Honeywell



CK65 Series

Mobile Computer powered by Android™



User Guide

Discl aimer

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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, then select Support > Productivity 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 clickSupport > Productivity > Warranties.

CHAPTER

1

ABOUT THE COMPUTER FEATURES

This chapter introduces the CK65 Mobile Computer. Use this chapter to learn about the basic computer features, functions, and accessories.

About the CK65 Mobile Computer

CK65 mobile computers, built on the Mobility Edge™ platform, deliver real-time connectivity, advanced data capture, and future-proof investment protection. A 4-inch touchscreen with the option to choose between an alphanumeric or numeric keypad with function keys provides the flexibility to fit current and future application environments. CK65 models are equipped for fast Wi-Fi connectivity with a WLAN 802.11a/b/g/n/ac, dual-band, MIMO radio and Bluetooth (v5.0) technology that includes Bluetooth Low Energy (BLE) support.

The CK65 standard model series offers a choice of four imagers:

- S0703-SR, standard range imager
- S0803-LR, FlexRange XLR imager
- N6803-FR, FlexRange imager
- EX20 Near/Far imager for long-range scanning applications up to 15.2 m (50 ft).

Note: **CK65 models with the N6703-SR Standard Range imager have been retired.**

Honeywell offers heater-equipped cold storage CK65 versions to extend the use of the mobile computer in cold storage and freezer environments. CK65 cold storage models can be identified by a snowflake on the front of the computer.

Starting in January 2021, standard and cold storage CK65 models come equipped with disinfectant-ready (DR) housings. Previously, disinfectant-ready CK65 models were identified by a water drople on the front of the computer. To learn how to identify if your CK65 computer has DR housing, see page 107.

CK65 models intended for use in hazardous locations are identifiable by specific labeling on the back of the device and are excluded from the DR product line.

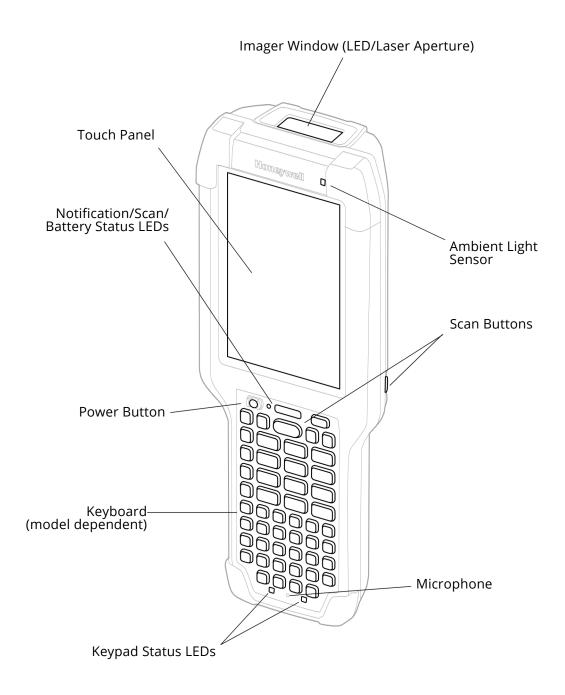
Note: Throughout this manual, all versions of the mobile computer are referred to as the CK65 unless information is specific to a particular model type.

Note: The Settings app varies by computer model and OS version. Your computer may not include all the features shown throughout the manual.

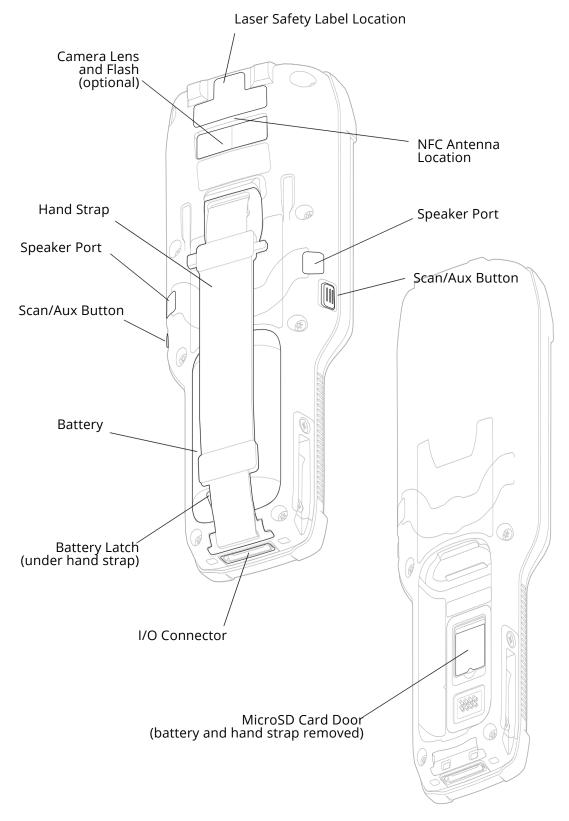
Model Overview

Available Features	Model CK65L0N
Android operating system*	Х
2.2 GHz Qualcomm Snapdragon™ 660 octacore processor	Х
2 GB/4 GB LPDDR4 RAM, 32 GB flash memory	Х
High definition, bright color, outdoor-readable display with responsive multi-touch capacitive touch panel	х
Integrated ambient light sensor, accelerometer, gyroscope, and magnetometer	Х
Choice of physical keypad:	Х
· Two alphanumeric and function keypads	
· Two numeric and function keypads	
· Large numeric and function keypad	
Choice of Honeywell imager:	Х
 S0803-LR FlexRange XLR, S0703-SR Standard Range, N6803-FR FlexRange ** 	
· EX20 Near/Far Long Range	
WLAN IEEE 802.11 a/b/g/n/ac radio; Wi-Fi certified	Х
Bluetooth™ V5.0 and Bluetooth Low Energy (BLE) technology su	ı p port
NFC technology for short-range wireless data exchange	Х
Top-tier rugged specifications with IP65 and IP68 (1.5m) sealing	Х
Customer-accessible microSD™ slot for removable memory card to 512 GB (SDXC/SDHC/SDIO-compliant)	
Value-added software components supporting specialized imag	ing
and OCR functions	
13-megapixel color camera, 4K video with image stabilization an	a ^x
advanced software features for enhanced exposure control** *For information on supported Android OS versions, see the CK6	5 Data Shoot
available at sps.honeywell.com. ** Camera and imager options vary for CK65 cold storage models	

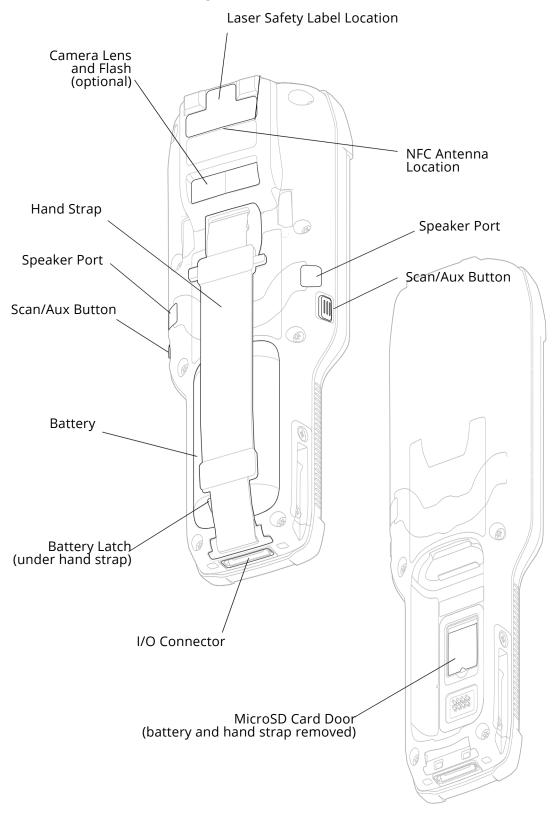
Features of the CK65



CK65 Model with S0803-LR/S0703-SR/N6803-FR/N6703-SR Imager



CK65 Model with EX20 Imager



CK65 Models for Use in Hazardous Locations

An I/O cover is supplied with CK65 models marked as certified for use in hazardous environments. CK65 models intended for use in hazardous locations are identifiable by specific labeling on the back of the device.



Warning: Before you attempt to use, charge or replace the battery in CK65 models marked for use in hazardous locations, carefully read all labels, markings and product documentation provided in the box or online at sps.honeywell.com.



Warning: The I/O cover must be attached when using the CK65 in a hazardous environment.



About the Battery

The computer uses a rechargeable Li-ion battery as its main power source. Several factors determine the life of your battery, such as display brightness, display timeout, input device, extreme temperature, and usage.

CK65 computers are designed for use with batteries manufactured for Honeywell International, Inc. See Battery Identification on page7 for guidance on the correct battery for your unit configuration.

For a list of compatible accessories, see the CK65 accessories catalog, available for download from the product device page at sps.honeywell.com. Contact your local sales representative for replacement battery ordering information.



Caution:Read Battery Recommendations and Safety Precautions on page7 and all cautionary markings on the battery, charging peripheral, and device using the battery before attempting to install, use, or charge the battery.

Battery Identification

Not all batteries are the same due to computer model and/or configuration variations. The battery needed for a CK65 will differ based on whether it is needed for a standard, Cold Storage, or Hazardous Location model.

Computer CK65 (standard)	Battery Model	Battery Part Number	Replacement Battery SKU
	CK65-BTSC	318-063-001	318-063-001
CK65 Cold Storage	CK65-BTCS	318-063-002	318-063-002
CK65 Hazardous Location	CK65-BTSC	318-063-003	318-063-003

Note: CK3 battery models AB17, AB18, and 1001AB01 can also be used with standard CK65 models, but not with cold storage or hazardous location models. See the CK3 User Guide for more information.

Battery Recommendations and Safety Precautions

This section provides additional information on the safe use, handling and storage of the Lithium-ion rechargeable battery designed for use with the computer.

To learn more about Battery Maintenance for Portable Devices, go to honeywell.com/PSS-BatteryMaintenance.

Safety



Caution:Before you attempt to charge or replace the battery carefully read all labels, markings and product documentation provided in the box or online at sps.honeywell.com.



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.



Caution:Ensure all components are dry prior to mating the computers and batteries with peripheral devices. Mating wet components may cause damage not covered by the warranty.

- Do not store the CK65-BTSC or CK65-BTCS battery at temperatures above 60 °C (140 °F), such as inside a car on a hot day or in direct sunlight. Storage above 60 °C (140 °F) may damage the battery.
- Avoid dropping the battery or computer. If you suspect that the battery or computer is damaged or if intermittent power and charging issues occur, send the relevant device(s) to a Honeywell service center for inspection of the

computer and/or battery. To learn more about returns refer to Product Service and Repair on pagexi.

- Do not use the battery if it is noticeably deformed, swollen, or discolored. Replace immediately and discard as noted in the Caution at the beginning of this Safety section.
- Do not use the battery if it is too hot to handle. Replace immediately and discard.
- 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 the battery.
- Do not solder directly to the battery contacts.
- Do not drop the battery or apply mechanical shocks or pressure to the battery.
- 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 disassemble a battery or try to open or penetrate its housing.
- Stored batteries should be separated, not touching any other battery, device, charger, or accessory.
- Do not store or carry batteries where they are in close proximity to or touching conductive material (metal). For example, in a pocket where zippers, coins and office supplies (e.g., pens, paperclips) could also be located.
- See Important Environmental Considerations on page 10 for information about handling the battery in environments where moisture buildup can occur.
- Before you attempt to charge or replace the battery in models marked for use in hazardous locations, see CK65 Models for Use in Hazardous Locations on page 6.

Use and Storage

When setting up the computer, you should consider how apps, services, and UI settings affect battery power consumption. Set the screen timeout feature to turn off the screen sooner and enable the Adaptive brightness feature to minimize battery use. Restrict unnecessary apps or services from running in the background to prevent battery drain. Utilize the Battery saver and Battery manager features to conserve power. Turn on Airplane mode to conserve battery power if network connectivity is limited or is not needed.

Keep in mind that Lithium-ion battery capacity declines over time due to stress from repeated charge-discharge cycles and environmental factors such as extreme operating/storage temperatures and humidity. As the battery lifespan/health declines, the battery energy dissipates more quickly or may take longer to charge.

Remember that the battery self-discharges slowly over time, even if the computer is turned Off or the battery is stored outside the computer. Environmental factors such as extreme temperature and humidity affect self-discharge rates and can impact the battery the battery lifespan.

Follow the recommendations below for battery use and storage.

- For maximum battery life, charge the CK65-BTSC or CK65-BTCS battery at 20 °C (68 °F) to 25 °C (77 °F) and store at 23 °C (73 °F) with a 50% charge.
- Use only Honeywell approved charging methods and devices. See Charge the Battery Before Use on page9. Use of this battery in other devices could result in damage to the device or battery.
- Replace the battery only with a Honeywell replacement battery. See Battery Identification on page7 for guidance on the correct battery for your unit configuration. These batteries have been tested in accordance with applicable safety standards. Contact your Honeywell sales representative or distributor if this battery is no longer available.
- Batteries should be replaced periodically, typically every two years or if the battery health falls below 70% (see Check the Battery Level, Health and Usage on page13).
- Promptly recharge the battery or replace battery with a charged battery when you notice the battery status icon indicates the charge is low.
- Avoid allowing the battery to be completely drained since this applies stress on the battery and may shorten lifespan.
- Do not store batteries in a charger that is not connected to power.
- 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.
- If you are storing the computer for longer than a few days, remove and charge the battery. When the battery is done charging, store both the battery and the computer separately in a cool and dry location. Periodically check the battery charge level. This is especially critical when storing batteries for several months since the battery will gradually self-discharge and a fully drained battery can impact the battery lifespan.

Charge the Battery Before Use

CK65 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 CK3 series charging accessory before or after you install the battery in the computer.

CK65 Charging Accessory	CK65-BTSC Charge Times
AC20 quad charger	up to 4 hours up to 4 hours
AD20 single dock	up to 4 hours
AD21 Ethernet multidock	

CK65 Charging Accessory	CK65-BTSC Charge Times
AD22 charge-only multidock	up to 4
AV10 vehicle dock	hours up to
DX2 or DX4 with FlexDock cup 1002UC0	2 4 hours up
Universal wall mount charger	to 4 hours

up to 4

Note: CK3 battery models AB17, AB18, and 1001AB01 can take up to 1 to 2 additional hours to reach a full charge when battery is fully discharged. See the CK3 User Guide for more information.

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

Change the Battery

When battery power is low, you have the choice to either charge the battery in the computer, or replace it with another fully charged battery. Spare batteries can be purchased separately. (See also Check the Battery Level, Health and Usage on page13.)



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

Cold Environments

When replacing a battery in a CK65 that has been used in a cold environment, either:

- Replace the battery in the computer while still in the cold environment. For more information, see Important Environmental Considerations on page 10.
 OR
- Remove the computer from the cold environment and allow it to come to room temperature before replacing the battery.



Caution:Do not store a computer in a cold environment without a battery inserted.

Important Environmental Considerations

Environmental variations can quickly cause moisture to form on exposed surfaces during battery exchanges and mobile computer location changes for charging. This is why it is always important to ensure all exposed surfaces are dry and free of moisture buildup before installation, especially if the devices have sensitive communication/charging contacts. Examples of moisture include, but are not limited to condensation in the form of frost, dew and fog.

