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Patents

For patent information, refer to www.hsmpats.com.
# TABLE OF CONTENTS

Customer Support ........................................................................................................................ ix
Technical Assistance ................................................................................................................... ix
Product Service and Repair ....................................................................................................... ix
Limited Warranty ....................................................................................................................... ix

## Chapter 1 - About the Computer Features ................................................................. 1

- About the Mobile Computer .............................................................................................. 1
  - EDA51 Model Overview ................................................................................................. 2
  - Features of the EDA51 ................................................................................................. 3
- About the Battery .................................................................................................................. 4
  - Battery Part Numbers .................................................................................................. 5
  - Charge the Battery Before Use .................................................................................. 5
  - Replace the Battery ..................................................................................................... 6
- About the Battery Status ...................................................................................................... 8
  - About the Battery Status LED Setting ...................................................................... 9
  - Check the Battery Level and Usage ........................................................................... 10
  - About Battery Life and Conservation ...................................................................... 10
  - Battery Recommendations and Safety Protections .................................................. 11
  - Enable Airplane Mode ............................................................................................... 11
- Power on the Computer ...................................................................................................... 12
  - Welcome Screen .......................................................................................................... 12
- Unlock the Screen ............................................................................................................. 12
- Change the Screen Lock to Protect the Computer ......................................................... 13
- Configure the Screen Backlight ..................................................................................... 13
- About the Scan Status LED ............................................................................................ 14
### About Audio Features
- Adjust Speaker Volume ................................................................. 14
- Enable Vibrate Mode or Do Not Disturb ........................................ 15
- Audio/Sound Settings ..................................................................... 15

### Insert a microSD Card
- How to Transfer Files .................................................................... 17
  - Configure USB Connection and Transfer Files .............................. 17
- Accessories for the Computer ......................................................... 17

### Chapter 2 - About the User Interface and Applications .............. 19

- About the User Interface ................................................................. 19
  - Navigation and Function Buttons .................................................. 20
- About Status Bar Icons .................................................................... 21
  - Remap a Button .............................................................................. 21
  - Restore Default Button Action ....................................................... 22
  - Key WakeUp .................................................................................... 22
- View and Manage Notifications ....................................................... 23
- Open Quick Settings ....................................................................... 23
- Customize the Home Screen ............................................................ 24
- Customize the Favorites Tray ............................................................. 24
- Use Google™ Search ....................................................................... 24
- About Screen Gestures .................................................................... 25
- Set the Time Zone ............................................................................ 25

- About Honeywell Applications ....................................................... 26
  - Applications You Can Download to the Mobile Computer .......... 27
  - About Honeywell Enterprise Browser .......................................... 28
  - About Terminal Emulators ............................................................ 28
  - About Honeywell Launcher ............................................................. 28
- Unlock Developer Options ................................................................. 29

### Chapter 3 - Use the Image Engine ............................................ 31

- About the Image Engine ................................................................. 31
- About the Scan Wedge Feature ......................................................... 31
# EDA51 User Guide

<table>
<thead>
<tr>
<th>Chapter 4 - Use the Phone</th>
<th>43</th>
</tr>
</thead>
<tbody>
<tr>
<td>About the Phone</td>
<td>43</td>
</tr>
<tr>
<td>Activate the Phone</td>
<td>43</td>
</tr>
<tr>
<td>Make a Phone Call</td>
<td>44</td>
</tr>
<tr>
<td>Answer the Phone</td>
<td>45</td>
</tr>
<tr>
<td>Switch Apps During a Phone Call</td>
<td>45</td>
</tr>
<tr>
<td>Make an Emergency Phone Call</td>
<td>45</td>
</tr>
<tr>
<td>Configure Phone Settings</td>
<td>46</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chapter 5 - Use the Camera</th>
<th>47</th>
</tr>
</thead>
<tbody>
<tr>
<td>About the Color Camera</td>
<td>47</td>
</tr>
<tr>
<td>How to Zoom</td>
<td>47</td>
</tr>
<tr>
<td>Take a Photo</td>
<td>47</td>
</tr>
<tr>
<td>Record a Video</td>
<td>48</td>
</tr>
<tr>
<td>Change Camera Settings</td>
<td>48</td>
</tr>
<tr>
<td>Use the Camera as a Flashlight</td>
<td>49</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chapter 6 - Configure the Computer</th>
<th>51</th>
</tr>
</thead>
<tbody>
<tr>
<td>How to Configure the Computer</td>
<td>51</td>
</tr>
</tbody>
</table>
Install OTA Updates ..............................................................................................................74
Reboot (Restart) the Computer ..............................................................................................75
About an Enterprise Data Reset.............................................................................................76
  Before You Begin..................................................................................................................76
  Enterprise Data Reset the Computer .............................................................................76
About Full Factory Reset .........................................................................................................77
  Before You Begin..................................................................................................................77
  Full Factory Reset the Computer .....................................................................................77
Repairs..............................................................................................................................................78
Maintenance ..................................................................................................................................78
  Clean the computer ..............................................................................................................78
  About Disinfectant-ready Models...................................................................................78

Appendix A - Specifications .................................................................................................81
  Computer Agency Information .........................................................................................81
  Physical and Environmental Specifications ..................................................................81
  Imager Specifications .........................................................................................................82
  Barcode Symbologies Supported .....................................................................................82
  N6703 Ultra-Slim Imager Engine Reading Distances ..................................................83
    N6703 Ultra-Slim Imager Engine Field of View/Resolution ........................................84
  N6603 Slim Imager Engine Reading Distances ..............................................................85
    N6603 Slim Imager Engine Field of View/Resolution .................................................86
  N3601 Imager Engine Reading Distances ........................................................................86
    N3601 Imager Engine Field of View/Resolution ...........................................................87
Customer Support

Technical Assistance

Go to honeywell.com/PSStechnicalsupport to search our knowledge base for a solution or to log into the Technical Support portal.

For our latest contact information, see honeywell.com/PSSlocations.

Product Service and Repair

Honeywell International Inc. provides service for all of its products through service centers throughout the world. Go to sps.honeywell.com and select Support to find a service center near you or to get a Return Material Authorization number (RMA #) before returning a product.

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 sps.honeywell.com and select Support > Warranties.
This chapter introduces the ScanPal™ EDA51 mobile computer. Use this chapter to learn about the basic computer features, functions, and accessories.

**Note:** Device applications and settings vary by computer model and OS version. Your computer may not include all the features shown in the manual.

### About the Mobile Computer

ScanPal EDA51 mobile computers deliver real-time connectivity, advanced data capture, and future-proof investment protection. All EDA51 models come equipped for fast Wi-Fi connectivity with a WLAN 802.11 a/b/g/n/ac radio and Bluetooth (v4.2) technology that includes Bluetooth Low Energy (BLE) support. EDA51-1 models provide additional connectivity with a wireless Wide Area Network (WWAN) radio for high speed data and quality voice support across all network technologies. EDA51 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 EDA51 unless information is specific to a particular model.
## EDA51 Model Overview

<table>
<thead>
<tr>
<th>Available Feature</th>
<th>EDA51-0</th>
<th>EDA51-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Android operating system*</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>1.8 GHz Qualcomm Snapdragon™ SDM450 octa-core processor</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Memory options are dependent on model and scan engine type.</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>- 2GB DDR4 RAM, 16 GB flash memory</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- 2GB DDR4 RAM, 32 GB flash memory</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- 3GB DDR4 RAM, 32 GB flash memory</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- 4GB DDR4 RAM, 64 GB flash memory</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Choice of Honeywell 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™ V4.2 and Bluetooth Low Energy (BLE) technology support</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>NFC technology for short-range data exchange</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Wireless Wide Area Network (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>x</td>
<td></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 128 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, 1080P 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>

* For information on supported Android OS versions, see the EDA51 Data Sheet, available at sps.honeywell.com.

** 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 81.
Features of the EDA51

- Receiver
- Power Indicator
- Touch Panel
- Home Button
- Back Button
- Microphone
- USB Cover
- I/O Connector
- Scan Status LED
- Volume Up Button
- Volume Down Button
- Scan Button
- Recent Apps Button

EDA51 User Guide 3
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.

ScanPal EDA51 computers are designed for use with battery model BAT-EDA50 (see Battery Part Numbers on page 5) manufactured for Honeywell International Inc.
For a list of compatible accessories for the EDA51 mobile computer series and their part numbers, see the ScanPal EDA50/EDA51 Accessory Guide, available for download from the EDA51 product page at sps.honeywell.com. Contact your local sales representative for replacement battery ordering information.

**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.

---

## Battery Part Numbers

**Caution:** Read Battery Recommendations and Safety Protections on page 11 and all cautionary markings on the battery, charging peripheral, and device using the battery before attempting to install, use, or charge the battery.

<table>
<thead>
<tr>
<th>Battery Model Number</th>
<th>Battery Part Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAT-EDA50</td>
<td>50129589-001</td>
</tr>
<tr>
<td></td>
<td>50134176-001 (For use in North America)</td>
</tr>
</tbody>
</table>

## Charge the Battery Before Use

ScanPal EDA51 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 ScanPal EDA50/EDA51 series charging accessory before or after you install the battery in the computer. A fully discharged battery charges in approximately 4.5 hours.

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

- Insert the battery into the EDA50/EDA51 Quad Battery Charger (EDA50-QBC) or the auxiliary battery well of a EDA51 Single Charging Dock (EDA51-HB) connected to a power source.

