Brightness level**. Adjust the slider to set the brightness level.

### About the Scan Status LED

The Scan Status LED indicates the read status of the imager when scanning a bar code. When active, the LED illuminates the outer ring of the front speaker.

**Good Read LED**

<table>
<thead>
<tr>
<th>LED Color</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green</td>
<td>Good read of a bar code.</td>
</tr>
<tr>
<td>Blinking green</td>
<td>The data collection engine is processing or starting up.</td>
</tr>
<tr>
<td>Red</td>
<td>Failure to scan bar code. Check to make sure you have the correct symbology enabled.</td>
</tr>
</tbody>
</table>

To learn more about how to use and configure the imager engine for scanning, see **Chapter 3: Use the Image Engine** beginning on page 31.
About the Audio Features

The CT40 has multiple speakers, a microphone, and several software tools to configure sound volume or enable vibration feedback.

Adjust Speaker Volume

Use the Volume button on the left side of the computer to adjust the volume of ringtones, media, notifications or alarms.

1. To change the volume of the active speaker, do one of the following:
   • Press the top of the Volume button, to raise the volume.
   • Press the bottom of the Volume button to lower the volume.
   • Press the Volume button and drag the on-screen slider to the left, to lower the volume, or to the right to raise the volume.

2. (Optional) Tap the down arrow to expand the options and then drag each volume slider right or left to adjust each volume setting.
   • Use the slider for notifications and rings.
   • Use the slider for media (e.g., music, videos and other media).
   • Use the slider for alarms.

Enable Vibrate Mode

You can use the Volume button to quickly enable Vibrate mode so the computer vibrates instead of emitting sound for notifications and rings. If you still want to hear alarms, turn on the Alarms only feature.

1. Press the bottom of the Volume button until the computer vibrates.
2. To turn on the Alarms only feature, press the bottom of the **Volume** button again with the volume slider open.

The status bar at the top of the screen indicates the active mode:

- When Vibrate mode is active, the icon appears.
- When Alarms only mode is active, the Do Not Disturb icon appears.

### Audio Settings

This section describes the audio and sound settings you can configure in the **Settings** app.

- To change audio settings, start the **Settings** app and tap **Sound**.

*Note:* **Sound settings are model dependent. Some settings may not be available for your model type.**

### Sound Settings

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Media Volume</td>
<td>Use the sliders to set the volume for media (e.g., music, videos, and games), alarms and rings (notifications and ringtones).</td>
</tr>
<tr>
<td>Alarm Volume</td>
<td></td>
</tr>
<tr>
<td>Ring Volume</td>
<td></td>
</tr>
<tr>
<td>Also Vibrate for calls</td>
<td>Select to enable vibrate mode when the phone is ringing.</td>
</tr>
<tr>
<td>Do not disturb</td>
<td>Select to set which notifications to let through when you have Do Not Disturb turned On and when you want to be left alone.</td>
</tr>
<tr>
<td>Phone ringtone</td>
<td>Select a default ringtone.</td>
</tr>
<tr>
<td>Default notification ringtone</td>
<td>Select a notification sound.</td>
</tr>
<tr>
<td>Default alarm ringtone</td>
<td>Select a alarm sound.</td>
</tr>
<tr>
<td>Emergency broadcasts</td>
<td>Select to configure Emergency alert settings. Turn alerts On or Off, specify tone, vibrate or text-to-speech.</td>
</tr>
<tr>
<td>Other sounds</td>
<td></td>
</tr>
</tbody>
</table>

- **Dial pad tones** Enable or disable an audio sounds when you use the phone dial pad.
- **Screen locking sounds** Enable or disable an audio tone when the screen is locked.
Insert a microSD Card

You can use a microSD card to increase file storage capacity or to install software. Honeywell recommends the use of Single Level Cell (SLC) industrial grade microSD or microSDHC memory cards with the computer for maximum performance and durability.

**Note:** Format the memory card before initial use.

1. Save your files and close any open applications.
2. Press and hold the **Power** button until the options menu appears.
3. Tap **Power Off** and then **OK** to verify.
4. Disconnect one end of the hand strap from the computer.

5. Press and hold down the small button on the battery latch, and then slide the latch toward the side of the computer to unlock the battery.
6. Lift up on the edge of the battery and remove it from the computer.

7. Lift up the edge of the SD card access door.

8. Press down gently and slide the card holder toward the open access door. Lift the edge of the holder up.
9. Insert the microSD card into the card holder with the contacts facing out.

10. Close the holder with the card inserted. Press down gently on the card holder and slide it into the locked position.

11. Close the SD card access door.

12. Install the battery and slide the battery latch into the locked position.

13. Install the hand strap, and then turn on the computer.
How to Transfer Files

To transfer files you need to physically connect the CT40 mobile computer to your workstation (e.g., laptop or desktop computer) through a USB connection. When the mobile computer is connected and USB is configured for file or photo transfer, use a file browser (e.g., File Explorer or Windows Explorer) on your workstation to transfer files between the two computers. If you are transferring files to and from a Mac, use the Android File Transfer application (available from www.android.com/filetransfer).

**Note:** File transfer through a USB connection is disabled by default. You need to configure the USB connection for transferring files or photos.

You can use these accessories to connect your mobile computer to your workstation:

- Home Base or Ethernet Home Base, and a standard USB Type B to A cable.
- Snap-On Adapter, Tethered USB Cable Client (CT40-SN-USB-0)

Configure USB Connection and Transfer Files

**Note:** The CT40 supports Hi-Speed USB communications (USB 2.0) with a maximum data transfer rate of 480 Mbps.

1. Connect the CT40 to your workstation.
2. On the CT40, swipe down from the top of the screen to see the notifications.
3. Tap **USB charging this device**.
4. Select either **Transfer files** or **Transfer photos (PTP)**.
5. Open the file browser on your workstation
6. Browse to the CT40. You can now copy, delete, or move files between the CT40 and your workstation.
Accessories for the Computer

The Dolphin CT40 ships with a battery and hand strap. All other accessories are ordered and shipped separately.

For a complete list of compatible accessories for the CT40 mobile computer series and their part numbers see the *Dolphin CT40 Accessory Guide* available for download from the CT40 product page at [www.honeywellaidc.com](http://www.honeywellaidc.com).

Contact your local sales representative for ordering information.

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethernet Home Base</td>
<td>Use the Ethernet Home Base to hold a computer with a battery installed, charge a spare battery pack, charge the main battery pack, and provide power to the mobile computer. The Ethernet base has a USB client connector (Type B) as well as an Ethernet connector.</td>
</tr>
<tr>
<td>(Model CT40-EB)</td>
<td></td>
</tr>
<tr>
<td>Home Base</td>
<td>Use the Home Base to hold a computer with a battery installed, charge a spare battery pack, charge the main battery pack, and provide power to the mobile computer. The Home Base has a USB client connector (Type B).</td>
</tr>
<tr>
<td>(Model CT40-HB)</td>
<td></td>
</tr>
<tr>
<td>Charge Base</td>
<td>The Charge Base is a 4-slot charging cradle that can power four computers, and charge their main batteries.</td>
</tr>
<tr>
<td>(Model CT40-CB)</td>
<td></td>
</tr>
<tr>
<td>Net Base</td>
<td>The Net Base enables up to four computers to communicate with a host device over an Ethernet network. The Net Base also provides a second RJ45 Ethernet port for connection to an additional device such as a printer, workstation, or another Net Base.</td>
</tr>
<tr>
<td>(Model CT40-NB)</td>
<td></td>
</tr>
<tr>
<td>Quad Charger</td>
<td>Use the quad charger to charge up to four batteries.</td>
</tr>
<tr>
<td>(Model CT40-QBC)</td>
<td></td>
</tr>
<tr>
<td>Snap-On Adapter, Tethered USB Cable</td>
<td>Use this snap-on adapter for tethered USB client connectivity. This for transferring data or charging your computer.</td>
</tr>
<tr>
<td>(Model CT40-USB)</td>
<td></td>
</tr>
<tr>
<td>Scan Handle</td>
<td>Attach the scan handle to the CT40 mobile computer for easier grip and trigger action when scanning labels.</td>
</tr>
<tr>
<td>(Model CT40-SH-DC)</td>
<td></td>
</tr>
<tr>
<td>Holster</td>
<td>Use the holster to carry the computer hands-free in the work environment.</td>
</tr>
<tr>
<td>(Model CT40-SH-DC)</td>
<td></td>
</tr>
</tbody>
</table>
Use this chapter to learn about the user interface and how to interact with the screen. You can also use this chapter to learn about the Honeywell applications on the computer.

About the User Interface

The Android 7 operating system provides a touch-friendly and easy-to-navigate user interface. When you turn on the mobile computer, the Home screen is the first screen that appears after language provisioning and the startup wizard is complete.
Home Screen Features

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Notifications panel / Status bar</td>
<td>Status icons to the left tell you when an app has sent notifications, such as an arriving message. System icons to the right display the current wireless and network connection state and battery level.</td>
</tr>
<tr>
<td>Search bar</td>
<td>Search the Internet or the computer using Google™. Tap the microphone icon in the search box to initiate a voice search or command.</td>
</tr>
<tr>
<td>Home Screen Panel</td>
<td>You can create more than one custom Home screen panel. Swipe left or right on the Home to switch between your custom panels.</td>
</tr>
<tr>
<td>Favorites tray</td>
<td>App icons in the customizable tray are visible on all Home screen panels.</td>
</tr>
</tbody>
</table>

Navigation and Function Buttons

Your mobile computer has virtual buttons on the front panel below the Favorites tray and hardware buttons located on the sides for easy navigation and quick feature access when using the computer.

For button locations, see Features of the CT40 on page 2.

<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="icon" alt="Back" /></td>
<td>Tap to return to the previous screen.</td>
</tr>
<tr>
<td><img src="icon" alt="Home" /></td>
<td>Tap to return to the Home screen.</td>
</tr>
<tr>
<td><img src="icon" alt="Recent Apps" /></td>
<td>Tap to view and switch between recently used apps.</td>
</tr>
<tr>
<td><img src="icon" alt="Scan" /></td>
<td>Tap the front (on-screen) Scan button to trigger the scanner.</td>
</tr>
<tr>
<td><img src="icon" alt="Volume" /></td>
<td>Press the top of the Volume button to raise the speaker volume. Press the bottom of Volume button to lower the speaker volume.</td>
</tr>
<tr>
<td><img src="icon" alt="Scan" /></td>
<td>Press the right or left Scan button to trigger the scanner.</td>
</tr>
</tbody>
</table>

To learn how to Remap a Button, see page 23.
About Status Bar Icons

Status and notification icons show you the current status of your network, the battery, notifications, and sounds. Use the table below to understand some of the most common icons.