Hot Swap

You can replace the battery on demand provided the following conditions are met:

- The computer has been powered on for at least 4 minutes.
 AND
- You insert a new battery within 30 seconds.

Swap Battery Mode

Swap Battery mode places the computer in a low power state so that the battery can be removed for a short time.

- 1. Save your files and close any open applications.
- 2.Press and hold the Power button until the options menu appears.
- 3.Tap Swap Battery. Follow the on-screen instructions to place the unit in battery swap mode.
- 4. Release the end of the hand strap at the bottom of the computer.

Bush the battery latch toward the battery to release the lock.

- 6.Lift up the edge of the battery and remove it from the computer.
- 7.Insert the charged battery into the computer.
- 8. Press down on the bottom edge of the battery to engage the lock.
- 9. Attach the hand strap.
- 10.Once you replace the battery, press the Power button.

About the Battery Status

To view detailed information on your battery, such as use statistics, amount of charge remaining, and battery health information:

1. Open the Settings app



2. Select either Battery or Honeywell Settings > Battery Optimizer.

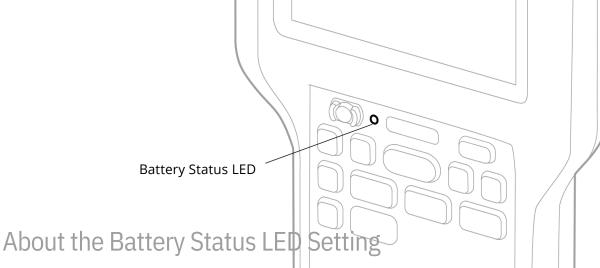
You can also use the battery icon at the top of the screen in the Status bar to see battery charge information. The icon changes depending on the charge level.

Battery Status Icons

Icon	Status
	The battery charge is at 100%.
	The battery charge is at 50%.

Icon	Status	
ů.	The battery charge is low. You need to charge or replace the battery soon.	
Ø	The battery is critically low. You need to replace the battery now or connect the co to a charging accessory.	mputer
Û	The computer is connected to external power and the battery is charging.	
8	There is a battery error. Install another battery. If the problem persists, contact Ho Technical Support.	neywell

Along with the battery icon, there is a battery status LED below the touch screen. The LED color and behavior (e.g., steady on, blinking, or 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 12.



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:

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

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

Connected to	LED State	Description
Power	Blinking amber	Battery level is below 15%
	Off	Battery level is more than 15%
No No Yes Yes Yes	Steady amber	Battery level is between 0% and 60%
	Blinking green	Battery level is between 60% and 95%
	Steady green	Battery level is above 95%

Connected to Power	LED State	Description
Either	Blinking red	Battery error

Default Battery LED Behavior (Optional Android OS Configuration)

Connected to	LED State	Description
Power	Blinking red	Battery level is below 15%
	Off Steady	Battery level is 15% or more
No No Yes Yes Yes	red Steady	Battery level is below 15%
	amber	Battery level is between 15% and 90%
	Steady	Battery level is 90% or more

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.

Change the Battery Status LED Behavior

To change the battery status LED behavior:

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

2.Tap Settings 🔯 > Honeywell Settings > Battery LED.

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

Check the Battery Level, Health and Usage

In addition to the Battery status icon and LED, you can use one of the following methods to monitor the battery status:

- 1. Swipe up from the bottom of the Home screen to access all apps.
- 2. Select one of the following:
 - Settings 🔯 > Battery The current percentage of battery power remaining and the amount of usage

time left on the battery appear on the screen. You can also access the Battery saver feature from the battery screen.

- Settings > Honeywell Settings > Battery Optimizer
 View battery status, health and app usage information. Create and enable or disable a power optimization profile that implements a group of settings to conserve power.
- Power Tools > BattMon
 Refer to the Power Tools user guide available at sps.honeywell.com.

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. Select a language and then tap Start. You can either scan a configuration barcode or select manual to set up the computer. To learn more about how to Scan Barcodes, see page 57. To learn more about configuring multiple devices using the Wi-Fi Staging app, see page 88.

During the manual setup process, follow the prompts on the screen to:

- Set up the Wi-Fi network connections.
- Set the time, date, and time zone if no Wi-Fi connection is available.
- 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 88.

Unlock the Screen

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

• Swipe up from the bottom of the screen.

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

Change the Screen Lock to Protect the Computer

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

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

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

Select a Touch Screen Profile to Optimize Performance

Optimize screen interactions by selecting a touch screen profile designed specifically for your use case. For example, if you wear gloves, set the touch screen profile to Glove use enhanced for the best touch screen response.

 $_{Note:}$ Maximum glove thickness of 2 mm (0.08 inches) for touch screen response.

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

2.Tap Settings 💿 > Honeywell Settings > Touch Screen Profile.

- 3. Choose one of the following options:
 - · Normal mode
 - Finger enhance mode
 - · Glove enhance mode
 - · Stylus enhance mode
 - Protector mode
- 4. Exit the Settings app.

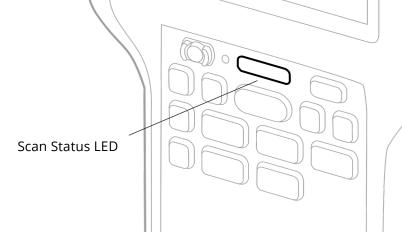
Configure the Screen Backlight

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 then select 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. The Scan Status LED is located below the touch screen.



Scan Status LED Descriptions

LED Color	Description
Green	Good read of a barcode.
Red	Failure to scan barcode. Check to make sure you have the correct symbology enabled.

Note: The behavior of the Scan Status LEDs is determined by the scanning notification settings (see page 54).

To learn more about how to use and configure the imager engine for scanning, see Use the Image Engine beginning on page 47.

About the Keypad

The CK65 is available in a variety of keypad configurations.

Alphanumeric Keypads

51-Key 53-Key

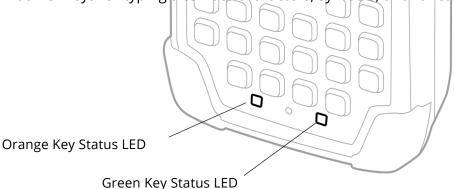






Keypad LEDs

Special characters and alternate functions are entered by pressing color-coded key sequences. Keypad LEDs located at the bottom of the keypad indicate when a color-coded modifier key is active. All models include both orange and green modifier keys for typing alternate characters, symbols, and functions.



Keypad LED Descriptions

Status LED	Color	Description	
Orange Modifier Key Status	Orange	Illuminated when the orange modifier key is enable	∍d.
Green Modifier Key Status	Green	Illuminated when the green modifier key is enabled	J.

About the Color-Coded Keys

Use the keypad color-coded modifier key(s) to access all the characters, numbers, symbols, and functions marked on the computer keys and keypad overlay.

Note: On any keypad, you can lock the modifier key On and type only symbols or special characters by pressing the orange or green modifier key twice in rapid succession. Press the modifier key again to unlock the modifier.

Enter Characters on Alphanumeric Keypads 51-Key Keypad

Computer models with a 51- key alphanumeric keypad include orange and green modifier keys for typing symbols and special characters. The keypad also has customizable auxiliary keys (F1 to F5) that can provide up to five additional key functions.

To learn more about customizing the key functions, see Remap a Button or Key on page 37.

To type an alphabetic character or a number:

Press the relevant character or number key.

To type a symbol or special character:

- 1. Press the orange or green modifier key.
- 2. Press the key for the symbol or special character.

Example: Press • and then to type a question mark.

To type a single uppercase alphabetic character:

1.Press the orange modifier key then **A**.

A will display in the status bar to indicate that shift is

2. Press the character. The shift notifier in the status bar will turn Off.

Example: Press •• Athen Y to type the capital letter Y.

To type all uppercase alphabetic characters:

1.Press the orange modifier key then **B**.

A will display in the status bar while caps lock is On.

- 2. Press the character keys.
- 3. Press the orange modifier key and **B** again to turn caps lock Off.

Example: Press **B** and then **COLD** to type the word COLD in all caps.

53-Key Keypad

The 53-key layout provides a Shift key and a Diamond key. The Diamond key provides a virtual keyboard with nine additional characters.

To type an alphabetic character or a number:

Press the relevant character or number key.

To type a symbol or special character:

- 1.Press the green modifier key.
- 2.Press the key for the symbol or special character.

Example: Press and then **U** to type an asterisk.

To type a single uppercase alphabetic character:

- 1. Press SHIFT.
- 2. Press the character.

Example: Press $_{\text{SHIFT}}$ then $_{\text{Y}}$ to type the capital letter Y.

To type all uppercase alphabetic characters:

- 1.Press SHIFT twice to turn the caps lock On.
- 2. Press the character keys.
- 3.Press shift again to turn caps lock Off.

Example: Press SHIFT and then COLD in all caps.

To type a single special character with the Diamond key:

To use the Diamond key you must first enable the virtual keyboard:

- 1. Swipe up from the bottom of the Home screen to access all apps.
- 2.Select Settings > System > Languages & input> Physical keyboard.
- 3. Enable Use on-screen keyboard.
- 4.Press in a text field. A nine-character matrix of special characters displays.
- 5. Tap a character.

To type multiple special characters with the Diamond key:

- 1. If you have not already, enable the virtual keyboard (see previous section.)
- 2.Double-tap to lock the Diamond key on.
- 3. Tap the characters.
- 4.Press → again to hide the matrix.

Enter Characters on Numeric Keypads

Computer models with numeric keypads include orange and green modifier keys for typing alphabetic characters and special characters as well as accessing functions. The keypads also have customizable auxiliary keys (F1 to F12) that when used in conjunction with the green modifier key can provide up to 24 additional key functions.

To learn more about customizing the key functions, see Remap a Button or Key on page 37.

To type a number:

· Press the relevant number key.

To type a single alphabetic character or symbol:

1. Press the orange or green modifier key.

(If you press the orange key, a will display in the statukeypad is in alphabetic mode.)

^{2.} Press the key for the letter or special character.

Example: Press on and then **Esc** to type a lower case a.

To type multiple alphabetic characters:

1. Press the orange modifier key twice to lock it On.

a will display in the status bar.

- 2. Press the keys for the letters you want to input.
- 3. Press the orange modifier key once to return to typing numbers.

Example: Press and then **8** F1 • 9 to type the word "cold" in lower case letters.

To type a single uppercase alphabetic character:

- 1. Press the orange modifier key once.
 - a will display in the status bar.
- 2. Press <.

a will change to A in the status bar to let you know sh

- 3. Press the orange modifier key again.
- 4. Press the character key.

Example: Press then f11 to type the capital letter Y by itself.

Alternately, to type a single uppercase alphabetic character with the modifier key locked on:

- 1. Press the orange modifier key twice to lock it On.
- 2. Press <.
- 3. Press the character key.

Example: Press • • • • • then • • • to type the word "Cold".

To type all uppercase characters:

- 1. Press the orange modifier key twice.
 - a will display in the status bar.
- 2. Press >.

a will change to A in the status bar when caps lock is t

- 3. Press the character keys.
- 4.Press again to turn caps lock Off.

Example: Press

Then

The

42-Key Keypad

To type a number:

Press the relevant number key.

To type a single alphabetic character or symbol:

- 1.Press the orange modifier key.
- 2.Press the key for the letter or special character one to four times in rapid succession depending on the position of the character illustrated on the key.

Example: Press on and then ABC 8 ABC 8 to type a lower case c.

To type multiple alphabetic characters:

- 1. Press the orange modifier twice to lock it On.
- 2. Press the keys for the letters or special characters one to four times in rapid succession depending on the position of the character illustrated on the key.
- 3. Press the orange modifier key once to return to typing numbers.

Example: Press and then

ABC 8 ABC 8

To type a single uppercase alphabetic character:

- 1. Press SHIFT.
- 2.Press the orange modifier once.
- 3. Press the key for the letter or special character one to four times in rapid succession depending on the position of the character illustrated on the key.

Example: Press SHIFT on and then (WXYZ 3) (WXYZ 3) to type the capital letter Y.

To type all uppercase alphabetic characters:

- 1. Press shift twice to turn the caps lock On.
- 2. Press the orange modifier twice.
- 3. Press the keys for the letters one to four times in rapid succession depending on the position of the character illustrated on the keys.



Enter Characters on the Large Numeric Keypad

Computer models with a large numeric keypad include orange and green modifier keys for typing alphabetic characters and special characters as well as accessing functions. The keypad also has a programmable key swell as customizable auxiliary keys (F1 to F6), which when used in conjunction with the green modifier key can provide up to 12 additional key functions.

To learn more about customizing the key functions, see Remap a Button or Key on page 37.

To type a number:

• Press the relevant number key.

To type a single alphabetic character or symbol:

- 1. Press the orange or green modifier key.
- 2.Press the key for the letter or special character one to four times in rapid succession depending on the position of the character illustrated on the key.

Example: Press and then and then are a lower case c.

To type multiple alphabetic characters:

- 1. Press the orange modifier twice to lock it On.
- 2.Press the keys for the letters or special characters one to four times in rapid succession depending on the position of the character illustrated on the key.
- 3. Press the orange modifier key once to return to typing numbers.

Example: Press and then

ABC 8 ABC 8 ABC 8 ABC 8 ABC 6 ABC 7 ABC 6 ABC 7 ABC 6 ABC 7 ABC 7

To type a single uppercase alphabetic character:

- 1.Press the orange modifier key once.
- 2. Press **(** ...

A will display in the status bar.

- 3. Press the orange modifier key again.
- 4.Press the key for the letter or special character one to four times in rapid succession depending on the position of the character illustrated on the key.

Example: Press • then • then • then • then • then • the capital letter Y.

Alternately, to type a single uppercase alphabetic character with the modifier key locked on:

- 1. Press the orange modifier key twice to lock it On.
- 2. Press <.
- 3.Press the key for the letter or special character one to four times in rapid succession depending on the position of the character illustrated on the key.



To type all uppercase characters:

- 1. Press the orange modifier key twice to lock it On.
- 2. Press >.

A will display in the status bar.

- 3. Press the key for the letters or special characters one to four times in rapid succession depending on the position of the character illustrated on the key.
- 4.Press again to turn caps lock Off.

About the Audio Features

The CK65 has multiple speakers, a microphone, and several software tools to configure sound volume or enable vibration feedback.

Audio Settings

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

• To change audio settings, select the Settings app and then tap Sound & vibration.

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

Sound Settings

Setting	Description	
Media volume	Use the sliders to set the volume for media (e.g., music, videos, a games), calls, alarms, and rings (notifications and ringtones).	anc
Call volume		
Ring & notification volume		
Alarm Volume		
Scanbeep volume		
Do Not Disturb	Select to set which notifications to let through when you have Not Disturb turned On and when you want to be left alone.	00
Phone ringtone	Select a default ringtone.	
Media	Select to show or hide media player when the media session has ended.	S
Vibrations & haptics	· Turn Vibration and haptics On or Off	
	· Configure vibration for calls	
	· Turn Notification and Alarm vibration On or Off	
	Turn Touch feedback On or Off	
	· Turn Media vibration On or Off	
Shortcut to prevent ringing	Set what happens when you simultaneously press the Power an Volume up button. Options include: Vibrate, Mute, or turn the shortcut Off.	nd
Default notification sound	Select a notification sound.	
Default alarm sound	Select an alarm sound.	