To charge the battery after installing it in the computer:

- Insert the computer into a EDA50/EDA51 Single Charging Dock (EDA50-HB/EDA51-HB) or Quad Bay Charging Base (EDA50-CB) 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

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.

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

Remove the battery

1. Press and hold the Power button until the options menu appears.
2. Tap Power off.
3. Disconnect one end of the hand strap from the computer, if installed.
4. Press and hold down the button on the battery latch, and then slide the lock to the unlocked position.
5. Lift up on the edge of the battery cover and remove it from the computer.
6. Lift the battery from the connector side and then remove the battery.

Install the Battery

**Note:** For battery replacement, refer to Battery Part Numbers (see page 5).

1. Insert the battery. Slide non-connector side first and then press the battery down.

2. Attach battery cover.
3. Slide the lock to the left of the computer into the locked position.

4. Attach the hand strap, if removed.

5. 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 the **Settings** app > **Battery**.

**Battery Status Icons**

<table>
<thead>
<tr>
<th>Icon</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>🌋</td>
<td>The battery charge is at 100%.</td>
</tr>
<tr>
<td>🌋</td>
<td>The battery charge is at 50%.</td>
</tr>
<tr>
<td>🌋</td>
<td>The battery charge is low. You need to charge or replace the battery soon.</td>
</tr>
<tr>
<td>🌋</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>🌋</td>
<td>The computer is connected to external power and the battery is charging.</td>
</tr>
<tr>
<td>🌋</td>
<td>There is a battery error. Install another battery. If the problem persists, contact Technical Assistance.</td>
</tr>
</tbody>
</table>

The Battery status LED appears in the upper left corner of the touch screen. The 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 9.
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 settings)
- **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 LED Status 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 > Honeywell Settings > Battery LED**.
3. Choose one of the options:
   - Default Battery LED (optional Android OS configuration)
   - Honeywell Battery LED (Factory default settings)
   - 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

Use the reference table below to learn about how to conserve battery power. To learn more about proper battery care, refer to the Battery Maintenance for Portable Devices white paper available at sps.honeywell.com.

<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></td>
<td>• Connect the computer to a charging accessory.</td>
</tr>
<tr>
<td></td>
<td>• Replace the Battery (see page 6).</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 put the computer to sleep.</td>
</tr>
<tr>
<td>Store the computer for more than a day.</td>
<td>• If you are storing the computer for a few days (e.g., over the weekend), install a fully charged battery or connect the computer to a power source.</td>
</tr>
<tr>
<td></td>
<td>• If you are storing the computer for a longer period of time, fully charge the battery. When the battery is done charging, remove the battery from the computer and store the battery and the computer separately in a cool location.</td>
</tr>
<tr>
<td></td>
<td>• If you store the battery for several months, recharge the battery periodically to keep it at peak performance.</td>
</tr>
<tr>
<td>Store the battery outside of the computer.</td>
<td>Batteries self-discharge slowly over time, even when they are not installed in the computer. At a minimum, check stored batteries every three months for their charge state. Recharge as needed.</td>
</tr>
</tbody>
</table>
Battery Recommendations and Safety Protections

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 information about battery maintenance, refer to the Battery Maintenance White Paper available on sps.honeywell.com.
- 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 30%-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 5 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 BAT-EDA50 model battery (Battery Part Numbers on page 5). 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 immerse batteries into, or expose them to, water or seawater.
- Do not incinerate, microwave, throw into a fire, or expose batteries to temperatures above the maximum rating.
- Do not dissemble a battery or try to open or penetrate its housing.

Enable Airplane Mode

If you do not need to connect to any WWAN 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** > **Network & Internet**.
3. 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 barcode or manually set up the computer. To learn more about how to **Scan Barcodes**, see page 39.

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 barcode 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 70.

**Unlock the Screen**

The screen lock automatically activates every time the computer is powered on or when the computer wakes from sleep mode. The level of security provided depends on the type of lock set (e.g., Swipe, Pattern, PIN, or Password).

The default setting is Swipe, which provides no protection against unauthorized access to your computer.

- On the lock screen, swipe up from the bottom of the screen.
Change the Screen Lock to Protect the Computer

After you start using the computer, you should change the screen lock to prevent unauthorized people 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 barcode. When active, the LED illuminates below the front speaker. 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.

<table>
<thead>
<tr>
<th>LED Color</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green</td>
<td>Good read of a barcode.</td>
</tr>
<tr>
<td>Red</td>
<td>Failure to scan barcode. Check to make sure you have the correct symbology enabled.</td>
</tr>
</tbody>
</table>

About Audio Features

EDA51 has multiple speakers, microphones, and several software tools to configure sound volume or enable vibration feedback.

Adjust Speaker Volume

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

*Note: The volume setting varies by OS version.*

To quickly change the active speaker volume level:

- Press the top of the Volume button (+) to raise the volume of the active speaker.
• Press the bottom of the Volume button (-) to lower the volume of the active speaker.

To access the volume quick set menu:
1. Press the center of the Volume button.
2. Adjust the volume level using the on-screen menu.
   • Tap the icon at the top to toggle the media volume between sound on 🎧, vibrate only 🔴, and silent 📡.
   • Use the slider to adjust the media volume.
   • Tap 🎵 to turn toggle media volume off.
   • Select 📢 at the bottom to adjust Media, Alarm and Notification volume levels.

Enable Vibrate Mode or Do Not Disturb

Simultaneously press the Volume up (+) and Power button to quickly enable Vibrate mode so the computer vibrates instead of emitting sound for notifications and rings.

If you need quiet time without interruptions, enable Do Not Disturb to mute sound, stop vibration, and block notifications. Under the full settings menu, you can set a schedule for when you want Do Not Disturb to automatically turn on and off.

To enable Do Not Disturb manually:
1. Swipe down from the top of the screen to view quick set menu.
2. Tap the Do Not Disturb icon 🕒 to toggle feature on/off.
   Tap and hold the icon to access the full settings menu for Do Not Disturb.

Audio/Sound Settings

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

• Tap Settings 🛠 > Sound.

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

<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).</td>
</tr>
</tbody>
</table>
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. Remove the battery from the computer, refer to page 6.
2. Insert the MicroSD card.
3. Insert the battery, see on page 7.
How to Transfer Files

To transfer files you can physically connect the EDA51 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 https://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 the cable provided with your unit to connect your mobile computer to your workstation:
- USB cable, micro USB to type A connection (CBL-500-120-S00-03).

Configure USB Connection and Transfer Files

**Note:** The EDA51 supports Hi-Speed USB communications (USB2.0) with maximum data transfer rate of 480 Mbps.

1. Connect the EDA51 to your workstation using a USB cable.
2. On the EDA51, swipe down from the top of the screen to see the notifications.
3. Tap the Android System charging notification twice to open the options menu.
4. Select either File Transfer or PTP to transfer photos.
5. Open the file browser on your workstation.
6. Browse to the EDA51. You can now copy, delete, or move files between the EDA51 and your workstation.

Accessories for the Computer

The EDA51 ships with a partially discharged battery. All other accessories are ordered and shipped separately.

For a complete list of compatible accessories for your mobile computer and their part numbers see the EDA50/EDA51 Series Accessory Guide available for download at sps.honeywell.com.

Contact your local sales representative for ordering information.

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Charging Dock (EDA50-HB)</td>
<td>Charging cradle for charging ScanPal EDA51 (Compatible with EDA51’s scan handle). Does not include charging cable; cable and power adapter plugs must be ordered separately.</td>
</tr>
<tr>
<td>Accessory</td>
<td>Description</td>
</tr>
<tr>
<td>------------------------------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Single Charging Dock (EDA51-HB)</td>
<td>Charging cradle for charging ScanPal EDA51 mobile computer and battery (Compatible with EDA51 scan handle).</td>
</tr>
<tr>
<td>Quad battery charger (EDA50-QBC)</td>
<td>Quad battery charger for charging ScanPal EDA51 batteries. Kit contains power supply and power cord.</td>
</tr>
<tr>
<td>Quad Bay charging base (EDA50-CB)</td>
<td>Quad bay charging base for ScanPal EDA51. Kit contains power supply and power cord. (Compatible with EDA51 scan handle).</td>
</tr>
<tr>
<td>Scan handle (EDA51-SH-R)</td>
<td>Attach the scan handle to the EDA51 mobile computer for easier grip and trigger action when scanning labels (Compatible with EDA51 hand strap).</td>
</tr>
<tr>
<td>Hand strap (50141384-001)</td>
<td>The hand strap attaches to EDA51 mobile computer.</td>
</tr>
<tr>
<td>USB Cable (CBL-500-120-S00-03)</td>
<td>Charging and USB communication cable for ScanPal EDA51. Micro USB, 1.2 m (included with each mobile computer).</td>
</tr>
<tr>
<td>USB audio jack (50141383-001)</td>
<td>EDA51 Micro USB to 3.5mm audio adapter provide audio port for CTIA standard wire headset.</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 operating system provides a touch-friendly and easy-to-navigate user interface. When you turn On the 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 WWAN and network connection state and battery level.</td>
</tr>
<tr>
<td>Search Bar</td>
<td>Search the Internet or the computer using Google™.</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 touch 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 EDA51 on page 3.