**Status and Notification Icons**

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🕒</td>
<td>Pending alarm and Alarm is set</td>
<td>☢️</td>
<td>Vibrate mode is turned on</td>
</tr>
<tr>
<td>📨</td>
<td>New text message or multimedia message delivery</td>
<td>🛣</td>
<td>Airplane mode is turned on.</td>
</tr>
<tr>
<td>📣</td>
<td>Error with text or multimedia message delivery</td>
<td>📱</td>
<td>Bluetooth is turned on.</td>
</tr>
<tr>
<td>💌</td>
<td>New email</td>
<td>⚠️</td>
<td>SD card is full</td>
</tr>
<tr>
<td>🌐</td>
<td>Computer is connected to a PC with a USB cable</td>
<td>🌐</td>
<td>Wi-Fi network connected with full signal strength</td>
</tr>
<tr>
<td>⚫</td>
<td>Synchronizing data</td>
<td>⚫</td>
<td>Wi-Fi network connected but no signal strength</td>
</tr>
<tr>
<td>⚫</td>
<td>Error with sync or sign-in</td>
<td>⚫</td>
<td>Phone connected with full amount of bars.</td>
</tr>
<tr>
<td>⚫️</td>
<td>Computer is connected with Ethernet</td>
<td>⚫️</td>
<td>Phone connected with full amount of bars but no Internet connection.</td>
</tr>
</tbody>
</table>

**Remap a Button**

You can change the default function of the Volume button (i.e., Volume up and Volume down) and Scan buttons (i.e., Left, Right, and Front).

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings 🛡️ > Key Remap**.
3. Tap the plus sign (+).
4. Press the button you want to remap.
5. Tap **OK**.
6. Tap **Keys** or **Applications** to view the available functions.
7. Select the function you want assigned to the button. The function you selected now appears next to the button name.
Restore Default Button Action

To restore the button default action:

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings** > **Key remap**.
3. Tap the clean icon 🔄.
4. Choose the remapped button(s) you want restored to the default setting.
   - Tap the check box next to the button.
   OR
   - Tap **All Select** to choose all the buttons.
5. Tap **Delete**.

View and Manage Notifications

You can view recent events on the computer, manage system notifications, change a setting or quickly respond to an app notification by opening the notifications panel.

When a notification icon appears in the status bar at the top of the screen:

1. Swipe down from the top of the screen to open the notifications panel.
2. Respond to the notification. You can take one of the following actions:
   - Tap the notification to open the associated app.
   - Tap a quick-reply or action command (e.g., Reply, Archive) if available.
   - Swipe the notification sideways, off the screen to dismiss it. Note that some notifications cannot be dismissed.
   - Slide the notification left or right to reveal the settings icon 🔄. Choose between **Show notifications silently**, **Don’t silence**, or **More Settings**.

To close the notification panel, swipe up from the bottom of the screen, or tap the **Back** or **Home** buttons.

Open Quick Settings

Use the Quick Settings screen to quickly access common settings. Tap an icon to toggle the feature on/off or to open additional settings.

- To open Quick Settings, swipe down twice from the status bar at the top of the screen.
- To close Quick Settings, tap the top of the screen, **Back** or **Home** buttons.
Customize the Home Screen

You can add application icons to any Home screen for easier access.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap and hold the app you want to add. The computer vibrates, and then switches to a smaller view of the Home screen panels.
3. Drag and drop the app icon into place.
   - If you want to add another home screen, drag the icon to the right edge of the screen before releasing the icon.
   - If you want to create a folder, drag and drop the icon on top of another icon.

To add a Widget:

1. Tap and hold an empty section of the Home screen.
2. Tap **Widgets**.
3. Tap and hold the Widget you want to add.
4. Drag and drop the Widget into place on the Home screen.

Customize the Favorites Tray

Modify the Favorites tray to contain the apps you use the most.

1. Tap and hold the app icon you want to replace on the Favorites tray.
2. Drag and drop the app on “X Remove” at the top of the screen.
3. Swipe up from the bottom of the screen to access all apps.
4. Tap and hold the icon of the app you want to add.
5. Drag and drop the icon into position on the Favorites tray.

Use Google™ Search

Use the Google Search field at the top of the Home screen to help you find anything you need on the computer or on the web.

1. At the top of any Home screen, tap inside the Google Search box and begin to type your search term.
   
   As you type, suggestions from Google web search appear below the Search box, and results from the computer (such as apps or contacts) appear below the web search results.
   
   2. Tap a suggestion to search for it immediately, or tap the arrow to add the term to the search field without starting to search.
About Screen Gestures

Use your fingers or the stylus to manipulate icons, buttons, menus, the on-screen keyboard, and other items on the screen.

- **Tap**
  Tap to select something, toggle a setting on or off, or activate a field for text entry. An on-screen keyboard automatically appears for text entry.

- **Tap and hold**
  Tap and hold an item but do not lift your finger or stylus until an action occurs.

- **Drag and drop**
  Tap and hold an item, and then slide your stylus or finger across the screen until you reach the target position. Lift your finger or stylus off the screen to drop the item in place.

- **Swipe**
  Quickly move your finger across the screen, without pausing when you first touch the screen. For example, you can swipe a Home screen left or right to view the other Home screens.

- **Slide**
  Slowly move your finger across the screen, without pausing when you first touch the screen. For example, you can slide a notification to the left until the Settings gear is revealed.

- **Double-tap**
  Tap quickly twice on a web page, map, or other screen to zoom in. Double-tap again to zoom out.

- **Pinch**
  In some apps, you can zoom in and out by placing two fingers on the screen at once and pinching them together (to zoom out) or spreading them apart (to zoom in).

Set the Time Zone

The computer gets the current date and time from its network connection. If preferred, you can change this behavior and manually set the time zone for your location.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings** > **Date & time**.
3. Tap **Automatic time zone** to turn off the feature.
4. Tap **Select time zone** and choose the time zone for your location.
About Honeywell Applications

Honeywell applications help you troubleshoot and connect your computer to other devices and networks. Some of the applications in this table are located in the Power Tools app. To learn more about Honeywell Power Tools, go to www.honeywellaidc.com to download the Dolphin Power Tools User Guide.

Honeywell Applications Available on the Computer

<table>
<thead>
<tr>
<th>Icon</th>
<th>Application</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>📖</td>
<td>AutoInstall Settings</td>
<td>Enable the AutoInstall feature, to automatically install *.zip or *.apk files containing applications saved in the Internal shared storage\honeywell\autoinstall folder and IPSM card\honeywell\autoinstall folder on the computer during the power-up boot or reboot process.</td>
</tr>
<tr>
<td>📣</td>
<td>Carrier Select</td>
<td>The SIM Selection app only appears on CT40-L1N models. Use the app to quickly change your network carrier.</td>
</tr>
<tr>
<td>📦</td>
<td>Demos</td>
<td>Honeywell Demo apps demonstrate the basic capabilities of the computer and are not intended as functional business solutions. The demos included, demonstrate scanning, signature capture, NFC functionality, and printing via Bluetooth technology. Information on how to create custom applications for your Honeywell mobile computer can be found in the Honeywell Software Development Kit (SDK) for Android, available from the Technical Support Downloads Portal.</td>
</tr>
<tr>
<td>🔨</td>
<td>HUpgrader</td>
<td>Use the HUpgrader app to view the current OTA version on the computer, check for updates, or initiate an OTA upgrade from storage.</td>
</tr>
</tbody>
</table>

Dolphin Power Tools

<table>
<thead>
<tr>
<th>Icon</th>
<th>Application</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>📈</td>
<td>BattMon</td>
<td>BattMon provides information on the charge status and health of the battery, and provides access to activate battery status notifications and battery charging history logs.</td>
</tr>
<tr>
<td>🗞️</td>
<td>Configure Autorun</td>
<td>Configure Autorun provides the ability to set applications to automatically run after a reboot.</td>
</tr>
<tr>
<td>💬</td>
<td>Diagnostic Information</td>
<td>Diagnostic Information provides access to system statistics, notifications and version information about the computer.</td>
</tr>
<tr>
<td>🌐</td>
<td>EZConfig</td>
<td>EZConfig supports advanced customization and configuration of the hand held computer. EZConfig includes a standard XML editor and configuration bar code scanner feature.</td>
</tr>
<tr>
<td>📣</td>
<td>Wireless Tether</td>
<td>Use to enable range tracking and customize out-of-range alerts for Bluetooth devices paired and tethered to your hand held computer.</td>
</tr>
</tbody>
</table>
Applications You Can Download to the Mobile Computer

You can download Honeywell applications to extend the capabilities of the computer. You may need to purchase an license to run some applications. To learn more about the applications described in this section and other Honeywell software solutions, go to www.honeywellaidc.com > Browse Products > Software.

About Honeywell Enterprise Browser

Enterprise Browser for Microsoft® Internet Explorer® is a locked-down enterprise Web client application designed for Honeywell computers. It provides a controlled Web application environment that helps enterprises increase productivity and reduce IT management expenses. You can configure Enterprise Browser for your specific application requirements and design custom web applications that run through the Enterprise Browser to provide your users with an easy-to-use yet controlled experience.

If Enterprise Browser is not included on your computer model, you can download a trial version for evaluation. After the evaluation period expires, you need to purchase a license. For more information about Enterprise Browser, visit www.honeywellaidc.com.

About Honeywell Launcher

Launcher is a configurable locked-down menu program designed for Honeywell computers that prevents end-users from accessing the start menu and other non-authorized applications. Use Launcher to provide a platform where your mobile computer users are limited to running only company-approved applications and prevent them from initiating unauthorized configuration changes. You can also use Honeywell Launcher together with Honeywell Enterprise Browser to create a single-purpose device configuration.

If Launcher is not included on your computer model, you can download a trial version of the software for evaluation. After the evaluation period expires, you need to purchase a license. For more information about Launcher, visit www.honeywellaidc.com.
Unlock Developer Options

Developer options only appear in the Settings app if you unlock the feature. If you are a developer working with the computer, you can easily unlock the additional settings to use for testing and debugging applications under development for the computer.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap Settings > About phone.
3. Tap Build number seven times. A message appears informing you that you are now a developer.
4. Open Settings and scroll to the bottom of the list.
5. Tap Developer options.
Use this chapter to understand how to scan bar codes, configure the scan settings, and capture images using the integrated image engine in the computer.

About the Image Engine

The Dolphin CT40 series offers two Honeywell high-performance imager options:

- N6603 Slim Imager Engine
- N3601 Imager Engine

You can use the image engine in the computer as a scanner or camera.

Use the imager as a scanner to read 1D and 2D bar code symbologies, composite symbologies, and postal codes. It also supports omni-directional scanning for greater flexibility in real-world settings. By default, the scanner feature is enabled and uses the default scan profile. You can modify the Default Profile or create new profiles for custom applications from the Settings app under Scanning.