Setting	Description	
Other sounds and Vibration	sTurn sounds On or Off for:	
	· Dial pad tones	
	· Screen locking sounds	
	· Charging sounds and vibration	
	· Touch sounds	
	· Touch vibration	
	· Always show icon when in vibrate mode	

About CK65 Cold Storage Models

CK65 cold storage (CS) models come equipped with touch screen and scan window heaters to support extended use in freezers as well as transitions into and out of freezer areas.

Note: While CK65 cold storage models are designed to be used in a wide range of cold environments, exposure to temperatures colder than -30°C (-22°F) for more than 1hour may result in temporary readability issues.

About Cold Storage Heaters

The CK65 cold storage heaters can be set to turn On automatically to defrost the touch screen and scan window based on external temperature changes and timers or the user can control the heaters by manually turning them On or Off.

Automatic mode

This is the default mode of operation for the heaters. Automatic mode maximizes battery life in cold storage environments and provides average window defrost times. In Automatic mode, cold storage battery life may significantly exceed 8 hours (scanning a barcode every ten seconds). Window defrost times should be a minute or less with factory default settings implemented.

If your application requires faster defrost times, you can enable the Preemptive Heating (pre-heat) feature to minimize defrost times with average battery life in cold storage environments. This feature slightly reduces cold storage battery life since the heaters enter a low power pre-heat stage before the computer detects a rise in the ambient temperature.

In Automatic mode with Preemptive Heating enabled, the cold storage battery life may exceed 5 hours. The window defrost times range from zero to a maximum of one minute with factory default settings.

Manual mode

This mode is disabled by default. When enabled, heater activation is controlled solely by the user. No temperature monitoring and timers are used to control the heaters. The user must manually turn the heaters On or Off.

Use the Settings app to configure the Heater feature. To learn how, see Heater Parameters on page 29.

How Automatic Mode Works

Automatic heater management saves power since the heaters are automatically controlled by the system based on cold storage entry/exit detection.

Cold Storage Entry Detection

In Automatic mode, cold storage entry detection occurs when the computer sensors identify a drop in ambient temperature below the defined Heater enable temperature. The system starts the Chill timer in response to cold storage entry detection.

 $_{
m Note:}$ If you remove the computer from cold storage before the Chill timer expires, the timer stops and the system does not turn On the heaters, saving battery power.

A snowflake 🅸 icon appears in the status bar when the Chill timer expires.

Cold Storage Exit Detection

In Automatic mode, cold storage exit detection occurs when the sensors identify a quick rise in the ambient temperature.

- If Preemptive Heating is disabled (default) and the Chill time has expired, the system turns the heaters On at full power when a cold storage exit is detected.
- If Preemptive Heating is enabled and the Chill time has expired, the system starts the Preemptive delay time. When the Preemptive delay time expires, the heaters enter a low-power pre-heat stage. Pre-heating keeps the windows warm to minimize condensation and frost when the computer is removed from cold storage allowing for quicker defrost times. The system turns the heaters On full power when a cold storage exit is detected.

Turn the Heaters On/Off in Automatic Mode

When Automatic mode is enabled, you can still manually turn the heaters On or Off while in cold storage.

Tap the snowflake * or heater icon " in the status bar.

- If Preemptive Heating is disabled, the heater Preemptive delay time is not used and pre-heating does not automatically start, but the snowflake icon *can still be tapped to turn On the heaters for pre-heating.
- If you enabled Preemptive Heating, the heater Preemptive delay time stops when the icons are used to turn the heater On or Off.

How Manual Mode Works

Manual mode gives you full control over turning the heaters On or Off. When Manual mode is enabled, automatic cold storage enter/exit detection is no longer used to control the heater behavior. To turn the heaters On or Off, you must tap a button on the Heater screen in the Settings app. Full power is used for defrosting. Manual mode is disabled by default.

Turn Manual Mode On/Off

- 1. Swipe up from the bottom of the Home screen to access all apps.
- 2.Tap Settings 💿 > Honeywell Settings > Heater.
- 3.Tap the Automatic/Manual button to switch between the Automatic or Manual mode. The active mode appears on the button. When Manual mode is enabled, the Heater On/Heater Off button next to the mode button is active.
- 4. Tap the Heater On/Heater Off button to control the heaters.

Configure the Heater in the Settings App

- 1.Swipe up from the bottom of the Home screen to access all apps.
- 2.Tap Settings 💿 > Honeywell Settings > Heater.
- 3. Modify the heater parameters.
- 4. Tap Update to apply the changes.

Heater Parameters

You can configure the following Heater parameters in the Settings app to fit your specific application environment.

$_{Note:}$ The list of available parameters will differ between Automatic and Manual modes.

Heater Setting	Description	
Heater	Enable or Disable the Heater feature and temperature monitor and the switch button at the top of the screen to toggle the feature on or Off. The default is On.	
N4	Tap the button to switch between Automatic mode or Manual	
Manual/Automatic	mode. To learn more about the modes, see How Automatic Mod Works on page28 and How Manual Mode Works on page29.	le
Turn heater on when the temperature has changed b	Set the sensitivity of the cold storage exit trigger by defining a DeltaT value. To detect a cold storage exit, the computer looks for quick rise in temperature (°C), over a brief period of time. The definition DeltaT value is 0.5 °C.	or a fault

Heater Setting	Description	
Duration: Heater	Set the length of time (minutes) the heaters stay On at full power (100%) once the computer detects a quick rise in temperature (DeltaT value, see above). The default value is 5 minutes. Note: The heaters may turn Off before the timer has expired if a temperature reading indicates the computer is warm enough or you manually turn Off the heaters by tapping the heater icon once.	
Hot Key heater enable	Select a button to use as a hot key for turning the heater On when Manual mode is enabled.	
Hot Key heater disable	Select a button to use as a hot key for turning the heater Off when Manual mode is enabled.	
Low battery threshold	Set a low battery charge threshold (%) that triggers the compute turn Off the heaters to conserve battery power. The default value is 25%. Note: Setting a value lower than the default of 25% may negatively impact device performance.	
Heater enabled temperatur	eSet the temperature (°C) that the computer must fall to before the system determines cold storage entry and heater use. Once this temperature is detected, the Chill time starts.	
Chill time	Set the time limit (minutes) for how long the computer must remate at or below the defined Heater enable temperature before the system initiates one of the following actions: If in Automatic mode and Preemptive Heating is disabled, the system turns the heaters on when a cold storage exit is detected (see DeltaT value).	
	. If in Automatic mode and Preemptive Heating is enabled, the system starts the Preemptive Delay Time. Note:If you remove the computer from cold storage before the Chilltime expires, the system does not turn On the heaters, saving battery power.	
Preemptive Heating	Enable or disable reemptive Heating (pre-heating) when Automatic mode is enabled. Tap the check box to toggle the featu On or Off.	
Preemptive Duty Cycle	Set the percentage of time that the heaters are on during Preemptive Heating.	
Preemptive Delay Time	Set the length of time (minutes) that the computer waits after the Chill time has expired before activating the low power pre-heat window feature.	
Duration: Scanner heater	Set the length of time (seconds) that the scanner window heater is cycled on.	
Duration: LCD heater	Set the length of time (seconds) that the touch screen heater is cycled on.	
Fast monitoring interval	Set sampling interval time (seconds) used once the computer detects cold storage entry. Cold storage entry is defined by the Heater enabled temperature.	
Slow monitoring interval	Set sampling interval time (seconds) used once the computer detects cold storage exit (defined by DeltaT value).	

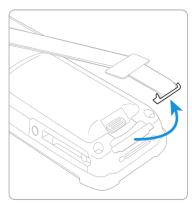
Heater Setting	Description
Power on time	Set the length of time (milliseconds) between turning on heater power and enabling a heater element. The default value is 10ms.
Disable temperature	Set the temperature limit (°C) that triggers turning off the heater
Blanking	Tap the check box to enable or disable heater operation during scanning.
Update	Tap to apply changes made to settings.
Default	Tap to set the Heater settings back to their default values.

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.

$_{\mbox{Note:}}$ Format the memory card before initial use.

- 1. Save your files and close any open applications.
- 2.Press and hold the Power button until the options menu appears.
- 3.Tap Power off.
- 4.Release one end of the hand strap. Slide the end of the strap toward the bottom of the unit, and then lift out the strap.



- 5. Press the battery latch towards the battery.
- 6.Lift up on the edge of the battery and remove it from the computer

7. Press down on the card access door hinge and lift the opposite end to open it.



8. Press down gently and slide the card holder away from the open access door. Lift the edge of the holder up.



9. Insert the microSD card into the card holder with the contacts facing out.



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



- 11. Close the card access door.
- 12. Install the battery and apply pressure to the edge closest to the battery latch.
- 13. Install the hand strap.

14. Press the Powerbutton to turn On the computer.

How to Transfer Files

To transfer files you need to physically connect the CK65 mobile computer to your workstation (e.g., laptop or desktop computer) through a USB connection. When the mobile computer is connected and USB is configured for file or photo transfer, use a file browser (e.g., File Explorer or Windows Explorer) on your workstation to transfer files between the two computers. If you are transferring files to and from a Mac, use the Android File Transfer application (available from www.android.com/filetransfer).

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

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

Home Base or Ethernet Home Base, and a standard USB Type B to A cable

Configure USB Connection and Transfer Files

Note: The CK65 supports Hi-Speed USB communications (USB 2.0) with a maximum data transfer rate of 480 Mbps.

- 1. Connect the CK65 to your workstation.
- 2.On the CK65, swipe down from the top of the screen to see the notifications.
- 3. Tap the Android System notification twice to open the options menu.
- 4. Select either File Transfer or PTP.
- 5. Open the file browser on your workstation.
- 6.Browse to the CK65. You can now copy, delete, or move files between the CK65 and your workstation.

Note: When Provisioning mode is disabled (turned Off), some file folders are hidden from view in the file browser.

Accessories for the Computer

The CK65 ships with a hand strap and a battery. Models certified for use in hazardous locations also ship with I/O covers. All other accessories are ordered and shipped separately. The computer requires a battery to function.

For a complete list of compatible accessories for the CK65 mobile computer series and their part numbers, see the CK65 Accessory Guide available for download from the CK65 product page at sps.honeywell.com.

Contact your local sales representative for ordering information.

Accessory	Description
CK65-BTSC Battery (PN 318-063-001)	Replacement or spare standard 7000 mAh Li-ion rechargeable battery for the CK65. (Not for use with cold storage or hazardous location CK65 models.)
CK65-BTCS Battery (PN 318-063-002)	Replacement or spare cold storage 5200 mAh Li-ion rechargeable battery for cold storage CK65 models. Replacement or spare 7000 mAh Li ion rechargeable batt
CK65-BTSC Battery (PN 318-063-003)	for CK65 models certified for use in hazardous locations. Replacement or spare Li ion rechargeable battery for the
AB17, AB18, or 1001AB01 Battery (PN 318-033-021, 318-034-033, 318-046-031)	CK65. (Not for use with cold storage CK65 models.)
AC20 Quad Battery Charger (PN 871-230-101, 871-230-301)	Charges up to four batteries at one time.
AD20 Single Dock	Powers a CK65 and charges a spare battery separately. The
(PN 871-228-101, 871-228-301)	single dock also provides client and host USB connectivity
AD21 Ethernet Multidock	Provides Ethernet connectivity and power for up to four
(PN 871-229-202, 872-229-302)	devices.
AD22 Charge-only Multidock (PN 871-229-201, 871-229-301)	Charges up to four devices.
AVI0 Vehicle Dock (PN871-231-102)	Holds and charges a CK65 while in a vehicle environment.
DX2 model 1002UU02 (PN 852-918-002)	Charges up to four batteries.
DX4 models 1002UU04 and 1002UU05 (PN 852-916-002, 852-917-002)	Charges up to four devices. Can also be configured to char up to eight batteries. Model 1002UU05 also provides Ethernet connectivity.
Universal ChargeBase (CK65-CB-UVN)	Charges up to four devices.
Universal NetBase (CK65-NB-	Provides Ethernet connectivity and power for up to four
UVN)	devices.
Universal Cup (CK65-UCP-N)	Replacement cup for Universal Bases CK65-CB-UVN and CK65-NB-UVN.

CHAPTER

2

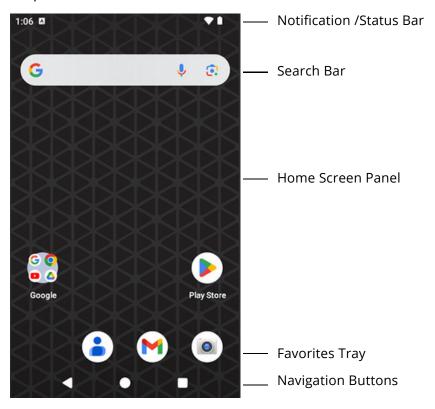
ABOUT THE USER INTERFACE AND APPLIC ATIONS

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.

 $_{Note:}$ Screen content and features may vary by computer model and OS version.

About the User Interface

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



Home Screen Features

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

Navigation and Function Buttons

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

For button locations on the computer, see Features of the CK65 on page 3. Navigation and Function Buttons

Button	Description		
◁	Back	Return to the previous screen.	
0	Home	Return to the Home screen.	
	Recent Apps	View and switch between recently used apps.	
	Scan	Press the right, left, or front scan button to trigger the scanner.	
F1	Function	Use the Key Remap feature in the Settings app to select a butto function.	
FldExit	FldEx	Field exit (model dependent).	
•	Left	Move left (model dependent).	
>	Right	Move right (model dependent).	
•	Up	Move up (model dependent).	
•	Down	Move down (model dependent).	

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

Icon	Description	Icon	Description
(<u>(</u>)	Pending alarm and Alarm is set	Ť	Airplane mode is turned On.
)	New text message or multimedia message	*	Bluetooth is turned On.
ļ!	Error with text or multimedia messa delivery	ge O !	SD card is full
~	New email	•	Wi-Fi network connected with full signal strength
ф	Computer is connected to a PC with USB cable	a	Wi-Fi network connected but no signal strength
Ð	Synchronizing data	1	Error with sync or sign-in
*	The Chill timer has expired and computer is cold enough the heaters can be turned on. For more information, see About Cold Storage Heaters (page 27).	<u> 333</u>	Heaters are turned on. For more information, see About Cold Storage Heaters (page 27).
⟨··⟩	Computer is connected with Etherno	et	

Remap a Button or Key

You can change the default function of the Left Scan, Right Scan, or Camera buttons as well as the Back, Recent, Home, and Search virtual buttons.

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 or select one of the virtual buttons.
- 5.Tap OK.

- 6. Select one of the following options:
 - Tap Keys to view available functions. Select the function you want assigned to the button.
 - Tap Apps to view available applications. Select the application you want assigned to the button.
 - Tap Actions to enter an Intent or Broadcast. Tap OK to assign the action to the button. For example, to send a Broadcast, android.intent.action.MASTER_CLEAR, or to start an Intent, com.android.settings/com.android.settings.wifi.WifiSettings.
 - Tap Command to enter a command that will be executed when the button is pressed. This option supports all ADB shell commands. For example, if you choose a button to remap and enter the command "input keyevent 64", pressing the selected button will open the web browser on the device.
 - Tap Text to type characters to display when the remapped key is pressed. Use a comma "," to separate the characters. Tap OK to assign the text to the button. Examples are listed below:

Input Text	Button Press
A,A,B	aab
SHIFT_LEFT,A,SHIFT_LEFT,B	AB
or	
CAPS_LOCK,A,CAPS_LOCK,B	!
SHIFT_LEFT,1	(Select All)
CTRL_LEFT,A	(Volume Up)
VOLUME UP	

Note: Lower case text is not supported in the Text field. Text must be entered in upper case. For example, "H,e,l,l,o" will display as "h", whereas "H.E.L.L.O" will display as "hello".