**Navigation and Function Buttons**

<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Back" /></td>
<td>Tap to return to previous screen.</td>
</tr>
<tr>
<td><img src="image" alt="Recent Apps" /></td>
<td>Tap to view and switch between recently used apps.</td>
</tr>
<tr>
<td><img src="image" alt="Home" /></td>
<td>Tap to return to the Home screen.</td>
</tr>
<tr>
<td><img src="image" alt="Volume" /></td>
<td>Press the top of the <strong>Volume</strong> button to raise the speaker volume. Press the bottom of <strong>Volume</strong> button to lower the speaker volume.</td>
</tr>
<tr>
<td><img src="image" alt="Scan" /></td>
<td>Press the right or left <strong>Scan</strong> button to trigger the scanner.</td>
</tr>
</tbody>
</table>
| ![Power](image) | Use the power button to:  
  - Power the computer on or off (see page 12).  
  - Enter or exit sleep mode. Sleep mode turns the computer screen off after a set time of inactivity (see Screen timeout on page 55).  
  - Press and hold to access the power menu (i.e., Power off, Restart, Screenshot, Emergency).  
  - Perform a manual restart if touchscreen is unresponsive (see page 75). |
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</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 is connected with full signal strength</td>
</tr>
<tr>
<td>✅</td>
<td>Synchronizing data</td>
<td>⚠️</td>
<td>Wi-Fi network is 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 physical buttons (e.g., Left Scan, Right Scan, Volume up and Volume down).

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

2. Tap **Settings** > **Honeywell Settings** > **Keyremap**.

3. Tap the plus sign (+).

4. Press the button you want to remap.

5. Tap **OK**.

6. Select a tab to use for remapping, and then select or enter a value as required.
   - **KEYS**
     Choose a key function to assign to the selected key.
   - **APPS**
     Select an app that will launch when the selected button is pressed.
   - **ACTIONS**
     Enter an action that will be executed when the button is pressed, for example, "com.android.settings/com.android.settings.wifi.WifiSettings".
• COMMAND
Enter a command that will be executed when the button is pressed, for example, "start -n packagename/activityname param".

• TEXT
Enter a key combination that will be executed when the button is pressed, for example, "CTRL,C". See the next section for more information.

7. The remapping is displayed on the Keyremap screen.

Using TEXT Commands

You can use TEXT commands to map multiple keys or a key combination.

• Only lowercase characters are supported, but they must be entered in upper case. For example, entering "H,E,L,L,O" will produce "hello". "H,e,l,l,o" will produce "h". To remap to a string with capital letters like "HELLO", use a series of keycombinations like, "CAPS_LOCK,H,CAPS_LOCK,E,CAPS_LOCK,L,CAPS_LOCK,L,CAPS_LOCK,O".

• Shifted characters can be remapped in the format SHIFT,<key>. For example, "SHIFT,1" returns "!", "SHIFT,2" returns "@", etc.

• A space must be defined using the Keyname like "A,SPACE,B".

• Key names separated by comma are considered a string not a key, so "F,1,E,N,T,E,R" will produce the string "f1enter". "F1,ENTER" will produce the events as if Function Key 1 and an Enter key have been pressed.

Restore Default Button Action

To restore the default button action:

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

2. Tap Settings > Honeywell Settings > Keyremap.

3. Tap the clean icon .

4. Choose the remapped button(s) you want restored to the default setting(s).
   • Tap the check box next to the button.
   
   OR

   • Tap ALL SELECT to choose all the buttons.

5. Tap DELETE.

6. Tap OK to confirm action.
Key WakeUp

Use Key WakeUp to set the buttons you want to use to wake the computer from sleep mode. The keys (buttons) that can be used depend on the mobile device model.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap Settings > Honeywell Settings > Key WakeUp.
3. Turn keys on or off depending on your preference.
4. Tap Apply to save your settings.
5. To apply the default configuration, tap the Reset button.

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 for easy access to common settings. Tap an icon to toggle the feature On/Off or to open additional settings.

• To open Quick Settings, swipe down from the status bar at the top of the screen. To expand the Quick Setting menu, swipe down again from the status bar at the top of the screen.
• To close Quick Settings, swipe up from the bottom of the screen or tap the 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, and then slide the icon slightly out of position.
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 or customize the look of the Home screen:

1. Tap and hold an empty section of the screen.
2. Select either Wallpapers, Widgets, or Home settings.

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. Slide the icon out of place slightly to activate feature.
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 touch 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. 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. 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** > **System** > **Date & time**.

3. Tap **Use network-provided time** to turn off automatic network retrieval.

4. Tap **Time zone** and choose the time zone for your location.
About Honeywell Applications

Honeywell applications help you troubleshoot and connect your mobile 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 sps.honeywell.com to download the Scanpal 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>![Icon]</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\autostart folder and IPSM card\honeywell\autostart folder on the computer during the power-up boot or reboot process.</td>
</tr>
<tr>
<td>![Icon]</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 computer can be found in the Honeywell Software Development Kit (SDK) for Android, available from the Technical Support Downloads Portal.</td>
</tr>
<tr>
<td>![Icon]</td>
<td>Enterprise Settings</td>
<td>Enterprise Settings can help customers achieve some common customized needs. Support UI interface, SDK and Broadcast way.</td>
</tr>
<tr>
<td>![Icon]</td>
<td>Scan Settings</td>
<td>Scan Settings</td>
</tr>
<tr>
<td>![Icon]</td>
<td>HUpgrader</td>
<td>Use to the HUpgrader app to view the current OTA version on the computer, check for updates, or initiate an OTA upgrade from storage.</td>
</tr>
<tr>
<td>![Icon]</td>
<td>HQ Config</td>
<td>HQConfig is used for offline rapid deployment. Synchronize content: common settings, scan settings, applications and firmware upgrades.</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 a license to run some applications. To learn more about the applications described in this section and other Honeywell software solutions, go to sps.honeywell.com > Software > Productivity.
About Honeywell Enterprise Browser

Enterprise Browser 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 sps.honeywell.com.

About Terminal Emulators

Honeywell offers several terminal emulator solutions that allow users to manage their mobile devices by providing reliable data transfer between the host mobile device and terminal. Terminal emulators can be used for remote management and configuration of devices, data collection and analysis, and session management.

Depending on the computer model, a terminal emulator may come preinstalled on the device. If a terminal emulator is not included on your model, you can download a trial version for evaluation. After the evaluation period expires, you need to purchase a license. For more information, visit sps.honeywell.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 sps.honeywell.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** > **System** and scroll to the bottom of the list.

5. Tap **Developer Options**.
Use this chapter to understand how to scan barcodes, configure the scan settings, and capture images using the integrated image engine in the computer.

About the Image Engine

The Scanpal EDA51 series offers three Honeywell high-performance imager options:

- N3601 Imager Engine
- N6603 Slim Imager Engine
- N6703 Ultra-Slim Imager Engine

Use the imager as a scanner to read 1D and 2D barcode 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 > Honeywell Settings > 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 barcode data to an active application as Android keypad input. To scan a barcode as keyboard input, open an application that accepts text input and then scan a barcode. 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 > Honeywell 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 Scanner settings, see **Default Scan Settings** on page 33.

### Change the Bluetooth Scanner Settings

When the Bluetooth scanner is paired, changes can be made to the Default profile for the scanner.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings > Honeywell Settings > Scanning.**
3. Tap **Bluetooth Scanner > Default Profile > Data Processing Settings.**
4. Modify the settings to meet your application needs.

To learn more about Scanner settings, see **Data Processing 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 any of the settings screens 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.

**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 barcode 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>Wedge</td>
<td>Enable or Disable the scan wedge feature</td>
<td>Enabled</td>
</tr>
<tr>
<td>Wedge Method</td>
<td>Specify wedge method: Standard or Keyboard</td>
<td>Standard</td>
</tr>
<tr>
<td>Charset</td>
<td>Select the character set to use when interpreting the barcode data into a string.</td>
<td>ISO-8859-1</td>
</tr>
<tr>
<td>Prefix</td>
<td>Defines the string added before the decoded barcode data. Substitutions occur within the Prefix string values.</td>
<td>None</td>
</tr>
</tbody>
</table>

<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>
<tr>
<td>Setting</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------------</td>
<td>------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Suffix</td>
<td>Defines the string added after the decoded barcode data. Substitutions occur within the Suffix string values.</td>
</tr>
<tr>
<td></td>
<td><strong>Substring</strong></td>
</tr>
<tr>
<td></td>
<td><code>r</code></td>
</tr>
</tbody>
</table>
|                         | `
`                            | 10                                                |
|                         | `	`                           | 9                                                 |
|                         | `\`                           | `\`                                               |
| Wedge as keys           | List of character values to wedge as keys, represented as a comma-separated list of decimal values. | 9, 10, 13 |
| Data Editing Plugin     | Specify a Total Freedom data editing plug-in and edit plug-in settings.     | None     |
| Symbology Prefix        | Specify a symbology identifier prefix to the barcode data. Options include: | None     |
|                         | • None                         |                                                   |
|                         | • Honeywell                    |                                                   |
|                         | • AIM                          |                                                   |
| Launch Browser          | Enable or disable URL barcode handling. If a barcode starts with http:// or https://, the browser opens using the barcode data as a URL. | Enable   |
|                         | Corresponds to BarcodeReader property: PROPERTY_DATA_PROCESSOR_LAUNCH-BROWSER |          |
| Scan to Intent          | Enable or disable special handling of scan-to-intent barcodes.               | Enabled  |
|                         | Applies to barcodes in one of the following formats:                         |          |
|                         | ```// ACTION```                 |          |
|                         | ```// ACTION $` extra-data      |          |
|                         | Where: ACTION and extra-data are any string of characters.                   |          |
|                         | Launches an application listening for the intent.                           |          |
|                         | Intent action:                 |          |
|                         | “com.honeywell.scantointent.intent.action.” + ACTION                         |          |
|                         | Intent extra:                  |          |
|                         | “com.honeywell.scantointent.intent.extra.DATA” contains the remainder of the barcode data after the first '$' character. |          |
|                         | Corresponds to BarcodeReader property: PROPERTY_DATA_PROCESSOR_SCAN_TO_INTENT |          |
| Launch EZ Config        | Enable or disable special handling of EZConfig barcodes.                     | Enabled  |
|                         | Applies to EZConfig barcodes that are encoded with the Aztec symbology and contain specific header data. |          |
|                         | Corresponds to BarcodeReader property: PROPERTY_DATA_PROCESSOR_LAUNCH_EZ_CONFIG |          |
Symbology Settings

Use the Symbology Settings to enable or disable barcode 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 82.