Use the imager as a camera to capture black and white images, such as signatures or pictures of damaged inventory.

Note: Instead of using the internal imager, you can also use Bluetooth communications to connect the computer to an external scanner, such as the Granit™ 1981i and 1911i.

About the Scan Wedge Feature

The scan wedge feature sends scanned bar code data to an active application as Android keypad input. To scan a bar code as keyboard input, open an application that accepts text input and then scan a bar code. You can use applications that are coded to use the scanner or applications that receive data through the scan wedge feature. If an application claims the scanner through the BarcodeReader API, the scan wedge feature is temporarily disabled.
You can find information on how to create custom applications for the computer in the Software Development Kit (SDK) available for download from the Technical Support Downloads Portal at https://hsmftp.honeywell.com. Once you create an account and enter the portal, navigate to Software > Software and Tools > Developer Library > SDKs for Android.

Change the Scanner Settings

Changes you make to the Default profile apply to all applications with no profile assigned.

1. Swipe up from the bottom of the Home screen to access all apps.

2. Tap Settings > Scanning.

3. Tap Internal Scanner > Default Profile.

4. Select from the following:
   - Data Processing Settings,
   - Symbology Settings,
   - Decode Settings,
   - Imager Settings,
   - Trigger Settings, or
   - Notification Settings.

5. Modify the settings to meet your application needs.

To learn more about the scanner settings, see Default Scan Settings on page 33.

Restore Default Scan Settings

You can easily discard all changes you made to the Default profile and restore the default values.

Note: When you choose the Restore all defaults option from a settings screen in a profile, all the settings in that profile return to their default values.

1. Open the Default profile.

2. Tap 📀 in the upper right corner of any of the scan settings screens for the profile.

3. Tap Restore all defaults.
**Default Scan Settings**

Use the following sections to understand the scan settings available for scanner profiles. To learn how to create a new profile, see page 37.

**Data Processing Settings**

Use the Data Processing Settings to specify how bar code data is processed by the computer.

### Data Processing Settings

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>CharSet</td>
<td>Select the character set to use when interpreting the bar code data into a string.</td>
<td>ISO-8859-1</td>
</tr>
<tr>
<td>Prefix</td>
<td>Defines the string added before the decoded bar code data. Substitutions occur within the Prefix string values.</td>
<td>None</td>
</tr>
<tr>
<td>Suffix</td>
<td>Defines the string added after the decoded bar code data. Substitutions occur within the Suffix string values.</td>
<td>None</td>
</tr>
<tr>
<td>Wedge as Keys</td>
<td>List of character values to wedge as keys, represented as a comma-separated list of decimal values.</td>
<td>9,10</td>
</tr>
<tr>
<td>Data Editing Plugin</td>
<td>Specify a Total Freedom data editing plug-in and edit plug-in settings.</td>
<td>None</td>
</tr>
<tr>
<td>Symbology Prefix</td>
<td>Specify a symbology identifier prefix to the bar code data. Options include:</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>• None</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Honeywell</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• AIM</td>
<td></td>
</tr>
</tbody>
</table>

**Substring Replacement Character Code**

<table>
<thead>
<tr>
<th>Substring</th>
<th>Replacement Character Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>\r</td>
<td>13</td>
</tr>
<tr>
<td>\n</td>
<td>10</td>
</tr>
<tr>
<td>\t</td>
<td>9</td>
</tr>
<tr>
<td>&quot;</td>
<td>&quot;</td>
</tr>
</tbody>
</table>
Symbology Settings

Use the Symbology Settings to enable or disable bar code symbologies for the selected scan setting profile.

- Tap the check box next to a symbology name to enable (check mark) or disable (no check mark) decoding for that symbology.
- Tap the symbology name to view and modify additional configuration parameters for the symbology selected.

To view a list of default settings for supported symbologies, see page 78.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>Launch Browser</td>
<td>Enable or disable URL bar code handling. If a bar code starts with http:// or https://, the browser opens using the bar code data as a URL.</td>
<td>Enable</td>
</tr>
<tr>
<td></td>
<td>Corresponds to BarcodeReader property: PROPERTY_DATA_PROCESSOR_LAUNCH-BROWSER</td>
<td></td>
</tr>
<tr>
<td>Scan to Intent</td>
<td>Enable or disable special handling of scan-to-intent bar codes. Applies to bar codes in one of the following formats: <code>//</code> ACTION <code>//</code> ACTION <code>$</code> extra-data Where: ACTION and extra-data are any string of characters. Launches an application listening for the intent. Intent action: &quot;com.honeywell.scantointent.intent.action.&quot; + ACTION Intent extra: &quot;com.honeywell.scantointent.intent.extra.DATA&quot; contains the remainder of the bar code data after the first <code>$</code> character.</td>
<td>Enabled</td>
</tr>
<tr>
<td></td>
<td>Corresponds to BarcodeReader property: PROPERTY_DATA_PROCESSOR_SCAN_TO_INTENT</td>
<td></td>
</tr>
<tr>
<td>Launch EZ Config</td>
<td>Enable or disable special handling of EZConfig bar codes. Applies to EZConfig bar codes that are encoded with the Aztec symbology and contain specific header data.</td>
<td>Enabled</td>
</tr>
<tr>
<td></td>
<td>Corresponds to BarcodeReader property: PROPERTY_DATA_PROCESSOR_LAUNCH_EZ_CONFIG</td>
<td></td>
</tr>
</tbody>
</table>
### Decode Settings

Adjust the Decode Settings when scanning bar codes that are densely packed or poor quality.

#### Decode Settings

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
<th>Default</th>
</tr>
</thead>
</table>
| Center Decode            | When enabled, the imager scans and decodes a bar code only if part of the bar code is at the center of the aimer window. This is useful in situations where several bar codes may be very close together in the imager field-of-view.  
  - Tap the check box to toggle the feature on or off.  
  - Select Center Decode to adjust the Window dimensions. Honeywell recommends leaving the settings at 50 (default) to define the “center” area for the bar code. Configurable parameters:  
    - Window top  
    - Window bottom  
    - Window left  
    - Window Right | Disabled |
| Poor Quality 1D Reading  | Enable this setting when scanning damaged or badly printed 1-D bar codes to improve bar code read success. | Disabled |
| Video Mode               | Use this setting to specify whether normal or inverse decoding for linear symbologies is enabled during the execution of Decode. By default normal video is enabled. Options include:  
  - Normal  
  - Inverse  
  - Normal and Inverse | Normal |
| Region of Interest       | Set the ROI for decoding. Options include:  
  - Disable  
    ROI is disabled and the entire original image is sent to the decoder.  
  - Standard  
    Use the aimer position to weight activity. Activity calculated on the row and the column in the middle of each cell. The ROI window may not include the aimer.  
  - Standard, aimer centered  
    Activity calculated on the row and the column in the middle of each cell. The ROI window will always include the aimer.  
  - DPM, aimer centered  
    Activity calculated on 4 rows and 2 columns in each cell. The ROI window will always include the aimer.  
  - Kiosk/presentation application  
    Ignore aimer position, no weight activity. Activity calculated on the row and the column in the middle of each cell. The ROI window may not include the aimer. | Disabled |
Imager Settings

You should not need to modify the Imager Settings. The **Override Recommended Values** setting is disabled by default. The recommended Imager Settings are designed to work in a wide range of environments and should only be modified if you have an advanced understanding of imagers.

Trigger Settings

Use the Trigger Settings to configure how the scan buttons work.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enable Scan Trigger</td>
<td>Enable or Disable activating the imager by pressing the side scan buttons or the virtual Scan button in the Scan Demo app.</td>
<td>Enabled</td>
</tr>
<tr>
<td>Scan delay</td>
<td>Set the minimum amount of time in seconds before the scanner can read another bar code.</td>
<td>0</td>
</tr>
<tr>
<td>Decode Timeout</td>
<td>Set the number of seconds before the scanner automatically turns off if the scan button is pressed and nothing has successfully decoded.</td>
<td>20</td>
</tr>
</tbody>
</table>
| Trigger Scan Mode     | Set read behavior on scan button press. Options available:  
  • One Shot  
  • Continuous  
  • Read on release  
  • Read on second trigger press                                                                 | One Shot |
| Same symbol timeout   | Set the minimum buffer time in seconds before the scanner reads the same bar code. This can be adjusted to prevent inadvertent scans of the same bar code if the code is left in the scan field longer than the Decode Timeout limit. The default same symbol timeout is 1000 seconds. | Disabled |

Notification Settings

Use the Notification Settings to configure how your computer responds when you scan a bar code.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>Good Read Notification</td>
<td>Enables or disables a good read notification. The notification consists of a green blink of the Good Read LED, a short beep, and an optional short vibration.</td>
<td>Enabled</td>
</tr>
<tr>
<td>Bad Read Notification</td>
<td>Enables or disables notification of a failed scan. The notification consists of a red blink of the Good Read LED, an error beep, and an optional short vibration.</td>
<td>Disabled</td>
</tr>
<tr>
<td>Vibrate On Notification</td>
<td>Enables or disables whether the computer vibrates when there is a good or bad read.</td>
<td>Disabled</td>
</tr>
</tbody>
</table>
Add a Scan Setting Profile

To create a scan setting profile for a custom app on the computer:

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap Settings > Scanning > Internal Scanner.
3. Tap the + in the upper right corner of the app screen.
4. Take one of the following actions:
   - Tap the profile name field, and then add a new name.
   - Tap the select an application option, and then choose an app from the list.

   The new profile appears on the Internal Scanner profile list. You can now select and modify the scan settings for the new profile.

Delete a Scan Setting Profile

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap Settings > Scanning > Internal Scanner.
3. Tap and hold the profile you want to delete, and then select Delete.

About the Optional Digital Scan Button

By default, the imager is enabled for scanning with the left and right Scan buttons configured to trigger the imager. If your application environment requires use of an on-screen Scan button, enable the Digital Scan Button feature in the Settings app. Once enable, you can then modify the appearance of the on-screen Scan button and select the apps the button appears in.

Enable and Configure the Digital Scan Button

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap Settings > Digital Scan Button.
3. Tap Enable Digital Scan Button to turn the feature on. A preview of the button appears at the bottom of the screen.
4. Configure the button appearance. As you adjust the settings, the preview of the button updates.
   - Tap **Select Button Size**, and then choose Small, Medium or Large.
   - Tap **Select Button Color** and then choose from seven color options. Default color is black. Tap a dot to select the color, and then select **OK** to confirm.
   - Use the slider under **Transparency Level** to adjust how transparent the button appears on the application screen.

5. Drag the preview button to the location where you want it to appear on the screen. Once you have positioned the button, tap the **Set Button Location** toggle button to lock it into position.