7. The function you selected now appears next to the button name.

Restore Default Button Action

To restore the button default action:

- 1. Swipe up from the bottom of the Home screen to access all apps.
- 2.Tap Settings 💿 > Honeywell Settings > Keyremap.
- 3. Tap the clean icon 🥳
- 4. Choose the remapped button(s) you want restored to the default setting.
 - Tap the check box next to the button.

OR

• Tap All Select to choose all the buttons.

- 5. Tap Delete.
- 6. Tap OK.

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.
 Slide the notification left or right to reveal the settings icon Choose between Default, Silent, or Turn off notifications.

Note: Some notifications cannot be dismissed or turned Off.

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 twice from the status bar at the top of the screen.
- To close Quick Settings, 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 start to drag the icon out of position. The computer then switches to a smaller view of the Home screen panels.

- 3. Drag and drop the app icon into place.
 - If you want to add another home screen, drag the icon to the right edge of the screen before releasing the icon.
 - If you want to create a folder, drag and drop the icon on top of another icon.

Note: If you tap and hold an app but don't move it, a shortcut menu appears. The content of the menu depends on the app selected.

To add widgets or customize the look of the Home screen:

- 1. Tap and hold an empty section of the screen.
- 2. Select either Wallpaper & style, 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.
- 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 to help you find anything you need on the computer or on the web.

- 1.On the 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 to manipulate icons, buttons, menus, and other items on the screen.

Tap

Tap to select something, toggle a setting On or Off, or activate a field for text entry.

Tap and hold

.

Tap and hold an item but do not lift your finger until an action occurs.

. Drag and drop

Tap and hold an item, and then slide your finger across the screen until you reach the target position. Lift your finger 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).

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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 Set time automatically to turn Off the feature.

a. Tap Date then select a date from the calendar and click OK.

- b.Tap Time then use the clock to select a new time and click OK.
- 4. To change the time zone, tap Use location to set time zone to turn Off the feature.
 - a. Tap Time zone and choose the time zone for your location.

About Honeywell Applications

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

Honeywell Applications Available on the Computer

Icon	Application	Description
O	AutoInstall Settings	Enable the AutoInstall feature, to automatically install *.zip or *.apk files containing applications saved in the Internal shared storage\honeywell\autoinstall folder and IPSM card\honeywell\autoinstall folder on the computer during the power-up boot or reboot process.
	Demos	Honeywell Demo apps demonstrate the basic capabilities of the computer and are not intended as functional business solutions. The demos included, demonstrate scanning, signature capture, NFC functionality, and printing via Bluetooth technology. Information on how to create custom applications for your Honeywell mobile computer can be found in the Honeywell Software Development Kit (SDK) for Android, available from the Technical Support Downloads Portal.
Q	HUpgrader	Use the Honeywell Upgrader app (HUpgrader) to automatically search for and install Over-the-Air (OTA) operating system updates from a remote server.
Honeywell	RFID	Use the RFID Discovery app to pair a Honeywell mobile device with a Honeywell RFID reader.
	Scanner Edge	Use the Scanner Edge app to connect or disconnect a Bluetooth scanner. View connected devices. Pair with a Bluetooth Scanner. Disconnect a Bluetooth Scanner.
	Staging Hub Agent	View information related to the Op Intel agent. For more information on Operational Intelligence, go to sps.honeywell.com.

Icon	Application	Description		
Power To	Power Tools			
	BattMon	BattMon provides information on the charge status and health of the battery, and provides access to activate battery status notifications and battery charging history logs.		
	ConfigApps	ConfigApps enables or disables applications and application updates.		
	Configure Autorun	Configure Autorun provides the ability to set applications to automatically run after a reboot.		
i	Diagnostic Information	Diagnostic Information provides access to system statistics, notifications, and version information about the computer.		
	EZConfig	EZConfig supports advanced customization and configuration of the handheld computer. EZConfig includes a standard XML editor and configuration barcode scanner feature.		
	WiFi Diagnostic	Use application to:		
%		 View Wi-Fi radio status information about a connected access point or a list of other available access points in range of the Wi-Fi radio. 		
		 Use the Route utility to view packet destination gateway information across the subnets. 		
		 Use the IPConfig utility to view IP parameters for the on- board network adapters. 		
		 Use the Ping utility to verify communication links or to make sure a specific IP address is working. 		
•	Wireless Tether	Use to enable range tracking and customize out-of-range alerts for Bluetooth devices paired and tethered to your handheld computer.		

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 and click Software > Productivity.

About Honeywell Enterprise Browser

Honeywell 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 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.

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 UEMConnect

Honeywell UEMConnect makes use of the Google OEMConfig protocol by providing standardized development for EMMs and giving access to Honeywell propriety features. EMMs making use of Google OEMConfig and Honeywell UEMConnect are enabled to provide access to Honeywell proprietary features via the EMM console.

For more information about OEMConfig, see support.google.com/work/android/answer/9388447?hl

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 (a) > About phone.
- 3. Tap Build number seven times. A message appears informing you that you are now a developer.
- 4.Tap Developer options under Settings 💿 >System.

CHAPTER

3

USE THE IMAGE ENGINE

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

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

- 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. The imager camera feature requires the development of a custom application that uses the Honeywell Mobility SDK for Android. To download the Honeywell Mobility SDK for Android, see <u>Developer Information</u> on page 87.

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 honeywell.com/PSSsoftware-downloads. 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 the scanner settings, Default Scan Settings on page 49.

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.
- 3 Tap Restore all defaults.

Default Scan Settings

Use the following sections to understand the scan settings available for scanner profiles. To learn how to create a new profile, see page 55.

Data Processing Settings

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

Data Processing Settings

Setting	Description	Default		
Wedge	Enable or Disable the scan wedge feature.	Enabled		
Wedge Method	Standard or Keyboard.	Standard		
Charset	Select the character set to use when interpreting the barcode data into a string.	ISO-8859-1		
Prefix	Defines the string added before the decoded barcode data. Substitutions occur within the Prefix string values.	None		
	Substring Replacement Character			
	\r Code			
	\n 13 10 9 \'			
	\t 			
	//			
Suffix	ffix Defines the string added after the decoded barcode datenne Substitutions occur within the Suffix string values.			
	Substring Replacement Character			
	, , , , , , , , , , , , , , , , , , ,			
	\t			
Wedge as keys	List of character values to wedge as keys, represented comma-separated list of decimal values.	a3s,1a0,13 		
Data Editing Plugin	Specify a data editing plug-in and edit plug-in setting	s.None		
Symbology Prefix	Specify a symbology identifier prefix to the barcode do Options include:	at <mark>a</mark> one		
	· None			
	· Honeywell			
	· AIM			

Setting	Description	Default
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.	Enabled
	Corresponds to BarcodeReader property: PROPERTY_DATA_PROCESSOR_LAUNCH-BROWSER	
Scan to intent	Enable or disable special handling of scan-to-intent barcodes. Applies to barcodes in one of the following formats: '//' ACTION '//' ACTION '\$' extra-data Where: ACTION and extra-data are any string of characters.	Enabled
	Launches an application listening for the intent. Intent action: "com.honeywell.scantointent.intent.action." + ACTION Intent extra: "com.honeywell.scantointent.intent.extra.DATA" conta 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 barcod Applies to EZConfig barcodes that are encoded with t Aztec symbology and contain specific header data. Corresponds to BarcodeReader property: PROPERTY_DATA_PROCESSOR_LAUNCH_EZ_CONFICE Enables the reception and processing of barcode data	he
Data Intent	without using an SDK or library.	Disabled

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 110.

Decode Settings

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

Decode Settings

Setting	Description	Default
Center Decode	When enabled, the imager scans and decodes a barcode only part of the barcode is at the center of the aimer window. This useful in situations where several barcodes may be very close together in the imager field-of-view.	
	Tap the check box to toggle the feature On or Off.	
	 Select Center Decode to adjust the Center Decode Timeout and the Window dimensions. 	
	Honeywell recommends leaving the settings at 50 (default) to	
	define the "center" area for the barcode.	
	Configurable parameters:	
	· Center Decode Timeout (ms)	
	· Window top	
	· Window bottom	
	· Window left	
	· Window right	
	· Aimer Finder	
	· Aimer Finder Timeout	
Decode Security	Use this setting to control the reading tolerance of the decode Lower settings are more lenient when reading low quality bar	
	while higher values are more strict.	150
Decoder timeout	Set the amount of time in seconds that the scanner will timed readable barcode is not found.	
Decode Filter	Use this setting to modify or reject data strings.	None
	 Decode filter script The decode filter script is used to configure a filter for decode results during scanning. For example, a filter of be used to reject barcodes that don't begin with certal characters, remove leading characters (like "00") from beginning of a barcode, or only scan barcodes that be with certain characters. 	in the
	. Decode filter timeout (ms)	
	The decode filter timeout option can be used to disab logic inside the filter script after a given amount of tin	
	 Debug level Set the filter information level. The default level is 0, not information. Higher levels emit more information. Leven emits the most information. 	
Poor Quality 1D Reading	Enable this setting when scanning damaged or badly printed barcodes to improve barcode read success.	1Disabled

Setting	Description	Default
Video mode	Use this setting to specify whether normal or inverse decoding linear symbologies is enabled during the execution of Decode default normal video is enabled.	
	Options include:	
	· Normal	
	· Inverse	
	Normal and Inverse	
DPM mode (license required)	Use this setting when scanning Direct Part Marking (DPM) barcodes that are etched or imprinted directly into the surfact materials including metal and plastic.	No DPM esoptimi- zation
	Options include:	
	· No DPM optimization	
	· Dotpeen DPM decoding	
	Reflective DPM decoding	
Region of Interest	Set the ROI for decoding. Options include:	Disabled
	 Disable ROI is disabled and the entire original image is sent to decoder. 	the
	. Standard	
	Use the aimer position to weight activity. Activity calculated on the row and the column in the middle ceach cell. The ROI window may not include the aimer.	
	Standard, aimer centered	
	Activity calculated on the row and the column in the middle of each cell. The ROI window will always include the aimer.	le
	· DPM, aimer centered	
	Activity calculated on 4 rows and 2 columns in each co The ROI window will always include the aimer.	ell.
	 Kiosk/presentation application Ignore aimer position, no weight activity. Activity calculated on the row and the column in the middle of each cell. The ROI window may not include the aimer. 	1 -
	 Learning Engine When selected, the computer will receive continuous updates to improve the decoder software based on yo specific environment. The Staging Hub Agent must al be enabled. 	ur
	 Smart Detection Measures image gradients and clusters regions with h gradients. ROIs are prioritized based on their gradient magnitudes and densities. 	
Image Binning	Enable internal binning of the image to decrease the average decode time. When the setting is enabled, the decoder will bi every 2x2 area in the image.	

Setting	Description	Default
Multicode Scan	When you enable Multicode Scan, each barcode is checked to whether it satisfies the defined multicode rules before the res are transmitted. Options include:	
	 Enable or disable multicode scanning. 	
	 Set the number of barcodes. 	
	 Specify a separator to be used between barcodes. 	
	 Define up to 10 barcodes to be included in the multico 	ode.
	 Set a timeout in milliseconds. If set with a non-zero va the timeout starts after the scan button is pressed. Or the timeout occurs, scanning will return to standard (single) barcode mode. 	'
	. Enable or disable the transmission of an incomplete	
	multicode. When enabled, the incomplete multicode transmitted when the incomplete transmission timed expires.	
	. Set a timeout in milliseconds to use when incomplete	
	transmission is enabled. If set with a non-zero value, the	
	timeout starts after the scan button is pressed. Once t timeout occurs, the results that were collected before	
	timeout happened will be transmitted if they satisfy the defined multicode rules.	
Preferred	Set the priority level (High or Low) for symbology codes. This is	Disabled
Symbology Settings	used when you want to specify one symbology as a higher priorit over other symbologies in situations where both barcode symbologies appear on the same label, but the lower priority symbology cannot be disabled. If a code is set as a High Priority, the decode of that symbology is accepted immediately. If a code set as a Low Priority, the decode is buffered to see if a decode of preferred High Priority symbology can be found within a given timeout period.	
	To apply Preferred Symbology Settings, tap the check box.	
	Preferred Timeout (ms) - The amount of time milliseconds the allow the scanner to search for a High Priority barcode after a Priority barcode has been encountered. The default is 500ms.	Low
	To set the priority level for a symbology, tap the code in the lis select the priority. The default for all codes is "High Priority."	t then
Fast Linear	Enable the Fast Linear Decoder to accelerate decoding of wel	l- Enabled
Decode	printed 1D barcodes.	
GS1 Digital Link Conversion	Converts GS1 Digital Link Codes from web URI syntax to tradit GS1 element string syntax.	ional Disabled

Imager Settings

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

Trigger Settings

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

Trigger Settings

Setting	Description	Default
Enable Scan Trigger	Enable or Disable activating the imager by pressing the side s buttons or the virtual Scan button in the Scan Demo app.	
Scan delay	Set the minimum amount of time in seconds before the scan can read another barcode.	
Decode timeout	Set the number of seconds before the scanner automatically off if the scan button is pressed and nothing has successfully decoded.	20
Trigger Scan Mode	 Set read behavior on scan button press. Options available: One Shot Continuous Read on release Read on second trigger press 	One Sho t
Same symbol timeout	Set the minimum buffer time in seconds before the scanner of the same barcode. This can be adjusted to prevent inadverter scans of the same barcode if the code is left in the scan field to than the Decode Timeout limit. The default same symbol time 1000 seconds.	it onger

Notification Settings

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

Notification Settings

Setting	Description	Default
Good Read Notification	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.	Enabled
Good Read Notification File	Use the default notification sound for a good read or specify an audio file to use instead. Enables or disables notification of a failed scan. The	Default Sound
Bad Read Notification	notification consists of a red blink of the Scan Status LE an error beep, and an optional short vibration.	,
Vibrate On Notification	Enables or disables whether the computer vibrates wh there is a good or bad read.	
Vibrate Duration	When Vibrate On Notification is enabled, sets the length the vibration in microseconds.	th of 100

Setting	Description	Default
Package Verification	Package verification automatically stores the package images from the near sensor to determine the context which the barcode was read. This data can be used as of delivery and can be uploaded to Honeywell or custo cloud using SSClient or customer-specific software.	in proof
Package Verification Max Folder Size (MB)	Select the check box to turn the Package Verification setting on. The maximum folder size allowed for the folder that stee Package Verification images. Images are stored in honeywell\ImageCapture\PackVerf_Images.	ores 200 MB
Pkg Verify High Quality Image Save	Enable this option to add new images and delete old images when the maximum folder size is reached. If th not enabled, new images will not be stored until files a removed by the user.	

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 ① in the upper right corner of the app screen.
- 4. Take one of the following actions:
 - Tap the profile name field. Add a new name, and then select OK.