Decode Settings

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

### Decode Settings

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data Intent</td>
<td>Enables the reception and processing of barcode data without using an SDK or library.</td>
<td>Disabled</td>
</tr>
<tr>
<td>Center Decode</td>
<td>When enabled, the imager scans and decodes a barcode only if part of the barcode is at the center of the aimer window. This is useful in situations where several barcodes may be very close together in the imager field-of-view.</td>
<td>Enabled</td>
</tr>
<tr>
<td></td>
<td>- Tap the check box to toggle the feature On or Off.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Select <strong>Center Decode</strong> to adjust the Window dimensions. Honeywell recommends leaving the settings at 50 (default) to define the “center” area for the barcode. Configurable parameters:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Window top</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Window bottom</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Window left</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Window Right</td>
<td></td>
</tr>
<tr>
<td>Decode Security</td>
<td>Use this setting to control the reading tolerance of the decoder. Lower settings are more lenient when reading low quality barcodes while higher values are more strict.</td>
<td>2</td>
</tr>
<tr>
<td>Poor Quality 1D Reading</td>
<td>Enable this setting when scanning damaged or badly printed 1-D barcodes to improve barcode read success.</td>
<td>Disabled</td>
</tr>
<tr>
<td>Decoder Timeout</td>
<td>Set the amount of time in seconds that the scanner will timeout if a readable barcode is not found.</td>
<td>150</td>
</tr>
</tbody>
</table>
### 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.
Trigger Settings

<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 barcode.</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>
<tr>
<td>Trigger Scan Mode</td>
<td>Set read behavior on scan button press. Options available:</td>
<td>One Shot</td>
</tr>
<tr>
<td></td>
<td>• One Shot</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Continuous</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Read on release</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Read on second trigger press</td>
<td></td>
</tr>
<tr>
<td>Same symbol timeout</td>
<td>Set the minimum buffer time in seconds before the scanner reads the same barcode. This can be adjusted to prevent inadvertent scans of the same barcode if the code is left in the scan field longer than the Decode Timeout limit. The default same symbol timeout is 1000 seconds.</td>
<td>Disabled</td>
</tr>
</tbody>
</table>

Notification Settings

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

<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 Scan Status 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 Scan Status 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 > Honeywell Settings > Scanning > Internal Scanner.

3. Tap + 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.
   OR
   • 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 > Honeywell Settings > Scanning > Internal Scanner.
3. Tap and hold the profile you want to delete.
4. Select Delete, then select OK.

**About ScanHandle Settings**

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap Settings > Honeywell Settings > ScanHandleService.
3. Tap Enable ScanHandle to turn the feature on.

A preview of the button appears at the bottom of the screen. Attach the scan handle to the EAD51 mobile computer for easier grip and trigger action when scanning labels.

**About the Optional Digital Scan Button**

By default, the imager is enabled for scanning with the left, middle 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 enabled, 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 > Honeywell 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 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 **Set 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 **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 barcode.

**Scan Barcodes**

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

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

1. Point the scanner window at the barcode. For optimum performance, avoid reflections by scanning the barcode at a slight angle.

2. Press and hold any **Scan** button.
3. Center the aiming beam over the barcode. Make sure the entire barcode is inside of the illumination frame.

4. Release the **Scan** button when the computer beeps, and the Scan Status LED briefly turns on. The barcode information is entered into the application in use.

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

### About Scanning Configuration Barcodes

After completing the out-of-box set up process, Provisioning mode is automatically turned Off. Scanning a barcode 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 70.

### Use the Scan Demo App

Use the Scan Demo app to read barcodes, 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 barcode.
5. Press and hold any **Scan** button or tap and hold the on-screen Scan button.
6. Center the aiming beam over the barcode. Make sure the entire barcode is inside of the illumination frame.
7. Release the **Scan** button when the computer beeps, and the Scan Status LED briefly turns On. barcode information appears on the screen.

**Note:** *In the Scan Demo app, not all barcode symbologies are enabled by default. If a barcode 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.
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 EDA51 WWAN models (EDA51-1).

### About the Phone

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

On EDA51 WWAN models the phone feature is enabled by default and supports all cellular radio access technologies (2G, 3G, 4G, etc.) for voice and data connections around the globe.

EDA51 WWAN computers also come equipped with a Nano SIM card slot.

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

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

### Activate the Phone

You use a SIM card to activate the phone on your EDA51 WWAN model computer (EDA51-1). You can purchase the Nano SIM card from your network provider.

1. Select a network carrier. To learn how, see *Activate the Phone* on page 43.
2. Remove the battery from the computer, refer to page 6.
3. Open the Nano card’s silicone cover.
4. Open the card cover and insert the Nano SIM card.
5. Insert the battery, see on page 7.

Make a Phone Call

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

1. Tap ☎️ in the favorites tray.
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 Recent call log. If you miss a call, you receive a notification.

On the Incoming Call screen, when your phone is lock screen is activated:

- Swipe up on the screen to answer the call.
- Swipe down on the screen to reject the call and send it to voicemail.
- Tap the message icon 📨 to send a text message response to the caller instead of answering.

If your phone is already unlocked, a notification appears on the screen for the incoming call and you have the choice to select Answer or Ignore.

Switch Apps During a Phone Call

You can multi-task 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 phone. 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.


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.

**Note:** Due to model and software version differences, screen images and features included in this chapter may vary from what you see on your device.

### About the Color Camera

The EDA51 comes equipped with a 13-megapixel color camera, 1080P 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 **Snapdragon™ Gallery** to view photos and videos stored on the EDA51. 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), or
- pinch them together to zoom out.

### Take a Photo

1. Tap the **Camera** icon in the favorites tray on the Home screen.
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. Tap 📷 or the Volume button 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.

**Record a Video**

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

1. Tap the Camera icon 📷 in the favorites tray.

2. Tap 🎥 to start recording video.
   • To zoom in or out, pinch or spread your fingers apart.
   • To toggle sound recording on or off, tap the microphone icon at the top of the screen.
   • To pause recording, select ⏯. To resume recording, tap ⏯.
   • To capture a still picture during recording, tap the Camera icon 📷.
   • To add light while recording, tap the flash icon.

3. When you are done recording, tap ✅.

To access the video settings in the Camera app, select the more settings icon ⚙️, and then the advanced settings icon ⚙️ icon.

**Change Camera Settings**

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

1. Open the Camera app 📷.

2. At the top of the screen, select any of the following to adjust the settings.
• **More Settings**  
Select to access Automatic Mode, HDR Mode and Advanced settings.

**Advanced Settings**  
Select the gear to access settings that allow you to modify the camera setting defaults and to configure how the camera app functions (i.e., General, Still camera, Video camera, and System.

• **Color Filters**  
Stylize your pictures by applying a filter. Options include: None, Mono, Sepia, Negative, Solarize, Posterize, and Aqua.

• **Flash Setting**  
Select to adjust the camera flash setting (e.g., automatic, no flash or always flash). This option is only available for the rear camera.

---

**Use the Camera as a Flashlight**

To use the camera as a flashlight.

1. Open Quick Settings (see page 23).
2. Tap the **Flashlight** icon to turn the flashlight on.
3. Select the icon again to turn the flashlight off.
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 barcode symbologies 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, and then tap Settings.
- OR
- Swipe down from the top of the Home screen twice, and then select the settings icon.

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. A search field appears at the top of the screen when you open the Settings app to help you locate settings quickly.