6. Tap **Choose Application**.

7. Check the box next to all the applications where you want the digital scan button to be available.

8. Select **OK**.

9. Tap the **Back** to return to the Settings screen.
   - The digital scan button appears on the screen when you open any of the apps you selected during the button setup. Tap and hold the button to activate the imager and scan a bar code.

## Scan Bar Codes

By default, the computer imager is enabled for scanning. It supports omni-directional (360°) bar code scanning and an aiming beam is provided to help assist with targeting bar codes.

Before you start scanning bar codes, go into **Settings > Scanning > Internal Scanner** and modify the scan profile to enable only the bar code symbologies that you need. By reducing the active symbology list, you can increase scan speed.

1. Point the scanner window at the bar code. For optimum performance, avoid reflections by scanning the bar code at a slight angle.
2. Press and hold any **Scan** button.
3. Center the aiming beam over the bar code. Make sure the entire bar code is inside of the illumination frame.
4. Release the **Scan** button when the computer beeps, and the Good Read LED briefly turns on. The bar code information is entered into the application in use.

**Note:** *Not all bar code symbologies are enabled by default. If a bar code does not scan, the correct symbology may not be enabled.*

**About Scanning Configuration Bar Codes**

After completing the out-of-box setup process, Provisioning mode is automatically turned off. Scanning a bar code to install applications, certificates, configuration files, and licenses on the computer is restricted unless you enable Provisioning mode in the Settings app.

To learn more about **Provisioning Mode**, see page 68.

**Use the Scan Demo App**

Use the Scan Demo app to read bar codes, or to test your symbology decode settings.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Demos**.
3. Swipe left or right on the screen until **Scan Demo** appears under the turntable. Tap the center of the box image to open the app.
4. Point the scanner window at the bar code.
5. Press and hold either side **Scan** button or tap **Scan** on the computer screen.
6. Center the aiming beam over the bar code. Make sure the entire bar code is inside of the illumination frame.
7. Release the **Scan** button when the computer beeps, and the Good Read LED briefly turns on. Bar code information appears on the screen.

**Note:** *In the Scan Demo app, not all bar code symbologies are enabled by default. If a bar code does not scan, the correct symbology may not be enabled.*
Change the Scan Demo Symbology Settings

1. In the Scan Demo app, tap : in the upper right corner of the screen.
2. Select Symbology Settings.
3. Modify the symbology parameters.
   - Tap the check box next to a symbology name to enable (check mark) or disable (no check mark) decoding for that symbology.
   - Tap the symbology name to view and modify additional configuration parameters for the symbology selected.
4. Tap Back to return to the Scan Demo app.

Use the Imager as a Flashlight

To use the imager as a flashlight.

1. Open Quick Settings (see page 24).
2. Tap the Flashlight icon to turn the flashlight on.
3. Select the icon again to turn the flashlight off.
You can use the phone feature to make and receive phone calls as well as transmit data through wireless wide-area networks (WWANs).

**Note:** Phone features are only supported on CT40 WWAN models (CT40-L1N).

### About the Phone

Phone features on the computer include a speaker and a microphone. You can also use a Bluetooth headset or hands-free kit.

On CT40 WWAN models the phone feature is enabled by default and a flexible network radio provides the ability to connect to CDMA or UMTS networks in all regions that support the technologies. The flexible network radio is a software-defined radio (SDR) that can be configured for CDMA or UMTS depending on your wireless communication needs.

After you turn on the phone and activate service with your wireless carrier, you can customize the phone features and network settings in the Wireless & Networks section of the Settings app.

**Note:** Both WWAN radios support Network Information and Time Zone (NITZ) messages to automatically set the system time.

### Add or Switch Between Network Carriers

The SDR radio in the CT40 WWAN model makes it easy for you to add carriers and switch between them as needed.

Use the Carrier Selection app to quickly change your WWAN radio network carrier.

1. Swipe up from the bottom of the Home screen to access all apps.

2. Tap **Carrier Selection**.
3. Select a carrier from the list, and then tap **Apply Settings**.
   - If the update is successful, the Carrier Selection screen appears and displays the updated carrier information.
   - If the update is unsuccessful, a message appears. Tap **OK** to return to the Carrier Selection screen.

### Activate the UMTS Phone

You use a SIM card to activate the UMTS phone on your CT40 WWAN model computer (CT40-L1N). You can purchase the micro SIM card from your network provider.

1. Select a network carrier. To learn how, see Add or Switch Between Network Carriers on page 41.
2. Press and hold the **Power** button until the options menu appears.
3. Tap **Power Off** and then **OK** to verify.
4. Disconnect one end of the hand strap from the computer.

5. Press and hold down the small button on the battery latch, and then slide the latch toward the side of the computer to unlock the battery.
6. Lift up on the edge of the battery and remove it from the computer.

7. Lift up the edge of the SIM card access door.

8. Press down gently and slide the card holder into the unlocked position. Lift the edge of the card holder up.

9. Insert the card in the holder with the contacts facing out.
10. Close the holder with the card installed. Press down gently on the holder and slide it into the locked position.

11. Close the SIM card access door.

12. Install the battery.

13. Slide the battery latch toward the side of the computer to engage the lock.

15. Press and hold the **Power** button for approximately 3 seconds, and then release the button to turn the computer on.

**Activate the CDMA Phone**

You need to contact your wireless carrier and set up an account to activate the CDMA phone on your CT40 WWAN model computer (CT40-L1N).

You also need to provide the carrier with the Mobile Equipment Identifier (MEID) for the computer. You can find the MEID:

- on a label located in the battery compartment.
- on the outside of the computer shipping box.

*Note:* For the CDMA phone, settings are permanently stored in the WWAN radio after activation. CDMA settings persist through an Enterprise Reset but not a Factory Reset.

The activation process is slightly different for each CDMA carrier. In general, you should contact your wireless provider to register the unique MEID number for the computer and confirm the appropriate steps to take for phone activation on the providers network. Use the following steps as a guide.

1. Contact your wireless provider, verify your account is active with the carrier and give the provider the MEID number for the computer.

2. Select a network carrier. To learn how, see Add or Switch Between Network Carriers on page 41.

3. Use the activation method recommended by your provider. Methods vary by provider.

Some providers support automatic activation. This type of activation starts by simply rebooting the mobile computer. As soon as the network detects your phone, Hands-Free Activation (HFA) begins, and a series of notification messages appear. When activation is complete, a completion message appears and the WWAN radio reboots. The phone is ready to use.

Other providers require you to use the computer to make a phone call using a special number they provide. To activate the phone using this method, you would open the phone app 📱 and select the dial pad 📡. Enter the provider’s unique activation number (e.g., *228). Tap the phone icon to initiate the call. After a short wait, a message appears on the computer, confirming either success or failure of the activation. After successful activation, the phone is ready to use.
Make a Phone Call

Once the phone is activated, you can make a phone call.

1. Tap ✆ in the favorites tray to open the phone app.
2. Use one of the methods below to enter the telephone number you want to call.
   • Tap ☎ and use the on-screen dialer.
   • Select a person on your saved contact list 📞. 
   • Select a favorite on your speed dial list ★.
   • Select a number from the recent calls list 🕒.
3. Tap call ☎.
4. To end the call, tap ✆.

Answer the Phone

When you receive a phone call, the Incoming Call screen opens. If the caller telephone number is available, it appears on the screen. Depending on your calling plan, you may also see a Caller ID information. All incoming calls are recorded in the Call log. If you miss a call, you receive a notification.

1. On the Incoming Call screen, tap and hold the white call icon.
2. Three icons appear:
   • To answer the call, drag the icon to ✆.
   • To send the caller directly to voice mail, drag the icon to 🎤.
   • To send a text message back to the caller instead of answering, drag the icon to 📩.
Switch Apps During a Phone Call

You can multitask while a phone call is in progress. For example, you can use the Calendar app to check your schedule during a call.

**Note:** Depending on your WWAN connection and carrier, apps that need a data connection may be unable to access online data while the phone call is in progress. If simultaneous phone calls and data connections are not possible due to provider limitations, voice calls receive priority. Check with your provider for more information.

1. During a phone call the screen goes dark. Take the phone away from your ear to wake the screen. Tap the **Home** button.
2. Select another app (e.g., Calendar, Contacts). The phone icon appears in the status bar at the top of the screen while the call is connected.
3. To return to the call screen, swipe down from the top of the screen and select ongoing call notification or select Hang up if you want to end the call.

Make an Emergency Phone Call

You can use the phone to make an emergency phone call even if the SIM card is missing from your UMTS phone or if you do not have a valid CDMA account. The phone shows no service but the call still goes through if you dial certain emergency numbers (e.g., 112, 911, 000, 08, 118, 119, and 999).

Configure Phone Settings

You can customize settings for the phone, including the ringtone, voicemail options, keypad tones, Internet call settings, and other options.

1. Open the phone app 📞.
2. Tap ⌚ next to the microphone icon at the top of the screen.
3. Select **Settings**. The Call settings menu appears.
4. Change phone settings as necessary.

**Note:** Available settings vary depending on your cellular carrier and phone plan.
Use this chapter to learn how to take pictures and record videos with the color camera.

About the Color Camera

The CT40 comes equipped with a 13-megapixel color camera, 4K video with image stabilization, and advanced software features for enhanced exposure control for taking pictures and videos. The camera lens and flash are located on the back of the computer.

Use the Photos app to view photos and videos stored on the CT40. By default the photos and videos captured with the Camera app are saved on the computer under Internal shared storage\DCIM\Camera.

How to Zoom

The camera zoom is controlled using a pinching motion on the touch screen. Place two fingers on the screen at the same time, and then:

- spread them apart to zoom in (enlarge and object).
- pinch them together to zoom out.

Take a Photo

1. Tap the Snapdragon™ Camera icon in the favorites tray or press the Camera button on the left side of the computer.
2. Using the screen as a viewfinder, move the computer until you see the image you want to capture. The camera lens is located on the back of the computer.
3. The camera automatically adjusts the focus but you can tap the screen to modify the focal point. By default, the camera senses the lighting in the environment and turns the flash on, if needed.

4. Press the Camera button or tap 📸 to take a photo.
   - To view the picture, tap the preview near the bottom of the screen.
   - To return to the Camera app, tap the Back navigation button.

**Change Camera Settings**

You can change the camera settings for best results when taking pictures. The camera settings are adjustable from within the Snapdragon™ Camera app.