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 ② > Honeywell Settings > Scanning > Internal Scanner.
- 3. Tap and hold the profile you want to delete.
- 4. Tap Delete, and then OK.

Change the Bluetooth Scanner Settings

When a 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 the scanner settings, see Data Processing Settings on page 49.

About the Optional Digital Scan Button

By default, the imager is enabled for scanning with the left, right, and front 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 of the scan button to the location where you want it to appear on the screen. Once you have positioned the button, select 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 (i.e., right, left, or front).
- 3.Center the aiming beam over the barcode. Make sure the entire barcode is inside 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 turn On (enable) Provisioning mode in the Settings app.

To learn more About Provisioning Mode see page 88.

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 the Demos app.
- 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 (i.e., right, left, or front) or tap and hold the on-screen Scan button.
- 6.Center the aiming beam over the barcode. Make sure the entire barcode is inside 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.

CHAPTER

4

USE THE CAMERA

Use this chapter to learn how to take pictures and record videos with the color camera.

 $_{Note}$. The camera feature is not available for cold storage CK65 models.

About the Color Camera

The CK65 comes equipped with a 13-megapixel color camera, 4K video with image stabilization, and advanced software features for enhanced exposure control for taking pictures and videos. The camera lens and flash are located on the back of the computer.

Use the Photos app 📌 to view photos and videos stored on the CK65.

By default the photos and videos captured with the Camera app are saved on the computer under Internal shared storage\DCIM\Camera.

How to Zoom

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

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

Take a Photo

- 1.Tap the Camera icon 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 🖸 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 \blacksquare . To resume recording, tap \blacksquare .
 - To capture a still picture during recording, tap the Camera icon
 - To add light while recording, tap the flash icon. Flash is only available with the rear camera on the back of the computer.
- 3. When you are done recording, tap .

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

 Olivinia
- 2. At the top of the screen, select any of the following to adjust the settings.



More Settings

Select to access Automatic, HDR and ProMode as well as advanced settings: Automatic

Select Automatic to have the camera automatically adjust the settings and focus for you.

HDR

When High Dynamic Range (HDR) is enabled, the computer automatically captures multiple photos and combines them into one photo, creating the best quality image possible.

ProMode

Manually control settings for ISO, Exposure, White Balance, and Focus. 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, System).

- Color Filters
 Stylize your pictures by applying a filter. Options include: None, Sepia, Negative, Solarize, Posterize, and Aqua.
- Flash Setting
 Select to adjust the camera flash setting (e.g., automatic, no flash, or always flash).

Use the Camera as a Flashlight

To use the camera as a flashlight.

- 1. Open Quick Settings (see page 39).
- 2. Tap the Flashlight icon to turn the flashlight on.
 - Select the icon again to turn the flashlight off.

5

CONFIGURE THE COMPUTER

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 integrated scanner decodes, or the network settings. The values you set for these parameters determine how the computer operates.

You configure the computer using the Settings app. Or you can use Wi-Fi Staging to set up multiple devices with the same base configuration (see page 88).

Start the Settings App

The Settings app is available from the all apps menu and the notification panel.

• Swipe up from the bottom of the Home screen to access all apps, and then tap Settings ②.

OR

• Swipe down from the top of the Home screen, and then select in the status bar.

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.

Setting	Description
Internet	· Turn Wi-Fi 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 Network Preferences to turn On Wi-Fi automatically, notify for public
	networks, install certificates, use Wi-Fi Direct, and access Honeywell
Airplane mode	Wi-Fi Turn Airplane mode On off. Note: When Airplane mode is turned on, phone and Wi-Fi services are turn off. To use Wi-Fi while in Airplane mode, select Internet then choose a Wi-Fi network.
Ethernet	Turn Ethernet connection On and Off.
	 Configure Ethernet connections and set up proxy settings when the Ethernet setting is turned On.
Data Saver	Turn the Data saver feature On or Off. Specify which apps can use unrestricted data.
VPN	Set the password parameters for a virtual private network (VPN) connection
Private DNS	Select Private DNS Mode.

Connected devices

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

Setting	Description
Pair new device	 Connect a Bluetooth Device. Lists Bluetooth-enabled devices in range. View and rename the computer.
USB	 View the computer Bluetooth address. Specify whether USB communication is controlled by your device or the connected device. Select the type of communication: File Transfer MIDI PTP No data transfer Set up file transfer options when File Transfer or PTP is enabled.
Saved devices	Note: This setting only appears when the unit is connected via USB. View previously connected devices.

Setting	Description
Connection preferences	
Bluetooth	 Turn the Bluetooth radio On or Off. Lists Bluetooth enabled devices in range when the radio is turned On.
	Connect to a Bluetooth Device.View and rename the computer.
NFC	Turn Near Field Communication (NFC) On or Off. When the NFC radio is enabled, data exchanges are allowed when the computer touches another NFC enabled device.
	. Manage apps that use contactless payments. Ask your Honeywell sales representative for more information on contactless payment options.
Cast	Set up a Cast connection. Cast (project) audio and screen content to a secondary device such as a television.
Printing	Set up a printer connection with the CK65. Connection options include cloud print services, Wi-Fi printing via a router, or printing via NFC.
Chromebook	Connect the CK65 to a Chromebook.
Nearby Share/ Quick Share	Share files with nearby devices.

Apps

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

Setting	Description
Recently opened apps	View a list of recently opened apps or select "See all" to view a list of installed apps on the computer and system services running.
General	
Default apps	View and manage default app use.
Screen time	 Show screen time, notifications received, times opened. Set app timer.
Unused apps	View and manage apps that are unused for over three months.
Special app access	Manage apps with special unrestricted access.

Notifications

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

Setting	Description	
Manage	Manage	
App Settings	Manage notifications from apps.	
Notification history	View recent and snoozed notifications.	
Conversation		
Conversations	View conversations marked as a priority.	
Bubbles	Allow conversations to appear as floating icons on top of other apps.	

Setting	Description	
Privacy		
Device & app notifications	Control which apps and devices can read notifications.	
Notifications on	Manage how notifications appear on the lock screen.	
lock screen		
General		
Do Not Disturb	Turn On to prevent notifications from appearing. Manage which notification can appear when Do Not Disturb is On.	tions
Hide silent	Turn On to prevent silent notifications from appearing in the status bar.	Silent
notifications in status bar	notifications are notifications that do not use a visual or audible alert.	
Allow notification	Turn On to enable the ability to snooze a notification by tapping the alar	m
snoozing	clock icon at the bottom of a notification.	
Notification dot or	Turn On to display a notification dot on an app icon when the app gener	ates a
app icon	notification.	
Blink light	Turn On to enable the notification LED to blink for notifications.	
Enhanced notifications	Turn On to organize notifications and enable notifications to provide suggested actions and replies.	

Battery

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

$_{\mbox{Note:}}$ Some settings in previous OS versions can be found in Display.

Setting	Description
Battery	View current battery charge or charging status. View
Battery usage	battery usage from last full charge. Turn the Battery saver
Battery Saver	feature On or Off manually. Set a schedule based on the battery charge percentage (%) remaining that automatically activates the Battery saver
	feature. Use the slider to set the battery percentage level. Slider adjusts from 5% to 7% and is only available once schedule is
Battery Manager	selected. When charging, set the battery saver feature to turn Off when the
Battery percentage	battery reaches 90%. Default setting. Turn the Battery
Storage	Manager On or Off. Battery Manager detects when apps drain the battery.

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

Sound & vibration

In the Settings app, select Sound & vibration to modify the audio and sound settings. To learn more, see Audio Settings on page 26.

Display

In the Settings app, select Displ ayto access the following settings.

Setting	Description
Brightness	
Brightness level	Set the Brightness level manually if the Adaptive brightness feature is turne Off.
Adaptive	Set how the screen in sleep mode responds when new notifications are
brightness	received (e.g., wake or do not wake).
Lock Display	
Lock screen	Select what to show on the lock screen and when to display new notificatio
Screen timeout	Set the inactivity time limit before the unit automatically turns of the screer save battery power (seconds or minutes).
Appearance	
Dark theme	Enable dark mode to switch app backgrounds to a black color.
Display size and	Adjust Font size.
text	· Adjust Display size.
	· Turn Bold text On or Off.
	· Turn High contrast text On or Off.
	Reset settings.
Color	
Night Light	Activate the Night Light feature to adjust the screen tint to a light amber fo 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 turn the feature On or Off. You can manually adjust the intensity of the amber his once the feature is activated.
Colors	Adjust the screen color settings (e.g., Natural, Boosted, Adaptive).
Other display cont	rols
Auto-rotate screen	Set the screen to switch from portrait to landscape when the unit is rotated When Off, the screen does not automatically rotate.
Display Resolution	Select from High or Full screen resolution.
	Note: Full resolution uses more battery power than High. Changing the resolution setting may cause some apps to restart.
Screen saver	Set the default screen saver as well as when to display it. Tap Settings to select screen saver style or to turn Night mode On.
Tap to wake	When turned On, you can double-tap anywhere on the display to wake the device.

Wallpaper & style

In the Settings app, select Wallpaper & style to manage background images, colors and themes on the Home and lock screens.

Accessibility

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

Setting	Description
Downloaded apps	Manage accessibility apps downloaded to the computer.
Screen reader	
Select to Speak	When turned On, you can tap specific items on the screen to hear them read aloud.
TalkBack	When turned On, the feature provides spoken feedback so you
	can use
Display	the computer without always looking at the screen. TalkBack describes
Display size and text	your actions and tells you about alerts and notifications. Configure display features that may aid visual accessibility levels.
Display Size arra text	Adjust Font size.
	Adjust Display size.
	• Turn Bold text On or Off.
	Turn High contrast text On or Off.
Color and motion	Configure color and motion features that may aid visual accessibility levels.
	Enable and manage Color correction options.
	 Enable and manage Color inversion options.
	Turn Dark theme On or Off.
	· Turn Large mouse pointer On or Off.
Extra dim	Turn On to dim the screen beyond the minimum brightness level.
Magnification	Manage options to quickly zoom the screen to make content larger.
Interaction controls	
Accessibility Menu	Turn large on-screen menus On or Off.
Timing controls	Manage timing options for actions.
	· Adjust the Touch & hold delay.
	Time to take action (Accessibility timeout).
	 Set the Autoclick delay (dwell timing) to automatically click the pointer stops moving.
System controls	Set interaction controls that may aid physical accessibility levels.
	 Set System navigation (Gesture navigation or 3-button navigation).
	Turn the Power button ends call feature On or Off.
	Turn Auto-rotate screen On or Off.

Setting	Description	
Vibration & haptics	Enable and manage vibration and haptics features. Turn Ring vibration On or Off. Turn Vibrate first then ring gradually On or Off. Turn Notification and Alarm vibration On or Off. Turn Touch feedback On or off. Turn Media vibration On or Off.	
Captions		
Caption preferences	Turn the Show captions feature On or Off and manage options for captions.	
Audio		
Audio Description	Turn On to hear a description of the action during supported movies shows.	s and
Hearing aids	Pair a hearing aid with the computer.	
Audio adjustment	Manage audio options.	
	· Turn Mono audio On or Off.	
	 Set Audio balance if using headphones or hearing aids. 	
General		
Accessibility shortcuts	Manage the accessibility button, which provides a shortcut for accessibility options from any screen.	
Text-to-speech output	Select and configure the preferred TTS, language, speech rate, and of synthesized voice.	oitch

Security

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

Setting	Description	
Security status		
Google Play Protect	Manually initiate a scan of the apps on the device to check for problems	s.
Find My Device	Allows users to locate, ring, or wipe a device remotely.	
Security update	Displays the last date security was updated on the device.	
Device security		
Screen Lock	Activate and configure a screen lock (None, Swipe, Pattern, PIN, or Password).	
More security settin	gs	
Smart Lock	Define safe conditions or locations where your phone will stay unlocked On-body, Trusted places, Trusted devices).	d (e.g
Device admin apps	Manage administrator privileges.	
Encryption & credentials	View encryption status and manage trusted credentials (e.g., view, instaclear, and edit).	all,
Trust agents	View and enable/disable trusted agent apps such as Smart Lock by Goo on the device. Trusted agents bypass security based on set parameters.	_

Setting	Description
App pinning	Turn the screen pinning feature On or Off. When On, you can pin the device screen to a recently used app where it stays until you unpin the app via the security method chosen.

Privacy

In the Settings app, select Privacy to define privacy settings for the device.

Setting	Description	
Privacy dashboard	Show which apps have recently used permissions.	
Permission manager	Define which apps have access to features on the device, such as the cormicrophone.	amera
Show passwords	Briefly displays the characters in a password as you type before hiding	them.
Notifications on lock screen	Select whether or not to show all notification content on the lock scree	n.
Show media on lock screen	Turn On to keep media player open on lock screen.	
Show clipboard access	Show a message when apps access clipboard content you have copied as text and images.	such
Autofill service from Google	Automatically fill fields using saved data from your Google account.	
Activity controls	Choose what type of activities are saved in your Google account. A Goo account must be associated with the device to use this feature.	gle
Ads	Opt in or out of ad personalization features. When this setting is turned ads are personalized with the activity and information from your Goog Account.	-
Usage & diagnostics	Automatically send diagnostic, device, and app usage data to Google. default, this setting is turned Off.	Ву

Location

In the Settings app, select Location to define which apps have access to the device's location.

Setting	Description	
Use Location	Turn location services (Google and GPS satellite data) On or Off. Set location mode accuracy and view location request history.	n
App location	View and manage app-level location service permissions.	
permissions		
Location services		
Earthquake alerts	Provides an alert when an earthquake is detected nearby. For supported regions only.	
Emergency	Allows the device to automatically send its location to emergency locations	S.
Location Service		
Google Location	Improves location accuracy by using Wi-Fi, mobile networks, and sensors to	0
Accuracy	help estimate the device location.	
Google Location	Allows the device to report Location History to Google. A Google account	
History	must be associated with the device to use this feature.	

Setting	Description
Google Location Sharing	Allows the device to share its location with anyone in the contacts list.
Wi-Fi scanning	Turn Wi-Fi scanning On or Off. When enabled, system apps and services are
	allowed to detect Wi-Fi networks at any time to improve location services.
Bluetooth scanning	Turn Bluetooth scanning On or Off. When enabled, system apps and services
	are allowed to detect Bluetooth devices at any time to improve location
	services.

Safety & emergency

In the Settings app, select Safety & emergency to manage options for sending and receiving information in an emergency.

Setting	Description	
Emergency SOS	When turned On, you can press the Power button five times to call f help or sound an alarm.	for
Emergency Location Service	Allows the device to automatically send its location to emergency locations.	
Earthquake alerts	Provides an alert when an earthquake is detected nearby. For support regions only.	orted
Silence notifications while driving	Silences calls and messages when the devices detects that it is in a moving vehicle.	

Honeywell Settings

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

Setting	Description
Battery LED	Configures the battery LED behavior. To learn more see, Change the Batter Status LED Behavior on page 13.
Battery Optimizer	View battery status and app usage information. Create and enable or disable a battery optimization profile that implement 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 Tap to create a custom battery profile that balances your application needs with energy saving settings. You can turn location services On 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.