*Note:* The Settings app varies by computer model and OS version. Your computer may not include all the features outlined in this section.
## Network & Internet

In the **Settings** app, select **Network & internet** to access the following settings.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
</table>
| **Wi-Fi** | • 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 and view saved networks.  
• Tap Wi-Fi preferences to access advanced Wi-Fi options, view MAC, IP address information, import and export Wi-Fi configuration, Wi-Fi Direct, WPS push Button, WPS pin entry, Wi-Fi Logger, Honeywell Proprietary Settings, Open network notification and Install Certificates. |
| **Mobile Network (EDA51-1 WWAN Models only)** | Modify mobile network settings, including enabling data access and roaming over mobile networks, selecting access points and network operations, or selecting only 2G networks to save battery life.  
• Turn Mobile data On or Off  
• Turn Roaming On or Off  
• View Data use information  
• Access advanced options, including:  
  • 4G LTE Mode on/Off setting  
  • Preferred network settings  
  • CDMA roaming settings and subscription settings (i.e. RUIM/SIM, NV)  
  • Access point name and selection  
  • Network selection settings |
| **Data Saver** | Enable Data Saver to reduce data usage. When turned on, the feature limits how and with what frequency some apps send and receive data in the background. |
| **Hotspot & tethering** | • 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. |
| **Data usage** | • Manage mobile/cellular data usage.  
• View mobile or Wi-Fi data use statistics for the current data use cycle.  
• Turn network restrictions for metered WLAN networks on or off. |
| **Airplane Mode** | Turn Airplane mode On or Off. |
| **Mobile plan (EDA51-1 WWAN Models only)** | Provides information on your cell phone plan. |
| **Advanced** | **VPN**  
Set the password parameters for a Virtual Private Network (VPN) connection. |
| **Private DNS** | Select Private DNS Mode (e.g., Off, Automatic, Private DNS provider hostname). |
Connected Device

In the Settings app, select Connected devices to access the following settings.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pair new device</td>
<td>• Connect to a Bluetooth Device. \n• Lists Bluetooth enabled devices in range. \n• View and rename the computer. \n• View the computer Bluetooth address.</td>
</tr>
<tr>
<td>Previously connected devices</td>
<td>View previously connected devices. When devices are currently connected they appear at the top of the screen.</td>
</tr>
<tr>
<td>Connection Preferences</td>
<td></td>
</tr>
<tr>
<td>Bluetooth</td>
<td>• Turn the Bluetooth radio On or Off. \n• Lists Bluetooth enabled devices in range when the radio is turned On. \n• Connect to a Bluetooth Device. \n• View and rename the computer. \n• View the computer Bluetooth address.</td>
</tr>
<tr>
<td>NFC</td>
<td>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.</td>
</tr>
<tr>
<td>Android Beam</td>
<td>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.</td>
</tr>
<tr>
<td>Cast</td>
<td>Set up a Cast connection. Cast (project) audio and screen content to a secondary device such as a television.</td>
</tr>
<tr>
<td>Printing</td>
<td>Set up a printer connection with the mobile computer. Connection options include cloudprint services, Wi-Fi printing via a router or printing via NFC.</td>
</tr>
<tr>
<td>Files received via Bluetooth</td>
<td>View statistics and received files via Bluetooth wireless technology.</td>
</tr>
</tbody>
</table>
Apps & Notifications

In the Settings app, select Apps & notifications to access the following settings.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apps</td>
<td>To view a list of all apps installed on the computer and system services running, select “SEE ALL xx APPS” where xx = number of apps installed.</td>
</tr>
<tr>
<td>Notifications</td>
<td>Select to manage notifications.</td>
</tr>
<tr>
<td></td>
<td>• Viewing statistics on recent app notifications.</td>
</tr>
<tr>
<td></td>
<td>• Set rules for notifications on the screen lock.</td>
</tr>
<tr>
<td></td>
<td>• Under Advanced:</td>
</tr>
<tr>
<td></td>
<td>• Turn notification snoozing on or off.</td>
</tr>
<tr>
<td></td>
<td>• Turn Suggested actions and replies on or off.</td>
</tr>
<tr>
<td></td>
<td>• Turn notification dots on or off.</td>
</tr>
<tr>
<td></td>
<td>• Set the default sound for all notifications.</td>
</tr>
<tr>
<td></td>
<td>• Set Do Not Disturb parameters or manually turn the Do Not Disturb on or off.</td>
</tr>
<tr>
<td>Default apps</td>
<td>Select to view and manage default app use.</td>
</tr>
<tr>
<td>Permissions</td>
<td>Select to view and manage individual app permissions.</td>
</tr>
<tr>
<td>manager</td>
<td></td>
</tr>
</tbody>
</table>

Advanced

Special app access

Manages apps with special unrestricted access.

Battery

In the Settings app, select Battery to view battery status, use statistics and adjust features that conserve battery charge.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery</td>
<td>View current battery charge or charging status at the top of the screen.</td>
</tr>
<tr>
<td>Battery saver</td>
<td>Select to configure the Battery Saver feature.</td>
</tr>
<tr>
<td></td>
<td>• Manually turn the Battery Saver on to restrict background activity to extend battery charge or turn the feature off.</td>
</tr>
<tr>
<td></td>
<td>• Set a schedule to turn the Battery saver feature on or off automatically based on remaining battery charge percentage. When schedule is enabled, adjust the slider to indicate at what percentage the Battery Saver feature should automatically activate. You can choose anywhere between 5% to 75%.</td>
</tr>
<tr>
<td></td>
<td>• Set the Battery Saver feature to automatically turn off when your computer battery charge is above 90%.</td>
</tr>
<tr>
<td>Battery Manager</td>
<td>Turn the Battery Manager feature on to receive notifications applications draining above average battery power.</td>
</tr>
<tr>
<td>Battery percentage</td>
<td>Set to show or do not show battery percentage in status bar.</td>
</tr>
<tr>
<td>Last full charge</td>
<td>View time since the battery was fully charged.</td>
</tr>
<tr>
<td>Screen usage since full charge</td>
<td>View amount of time when the screen was used since the battery was fully charged.</td>
</tr>
</tbody>
</table>
Display
In the Settings app, select Display to access the following settings.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brightness level</td>
<td>Set the Brightness level manually if the Adaptive brightness feature is turned Off.</td>
</tr>
<tr>
<td>Night light</td>
<td>Activate the Night light feature to adjust the screen tint to a light amber for easier viewing and reading in dim light or for the hours you use the device before going to sleep. Set the feature to stay on or define a schedule to automatically turn the feature on or off. You can manually adjust the intensity of the amber hue once the feature is activated.</td>
</tr>
<tr>
<td>Adaptive brightness</td>
<td>Set how the screen in sleep mode responds when new notifications are received (e.g., wake or do not wake).</td>
</tr>
<tr>
<td>Wallpaper</td>
<td>Set the wallpaper.</td>
</tr>
<tr>
<td>Dark theme</td>
<td>Turn Dark theme on or off.</td>
</tr>
<tr>
<td>Advanced</td>
<td></td>
</tr>
<tr>
<td>Screen timeout</td>
<td>Set the inactivity time limit before the unit automatically turns off the screen to save battery power (seconds or minutes). Also known as sleep mode.</td>
</tr>
<tr>
<td>Auto-rotate screen</td>
<td>Set the screen to switch from portrait to landscape when the unit is rotated. When turned off, the screen does not automatically rotate.</td>
</tr>
<tr>
<td>Font size</td>
<td>Set the default on-screen text size.</td>
</tr>
<tr>
<td>Display size</td>
<td>Set the default size of items on your screen.</td>
</tr>
<tr>
<td>Screen saver</td>
<td>Select to configure the screen saver.</td>
</tr>
<tr>
<td></td>
<td>• Set a default screen saver (i.e., Clock, colors, Photo Frame, Photo Table). The additional settings icon appears based on the select screen saver type. Select the icon to view options.</td>
</tr>
<tr>
<td></td>
<td>• Set when the screen saver activates (e.g., While charging, While docked, While charging and docked or Never).</td>
</tr>
<tr>
<td></td>
<td>• Select Start Now to enable the feature.</td>
</tr>
<tr>
<td>Lock screen display</td>
<td>Select to configure what shows and what can be done when the screen lock is activated.</td>
</tr>
<tr>
<td></td>
<td>• Choose to show or not show notifications.</td>
</tr>
<tr>
<td></td>
<td>• Enable or restrict adding users from the lock screen.</td>
</tr>
<tr>
<td></td>
<td>• Add a custom message to the lock screen.</td>
</tr>
<tr>
<td></td>
<td>• Set the screen to wake or not wake when a notification is received.</td>
</tr>
</tbody>
</table>

Sound
In the Settings app, select Sound to modify the audio and sound settings. To learn more, see Audio/Sound Settings on page 15.

Storage
In the Settings app, select Storage to view statistics on available and used storage space on the device and on any portable storage cards installed.
Privacy

In the Settings app, select **Privacy** manage permissions, account activity and personal data.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permissions manager</td>
<td>Manage personal data sharing privileges.</td>
</tr>
<tr>
<td>Show passwords</td>
<td>Enable or disable showing characters briefly as you type.</td>
</tr>
<tr>
<td>Lock Screen</td>
<td>Choose to show or not show notifications content on the Lock screen.</td>
</tr>
</tbody>
</table>

Location

In the Settings app, select **Location** to access the settings below.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use location</td>
<td>Turn location services (Google and GPS satellite data) on or off.</td>
</tr>
<tr>
<td>Recent Location Requests</td>
<td>View location request history.</td>
</tr>
<tr>
<td>App permissions</td>
<td>View what apps have what type of permission for accessing the mobile computer’s location. Select an app to change the app-level location service permission.</td>
</tr>
<tr>
<td></td>
<td>• Allow all the time</td>
</tr>
<tr>
<td></td>
<td>• Allow only while using the app</td>
</tr>
<tr>
<td></td>
<td>• Deny</td>
</tr>
<tr>
<td>Wi-Fi and Bluetooth scanning</td>
<td>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.</td>
</tr>
</tbody>
</table>