1. Open the Snapdragon Camera app 📷.
2. At the top of the screen, select any of the following to adjust the settings.

   ![Camera Settings]

   - **Scene Modes**
     Use preset setting profiles for best picture quality. Options include: Automatic, High Dynamic Range (HDR), OptiZoom, Portrait, Landscape, Sports
   - **Color Filters**
     Stylize your pictures by applying a filter. Options include: None, Mono, Sepia, Negative, Solarize, Posterize, Aqua, Emboss, Sketch, Neon
   - **HDR Mode**
     Tap to quickly toggle HDR mode on or off. When enabled, the computer automatically captures multiple photos and combines them into one photo creating the best quality image possible.
   - **Advanced Settings**
     Manually set advanced features. Options include: Flash, GPS location, Picture size, Picture quality, Countdown timer, Storage, Continuous shot, Face detection, ISO, Exposure, White balance, Chroma flash, Readeye reduction, and Shutter sound.
Record a Video

This section explains how to record video with the camera in the computer.

1. Tap the **Snapdragon Camera** icon in the favorites tray or press the **Camera** button on the left side of the computer.
2. Tap mode selection in the bottom right corner of the app.
3. Tap to select video.
4. Tap to begin recording video. To zoom in or out, pinch or spread your fingers apart.
5. When you are done recording, tap .

Change Video Settings

You can change the video settings for best results when recording video.

1. Open the **Snapdragon Camera** app.
2. Tap to select video.
3. At the top of the screen, select any of the following to adjust the settings.

- **Color Filter**
  Stylize your video by applying a filter. Options include: None, Mono, Sepia, Negative, Solarize, Posterize, Aqua, Emboss, Sketch, Neon.

- **Sound/Microphone**
  Tap to quickly toggle sound recording on or off.

- **Advanced Settings**
  Manually set advanced features. Options include: Flash, Video quality, Video duration, GPS location, Storage, White balance and Image stabilization.
Use this chapter to learn about the available methods for configuring your mobile computer. You can also use this chapter to learn how to configure network communications and wireless security.

How to Configure the Computer

You can configure many parameters on the computer such as the bar code symbologies it decodes or the network settings. The values you set for these parameters determine how the computer operates.

You configure the computer using the Settings app.

Start the Settings App

The Settings app is available from the all apps menu and the notification panel.
- Swipe up from the bottom of the Home screen to access all apps, and then tap Settings.
- OR
- Swipe down from the top of the Home screen, and then select ☰ in the status bar.

*Note:* To view a simplified settings menu without descriptions, swipe right from the left edge of the Settings screen.

About the Structure of the Settings App

Use this section to learn about the structure of the Settings app so you can find parameters quickly.

*Note:* The Settings app varies by computer model and OS version. Your computer may not include all the features outlined in this section.
When you open the Settings app, suggestions may appear at the top of the list.

- Tap ▼ or ▲ to expand or collapse the suggestion list.
- Tap a suggestion to open the settings screen or app relevant to the suggestion.
- Tap the , and then Remove to dismiss the suggestion.

### Wireless & networks

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
</table>
| WLAN                     | • Turn WLAN radio on or off.  
• Lists available Wi-Fi networks in range and the connection status when the radio is turned on.  
• Add a network Wi-Fi connection.  
• Tap 🎨 to view saved networks, turn public network notifications on or off, modify WLAN radio sleep settings, view MAC and IP address information.  
• Tap ⏯ to access advanced Wi-Fi options. |
| Bluetooth                | • Turn the Bluetooth radio on or off.  
• Lists Bluetooth enabled devices in range when the radio is turned on.  
• Connect to a Bluetooth Device.  
• Tap ⏯ to rename the computer and show received files. |
| Ethernet                 | • Turn Ethernet connection on and off.  
• Configure Ethernet connections and set up proxy settings when Ethernet setting is turned on. |
| Data usage               | • Manage mobile/cellular data usage.  
• View mobile or Wi-Fi data use statistics for the current data use cycle.  
• Turn the Data saver feature on or off.  
• Turn network restrictions for metered WLAN networks on or off. |
| More . . .                | Airplane  
• Turn Airplane mode on or off. |
| NFC                      | • Turn Near Field Communication (NFC) on or off.  
When the NFC radio is enabled, data exchanges are allowed when the computer touches another NFC enabled device.  
• Turn the Android Beam feature on or off.  
When NFC is enabled, this feature is accessible. You can beam app content to another NFC capable device by holding the devices close together. The app determines what content is transmitted to the other device. |
| Tethering & portable hotspot | • Enable or disable USB tethering or Bluetooth tethering for sharing mobile data connections.  
• Enable or Disable using the computer as a portable Wi-Fi hotspot.  
• Configure Wi-Fi hotspot. |
| VPN                      | Set the password parameters for a virtual private network (VPN) connection. |
### Cellular networks
Modify mobile network settings, including enabling data access and roaming over mobile networks, selecting access points and network operators, or selecting only 2G networks (to save battery life).

### Mobile plan
Provides information on your cell phone plan.

### Network settings reset
Use to reset all network settings including Wi-Fi, Bluetooth, and cellular data.

### Device

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Display</strong></td>
<td>Adjust display settings.</td>
</tr>
<tr>
<td></td>
<td>• Turn Adaptive brightness on or off or set the Brightness level manually if Adaptive brightness is turned off.</td>
</tr>
<tr>
<td></td>
<td>• Set the wallpaper and set screen saver.</td>
</tr>
<tr>
<td></td>
<td>• Set Sleep mode timeout length (minutes).</td>
</tr>
<tr>
<td></td>
<td>• Set screen font size and display size.</td>
</tr>
<tr>
<td></td>
<td>• Turn Ambient display on or off.</td>
</tr>
<tr>
<td></td>
<td>• Turn screen auto-rotation on or off.</td>
</tr>
<tr>
<td><strong>Notifications</strong></td>
<td>Tap an app to set the notification settings for only that app.</td>
</tr>
<tr>
<td></td>
<td>• Tap , and then On the lock screen to set what notifications appear on the lock screen (i.e., Don’t show notifications at all, Show all notification content, or Hide sensitive notification content)</td>
</tr>
<tr>
<td></td>
<td>• Tap , and then Reset app preferences to restore all app notification defaults.</td>
</tr>
<tr>
<td><strong>Sound</strong></td>
<td>Adjust volume levels for media, alarms, and rings (phone calls and notifications).</td>
</tr>
<tr>
<td></td>
<td>• Configure the Do not disturb feature.</td>
</tr>
<tr>
<td></td>
<td>• Set the phone ringtone and turn vibration during call ringing on or off.</td>
</tr>
<tr>
<td></td>
<td>• Set what emergency information you want to receive and how you want to receive it.</td>
</tr>
<tr>
<td></td>
<td>• Other Sounds: Turn sounds on or off for touch, charging, screen lock, and vibration on tap.</td>
</tr>
<tr>
<td><strong>Apps</strong></td>
<td>View a list of all apps installed on the computer or system services running.</td>
</tr>
<tr>
<td></td>
<td>• Tap , app configuration (e.g., permissions, links, defaults, power setting).</td>
</tr>
<tr>
<td></td>
<td>• Tap , to show or hide system services or to reset app preferences.</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>Shows the remaining amount of storage in IPSM card and Internal shared storage. If a microSD card is installed, storage amounts appear for the card.</td>
</tr>
<tr>
<td><strong>Battery</strong></td>
<td>View battery usage data and the current battery state.</td>
</tr>
<tr>
<td></td>
<td>• Access Battery Saver and Battery Optimization features.</td>
</tr>
<tr>
<td><strong>Memory</strong></td>
<td>View statistics about the average memory use and memory used by apps.</td>
</tr>
<tr>
<td>Setting</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-------------</td>
</tr>
</tbody>
</table>
| Users  | • Modify the owner profile name and add profiles other people who use the computer.  
• Activate a different user profile.  
• Tap Emergency information to enter emergency information for the active user profile. The information you enter may be used by first responders in an emergency. Anyone can read the information from the emergency dialer without unlocking the computer. |

### Personal

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
</table>
| Location | • Turn location services (Google and GPS satellite data) on or off.  
• Set location mode accuracy.  
• View location request history.  
• Tap :. Turn Wi-Fi and/or Bluetooth scanning on or off. When enabled system apps and services are allowed to detect Wi-Fi networks or Bluetooth devices at any time to improve location services. |
| Security | • Set device security settings (e.g., screen lock).  
• View phone encryption status.  
• Manage administrator privileges and enable/disable installation of apps from unknown sources.  
• Manage credentials and trusted agents.  
• Turn screen pinning on or off.  
• View app usage access. |
| Accounts | Add and manage Corporate or Email account on the computer.  
Tap :, and then turn auto-sync on or off for accounts. |
| Google | Set up and manage your Google accounts and services. |
| Language & input | • Set the active language.  
• Configure auto-typing features such as capitalization, punctuation, spell check, and the personal dictionary.  
• Set and manage Keyboard and input methods (Virtual and Physical).  
• Set text-to-speech output.  
• Adjusts the pointer speed. |
| Backup & reset | • Set data backup and restore options.  
• Perform an Enterprise data reset. To learn more, see About an Enterprise Data Reset on page 73.  
• Perform a Full factory reset. To learn more, see About a Full Factory Reset on page 74. |
<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Key Remap</td>
<td>Change (remap) a button or key function. To learn more, see <a href="#">Remap a Button on page 23.</a></td>
</tr>
<tr>
<td>Key WakeUp</td>
<td>Set the buttons you want to use to wake the computer from sleep mode. Options include: Left Scan, Right Scan, Volume Up, Volume Down. By default the Left and Right scan buttons are enabled for wake up.</td>
</tr>
<tr>
<td>Battery Monitor</td>
<td>View the battery charge status and battery information such as, overall battery health, internal temperature, and serial number.</td>
</tr>
<tr>
<td>Battery Optimizer</td>
<td>View battery status and app usage information. Create and enable or disable a battery optimization profile that implements a group of settings to conserve power. Options include:</td>
</tr>
<tr>
<td></td>
<td>• None When selected, no battery optimization profile is active.</td>
</tr>
<tr>
<td></td>
<td>• Energy Saver This pre-defined profile implements UI settings that optimize battery conservation.</td>
</tr>
<tr>
<td></td>
<td>• Add a Custom Profile Tap to create a custom battery profile that balances your application needs with energy saving settings. You can turn location services on or Off, configure sound and vibration options, modify brightness and timeout display options, turn UI transition animations on or off and background services on or off.</td>
</tr>
<tr>
<td>Smart sensors</td>
<td>Configures the integrated motion detection sensors for advanced power management. Options include: Keep awake on motion, Wake on motion, Face down suspend.</td>
</tr>
<tr>
<td>Battery LED</td>
<td>Configures the battery LED behavior. To learn more see, <a href="#">Change the Battery Status LED Behavior on page 8.</a></td>
</tr>
<tr>
<td>HXLogger</td>
<td>The HXLogger is an advanced diagnostic log service that provides a basic log service, plug-ins for modified log services, and a log manager. Options include: Tap HXLogger to turn the basic log service on or off. When enabled the service records app and system diagnostic troubleshooting information into four basic log files: main log file, radio log, event log, and kernel log. Tap Plugin to view and enable additional log services and custom plug-ins. Tap Manager, to change the default log path, delete logs or upload logs for technical support troubleshooting.</td>
</tr>
<tr>
<td>Scanning</td>
<td>Configure the computer imager. To learn more, see <a href="#">Change the Scanner Settings on page 32.</a></td>
</tr>
<tr>
<td>Provisioning Mode</td>
<td>Enable or disable unrestricted installation of applications, certificates, configuration files, and licenses. Provisioning mode is turned off by default. To learn more About Provisioning Mode, see page 68.</td>
</tr>
<tr>
<td>Staging Hub Agent</td>
<td>Use this agent and settings to connect the computer to the Honeywell Staging Hub Foundation software platform; a centralized software platform IT integrators and administrators can use as a solution for managing, monitoring and deploying Honeywell devices in a connected workspace environment.</td>
</tr>
</tbody>
</table>
About Network Communications

You can easily add the mobile computer to your wireless or wired data collection network. Connect the CT40 your computer using:

- 802.11 a/b/g/n/ac radio communications.
- Ethernet communications.
- Bluetooth communications.
- USB and serial communications.