Setting	Description
Digital Scan	Enable and configure the optional digital scan button. To learn more, see About the Optional Digital Scan Button on page 56.
Button Heater	Set the heater parameters on cold storage models. See About Cold Storage Heaterson page 27.
Honeywell Power	Turn Unattended Mode On or Off. When Unattended Mode is On, healthca
Setting	apps will continue to notify clinicians of critical communication, even thou the unit appears to be in sleep mode.
HXLogger	The HXLogger is an advanced diagnostic log service that provides a basic l service, plug-ins for modified log services, and a log manager.
	· Tap HXLogger to turn the basic log service On or Off.
	When enabled, the service records app and system diagnostic troubleshooting information into four basic log files: main log file, radio log, event log, and kernel log.
	 Tap Plugin to view and enable additional log services and custom plugins.
	 Tap Manager, to change the default log path, delete logs or upload log for technical support troubleshooting.
Key WakeUp	Set the buttons you want to use to wake the computer from sleep mode.
	Options include: Left Scan, Middle Scan, Right Scan. By default, the Left, Middle and Right Scan buttons are enabled for wake up.
Keyremap	Change (remap) a button or key function. To learn more, see Remap a But or Key on page 37.
Provisioning Mode	Enable or disable unrestricted installation of applications, certificates,
	configuration files, and licenses. Provisioning mode is turned Off by defaul To learn more About Provisioning Mode, see page 88.
Scanning	Configure the computer imager. To learn more, see Change the Scanner Settings on page 48.
Smart Sensor	Configures the integrated motion detection sensors for advanced power
	management. Options include: Keep awake on motion, Wake on motion, F down suspend.
Staging Hub Agent	Use the agent and settings to connect the computer to the Honeywell Sta Hub Foundation software platform; a centralized software platform IT integrators and administrators can use as a solution for managing, monito and deploying Honeywell devices in a connected workspace environment.
Sticky Option	Choose whether modifier keys are "sticky" (remain active). The default is O
	To learn more about modifier keys, see page 19.
RFID	Manage default settings profiles for Honeywell RFID readers. To learn more
	see Configure RFID Settings on page 95.
Touch Screen	Optimize screen interactions by selecting a touch screen profile designed
Profile	specifically for your use case. To learn more, see page 15.
Voice Wedge	Voice-to-text conversion tool that can be triggered by a specified start wor
	key press event. Voice Wedge can be configured to take effect globally or for an associated application.
Web Applications	Enable access for Honeywell Mobility SDK for Web apps and port selection
Wi-Fi Staging	Use the Honeywell Wi-Fi Staging app to quickly set up new devices by configuring one device and using it to stage others. Wi-Fi Staging can a so used to enroll devices in a Mobile Device Management (MDM) system by connecting units to a specified network and downloading and installing the specified MDM client app. To learn more, see page 88.

Passwords & accounts

In the Settings app, select Passwords & accounts to access the following settings.

Setting	Description
Passwords	Manage saved passwords.
Autofill service	Manage password management services.
Add account	Select to add and manage a Corporate or Email account on the computer.
Automatically sync app data	Turn auto-sync On or Off for accounts. Turning the feature On allows apps to refresh data automatically.

Digital Wellbeing & parental controls

In the Settings app, select Digital Wellbeing & parental controlsto access Digital Wellbeing tools and parental controls. For more information, see https://wellbeing.google/.

Google

In the Settings app, select Google to set up and manage your Google accounts and services.

System

In the Settings app, select

System to access the following settings.

Cattina	Description
Setting	Description
Languages & input	· Set the preferred language for the computer and for specific apps.
mpac	· Set and manage Virtual and Physical Keyboard input methods.
	Set up voice input and text-to-speech output.
	· Configure the spell checker and personal dictionary.
	· Adjust the pointer speed.
Gestures	· Turn Quickly open camera On or Off.
	· Set the system navigation options for buttons on the screen and sw ping
	Set the press and hold power button option to open the power menu or the Assistant.
	. Set the Prevent ringing option. Options: Vibrate, Mute.
Date & time	Configure all date and time settings.
Scheduled power on and off	Set a schedule to power the computer On and Off.
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.
Multiple users	· Modify the owner profile name and add profiles for other people who use
	the computer.
	· Activate a different user profile.
	· Add a guest user or delete guest activity.
	· Enable or disable allowing users to be added from the lock screen.

Setting	Description
Developer option	s Enable developer-specific options such as USB debugging and SD card protection. This option only appears under System settings if you enable the feature. learn more, see Unlock Developer Options on page 45.
Reset options	Select from the following reset options:
	 Reset Wi-Fi, Mobile & Bluetooth Use to reset all network settings, including Wi-Fi, Mobile data and Bluetooth.
	 Reset app preferences. Use reset app preference back to defaults. This apps you disabled, notification changes, default app actions set, background data restrictions for apps, and permission restrictions.
	· Enterprise data reset.
	To learn more, see Enterprise Data Reset the Computer on page 104.
	· Erase all data (factory reset).
	To learn more, see Erase All Data (Factory Reset) on page 105.

About Phone

In the Settings app, select About Phoneto access the following information.

Setting	Description		
Basic info			
Device name	A nickname to identify the device. To change, tap Device name and enter name.	r a r	
Legal & regulatory			
Legal information	Provides links to third-party licenses and other legal information.		
Compliance information	Displays certification and compliance information.		
Compliance Logo	Displays regional compliance marks.		
Device details			
Model	Displays the model number, serial number, and hardware version of the d	levi	
Android version	The version of Android on the device. Tap to view additional details.		
Asset number	Asset tag assigned to the device.		
IP address	IP address associated with the device.		
Wi-Fi MAC address	View information about saved Wi-Fi networks.		
Device Wi-Fi MAC address	Wi-Fi MAC address associated with the device.		
Bluetooth address	Bluetooth address associated with the device.		
Up time	Time the device has been running since powering On or restarting.		
Software component version	Select to view software component version list.		
Build number	Kernel number installed.		

About Network Communications

You can easily add the mobile computer to your wireless or wired data collection network. Connect the CK65 your computer using:

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

Connect to a Wi-Fi Network

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

By default, the 802.11 radio is disabled.

- 1. Swipe up from the bottom of the Home screen to access all apps.
- 2.Tap Settings 🔯 > Network & internet > Internet.
- 3. Tap Wi-Fi to the toggle the radio On or Off.
- 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).
- To edit connection details, tap the network name on the list to view details and then tap the Edit icon .
- The computer automatically connects to the same network when the network is in range and the WLAN radio is turned On.
- To view a list of only your saved networks, navigate to the bottom of the discovered network list. Tap Saved networks.

• To remove a network from your saved list, tap the network name and select Forget. You can do this for networks you no longer use.

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 > Internet The list of available Wi-Fi networks appears.
- 3 Select the network to display the Network details.
- 4. Tap the Edit icon .
- 5. Tap Advanced options.
- 6.Under Proxy, select Manual.
- 7. Enter the proxy settings for the network.
- 8. Tap Save.

Disable Wi-Fi Notifications

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

- 1. Swipe up from the bottom of the Home screen to access all apps.
- 3. Navigate to the bottom of the discovered network list.
- 4. Select Network preferences.
- 5. Tap Notify for public networks to toggle the setting On or Off.

Fix Connectivity

If you have connectivity issues, you can try to resolve the issue by resetting the Internet connection. The Fix Connectivity Function restarts the Wi-Fi subsystem and radio modem. Saved Wi-Fi networks are not erased by this action.

- 1. Swipe up from the bottom of the home screen to access all apps.
- 2.Tap Settings 💿 > Network & internet > Internet.

3. Tap Ω . The Wi-Fi subsystem restarts and the radio modem resets.

Honeywell Wi-Fi Settings

To access Wi-Fi preference settings for advanced configuration of the wireless 802.11 radio in the mobile computer:

- 1. Swipe up from the bottom of the Home screen to access all apps.
- 2.Tap Settings 💿 > Network & internet > Internet.
- 3. Tap Network preferences. The Configure Wi-Fi menu appears.
- 4. Tap Honeywell Wi-Fi Settings.
- 5. Tape a setting to enable or disable the option to access additional parameters that configure the Wi-Fi radio.

Connect to an Ethernet Network

To connect the computer to an Ethernet network, you need a CK65 Ethernet Home Base or a CK65 Net Base.

- 1.Make sure the base is connected to your Ethernet network.
- 2.Place the computer in the base.
- 3.Swipe up from the bottom of the Home screen to access all apps.
- 5 Tap Ethernet.

The Ethernet connection screen shows the current Ethernet connection. By default, the computer assumes a DHCP connection, and that your network has assigned an IP address automatically. If DHCP is working, the Ethernet base should indicate that communication with the network is occurring.

- 6.(Optional) To assign a static IP address.
 - a.Tap DHCP and then select Static from the list.
 - b.Enter the required network information, and then tap Apply.
- 7. Tap Save.

How to Connect to Virtual Private Networks

The computer supports connecting to virtual private networks (VPNs). This section describes how to add and connect to VPNs. To configure VPN access, you must obtain details from your network administrator. You 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 > 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 > VPN.
- 3. Type 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 > VPN.
- 3. Tap and hold the name of the VPN in the list.
- 4. Tap **t** to the right of the VPN profile you want to edit.
- 5. Edit the VPN settings as necessary.

About Wireless Security

The computer provides these security solutions for your wireless network:

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

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

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

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

About Certificates

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

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

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

- 4. Tap Install a certificate.
- 5. Select either CA certificate, VPN & app user certificate, or Wi-Fi certificate.
- 6.Tap the Menu icon \equiv , and then navigate to the location where you saved the certificate or key store.
- 7. Tap the certificate or key store to install it. If prompted, enter the key store password. Tap OK.
- 8.Enter a name for the certificate and tap OK.

Disable or Remove Certificates

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

- 1. Swipe up from the bottom of the Home screen to access all apps.
- 2.Tap Settings > Security > More security settings > Encryption & credentials.
- 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 to 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.

Connect a Bluetooth Device

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

- 1. Swipe up from the bottom of the Home screen to access all apps.
- 2. Tap Settings 🔯 > Connected devices.
- 3.Tap + Pair new device. A list of Bluetooth devices appears.
- 4. Select a device on the list to initiate a pairing request.
- 5. 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.

When the device is successfully paired with the computer, the device name appears under Paired devices.

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

The status icon changes from * to *.

 To disconnect a paired device, tap the name of the paired device and then tap FORGET.

Rename the Computer

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 tapRename

Rename, Share or Unpair a Paired Device

You can rename a paired device to make it easier to identify it 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 > Saved devices.

- 3. Tap paret to the paired device.
- 4. Take one of the following actions:
 - To rename the device, tap the Edit icon, type the new name, and then tap RENAME.
 - To allowInternet accessor Contacts and call history sharing tap the check box next to the setting.
 - To unpair the device, tapFORGET.

About the Scanner Edge App

Your mobile computer is equipped to communicate with scanners using Bluetooth technology through the Scanner Edge app. The Bluetooth radio must be turned On. System bar icons indicate Bluetooth radio status.

To turn On the Bluetooth radio:

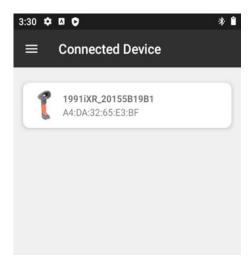
- 1. Swipe up from the bottom of the Home screen to access all apps.
- 2. Tap Settings 🔯 > Connected devices > Connection preferences > Bluetooth.
- 3. Tap Use Bluetooth to toggle the Bluetooth radio On or Off.

Connect a Bluetooth Scanner

To connect to a Bluetooth scanner, the Bluetooth radio must be turned on and then scan a pairing barcode with the Bluetooth scanner.

- 1. Swipe up from the bottom of the Home screen to access all apps.
- 2. Tap Scanner Edge
- 3.Tap the menu icon = and then tap Pair BT Scanner.
- 4. Scan the Connect Barcode displayed on screen.

5. When the scanner is successfully paired with the computer, the scanner name appears under Connected Device.



Unpair a Paired Scanner

You can unpair the scanner to remove it from the Connected Device list.

- 1.Swipe up from the bottom of the Home screen to access all apps.
- 2. Tap Scanner Edge
- 3. Tap the menu icon and then tap Disconnect BT Scanner.
- 4. Scan the Disconnect Barcode displayed on screen.

About Serial and USB Communications

You can use these optional CK65 accessories to transmit data to and receive data from another device through serial or USB communications:

- Vehicle dock
- Home Base
- Ethernet Home Base

For information about these accessories, contact your local sales representative.

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 87.

• Check to make sure you have enabled the USB for file transfer. To learn more, see Configure USB Connection and Transfer Files on page 33.

About Near Field Communication (NFC)

NFC technology provides the ability for short-range, wireless data transfer between the CK65 and NFC tags or other NFC enabled devices placed in close proximity to the back of the computer. All CK65 mobile computers support the following modes of operation:

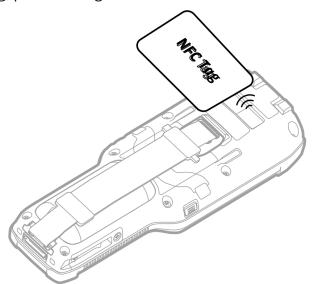
- NFC tag reader/writer mode: The computer reads and/or writes digital information from or to an NFC tag.
- Peer-to-Peer (P2P) mode: The computer uses Android Beam and/or Bluetooth technology to transfer screen content (e.g., a picture, contact information, Web page URL, or file) between NFC enabled devices.
- NFC card emulation mode: The computer emulates an NFC card (smart card) that an external card reader can access. You can download and install apps for card emulation mode from the Google Play Store. Some examples include digital wallets (e-wallets) offered by your bank or credit card company and Google Pay.

The app you install determines the type of emulation mode used: Card Emulation with a Secure Element or Host-based Card Emulation. Secure element use is common for financial transactions that require a high level of security in order to provide a secure memory and execution environment for running custom smart card applets and storing your personal information (e.g., account information and credentials).

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

Read an NFC Tag

To read an NFC tag, place the tag near the NFC antenna.



Note: **NFC is On by default. To turn NFC Off, go t**6ettings **>** Connected devices > Connection preferences > NFC

Developer Information

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

- 1. Go to the *Technical Support Downloads Portal* at honeywell.com/PSSsoftware-downloads.
- 2.Create an account if you have not already created one. You must login to download the software.
- 3.Install the *Honeywell Download Manager* tool on your workstation (e.g., laptop or desktop computer) prior to trying to download any files.
- 4. 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.

5. 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 ② > Honeywell Settings > Provisioning mode.
- 3. Tap the button to toggle the provisioning On or Off.

About Wi-Fi Staging

You can use the Honeywell Wi-Fi Staging app to quickly set up new devices by configuring one device and using it to stage others. Wi-Fi Staging can also be used to enroll devices in a Mobile Device Management (MDM) system by connecting units to a specified network and downloading and installing the specified MDM client app.

Once you have set up a configuration in the Wi-Fi Staging app on the server device, Wi-Fi staging will use that device as a hotspot and wait for a client to connect to it. The configuration will be distributed to the client device once communication is established between the client and the server device.

Staging Devices

Wi-Fi Staging requires two steps:

- 1. Setting up a master device to act as a server (see next section).
- 2. Setting up the client device (see Set Up Client Devices on page 91).