Security

In the Settings app, select **Security** view latest Security scan results, security updates and phone encryption status. Access additional settings related to device security.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screen Lock</td>
<td>Activate and configure a screen lock (i.e., None, Swipe, Pattern, Pin, Password).</td>
</tr>
<tr>
<td>Device admin apps</td>
<td>Manage administrator privileges.</td>
</tr>
<tr>
<td>Encryption &amp; credentials</td>
<td>Select to view encryption status and manage credentials (e.g., view, install, clear, and edit).</td>
</tr>
<tr>
<td></td>
<td>• Trusted credentials</td>
</tr>
<tr>
<td></td>
<td>• User credentials</td>
</tr>
<tr>
<td></td>
<td>• Install from storage</td>
</tr>
<tr>
<td></td>
<td>• Clear credentials</td>
</tr>
<tr>
<td>Trusted agents</td>
<td>View and enable/disable trusted agent apps such as, Smart Lock by Google on the device. Trusted agents bypass security based on set parameters.</td>
</tr>
</tbody>
</table>
Accounts

In the Settings app, select Accounts to access the following settings.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Add account</td>
<td>Select to add and manage Corporate or Email account on the computer.</td>
</tr>
<tr>
<td>Automatically sync data</td>
<td>Turn auto-sync On or Off for accounts. Turning the feature On allows apps to refresh data automatically.</td>
</tr>
</tbody>
</table>

Accessibility

In the Settings app, select Accessibility to access screen readers, display settings, interaction controls, and audio & on-screen text features to improve accessibility levels.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volume Key Shortcut TalkBack</td>
<td>When turned on, the feature provides spoken feedback so you can use the computer without always looking at the screen. TalkBack describes your actions and tells you about alerts and notifications</td>
</tr>
<tr>
<td>Downloaded Services</td>
<td></td>
</tr>
</tbody>
</table>
| ScanWedgeAccessibility                | Enable or Disable ScanWedgeAccessibility service. This feature is turned off by default. When the feature is turned on you are asked to allow the ScanWedgeAccessibility service to have full control of your device so the service can:  
  • View and control screen  
    The service can read all content on the screen and display content over other apps.  
  • View and perform actions  
    The service can track your interactions with an app or a hardware sensor, and interact with apps on your behalf.  
For example, when the ScanWedgeAccessibility service is on, quick pairing with another Bluetooth device by scanning barcode is enabled. |
| Screen Readers                       |                                                                 |
| Text-to-speech output (TTS)          | Select and configure the preferred TTS, set language, speech rate and pitch of synthesized voice. |
### Settings

**Display**
Configure display features that may aid visual accessibility levels.
- Adjust Font size.
- Adjust Display size.
- Turn Dark theme on or off.
- Turn the Magnification feature on or off.
- Set Color correction.
- Turn Color inversion on or off
- Turn Large mouse pointer on or off.
- Turn Remove animations on or off.

**Interaction controls**
Set interaction controls that may aid physical accessibility levels.
- Set the Dwell timing delay (i.e., click after pointer stops moving).
- Turn Auto-rotate screen on or off.
- Adjust the Touch & hold delay.
- Adjust the Time to take action (Accessibility timeout) delay. This adjusts how long temporary action messages appear on the screen.
- Accessibility Menu provides large on-screen menus.
- Turn Vibration & haptic feedback on or off for Ring tone, Notifications, Touch.

**Audio & on-screen text**
- Turn Mono audio on or off.
- Adjust Left and Right audio balance.
- Set Caption preferences.

**High contrast text**
- Turn High contrast text on or off.

### Honeywell Settings

In the **Settings** app, select **Honeywell Settings** to access the settings below.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery LED</td>
<td>Configures the battery LED behavior. To learn more, see Change the Battery LED Status Behavior, page 9.</td>
</tr>
<tr>
<td>Setting</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| Battery Optimizer    | View battery status and app usage information. Select Status to choose a preset profile or create a custom battery optimization profile that implements a group of settings to conserve power. Options include:  
  • None  
  When selected, no battery optimization profile is active.  
  • Energy Saver  
  This pre-defined profile implements UI settings that optimize battery conservation.  
  • Cold Storage  
  This pre-defined profile implements UI settings that optimize battery conservation in cold storage environments.  
  • Custom Profile  
  Select 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. |
| Digital Scan Button  | Enable and configure the optional digital scan button. To learn more, see About the Optional Digital Scan Button on page 38.                      |
| Glove mode           | Enable or disable Glove mode.                                                                                                                                                                          |
| HXLogger             | The HXLogger is an advanced diagnostic log service that provides a basic log service, plugins for modified log services, and a log manager. When enabled, the service records app and system diagnostic troubleshooting information in four basic log files: main log, radio log, event log, and kernel log.  
  • Select HXLogger toggle switch to turn the basic log service on or off.  
  To change the maximum number of bootset folders, tap and then select the maximum BootSet folder count. Tap OK.  
  • Select Plugin to view and enable additional log services and custom plugins. Select a plug name, and then use the toggle switch to turn it on or off. Modify the plugin settings once enabled.  
  • Select Manager to change the default log path, delete logs, or upload logs for technical support troubleshooting.  
  To change the log path, tap Change log path then select an available path. Tap OK.  
  To delete log files, press and hold a log name. Check boxes appear. Select the box for each log file to delete, and then tap the trash can icon. |
| Key WakeUp           | Set the buttons you want to use to wake the computer from time out (sleep) mode. To learn more see, Key WakeUp on page 23.                                                                          |
| Key Remap            | Change (remap) a button function. To learn more, see Remap a Button on page 21.                                                                                                                     |
| Provisioning Mode    | 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 70.                                    |
| ScanHandleService    | Enable or Disable Scan handle, see About ScanHandle Settings on page 38.                                                                                                                              |
## Scanning
Configure the computer imager. To learn more, see Change the Scanner Settings on page 32.

## Smart Sensors
Configures the integrated motion detection sensors for advanced power management. Options include: Keep awake on motion, Wake on motion, Face down suspend.

## Staging Hub Agent
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. See the Staging Hub Foundation online help for information on setting up Staging Hub and managing connected devices.

## Web Applications
Enables access for the Honeywell Mobility SDK for Web apps and lets you set a port.

## System
In the Settings app, select System to access the following settings.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
</table>
| **Language & input** | • Set the Device Language  
• Set and manage the Virtual and Physical keyboard input methods  
• Under Advanced configure the:  
  • Spell checker  
  • Autofill service  
  • Personal dictionary  
  • Pointer speed |
| **Gestures**     | Enable, disable and configure button shortcuts.  
• Jump to camera by pressing the power button twice.  
• Prevent ring (Vibrate or Mute) by simultaneously pressing the Power & Volume up button. |
| **Date & time**  | Configure all date, time and time zone settings. |
| **Backup**       | Turn the Google Drive backup feature on or off. When enabled, phone data (e.g., apps, apps data, call history, contacts, device settings, SMS, Wi-Fi passwords and permissions) is automatically backed up to the Google Drive. |
| **Advanced**     |                                                                                                                                             |
About Phone

In the Settings app, select **About Phone** to access the following settings.

- View device-specific information including the model number, phone number, operating system version, software patch version, radio versions, build number, IP address, Wi-Fi MAC, Bluetooth Address and legal information.

About Network Communications

You can easily add the computer to your WWAN or wired data collection network. Connect the EDA51 your computer using:

- Mobile network
- 802.11 a/b/g/n/ac radio communications
- Bluetooth communications
- USB and serial communications

Connect to Mobile network

Mobile network only supported on EDA51-1 WWAN version. Before using mobile network, need to insert activated local carrier’s Nano SIM card.

1. Enter **Settings > Mobile network > Mobile Data**.
2. Tap **Mobile Data** to on (Default status is on).
3. Using the mobile computer transfer data through local carrier’s network.

Connect to a Wi-Fi Network

The computer contains an 802.11 a/b/g/n/ac radio to transfer data using WWAN 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 > Network & Internet > Wi-Fi.

3. Tap Off to toggle Wi-Fi radio On. A list of discovered networks appears.

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 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 > Network & Internet > Wi-Fi. 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 WWAN. You can disable these notifications.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap Settings > Networks & Internet > Wi-Fi. Verify the WLAN radio is turned On.
3. Select Wi-Fi preferences.
4. Tap Open network notification to toggle the setting On or Off.

How to Connect to Virtual Private Networks

The computer supports connecting to virtual private networks (VPN). This section describes how to add and connect to VPNs. To configure VPN access, you must obtain details from your network administrator. You can 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 > Network & internet > Advanced > 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 > Network & internet > Advanced > 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 can be done from the VPN screen.

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

2. Tap Settings > Network & Internet > Advanced > 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 WWAN Security
The computer provides these security solutions for your WWAN network:

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

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 WWAN 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** > **Encryption & credentials**.
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.
3. Select 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.
4. Tap the name of the certificate you want to disable or remove. The Security certificate screen appears.
5. Scroll to the bottom of the screen and tap Disable (for System certificates) or Remove (for User certificates).
6. 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.

To toggle the Bluetooth radio on or off, swipe down from the top of the screen and tap the Bluetooth icon.

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. Verify the Bluetooth radio is on.
2. Swipe up from the bottom of the Home screen to access all apps.
3. Tap Settings > Connected devices.
4. Tap **Pair a new device** 🔄. A list of available Bluetooth devices in range appears.

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

6. When the pairing request message appears:
   - Verify the pairing PIN is the same on both device, and then tap **Pair**.
   OR
   - If the pairing request requires a PIN, enter the **PIN**, and then tap **Pair**.