Connect to a Wi-Fi Network

The computer contains an 802.11 a/b/g/n/ac radio to transfer data using wireless communications. Before you connect to a Wi-Fi network, you need to know about your network security protocol and its required credentials.

By default, the 802.11 radio is disabled.

1. Swipe up from the bottom of the Home screen to access all apps.

2. Tap **Settings** > **WLAN**.

3. Tap the toggle button to turn the Wi-Fi radio **On** 🔴. A list of discovered networks appears.

---

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Web Applications</td>
<td>Enables access for the Honeywell Mobility SDK for Web apps and lets you set a port.</td>
</tr>
<tr>
<td>Digital Scan Button</td>
<td>Enable and configure the optional digital scan button. To learn more, see About the Optional Digital Scan Button on page 37.</td>
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<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
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<tbody>
<tr>
<td>Date &amp; time</td>
<td>Configure all date and time settings</td>
</tr>
<tr>
<td>Scheduled power on and off</td>
<td>Configure the computer to automatically turn on and/or off. Select time and event frequency.</td>
</tr>
<tr>
<td>Accessibility</td>
<td>Set accessibility levels, such as larger display text and enabling text-to-speech output.</td>
</tr>
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<td>Printing</td>
<td>Configure print options.</td>
</tr>
<tr>
<td>Developer options</td>
<td>Enable developer-specific options such as USB debugging and SD card protection. This option only Developer appears under System settings if you enable the feature. To learn more, see Unlock Developer Options on page 29.</td>
</tr>
<tr>
<td>About phone</td>
<td>View device-specific information including the model number, phone number, operating system version, software patch version, radio versions, build number and legal information.</td>
</tr>
</tbody>
</table>
4. On the list, tap a network name to initiate a connection.

To add a network if it does not appear on the list:

a. Navigate to the end of the discovered network list, and then tap Add network.
b. Type the Wi-Fi network name (SSID).
c. Choose a security protocol and add any required information.
d. Tap Save.

5. Enter any required information if the network is secured (e.g., password, key or certificate name).

6. Tap Connect.

Once you connect to a saved Wi-Fi network:

- Tap the network name on the list to view details (e.g., status, signal strength, speed, frequency, security type). Select Cancel to close details screen.
- The computer automatically connects to the same network when the network is in range and the WLAN radio is turned on.
- To remove a network from your saved list, tap and hold the network name and select Forget network. You can do this for networks you no longer use.
- To modify a network from your saved list, tap and hold the network name and select Modify network. You can do this if you changed your network password.
- To view a list of only your saved networks, tap , and then select Saved networks.

Configure Proxy Settings for a Wi-Fi Network

If you need to connect to network resources through a proxy server, you can configure settings for the proxy server for each Wi-Fi network you add. By default, the Wi-Fi networks you add are not configured to connect through a proxy server.

Note: Proxy settings apply only to the Wi-Fi network you modify. You must change proxy settings for each network requiring a proxy server.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap Settings > WLAN. The list of available Wi-Fi networks appears.
3. Tap and hold the name of a connected network, and then tap Modify network.
4. Tap Advanced options.
5. Under Proxy, tap None to open menu, and then select Manual.
6. Enter the proxy settings for the network.
7. Tap Save.
Disable Wi-Fi Notifications and Set WLAN Radio Sleep Parameter

By default, when Wi-Fi is enabled, you receive notifications in the Status bar when the computer discovers a wireless network. You can disable these notifications.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap Settings > WLAN. Verify the WLAN radio is turned on.
3. Tap Gear. The Configure Wi-Fi menu appears.
4. Select a setting to modify:
   • Tap the Network notification to toggle the setting on or off.
   • Tap Keep WLAN on during sleep, and then select either Always, Only when plugged in or Never.

Connect to an Ethernet Network

To connect the computer to an Ethernet network, you need an CT40 Ethernet Home Base or CT40 Net Base.

1. Make sure the base is connected to your Ethernet network.
2. Place the computer in the base.
3. Swipe up from the bottom of the Home screen to access all apps.
4. Tap Settings > Ethernet. The Ethernet setting is turned On by default.
5. Tap Ethernet.
   The Ethernet connection screen shows the current Ethernet connection. By default, the computer assumes a DHCP connection, and that your network has assigned an IP address automatically. If DHCP is working, the Ethernet base should indicate that communication with the network is occurring.
6. (Optional) To assign a static IP address.
   a. Tap DHCP and then select Static from the list.
   b. Enter the required network information, and then tap Apply.
7. Tap Save.

How to Connect to Virtual Private Networks

The computer supports connecting to virtual private networks (VPNs). This section describes how to add and connect to VPNs. To configure VPN access, you must obtain details from your network administrator. You view and change VPN settings in the Settings app.

Note: Before you can add or connect to a VPN network, you must enable a screen lock method.
Add a VPN

Before you can connect to a VPN, you must create a VPN profile.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap Settings > More > VPN.
3. Tap + to add a VPN new profile.
4. Enter the required information for the VPN connection. If needed, swipe up on the screen to access all the required information fields.
5. Tap Save. The VPN name appears in the VPN list.

Connect to a VPN

Once a VPN profile is created, you can connect to the VPN at any time.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap Settings > More > VPN.
3. Tap the name of the VPN in the list.
4. Enter any necessary credentials when prompted.
5. Tap Connect.
   A 🔄 appears in the status bar and a notification is received.
   To disconnect from the VPN, tap the notification.

Edit VPN Information

Editing an existing VPN profile be done from the VPN screen.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap Settings > More > VPN.
3. Tap and hold the name of the VPN in the list.
4. Tap ⚙ to the right of the VPN profile you want to edit.
5. Edit the VPN settings as necessary.
6. When you are done, tap Save.
About Wireless Security

The computer provides these security solutions for your wireless network:

- Wi-Fi Protected Access 2 (WPA2™)
- Wi-Fi Protected Access (WPA)
- 802.1x

Honeywell recommends WPA2 security with PSK (Personal) or 802.1x (Enterprise) key management.

Before you set security, you need to enable the radio, set the date, and set the SSID on your computer. To use 802.1x security, you need to load a root certificate on your computer. To use transport layer security (TLS) with 802.1x security, you also need to load a user certificate.

Use the Settings app to access and configure all wireless security settings.

About Certificates

You can use digital certificates to identify the computer for network access or authentication to servers. To use a certificate to identify your device, you must install it in the trusted credential storage on the computer.

Android supports DER-encoded X.509 certificates saved in files with a .crt or .cer file extension. To install a valid certificate with a .der or other extension, you must change the extension to .crt or .cer to install it.

Android also supports X.509 certificates saved in PKCS#12 key store files with a .p12 or .pfx extension. To install a valid key store file with another extension, you must change the extension to .p12 or .pfx to install it. When you install a certificate from a PKCS#12 key store, Android also installs any accompanying private key or certificate authority certificates.

Load a Certificate

To use a certificate, you must install it in the trusted credential storage on the computer.

**Note:** Apps such as email and browsers that support certificates allow you to install certificates directly from within the app. For more information, see the help that comes with the app.

1. Copy the certificate or key store from your PC to the mobile computer.
2. Swipe up from the bottom of the Home screen to access all apps.
3. Tap **Settings** > **Security**.
4. Tap **Install from storage**. Navigate to the location where you saved the certificate or key store.
5. Tap the certificate or key store to install it. If prompted, enter the key store password and tap OK.
6. Select VPN and apps or Wi-Fi.
7. Enter a name for the certificate and tap OK.

### Disable or Remove Certificates

If a user or system certificate is compromised, or your organization chooses not to trust it, you can disable or remove the certificate.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap Settings > Security > Trusted credentials.

   The trusted credentials screen has two tabs:
   - System shows Certificate Authorities (CA) certificates permanently installed on the computer. They can only be disabled.
   - User shows CA certificates you have installed yourself. You can remove these certificates.
3. Tap the name of the certificate to you want to disable or remove. The Security certificate screen appears.
4. Scroll to the bottom of the screen and tap Disable (for System certificates) or Remove (for User certificates).
5. Tap OK.

**Note:** You can enable a disabled System certificate but if you remove a User certificate, you must install it again to enable it.

### About Bluetooth Communications

Your mobile computer is equipped to communicate with other devices using Bluetooth technology. The Bluetooth radio must be turned on to discover, pair and connect to other Bluetooth devices. System bar icons indicate Bluetooth radio status.

### Connect a Bluetooth Device

To connect to a Bluetooth device, you must turn on the Bluetooth radio and then select the device from a list of discovered devices.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap Settings > Bluetooth.
3. If necessary, tap the toggle button to turn the Bluetooth radio **On**. A list of available Bluetooth devices appears.

4. Select a device on the list to initiate a pairing request.

5. A pairing notification appears on one or both devices. Verify the PIN numbers match or if prompted, enter a **PIN** number.

6. Tap **Pair**. When the device is successfully paired with the computer, the device name appears under Paired devices.

7. (Optional) Once paired to a device, you can connect manually to the device. Tap the device under Paired devices. The word “Connected” appears under the paired device name.

   The status icon changes from 📡 to 📡.

**Note:** To disconnect a paired device, tap the name of the paired device and then tap **OK** when the “Disconnect?” screen appears.
Rename the Computer and View File History

You can change the name of the computer to make it easier to identify when pairing with other Bluetooth enabled devices and view statistics about received files.

1. Swipe up from the bottom of the Home screen to access all apps.

2. Tap **Settings** > **Bluetooth**.

3. Tap , and then select a one of the following options:
   - Tap **Rename this device** to change the device name. Type the new name and then tap **Rename**.
   - Tap **Show received files** to view statistics on the received files.