Set Up a Device as a Server

Wi-Fi Staging provides two kinds of configurations for a master device acting as a server through a hotspot. Setup of the server device will differ based on the staging configuration you choose:

- Basic Configs include the most common system settings:
 - System language
 - · Bluetooth and NFC
 - System volume
 - Location
 - Network
 - File download
 - Application installation or launch
- Advanced Configs allow you to stage your devices with .xml files

The hotspot on the server device will be named HONEYWELL_WIFI_STAGING. We

Note: recommend starting the server before setting any clients because the clients require, more time and power to scan and search for the hotspot signal if the not created in advance.

Note:

To control bandwidth usage, the server side of Wi-Fi Staging has a maximum limitation of 10 concurrent client connections. If more than 10 client devices to connect to the server device at the same time, staging of some of those clients will

Basic Configuration progresses.

Basic configuration includes the most common system settings.

- 1.Launch the Wi-Fi Staging app on the server device by tapping Settings > Honeywell Settings > Wi-Fi Staging.
- 2 Tap Basic Configs to start the configuration wizard.
- 3.System language: Tap + to add a language. At least one language must be selected. Tap NEXT.
- 4.Connection preferences: Enable Bluetooth and/or NFC. They are disabled by default. Tap NEXT.
- 5.Sound preferences: Adjust the default volume for each type of audio by dragging the slider, then tap NEXT.
- 6. Location setting: Enable the location switch. It is disabled by default. Tap NEXT.
- 7.Network & internet: You have the option to set up a network connection if, for example, you want to register devices to an MDM system or the devices need to use applications that require network access.

If you do not want to set up a network connection, tap SKIP and proceed to Step 9.

If you want to set up devices to connect to a Wi-Fi access point, enter the network information:

- a.Tap Wi-Fi Security and select either OPEN or WPA/WPA2.
- b.Enter the Wi-Fi SSID. This field cannot be empty. Then tap OK.
- c.Enter the Wi-Fi password. The password must be between 8 and 63 characters long. If you selected WPA/WPA2 a password is required.
- d.Tap NEXT.
- 8. Files & Apks: (This option will not display if you chose to skip the network settings in Step 7.) Enter the locations (URLs) of the files to be downloaded. The URL should end with the file that you want to download. Wi-Fi Staging will name the downloaded file with the file name in the URL.
 - For security, only Local Area Network URLs are supported. Wi-Fi Staging will ignore URLs from Wide Area Networks.
 - Supported network protocol is HTTP or HTTPS.
 - APK files are installed silently and automatically after download.
 - Optional: You can include a file's hash in the file name. Wi-Fi Staging supports hash algorithms SH1 and SHA256.
- 9. Final Setting: Select whether you want to reboot the device after staging is complete. You can also specify an action (intent) to launch Android activities. Then tap Next.
- 10.Confirm & Staging: Review the items you have configured. Tap Confirmed, start staging now! to begin. If you need to change a setting, tap the Back button to return to that screen.
 - Wi-Fi Staging will start a hotspot on the server device and wait for clients to connect.
- 11. Proceed to Set Up Client Devices on page 91.

Configurations will be distributed to any client that connects to the server device. Once the data transmission finishes successfully, the name and serial number of the configured client will display in the Wi-Fi Staging app on the server device, and the client device will skip the Android setup wizard.

Note: If you included a file's hash in Step 8, Wi-Fi Staging will validate that the hash of the file downloaded to a device matches what you specified. If the downloaded file's hash does not match, the file will be removed from the device.

Advanced Configuration

Advanced configuration allows you to stage your devices with one of more .xml files created by EZConfig or Enterprise Provisioner. For more information about generating .xml files, see the *Power Tools User Guide* or the *Enterprise Provisioner User Guide*.

 $_{Note:}$ Advanced Configuration supports .xml files only. Other file types will be ignored.

Note: Do not change the default names of .xml files. (For example, DeviceConfig.xml is acceptable, but DeviceConfig1.xml is not.)

- 1. Choose one device to act as the server.
- 2.Launch the Wi-Fi Staging app on the server by tapping Settings > Honeywell Settings > Wi-Fi Staging.
- 3. Tap Advanced Configs.
- 4. Tap File directory.
- 5. Specify where on the server device the .xml files to be downloaded are located. 6. Tap NEXT.
- 7. Choose the files to be applied. Tap NEXT.
- 8. Review the files you have selected. If you need to change any files, tap the Back button. Otherwise, tap Confirmed, start staging now! to begin.
 - Wi-Fi Staging will start a hotspot on the server device and wait for clients to connect.
- 9. Proceed to Set Up Client Devices on page 91.

Set Up Client Devices

The Wi-Fi Staging client runs automatically on the initial boot of a new device. However, it must be started manually on existing devices.

New Devices

This section applies to new, out-of-the box devices only. For existing devices, see the next section.

- 1. Set up a server device (see page 88).
- 2.Place the new devices to be configured within 1 meter (3 feet) of the server device and turn them on.

When a new device boots up and begins the setup wizard, it will attempt to retrieve configuration from the server device, and a staging progress screen will display.

Note: Client devices should be kept on the Android Welcome or setup wizard screen during staging. If you finish the setup wizard manually the client side of Wi-Fi Staging will stop running.

Configurations will be distributed to any client that connects to the server device. Once the data transmission finishes successfully, the name and serial number of the configured client will display in the Wi-Fi Staging app on the server device, and the client device will skip the Android setup wizard.

Existing Devices

To start the Wi-Fi Staging client on an existing device:

- 1. Set up a server device (see page 88).
- 2.Turn on the client device and launch the Wi-Fi Staging app by tapping Settings > Honeywell Settings > Wi-Fi Staging.
- 3. Tap To be Staged.
- 4.A message will display notifying you that the Wi-Fi settings on the client device will be reset as part of the staging process. Tap OK to confirm you wish to proceed.
 - Staging will begin and a progress screen will display.
- 5.Place the device within 1 meter (3 feet) of the server device and it will begin searching the server hotspot for a configuration.

The client devices will attempt to retrieve configuration from the server device and a staging progress screen will display. Once the client device receives and applies the configuration successfully, the progress screen will be dismissed.

Note: To stop the staging process on an existing device, tap the Back button on the client device.

Log Files

Wi-Fi Staging saves a key process and exception log on the device in the following directory: /sdcard/honeywell/Android/data/com.honeywell.wifistaging/Log/

This directory can be accessed through USB if Provisioning Mode is enabled.

About Voice Wedge

Voice Wedge is a voice-to-text conversion tool that can be triggered by a specified start word or key press event. When Voice Wedge is activated, the mobile device can capture a user's speech and output it as text in a field in the selected app. Voice Wedge can be configured to apply globally across all apps or only for an associated application.

Note: Because Voice Wedge is powered by Google speech recognition services, it is only available on Google Mobile Services (GMS) devices.

Define Trigger Mode

You can define either a spoken word or a key press as the trigger to launch Voice Wedge.

- 2. Tap the toggle button to turn Voice Wedge On.
- 3.Tap Trigger mode.
- 4.Tap Start Word to define a voice command as the trigger or Key to use a key press.
- 5.If you selected Start Word, tap Trigger start word then use the keypad to enter the word. The default trigger start word is "honey".
- 6.If you selected Key, tap Trigger key then select the key to be mapped. You can either press a button (for example, a scan button) or use a virtual key. Note that when a button or key is selected for Voice Wedge, its original use is no longer active.

Associate Applications

By default, Voice Wedge is associated with all applications. You have the option to associate Voice Wedge with a single app.

- 2. Tap Effective Coverage.
- 3. Tap Single app.
- 4. Tap App package name.
- 5.Use the keyboard to enter the associated package name, for example, "com.android.chrome", then click OK.
- 6.To limit Voice Wedge to a specific activity within an app, tap App activity name and use the keyboard to enter the activity name. For example, "com.google.android.apps.chrome.Main".

Define Key Commands

Voice Wedge allows you to define some words so that they will be interpreted as commands rather than being displayed as text when you are speaking. When you say one of these words, Voice Wedge will send a key press.

Under Key command, select the check box for words that should be used as keys.

- Enter When you say, "enter," an Enter key will be sent.
- Tab When you say, "table," a Tab key will be sent.
- Space When you say, "space," a space key will be sent.

Select Data Type

By default, Voice Wedge enters both alphabetic and numeric characters. You can also choose to input only alpha or numeric characters.

- 2. Tap Data type.
- 3. Tap the data type to input.

Examples:

Data Type	You say	Voice Wedge inputs
Any	abcl23	abcl23
Alpha	abc123	abc
Numeric	abc123	123

To Use Voice Wedge in an App

Follow these steps to use Voice Wedge in an application on your device. Note that if a specific application is defined in the App Package Name setting, Voice Wedge will only work if you are using that app.

- 1. Select an app on your device.
- 2. Tap a data entry field in the app.
- 3.Say the defined Trigger start word or press the Trigger key. A message indicates, "Waiting for voice input..."
- 4. Speak normally into the device. The text will populate the selected field.

6

CONFIGURE RFID SETTINGS

About RFID Readers

Honeywell mobile computers can be paired with an RFID Reader to provide a high-performance mobile RFID solution. To read RFID tags, you can use applications that are coded to use the RFID reader or applications that receive data through the RFID wedge feature.

Use this chapter to understand how to configure settings that define how the mobile computer interacts with the Honeywell RFID Reader.

Change the RFID 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 > RFID.
- 3.Tap an RFID reader model (IP30, IH25, IH40, IH45).

Note: Refer to the accessories catalog for your mobile device to determine compatible RFID Reader models.

- 4. Tap Default profile.
- 5.Select from the following:
 - RFID Reader Settings
 - . Filter Settings
 - Trigger Settings (model dependent)
 - Notification Settings
 - Data Processor Settings
- 6. Modify the settings to meet your application needs.

To learn more about the RFID settings, see Default RFID Settings on page 96.

Restore Default Scan Settings

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

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

- 1. Open the Default profile.
- 2. Tap in the upper right corner of any of the scan settings screens for the profile.
- 3. Tap Restore all defaults.

Default RFID Settings

Use the following sections to understand the settings available for RFID profiles. To learn how to create a new profile, see page 100.

RFID Reader Settings

You should not need to modify the RFID Reader Settings. The Override recommended values setting is disabled by default. The recommended RFID Reader Settings are designed to work in a wide range of environments. RFID Reader Settings

Setting	Description	Default
Read Mode*	Select the RFID Read mode.	Event mode
User defined read mode*	Enter a custom read mode.	None
Tag Type*	Defines the types of RFID tags used in an application.	EPC Class 1
		Gen 2
Override recommended values	Allow custom RFID reader settings to be created.	Disabled
Dense Reader Mode*	Allows the reader to hop between channels within a certain frequency spectrum to prevent other readers i area from interfering with one another.	Disabled n the
Field Separator*	Sets the character to be used for separating fields in to data. Choose from space (), comma (,), colon (:), semicolon (;), tab, caret (^), or tilde (~).	Space
ID Report*	Enables or disables tag ID reporting after a Read, Writ Lock command is executed.	e,Disabled

^{*}IP30 RFID Reader Settings only.

Setting	Description	Default
No Tag Report*	Enables or disables a NOTAG message, which is sent when no tags are found during execution of a Read, V or Lock command.	Disabled /rite,
Report Timeout (ms)*	Sets the timeout (in ms) for delays in tag reporting in continuous read mode. Range is 0 to 65534.	0
Initial Q*	Sets the initial Q parameter value used by the Query command. Valid range is 0 to 15.	4
Field Strength (dB)	Sets the RF power level (in dBm) for the antenna port.	Model dependent
Session	Sets the command session parameter to a correspond EPCglobal Class 1 Gen 2 air protocol command.	li M godel dependent
(sec)*	f Sets the time period (in seconds) for which the Blueto radio will search for a Bluetooth connection. Range is to 3600.	
Timeout or Tries*		
Timeout Mode*	Enables a timeout mode. Instead of specifying the number of antenna or ID tries, specify an antenna or ID timeout value. If the reader does not find any tags after an antenna or ID try, the reader waits this long before starting the next antenna or ID try. If you enable timeout mode, you need to set the ID Timeout and Antenna Timeout values.	Disabled
ID Timeout (ms)*	Sets the maximum time period (ms) during which attempts are mode to find tags before a response is returned to a READ or WRITE command. Range is 0	100
Antenna Timeout (ms)*	to 65534.	50
ID Tries*	Sets the maximum time period (ms) during which	1
TID THES	each Rategna is used for a READ or WRITE command.	
Antenna Tries*	O to 65534. Sets the number of times an attempt is made to find tags	3
Schedule Option*	before a response is returned to a READ or WRITE command. Range is 1 to 254.	1
Read Tries*	Sets the maximum time period (ms) during which each antenna is sued for a READ or WRITE command.	
Write Tries*	1 to 254. Controls the behavior of ANTTIMEOUT, ANTTRIES,	3
Initialization Tries*	IDTIMEOUT, and IDTRIES. Sets the number of times an attempt is made to read	1
Lock Tries*	data from a tag before a response is returned to a READ command. Range is 0 to 254.	3

^{*}IP30 RFID Reader Settings an attempt is made to write data

to a tag before a response is returned to a WRITE command. Range is 1 to 254.

 $\textbf{CK65 Mobile Computer User Guide} \textbf{Sets} \ \ \textbf{the initialization tries variable in the reader}.$

Range is 1 to 254.

Sets the number of times an attempt is made to lock

Setting	Description	Default
Select Tries*	Sets the number of times a group select is attempted group select is the command used to start the identify process. Range is 1 to 254.	
Unselect Tries*	Sets the number of times a group unselect is attempt Range is 1 to 254.	еф.

^{*}IP30 RFID Reader Settings only.

Filter Settings

Use the Filter Settings to modify or reject data strings.

Filter Settings

Setting	Description	Default
Read filter script	Filter applied to raw tag results.	None
Debug level	Degree of detail in debug messages. The default level is 0, information. Higher levels emit more information. Level 4 emits the most information.	r@

Trigger Settings

Use the Trigger Settings to configure how the scan trigger functions. Trigger Settings is only available for some RFID reader models.

Trigger Settings

Setting	Description Def	
Enable reader trigger	Enable activating a scan by pressing the trigger on the RF reader.	ID nabled

Notification Settings

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

Notification Settings

Setting	Description	Default
Good Read Notification	Enables or disables a good read notification. The notification consists of a green blink of the Good Re LED, a short beep, and an optional short vibration.	Enabled ad
Bad Read Notification	Enables or disables notification of a failed scan. The notification consists of a red blink of the Good Read LED, an error beep, and an optional short vibration.	Disabled
Vibrate On Notification	Enables or disables whether the computer vibrates when there is a good or bad read.	Disabled

Data Processor Settings

Use the Data Processor Settings to specify how RFID tag data is processed by the computer.