7. **(Optional)** Once paired to a device, you can connect manually to the device. Tap the device under Previously Connected Devices. The device shows under “Currently Connected”.
   To disconnect a paired device, tap ☑️ next to the name of the paired device and then tap **Forget**.

---

**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** > **Connected devices** > **Connection preferences** > **Bluetooth**.

3. Tap **Device Name**. Type the new name and then select **Rename**.

---

**Rename, Share, 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** > **Connected devices** > **Bluetooth**.

3. Tap ☑️ next to the **paired device**.

4. Take one of the following actions:
   - To rename the device, select the edit icon 🖊. Type the new name, and then tap **RENAME**.
   - To allow **Internet connection sharing** or **Contact Sharing**, tap on/off toggle button next to the setting.
   - To unpair the device, tap **Forget**.
About USB Communications

You can use these EDA51 accessories to transmit data to and receive data from another device through serial or USB communications:

- USB cable

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 70.
- Check to make sure you have enabled the USB for file transfer. To learn more, see Configure USB Connection and Transfer Files on page 17.

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.

Use Bluetooth or USB Tethering to Share a Data Connection

You can share your mobile computer data connection with another device through a USB tethering or Bluetooth tethering connection.

Minimum requirements for USB Tethering

- The EDA51 must have an Android 10 OS or later.
- A EDA51 compatible USB communication accessory.

Set up and Connection

1. Connect the USB cable to both devices.
2. On the EDA51, swipe down twice from the top of the screen.
4. Change the USB Preference setting from to USB tethering.
5. Tap Settings > Network & Internet > Hotspot & tethering.
6. Select **USB tethering** to initiate the shared data connection.

   **Note:** To stop sharing the connection, tap **USB tethering** again to turn Off the feature or disconnect the USB accessory.

### Minimum requirements for Bluetooth Tethering

- All devices must support Bluetooth communication.

### Set up and Connection

1. Pair the EDA51 with another Bluetooth enabled device.
2. Verify the other device is set to use a network connection using Bluetooth technology.
3. Swipe up from the bottom of the Home screen to access all apps.
4. Tap **Settings > Network & tethering > Hotspot & tethering**.
5. Select **Bluetooth tethering** to initiate the shared data connection.

   **Note:** To stop sharing the connection, tap **Bluetooth tethering** again to turn Off the feature.

### About Near Field Communication (NFC)

NFC technology provides the ability for short-range, WWAN data transfer between the EDA51 and NFC tags or other NFC enabled devices placed in close proximity to the back of the computer. All EDA51 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 Nano SIM slot.
To download the Honeywell Mobility SDK for Android and EZConfig for Mobility:

2. Select 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 barcodes do not scan and process.
- \honeywell\autoinstall folders are inaccessible.

Note: To learn more about network and security for Honeywell mobile computers with Android operating systems, go to sps.honeywell.com.

Enable or Disable Provisioning Mode

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap Settings > Honeywell Settings > Provisioning mode.
3. Tap the button to toggle the provisioning On or Off.
Use this chapter to understand how to upgrade software, reset, and maintain the mobile computer EDA51.

About Software Updates

Cyber security best practices include keeping your device apps and OS up to date. To help, Honeywell offers maintenance patches, security updates and operating system upgrades through our Honeywell Edge services. Availability and cost depend on the following:

- Date of purchase of the device or software app.
- Warranty status.
- Service agreement status (devices) or Maintenance plan status (apps).

To learn more about Honeywell Edge Services, go to https://sps.honeywell.com/us/en/services/productivity/support-services.

Software Downloads

Product support is available online through Technical Support. Software updates can be accessed through the Software Downloads portal. You will need to create a login account for portal access. Additional information such as purchased date, service agreement number, maintenance plan number, or software license number may be required for downloads.

2. Create a login account if you have not already created one.
3. Install the Honeywell Download Manager tool. See “Note” on the portal page. This tool is required for downloads.
4. Locate the app or upgrade you want to download in the Software directory.
5. If prompted, enter additional information, and click Submit.
6. 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 the upgrade 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 17.

Install Software Updates with AutoInstall

**Important:** The EDA51 must have power for the entire length of the upgrade 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 upgrade file (*.zip or *.apk) in one of the following folders on the EDA51 mobile computer:
   - **Internal shared storage\honeywell\autoinstall**
     Software upgrades saved to this folder for installation, do not persist when a Full factory reset or Enterprise data reset is performed.
   - **IPSM card\honeywell\autoinstall**
     Software upgrades saved to this folder, do not persist when a Full factory reset is performed. However, the upgrade 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.

**Note:** Some updates do not require the computer to restart before installation.
Optional microSD Card Method

The EDA51 comes equipped with a microSD card socket. You can install an upgrade from a microSD card you insert in the computer.

**Important:** The EDA51 must have power for the entire length of the upgrade process or it could become unstable. Do not attempt to remove the battery during the process.

1. On the EDA51, 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 upgrade file in the **autoinstall** folder.
8. Install the microSD card in the EDA51, and then press the **Power** button.

The computer automatically runs the upgrade found in the autoinstall folder on the card. The system update screen appears during the upgrade process. When the upgrade 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 or view the current OTA version installed on the computer.

How to 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 number 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** > **Provisioning mode** under Honeywell Settings.
3. Tap the toggle button to turn Provisioning mode **On**.
4. Save the OTA file (*.zip) in the following folder on the EDA51 computer:
   - **Internal shared storage\Download**
5. Tap **HUpgrader** to open the Honeywell Updater app.
6. Tap 🔄 in the upper right corner, 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.

![OTA Update Screen]

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 restart 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 **Restart**. The computer restarts.

If the touch panel display is unresponsive:
- Press and hold the **Power** button for approximately 8 seconds until the computer restarts.
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 an 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** > **System** > **Advanced** > **Reset options**.
3. Tap **Enterprise data reset**.
4. Tap **Reset Phone**.
5. If prompted, type your screen lock security pattern, PIN, or password and tap next ( ).
   - Tap **Erase Everything**. A message appears informing you an Enterprise data reset is being performed.
About 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 EDA51 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** > **System** > **Advanced** > **Reset options**.
3. Tap **Erase all data (factory reset)**.
4. Tap **Reset Phone**.
5. If prompted, type your screen lock security pattern, PIN, or password and tap next ( ).
6. EDA51 will restart and automatically clear user data.
7. Tap **Erase Everything**. A message appears informing you an Enterprise data reset is being performed.
Repairs

Repairs and/or upgrades are not to be performed on this product. These services are to be performed only by an authorized service center (see Customer Support on page ix).

Maintenance

Your device provides reliable and efficient operation with a minimum of care. Although specific maintenance is not required, the following sections describe periodic checks to ensure dependable operation.

Clean the computer

The computer housing, scanner window, camera window and touch screen may be cleaned with a soft cloth dampened with water or a mild detergent-water solution. If a mild detergent solution is used, wipe the computer with a clean cloth dampened only with water to remove any detergent residue.

**Note:** Reading performance may degrade if the scanner window is not clean. If the window is visibly dirty, or if the scanner is not operating well, clean the window.

**Caution:** Do not submerge the computer in water or cleaning solution. Do not use abrasive wipes or cloths on the windows or touch screen. Abrasive wipes may scratch the windows and touch screen. Never use solvents (e.g., acetone) on the housing or window. Solvents may damage the computer finish, the windows or touch screen.

**Caution:** Ensure all components are dry prior to mating the computer with charging accessories or other peripheral devices. Mating wet components may cause damage not covered by the warranty.

About Disinfectant-ready Models

Some configurations of EDA51 computer are available with an external plastic housing that is designed to resist the effects of harsh chemicals. These scanners are equipped with disinfectant-ready housings (DRH) for the healthcare and general-purpose markets.

Please refer to the Honeywell Safety and Productivity Solutions website for specific details on how to clean EDA51 computer with disinfectant-ready housings. Helpful information on the care of these specialty products can be found in the following articles:

- Learn to Clean Honeywell Healthcare Disinfectant-Ready Products.
- Honeywell Instructions for Cleaning General Purpose Disinfectant-Ready Housing Devices.
Computer Agency Information

EDA51 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 and in this user guide. Read all guidelines before using your computer.

Product documentation is available for download from sps.honeywell.com.

Public certificates are available for download from honeywell.com/PSStechnicalsupport.