Rename or Unpair a Paired Device

You can rename a paired device to make it easier to identify on the list or unpair the device to remove it from the paired list.

1. Swipe up from the bottom of the Home screen to access all apps.

2. Tap **Settings** > **Bluetooth**.

3. Tap next to the paired device.

4. Take one of the following actions:
   - To rename the device, type the new name, and then tap **OK**.
   - To allow **Internet connection sharing** or **Contact Sharing**, tap the check box next to the setting.
   - To unpair the device, tap **Forget**.

About Serial and USB Communications

You can use these optional Dolphin CT40 series accessories to transmit data to and receive data from another device through serial or USB communications:

- Standard Home Base
- Ethernet Home Base
- USB snap-on adapter
USB Troubleshooting

- If you have a problem with your workstation computer recognizing the USB device, try downloading and installing the Honeywell-aidc-usb-driver. The driver is part of the Honeywell_Mobility_SDK_Android software.zip file. To learn where to get the software, see Developer Information on page 67.

- Check to make sure you have enabled the USB for file transfer. To learn more, see Configure USB Connection and Transfer Files on page 18.

How to Share Your Mobile Data Connection

You can share the mobile data connection through USB tethering or Bluetooth tethering. You can also use the computer as a Wi-Fi hotspot to share the connection with other devices.

Share the Data Connection Through USB or Bluetooth

You can share your data connection with another device through tethering. After you connect the computer to another device through a USB connection, you can share the mobile computer’s data connection through USB tethering. Or, if the device is Bluetooth-capable, you can configure the mobile computer to share the data connection with the device through Bluetooth tethering.

1. Connect the mobile computer to another device through a USB connection using a Dolphin CT40 series accessory.
2. Swipe up from the bottom of the Home screen to access all apps.
3. Tap Settings > Bluetooth > More.
4. Tap Tethering & portable hotspot.
5. Tap the type of tether to initiate:
   - Tap USB tethering to enable the connection.
   - Tap Bluetooth tethering to enable the connection.
   The device is now sharing the computer data connection.
6. To stop sharing the connection, disconnect the USB cable, or tap USB tethering or Bluetooth tethering again to turn off the feature.
About Near Field Communication (NFC)

NFC technology provides the ability for short-range, wireless data transfer between the CT40 and NFC tags or other NFC enabled devices placed in close proximity to the back of the computer. All CT40 mobile computers support the following modes of operation:

• **NFC tag reader/writer mode:** The computer reads and/or writes digital information from or to an NFC tag.

• **Peer-to-Peer (P2P) mode:** The computer uses Android Beam and/or Bluetooth technology to transfer screen content (e.g., a picture, contact information, Web page URL, or file) between NFC enabled devices.

• **NFC card emulation mode:** The computer emulates an NFC card (smart card) that an external card reader can access. You can download and install apps for card emulation mode from the Google Play™ store. Some examples include digital wallets (e-wallets) offered by your bank or credit card company and Google Pay™. The app you install determines the type of emulation mode used: Card Emulation with a Secure Element or Host-based Card Emulation. Secure element use is common for financial transactions that require a high level of security in order to provide a secure memory and execution environment for running custom smart card applets and storing your personal information (e.g., account information and credentials).

  *Note:* When using a Universal Integrated Circuit (UICC) card for NFC Secure Element NFC link encryption, install the card in SIM slot 1.

Developer Information

To download the Honeywell Mobility SDK for Android and EZConfig for Mobility:

1. Go to [www.honeywellaidc.com](http://www.honeywellaidc.com).
2. Select **Get Resources > Software**.
4. Create an account if you have not already created one. You must login to download the software.
5. Install the **Honeywell Download Manager** tool on your workstation (e.g., laptop or desktop computer) prior to trying to download any files.
6. Navigate to the software:

   • **Honeywell Mobility SDK for Android**
     Click on **Software > Software and Tools > Developer Library > SDKs for Android**.

   • **EZConfig for Mobility**
     Click on **Software > Software and Tools > EZConfig for Mobility**.
7. Select **Download** next to the software zip file.

**About Provisioning Mode**

Once you complete the out-of-box initial setup process, Provisioning mode is automatically turned off to improve device security against unwanted modifications to the system.

When Provisioning mode is turned off (disabled):

- Configuration bar codes do not scan and process.
- \honeywell\autostart folders are inaccessible.

**Note:** To learn more about network and security for Honeywell mobile computers with Android operating systems, go to [www.honeywellaidc.com](http://www.honeywellaidc.com).

**Enable or Disable Provisioning Mode**

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings** > **Provisioning mode** under **Honeywell Settings**.
3. Tap the button to toggle the provisioning **On** or **Off**.
Use this chapter to understand how to upgrade software, reset and maintain the computer.

About Software Updates

Honeywell provides patches and security updates for existing software products at no additional charge. Software upgrades (from one major version to another) may involve additional charges. Some licensed software that Honeywell distributes requires user registration and log in before the software can be downloaded.

Support for Honeywell Safety and Productivity Solutions products is available online through the Technical Support Portal.

Software downloads can be accessed through the Technical Support Downloads Portal.

2. Select Get Resources > Software.
4. Create an account if you have not already created one. You must login to download the software.
5. Install the Honeywell Download Manager tool on your workstation (e.g., laptop or desktop computer) prior to trying to download any files.
6. Locate the app or upgrade you want to download in the Software directory tree.
7. Select Download. Follow the prompts to download the file.

About Transferring Files via USB Connection

If you plan on using a USB connection to transfer files to the mobile computer, make sure you set the USB connection to allow file transfers. To learn more, see Configure USB Connection and Transfer Files on page 18.
Install Software Apps with AutoInstall

**Important:** The Dolphin CT40 must have power for the entire length of the install process or it could become unstable. Do not attempt to remove the battery during the process.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings** > **Provisioning mode** under **Honeywell Settings**.
3. Tap the toggle button to turn Provisioning mode **On**.
4. Save the Android application file (*.apk) in one of the following folders on the CT40 mobile computer:
   - **Internal shared storage\honeywell\autoinstall**
     Files saved to this folder for installation, do not persist when a Full factory reset or Enterprise data reset is performed.
   - **IPSM card\honeywell\autoinstall**
     Files saved to this folder for installation, do not persist when a Full factory reset is performed. However, the software does persist if an Enterprise data reset is performed.
5. Swipe up from the bottom of the Home screen to access all apps.
6. Tap **AutoInstall Settings** and verify **Autoinstall** is enabled.
7. Tap **Packages Update** from the AutoInstall Settings screen.
   If required by the app, the computer may automatically initiate a reboot before starting the installation process. When the installation is finished, a message appears or the unit finishes rebooting and the lock screen appears.
8. Once installation is complete, turn Provisioning mode **Off**.

Optional microSD Card Method

The CT40 comes equipped with a microSD card socket. You can install an apps from a microSD card you insert in the computer.

**Important:** The Dolphin CT40 must have power for the entire length of the install process or it could become unstable. Do not attempt to remove the battery during the process.

1. On the CT40, swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings** > **Provisioning mode** under **Honeywell Settings**.
3. Tap the toggle button to turn Provisioning mode **On**.
4. Tap **AutoInstall Settings**. Verify **Autoinstall** is enabled.
5. Press and hold the **Power** button, and then tap **Power off**.
6. On your workstation (e.g., laptop, desktop computer), format the microSD card and create a `\honeywell\autoinstall` folder on the root of the card.

7. Save the Android application file (*.apk) in the `autoinstall` folder.

8. Install the microSD card in the CT40, and then turn on the computer.

   The computer automatically identifies the file in the autoinstall folder on the card and initiates the installation process. When the installation is finished, the lock screen appears.

9. Once installation is complete, turn Provisioning mode **Off**.

---

**About the Honeywell Upgrader**

Use the Honeywell Upgrader app (HUpgrader) to check for and install OTA updates, and view the current OTA version installed on the computer.

**View the Installed OTA Version**

1. Swipe up from the bottom of the Home screen to access all apps.

2. Tap **HUpgrader** 🔄 to open the Honeywell Updater app. The OTA version installed on the computer appears on the screen.
Install OTA Updates

To use the HUpgrader to install an OTA update file downloaded from the Technical Support Downloads Portal:

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings** \(\Rightarrow\) **Provisioning mode** under **Honeywell Settings**.
3. Tap the toggle button to turn Provisioning mode **On**.
4. Save the OTA file (*.zip) the following folder on the CT40 computer:
   
   **Internal shared storage\Download**

5. Tap **HUpgrader** \(\Rightarrow\) to open the Honeywell Updater app.
6. Tap \(\Rightarrow\), and then tap **Select OTA from storage**.
7. Select the storage location (i.e., Internal Storage) where you saved the file.
8. Tap the OTA update file. The computer examines the file, and then starts the installation.

9. Once the installation is complete (100%), select **OK** when prompted to **Reboot** the computer. The computer reboots and finishes the update.
Reboot (Restart) the Computer

You may need to reboot the computer to correct conditions where an application stops responding to the system.

1. Save your files and close any open applications.
2. Press and hold the **Power** button until the options screen appears.
3. Tap **Reboot**.
4. Tap **OK** to confirm Reboot. The computer reboots.

If the touch panel display is unresponsive:
- Press and hold the **Power** button for approximately 8 seconds until the computer reboots.

About an Enterprise Data Reset

You can perform an Enterprise data reset if a Reboot did not improve the condition and all other troubleshooting methods have not resolved the issue. This method provides a clean configuration for troubleshooting by erasing all data from the Internal shared storage location on the computer. Data is not erased from the IPSM Card location.

**Caution:** An Enterprise data reset results in data loss, only perform this procedure if all other recovery methods have failed. All personal content is erased including, but not limited to emails, pictures, contacts, Google account information, system settings and app settings.

**Note:** *This method of recovery may not be available if your system administrator has set policies to prevent the reset use.*

Before You Begin

- If you recently reset your Google Account password, wait 24 hours before performing a Enterprise data reset.
- Make sure you have your screen lock password, PIN or pattern if you activated one. You will need this to reset the computer.
- If you have a Google Account, back up your data and settings to your Google Account so you can restore them if needed.
- Connect the computer to an external power source or make sure you have a full battery charge.
- Make sure you have an Internet connection.
Enterprise Data Reset the Computer

1. Swipe up from the bottom of the Home screen to access all apps.
2. Select Settings > Backup & reset.
3. Tap Enterprise data reset.
4. Tap Reset Phone.
5. If prompted, type your screen lock security pattern, PIN, or password and tap next ( ).
6. Tap Erase Everything. A message appears informing you an Enterprise data reset is being performed.