Physical and Environmental Specifications

2. Type EDA51 in the Search box and then press Enter.
3. Select the Products tab.
4. Click the red arrow under the EDA51 computer description.
5. Select one of the following:
   - **Specifications**
     View System Architecture, WWAN Connectivity, Mechanical, and Environmental specifications.
   - **Documents**
Imager Specifications

The EDA51 series offers three Honeywell high-performance imagers:

- N3601 Imager Engine
- N6603 Slim Imager Engine
- N6703 Ultra-Slim Imager Engine

Barcode Symbologies Supported

The computer supports the following barcode symbologies:

<table>
<thead>
<tr>
<th>1D Symbologies</th>
<th>2D Symbologies</th>
<th>Postal Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Default</td>
<td>Default</td>
</tr>
<tr>
<td>Code 128</td>
<td>Enabled</td>
<td>DataMatrix</td>
</tr>
<tr>
<td>GS1-128</td>
<td>Enabled</td>
<td>Grid Matrix</td>
</tr>
<tr>
<td>Code 39</td>
<td>Enabled</td>
<td>Aztec Code</td>
</tr>
<tr>
<td>UPC-A</td>
<td>Enabled</td>
<td>Codablock A</td>
</tr>
<tr>
<td>UPC-E</td>
<td>Enabled</td>
<td>Codablock F</td>
</tr>
<tr>
<td>EAN-8</td>
<td>Enabled</td>
<td>Digimarc</td>
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<tr>
<td>EAN-13</td>
<td>Enabled</td>
<td>Dotcode</td>
</tr>
<tr>
<td>Codabar</td>
<td>Enabled</td>
<td>HanXin</td>
</tr>
<tr>
<td>Code 11</td>
<td>Disabled</td>
<td>Maxicode</td>
</tr>
<tr>
<td>Code 93</td>
<td>Disabled</td>
<td>Micro PDF 417</td>
</tr>
<tr>
<td>Composite</td>
<td>Disabled</td>
<td>PDF 417</td>
</tr>
<tr>
<td>GSI 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>
<tr>
<td>Interleaved 2 of 5</td>
<td>Enabled</td>
<td>OCR</td>
</tr>
<tr>
<td>Matrix 2 of 5</td>
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<td></td>
</tr>
<tr>
<td>MSI</td>
<td>Disabled</td>
<td></td>
</tr>
<tr>
<td>Standard 2 of 5</td>
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<td>Telepen</td>
<td>Disabled</td>
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</tr>
<tr>
<td>Trioptic</td>
<td>Disabled</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** To learn about changing the symbology settings, see *Change the Scanner Settings* on page 32.
N6703 Ultra-Slim Imager Engine Reading Distances

The depth of field measurements were taken using these parameters:

- Distances are measured from the front of the engine to the barcode
- 23 °C (+73 °F), 0 lux for guaranteed and 200 lux for typical
- Clear, High quality barcodes

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

Guaranteed Specs

<table>
<thead>
<tr>
<th>Symbology</th>
<th>Standard Range (SR)</th>
<th>Near Distance</th>
<th>Far Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 mils Code 39</td>
<td>cm</td>
<td>7.9</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>in.</td>
<td>3.11</td>
<td>10.63</td>
</tr>
<tr>
<td>10 mils Code 39</td>
<td>cm</td>
<td>4</td>
<td>45</td>
</tr>
<tr>
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<td>in.</td>
<td>1.57</td>
<td>17.72</td>
</tr>
<tr>
<td>20 mils Code 39</td>
<td>cm</td>
<td>4.4</td>
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</tr>
<tr>
<td></td>
<td>in.</td>
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<td>26.53</td>
</tr>
<tr>
<td>13 mils 100% UPC-A</td>
<td>cm</td>
<td>4.4</td>
<td>51.5</td>
</tr>
<tr>
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<td>in.</td>
<td>1.73</td>
<td>20.27</td>
</tr>
<tr>
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<td>cm</td>
<td>4.2</td>
<td>57.2</td>
</tr>
<tr>
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<td>in.</td>
<td>1.65</td>
<td>22.52</td>
</tr>
<tr>
<td>10 mils Data Matrix</td>
<td>cm</td>
<td>8.3</td>
<td>23.6</td>
</tr>
<tr>
<td></td>
<td>in.</td>
<td>3.27</td>
<td>9.29</td>
</tr>
<tr>
<td>5 mils PDF 417</td>
<td>cm</td>
<td>11.9</td>
<td>17.7</td>
</tr>
<tr>
<td></td>
<td>in.</td>
<td>4.68</td>
<td>6.97</td>
</tr>
<tr>
<td>6.7 mils PDF 417</td>
<td>cm</td>
<td>9.6</td>
<td>23.6</td>
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<td>in.</td>
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<tr>
<td>7 mils QR</td>
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<td>14.7</td>
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<tr>
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<td>in.</td>
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</tr>
<tr>
<td>15 mils QR</td>
<td>cm</td>
<td>3.9</td>
<td>39.0</td>
</tr>
<tr>
<td></td>
<td>in.</td>
<td>1.54</td>
<td>15.35</td>
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Typical Specs

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<th>Near Distance</th>
<th>Far Distance</th>
</tr>
</thead>
<tbody>
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<td>10.6</td>
<td>17.6</td>
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<tr>
<td></td>
<td>in.</td>
<td>4.17</td>
<td>6.93</td>
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### N6703 Ultra-Slim Imager Engine Field of View/Resolution

<table>
<thead>
<tr>
<th>Symbology</th>
<th>Focus</th>
<th>Standard Range</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Near Distance</td>
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<tr>
<td>5 mils Code 39</td>
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<td></td>
<td>in.</td>
<td>1.57</td>
</tr>
<tr>
<td>20 mils Code 39</td>
<td>cm</td>
<td>4.4</td>
</tr>
<tr>
<td></td>
<td>in.</td>
<td>1.73</td>
</tr>
<tr>
<td>13 mils 100% UPC-A</td>
<td>cm</td>
<td>4.4</td>
</tr>
<tr>
<td></td>
<td>in.</td>
<td>1.73</td>
</tr>
<tr>
<td>13 mils 20% UPC-A</td>
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<tr>
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<td>in.</td>
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</tr>
<tr>
<td>15 mils Code 128</td>
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<td>4.2</td>
</tr>
<tr>
<td></td>
<td>in.</td>
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<tr>
<td>10 mils Data Matrix</td>
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</table>

**Note:** DPI can be calculated based on the following formula:
- Horizontal DPI = 1280 pixels/width of horizontal field of view (inches)
- Vertical DPI = 800 pixels/width of vertical field of view (inches)
N6603 Slim Imager Engine Reading Distances

The depth of field measurements were taken using these parameters:

- Distances are measured from the top of the engine to the barcode
- 23 °C (+73 °F), 10K lux
- Clear, High quality barcodes

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

**Guaranteed Specs**

<table>
<thead>
<tr>
<th>Focus</th>
<th>Symbology</th>
<th>Near Distance</th>
<th>Far Distance</th>
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<td></td>
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<td>9.1</td>
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<td>18.5</td>
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<td>7.3</td>
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**Typical Specs**

<table>
<thead>
<tr>
<th>Focus</th>
<th>Symbology</th>
<th>Near Distance</th>
<th>Far Distance</th>
</tr>
</thead>
<tbody>
<tr>
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<td>16.3</td>
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<td>cm</td>
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<tr>
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<td>cm</td>
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<td>20.3</td>
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<td>8.0</td>
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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

The depth of field measurements were taken using these parameters:
- Distances are measured from the top of the engine to the barcode
- 23 °C (+73 °F), 10K lux
- Clear, High quality barcodes

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

**Guaranteed Specs**

<table>
<thead>
<tr>
<th>Focus</th>
<th>Standard Range</th>
<th>Symbology</th>
<th>Near Distance</th>
<th>Far Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>cm</td>
<td>in.</td>
</tr>
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<td></td>
<td></td>
<td>100% UPC-A</td>
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<td></td>
<td></td>
<td></td>
<td>2.4</td>
<td>18.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 mils Code 39</td>
<td>9.7</td>
<td>17.6</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3.1</td>
<td>6.9</td>
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<td>10 mils Code 39</td>
<td>3.1</td>
<td>45.5</td>
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<td>63.0</td>
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<td>60.0</td>
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<td></td>
<td>2.4</td>
<td>23.6</td>
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<td></td>
<td></td>
<td>6.7 mils PDF 417</td>
<td>6.3</td>
<td>19.0</td>
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<td>2.5</td>
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<td>15 mils QR</td>
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<td>2.4</td>
<td>10.6</td>
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</table>
## Typical Specs

### Focus

<table>
<thead>
<tr>
<th>Symbology</th>
<th>Near Distance</th>
<th>Far Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>100% UPC-A</td>
<td>6.0 cm</td>
<td>52.0 cm</td>
</tr>
<tr>
<td></td>
<td>2.4 in.</td>
<td>20.5 in.</td>
</tr>
<tr>
<td>5 mil Code 39</td>
<td>7.5 cm</td>
<td>18.9 cm</td>
</tr>
<tr>
<td></td>
<td>3.0 in.</td>
<td>7.4 in.</td>
</tr>
<tr>
<td>10 mil Code 39</td>
<td>3.1 cm</td>
<td>45.5 cm</td>
</tr>
<tr>
<td></td>
<td>1.2 in.</td>
<td>17.9 in.</td>
</tr>
<tr>
<td>20 mil Code 39</td>
<td>6.5 cm</td>
<td>63.0 cm</td>
</tr>
<tr>
<td></td>
<td>2.6 in.</td>
<td>25.8 in.</td>
</tr>
<tr>
<td>15 mil Code 128</td>
<td>6.0 cm</td>
<td>60.0 cm</td>
</tr>
<tr>
<td></td>
<td>2.4 in.</td>
<td>23.6 in.</td>
</tr>
<tr>
<td>6.7 mil PDF 417</td>
<td>6.3 cm</td>
<td>19.0 cm</td>
</tr>
<tr>
<td></td>
<td>2.5 in.</td>
<td>8.0 in.</td>
</tr>
<tr>
<td>15 mil QR</td>
<td>5.0 cm</td>
<td>28.0 cm</td>
</tr>
<tr>
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<td>2.0 in.</td>
<td>12 in.</td>
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### Focus

<table>
<thead>
<tr>
<th>Symbology</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** = \( \frac{832 \text{ pixels}}{\text{width of horizontal field of view (inches)}} \)
- **Vertical DPI** = \( \frac{640 \text{ pixels}}{\text{width of vertical field of view (inches)}} \)