About a Full Factory Reset

A full factory reset should only be performed if you have exhausted all other troubleshooting options. This method reverts the computer back to the factory state by erasing all data in Internal shared storage and the IPSM Card storage locations on the computer.

Caution: A Full factory reset results in data loss. Perform this procedure only if all other recovery methods have failed and have no other option. All personal content is erased including, but not limited to emails, pictures, contacts, Google account information, system settings and app settings.

Note: This method of recovery may not be available if your system administrator has set policies to prevent the reset use.

Before You Begin

- If you added a Google Account to the 75 Series computer, make sure you have your Google username and password associated with the computer. If you do not have the username and password, you will not be able to use the computer after the reset. This is a security measure that prevents unauthorized users from using the device if they try a Full factory reset.
- If you did not add a Google Account to the computer, the extra security level is not enabled and you will not need a Google username and password.
- If you recently reset your Google Account password, wait 24 hours before performing a Full factory reset.
- Connect the computer to an external power source or make sure you have a full battery charge.
- Make sure you have an Internet connection.
Full Factory Reset the Computer

1. Swipe up from the bottom of the Home screen to access all apps.

2. Select **Settings** > **Backup & reset**.

3. Tap **Full factory reset**.

4. Tap **Reset Phone**.

5. If prompted, type your screen lock security pattern, PIN, or password and tap **next**.

6. Tap **Erase Everything**. A message appears informing you an Enterprise data reset is being performed.

Clean the Computer

To keep the computer in good working order, you may need to clean the scanner window, color camera window, and the touch screen. Clean the windows and the touch screen as often as needed for the environment in which you are using the computer. The computer withstands application of the following cleaning agents when applied to a clean soft cloth and removed immediately with a dry soft cloth:

- Acetic acid, 10% in water
- Ethyl alcohol, 10% in water
- Mild soap solutions

**Note:** Always leave the battery installed when you clean the computer.

1. Press the **Power** button to suspend the computer.
2. Dip a clean cloth towel in the cleaning agent and wring out the excess.
3. Wipe off the scanner window, camera lens, and flash area. Do not allow any abrasive material to touch these surfaces.
4. Wipe dry.
5. Let the computer completely air dry before using again.
Computer Agency Information

Dolphin CT40 mobile computers meet or exceed the requirements of all applicable standards organizations for safe operation. The best way to ensure safe operation is to use the mobile computer according to the agency guidelines on the product regulatory sheet, quick start guide, battery insert and in this user guide. Read all guidelines before using your computer.

Product documentation is available for download from www.honeywellaidc.com.

Public certificates are available for download from www.honeywellaidc.com/compliance.

Label Locations

Labels inside the battery compartment contain information about the computer including, compliance information, model number, serial number, IMEI number (CT40-L1N models only) and MAC address. Laser safety labeling is located on the back of the computer.

Model Dependent Identification Numbers (e.g. Serial Number, IMEI, MEID, MAC address)
Physical and Environmental Specifications

2. Type CT40 in the Search box and then press Enter.
3. Locate the Products tab.
4. Click the red arrow under the Dolphin CT40 Handheld Computer description.
5. Select one of the following:
   - Specifications
     View System Architecture, Wireless Connectivity, Mechanical, and Environmental specifications.
   - Documents

Imager Specifications

The Dolphin CT40 series offers two Honeywell high-performance imager options:
- N6603 Slim Imager Engine
- N3601 Imager Engine

Bar Code Symbologies

The computer supports the following bar code symbologies:

<table>
<thead>
<tr>
<th>1D Symbologies</th>
<th>2D Symbologies</th>
<th>Postal Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Default</td>
<td>Default</td>
<td>Default</td>
</tr>
<tr>
<td>Codabar</td>
<td>Enabled</td>
<td>Aztec Code</td>
</tr>
<tr>
<td>Code 39</td>
<td>Enabled</td>
<td>Codablock A</td>
</tr>
<tr>
<td>Code 11</td>
<td>Disabled</td>
<td>Codablock F</td>
</tr>
<tr>
<td>Code 32</td>
<td>Disabled</td>
<td>DataMatrix</td>
</tr>
<tr>
<td>Code 93</td>
<td>Disabled</td>
<td>DotCode</td>
</tr>
<tr>
<td>Code 128</td>
<td>Enabled</td>
<td>Grid Matrix</td>
</tr>
<tr>
<td>Composite</td>
<td>Disabled</td>
<td>HanXin</td>
</tr>
<tr>
<td>EAN-8</td>
<td>Enabled</td>
<td>Maxicode</td>
</tr>
<tr>
<td>EAN-13</td>
<td>Enabled</td>
<td>Micro PDF 417</td>
</tr>
<tr>
<td>GS1-128</td>
<td>Enabled</td>
<td>PDF 417</td>
</tr>
<tr>
<td>GS1 DataBar</td>
<td>Disabled</td>
<td>QR Code</td>
</tr>
<tr>
<td>IATA 2 of 5</td>
<td>Disabled</td>
<td>TLC 39</td>
</tr>
</tbody>
</table>
Note: To learn about changing the symbology settings, see Change the Scanner Settings on page 32.

### N6603 Slim Imager Engine Reading Distances

Note: Time to Read and Depth of Field are impacted if the bar code symbol is at the edge of the image.

#### Guaranteed Specs

<table>
<thead>
<tr>
<th>Symbology</th>
<th>Near Distance (in/cm)</th>
<th>Far Distance (in/cm)</th>
<th>Delta (in/cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 mil Code 39/128</td>
<td>3.6 (9.1)</td>
<td>5.6 (14.2)</td>
<td>2.0 (5.1)</td>
</tr>
<tr>
<td>10 mil Code 39/128</td>
<td>1.9 (4.8)</td>
<td>12.0 (30.5)</td>
<td>10.1 (25.6)</td>
</tr>
<tr>
<td>100% UPC</td>
<td>2.1 (5.3)</td>
<td>15.1 (38.1)</td>
<td>12.9 (32.7)</td>
</tr>
<tr>
<td>6.7 mil PDF 417</td>
<td>2.5 (6.4)</td>
<td>6.6 (16.7)</td>
<td>4.1 (10.4)</td>
</tr>
<tr>
<td>10 mil DataMatrix/Aztec</td>
<td>2.9 (7.4)</td>
<td>7.3 (18.5)</td>
<td>4.4 (11.1)</td>
</tr>
</tbody>
</table>

#### Typical Specs

<table>
<thead>
<tr>
<th>Symbology</th>
<th>Near Distance (in/cm)</th>
<th>Far Distance (in/cm)</th>
<th>Delta (in/cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 mil Code 39/128</td>
<td>2.5 (6.4)</td>
<td>6.4 (16.3)</td>
<td>3.9 (9.9)</td>
</tr>
<tr>
<td>10 mil Code 39/128</td>
<td>1.1 (2.8)</td>
<td>13.0 (33.0)</td>
<td>11.9 (30.2)</td>
</tr>
<tr>
<td>100% UPC</td>
<td>1.8 (4.6)</td>
<td>16.5 (41.9)</td>
<td>14.7 (37.3)</td>
</tr>
<tr>
<td>6.7 mil PDF 417</td>
<td>1.8 (4.6)</td>
<td>7.3 (18.5)</td>
<td>5.5 (14.0)</td>
</tr>
<tr>
<td>10 mil DataMatrix/Aztec</td>
<td>2.1 (5.3)</td>
<td>8.0 (20.3)</td>
<td>5.9 (15.0)</td>
</tr>
</tbody>
</table>
### N6603 Slim Imager Engine Field of View/Resolution

<table>
<thead>
<tr>
<th>Focus</th>
<th>Standard Range (SR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horizontal Field Angle (degrees)</td>
<td>±21.2 ±3.5°</td>
</tr>
<tr>
<td>Vertical Field Angle (degrees)</td>
<td>±16.5 ±3.5°</td>
</tr>
</tbody>
</table>

**Note:** **DPI can be calculated based on the following formula:**

- **Horizontal DPI = 832 pixels/width of horizontal field of view (inches)**
- **Vertical DPI = 640 pixels/width of vertical field of view (inches)**

### N3601 Imager Engine Reading Distances

**Note:** **Time to Read and Depth of Field are impacted if the bar code symbol is at the edge of the image.**

**Guaranteed Specs**

<table>
<thead>
<tr>
<th>Focus</th>
<th>Standard Range (SR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Symbology</td>
<td>Near Distance</td>
</tr>
<tr>
<td></td>
<td>(in/cm)</td>
</tr>
<tr>
<td>100% UPC-A</td>
<td>2.4 (6.2)</td>
</tr>
<tr>
<td>5 mil Code 39</td>
<td>3.1 (9.7)</td>
</tr>
<tr>
<td>10 mil Code 39</td>
<td>1.2 (3.1)</td>
</tr>
<tr>
<td>20 mil Code 39</td>
<td>2.6 (6.5)</td>
</tr>
<tr>
<td>15mil Code 128</td>
<td>2.4 (6.0)</td>
</tr>
<tr>
<td>6.7 mil PDF 417</td>
<td>2.5 (6.3)</td>
</tr>
<tr>
<td>15 mil QR</td>
<td>2.4 (6.0)</td>
</tr>
</tbody>
</table>

**Typical Specs**

<table>
<thead>
<tr>
<th>Focus</th>
<th>Standard Range (SR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Symbology</td>
<td>Near Distance</td>
</tr>
<tr>
<td></td>
<td>(in/cm)</td>
</tr>
<tr>
<td>100% UPC-A</td>
<td>2.4 (6.0)</td>
</tr>
<tr>
<td>5 mil Code 39</td>
<td>3.0 (7.5)</td>
</tr>
<tr>
<td>10 mil Code 39</td>
<td>1.2 (3.1)</td>
</tr>
<tr>
<td>20 mil Code 39</td>
<td>2.6 (6.5)</td>
</tr>
<tr>
<td>15mil Code 128</td>
<td>2.4 (6.0)</td>
</tr>
<tr>
<td>6.7 mil PDF 417</td>
<td>2.5 (6.3)</td>
</tr>
<tr>
<td>15 mil QR</td>
<td>2.0 (5.0)</td>
</tr>
</tbody>
</table>
# N3601 Imager Engine Field of View/Resolution

<table>
<thead>
<tr>
<th>Focus</th>
<th>Standard Range (SR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horizontal Field Angle (degrees)</td>
<td>±24.5 ±1.5°</td>
</tr>
<tr>
<td>Vertical Field Angle (degrees)</td>
<td>±18.5 ±1.5°</td>
</tr>
</tbody>
</table>

**Note:** DPI can be calculated based on the following formula:

- Horizontal DPI = 832 pixels/width of horizontal field of view (inches)
- Vertical DPI = 640 pixels/width of vertical field of view (inches)