Data Processor Settings

Wedge method Wedge method: Specify wedge method: Standard or Keyboard. In Standard mode, the wedged data is displayed character by character, similar to typing on a keyboard. Select the character set to use when interpreting the ag binary data into a string. Defines the string added to the front of the tag data. Prefix Defines the string added after the tag data. None Defines the string added after the tag data. List of character values to wedge as keys, represented as a comma-separated list of decimal values. Enable or disable a browser being launched when the tag data starts with http:// or https://. The browser opens using the tag data as a URL. Launch browser Launch EZConfig 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 Data intent Data intent Data intent Data intent Data intent category property Package name Data intent category property Data intent class name Data intent class name Data intent class name Data intent class name Data Editing Plugin Name of the plugin used to manipulate tag data. None Enabled to distable settings property.	Setting	Description	Default
In Standard mode, the wedged data displays in a block format. In Keyboard mode, the wedged data is displayed character by character, similar to typing on a keyboard. Select the character set to use when interpreting the ag binary data into a string. Defines the string added to the front of the tag data. Prefix Defines the string added after the tag data. Defines the string added after the tag data. Suffix List of character values to wedge as keys, represented as a comma-separated list of decimal values. Enable or disable a browser being launched when the tag data starts with http:// or https://. The browser opens using the tag data as a URL. Launch browser Launch EZConfig 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_CONFIC Data intent Data intent Data intent Data intent Data intent action property Action Data intent category property Package name Data intent class name Data intent class name Data intent class name Data intent class name Extra key Data intent ethe plugin used to manipulate tag data. None	Wedge		Enabled h an
Charset binary data into a string. Defines the string added to the front of the tag data. Prefix Defines the string added after the tag data. Suffix List of character values to wedge as keys, represented as a so	Wedge method	In Standard mode, the wedged data displays in a bloc format. In Keyboard mode, the wedged data is display character by character, similar to typing on a keyboard	k (ed
Prefix Defines the string added after the tag data. List of character values to wedge as keys, represented as a 9,10,13 Enable or disable a browser being launched when the tag data starts with http:// or https://. The browser opens using the tag data as a URL. Tag to intent Launches an app specified by the tag when data begins with //. Enable or disable special handling of EZConfig barcocest. 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 Data intent Data intent Data intent Data intent action property Data intent category property Package name Data intent category property Data intent category property Data intent class name Data intent class name Data intent extra key Data Editing Plugin None None None None Data Editing Plugin None	Charset	binary data into a string.	ISO-8859-1
Suffix List of character values to wedge as keys, represented as a sa y 3,10,13 Enable or disable a browser being launched when the tag data starts with http:// or https://. The browser opens using the tag data as a URL. Tag to intent Launches an app specified by the tag when data begins with //. Enable or disable special handling of EZConfig barcoc es. 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 Data intent Data intent Data intent Data intent category property Package name Data intent category property Package name Data intent class name Data intent class name Data intent class name Data intent extra key name None Data Editing Plugin Name of the plugin used to manipulate tag data. None	Prefix		None
Wedge as keys comma-separated list of decimal values. Enable or disable a browser being launched when the tag data starts with http:// or https://. The browser opens using the tag data as a URL. Launches an app specified by the tag when data begins in Enabled Enable or disable special handling of EZConfig barcodes. Launch EZConfig 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 Data intent Data intent Data intent Data intent category property Action Data intent category property Package name Data intent package name Data intent class name Data intent class name Data intent extra key name Data Editing Plugin None None	Suffix	ğ ğ	None
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Launch EZConfig 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 Data intent Data intent Data intent Data intent Data intent Disable Action Data intent action property d None Category Data intent category property None Package name Data intent package name None Class name Data intent class name None Extra key Data intent extra key name None Data Editing Plugin Name of the plugin used to manipulate tag data. None	Tag to intent	with //.	Enabled
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Data Editing Plugin Data Editing Plugin Name of the plugin used to manipulate tag data. Non	Class name	Data intent class name	None
Data Editing Plugin Name of the plugin used to manipulate tag data. Non	Extra key	Data intent extra key name	None
	Data Editing Plug	in	
Edit settings The edit data settings property.	Data Editing Plugin	Name of the plugin used to manipulate tag data.	Non
	Edit settings	The edit data settings property.	е

Non

е

Add an RFID Profile

The mobile computer has a default profile for each RFID Reader model. You can also create custom profiles as needed for your use case. Profiles are created for the RFID model.

To create an RFID 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 > RFID > <RFID Reader model>.
- 3. Tap \bigoplus 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 RFID profile list for the selected device type. You can now select and modify the scan settings for the new profile.

Delete an RFID Profile

- 1. Swipe up from the bottom of the Home screen to access all apps.
- 2. Tap Settings 🔯 > Honeywell Settings > RFID > < Device type>.
- 3. Tap and hold the profile you want to delete, select Delete and then clickok.

CHAPTER

7

MANAGE AND MAINTAIN THE COMPUTER

Use this chapter to understand how to upgrade software, reset, and maintain the computer.

About Software Updates and Cyber Security

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 sps.honeywell.com and select



Services > Productivity > Support Services Honeywell recommends routinely checking the Cyber Security Notifications page for critical Cyber Security Notifications and to download the latest Network and Security Guides.

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.

- 1.Go to honeywell.com/PSSsoftware-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 33.

Install Software with AutoInstall

Important: The CK65 must have power for the entire length of the install process or it could become unstable. Do not attempt to remove the battery during the process.

- 1. Swipe up from the bottom of the Home screen to access all apps.
- 2.Tap Settings 🔯 > Honeywell Settings > Provisioning mode.
- 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 CK65 mobile computer:
 - Internal shared storage\honeywell\autoinstall
 Software upgrades saved to this folder for installation do not persist when an
 Erase all data (factory reset) or Enterprise data reset is performed.
 - IPSM card\honeywell\autoinstall
 Software upgrades saved to this folder do not persist when an Erase all data (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 \bigcirc and verify Enable AutoInstall is On \square .
- 7. Tap Packages Update from the AutoInstall Settings screen.
 - The computer automatically initiates a reboot and installs the software upgrade. The system update screen appears during the upgrade process. When the update is finished, the lock screen appears.
- 8.Once installation is complete, turn Provisioning mode Off.

Note: Some updates do not require the computer to reboot before installation.

Optional microSD Card Method

The CK65 comes equipped with a microSD card socket. You can install an upgrade from a microSD card you insert in the computer.

Important: The CK65 must have power for the entire length of the install process or it could become unstable. Do not attempt to remove the battery during the process.

1.On the CK65, swipe up from the bottom of the Home screen to access all apps.

- 2.Tap Settings 🔯 > Honeywell Settings > Provisioning mode.
- 3. Tap the toggle button to turn Provisioning mode On.
- 4.Swipe up from the bottom of the Home screen to access all apps.
- 6. Press and hold the Power button, and then tap Power off.
- 7.On your workstation (e.g., laptop, desktop computer), format the microSD card and create a \honeywell\autoinstall folder on the root of the card.
- 8. Save the upgrade file (*.zip or *.apk) file in the autoinstall folder.
- 9.Install the microSD card in the CK65, and then turn on the computer.

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.

10.Once installation is complete, turn Provisioning mode Off.

About the Honeywell Upgrader

Use the Honeywell Upgrader app (HUpgrader) to automatically search for and install Over-the-Air (OTA) operating system updates from a remote server. The app can also be used to manually initiate a search for OS updates, update the OS using a file downloaded to the mobile device, and downgrade the operating system to a previous version. Refer to the HUpgrader User Guide available at sps.honeywell.com for more information.

Restart (Reboot) the Computer

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

- 1. Save your files and close any open applications.
- 2. Press and hold the Power button until the options screen appears.

3. Tap Power > Restart.

If the touch panel display is unresponsive:

 Press and hold the Power button for approximately 8 seconds until the computer reboots.

About 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 > Reset options.
- 3. Tap Enterprise data reset.
- 4. Tap Erase all data.
- 5. If prompted, type your screen lock security pattern, PIN, or password.

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

About Erase All Data (Factory Reset)

A full Factory Reset should only be performed if you have exhausted all other troubleshooting options including an Enterprise data reset. 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 CK65 Series computer, make sure you have your Google username and password associated with the computer. If you do not have the username and password, you will not be able to use the computer after the reset. This is a security measure that prevents unauthorized users from using the device if they try a Full factory reset.
- If you did not add a Google Account to the computer, the extra security level is not enabled and you will not need a Google username and password.
- If you recently reset your Google Account password, wait 24 hours before performing a Full factory reset.
- Connect the computer to an external power source or make sure you have a full battery charge.
- Make sure you have an Internet connection.

Erase All Data (Factory Reset)

- 1. Swipe up from the bottom of the Home screen to access all apps.
- 2. Select Settings > System > Reset options.
- 3. Tap Erase all data (factory reset).
- 4. Tap Erase all data.
- 5. If prompted, type your screen lock security pattern, PIN, or password.
- 6. Tap Erase all data. A message appears informing you a Full factory 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 xi).

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 CK65 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.

 $_{\mbox{Note:}}$ Always turn off the CK65 and leave the battery installed when you clean the computer.

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 thecomputerin 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

Note: **CK65** models for use in hazardous locations are not available with disinfectant-ready housing.

Some configurations of CK65 computers are available with an external plastic housing that is designed to resist the effects of harsh chemicals. These computers are equipped with disinfectant-ready (DR) housings for the general-purpose market.

A cleaning guide for general-purpose devices with disinfectant-ready housing is provided on the product page at sps.honeywell.com. Please refer to this guide for a list of approved cleaners for your device.

How to Identify Models with DR Housing

Since 2021, all standard and cold storage CK65 models have been equipped with disinfectant-ready housing. Previously, a water droplet on the front of the computer indicated CK65 models with disinfectant-ready housing.

The first two digits of the serial number indicate the year the computer was manufactured.

- If the serial number of your (non-hazardous-location) computer begins with 21 or higher, it has disinfectant-ready housing.
- If the serial number begins with 20 or lower and your computer does not have a water droplet, it does not have disinfectant-ready housing.



SPECIFIC ATIONS

Computer Agency Information

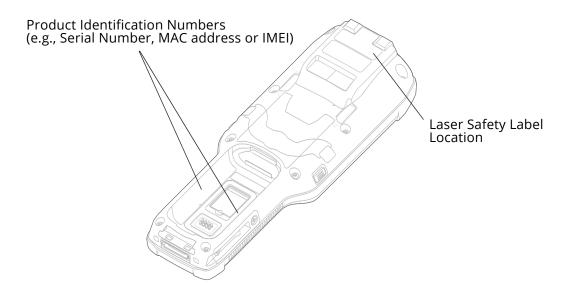
CK65 mobile computers meet or exceed the requirements of all applicable standards organizations for safe operation. The best way to ensure safe operation is to use the mobile computer according to the agency guidelines on the product regulatory sheet, quick start guide, battery insert, and in this user guide. Read all guidelines before using your computer.

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

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

Label Locations

Labels inside the battery compartment contain information about the computer, including compliance information, model number, serial number, and MAC address. Laser safety labeling is located on the back of the computer.



Physical and Environmental Specifications

- 1.Go to sps.honeywell.com.
- 2. Type CK65 in the Search box and then press Enter.
- 3.Click **CK65 Handheld Computer**.
- 4. Select one of the following:
 - **Specifications** View System Architecture, Wireless Connectivity, Mechanical, and Environmental specifications.
 - Resources Download the Data Sheet, Accessory Guide, Quick Start Guide, User Guide, Regulatory Information, Battery Information, and other product documentation.

Barcode Symbologies Supported

The computer supports the following barcode symbologies:

1D Symbologies 2D Symbologies		es	Postal Codes		
	Default		Default		Default
Codabar Code	Enabled	Aztec Code	Enable	Australian Post	Disable
39 Code 32 Code	Enabled	Codablock A	d	British Post	d
11 Code 93 Code	Disabled	Codablock F	Disable	Canadian Post	Disable
128 Composite	Disabled	DataMatrix	d	China Post	d
Digimarc	Disabled	DotCode	Disable	InfoMail	Disable
Barcode EAN-8	Enabled	Grid Matrix	d	Japanese Post	d
EAN-13 GS1-128	Disabled	HanXin	Enable	Korean Post	Disable
GS1 DataBar	Disabled	Maxicode	d	Netherlands (KIX) Post	
IATA 2 of 5	Enabled	PDF 417	Disable	2D Postal Settings	Disable
Standard 2 of 5	Enabled	QR Code	d	Planet Code	d
Interleaved 2 of	Enabled	TLC 39	Disable	Postnet	Disable
5 ISBT 128 Matrix	Disabled	OCR-A	d		d
2 of 5 MSI	Disabled	OCR-B	Disable		Disable
Telepen Trioptic	Disabled		d		d
Code	Enabled		Disable		Disable
	Disabled		d		d
	Disabled		Enable		Disable
	Disabled		d		d
	Disabled		Disable		Disable
	Disabled		d		d
			Disable		Disable

Disable

d

d

CK65 Mobile Computer User Guide

Disable

1D Symbologies		2D Symbologie	es	Postal Codes	
	Default		Default		Default
UPC-A	Enable				
UPC-E	d				
UPC-E1	Enable				

Note: **To learn about changing the symbology settings, see Change the Scanner Settings on page 48.**

S0803-LR FlexRange XLR Imager Reading Distances

The depth of field measurements used the following parameters:

- Distances are measured from the front of the Imager
- +23 °C (+73 °F), 200 lux for guaranteed and typical
- Photographic quality codes

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

Guaranteed Specs

Focus	Focus		
Symbology		Near Distance	Far Distance
3 Mills Code 39	mm	138	365
	in.	5.43	14.37
10 mils Data Matrix	mm	152	387
	in.	5.98	15.23
10 mils 128	mm	94	1491
	in.	3.7	58.7
13 mils UPC-A	mm	68	2000
	in.	2.68	78.74
20 mils Code 39	mm	63	5600
	in.	2.48	220.47
55 mils Code 39 1	mm	-	12500
	in.	-	492.13
100 mils Code 39 ^{1, 2}	mm	-	20000
	in.	-	787.4

Focus		Standard Range	
Symbology		Near Distance	Far Distance
100 mils Data Matrix1	mm	-	6500
	in.	-	255.91

¹ Minimum distance depends on the length of the barcode.

Typical Specs

Focus		Standard Range	
Symbology		Near Distance	Far Distance
5 mils Code 39	mm	125	469
	in.	4.92	18.46
10 mils Data Matrix	mm	140	441
	in.	5.51	17.36
10 mils Code 128	mm	88	2021
	in.	3.46	79.57
13 mils UPC-A	mm	56	2090
	in.	2.20	82.28
20 mils Code 39	mm	60	6341
	in.	2.36	249.65
55 mils Code 39 1	mm	-	15425
	in.	-	607.28
100 mils Code 39 1, 2	mm	-	26197
	in.	-	1031.38
100 mils Data Matrix 1	mm	-	11718
	in.	-	461.34

¹ Minimum distance depends on the length of the barcode.

S0803-LR FlexRange XLR Imager Field of View/Resolution

Near Field Focus	
Horizontal Field Angle (degrees)	48°
Vertical Field Angle (degrees)	21°

Note: DPI can be calculated based on the following formula: Horizontal DPI = 1920 pixels/width of horizontal field of view (inches) Vertical DPI = 800 pixels/width of vertical field of view (inches)

² Typical code wide to narrow elemental ratio is 3:1. Minimum 100 mils code height of 3 inches

² Typical code wide to narrow elemental ratio is 3:1. Minimum 100 mils code height of 3 inches.

Far Field (Discrete Focus Lens Module)	
Horizontal Field Angle (degrees) 13.7°	
Vertical Field Angle (degrees) 7.6°	

Note: **DPI can be calculated based on the following formula:** Horizontal DPI = 1920 pixels/width of horizontal field of view (inches) Vertical DPI = 1080 pixels/width of vertical field of view (inches)

S0703-SR Standard Range Imager Reading Distances

The depth of field measurements used the following parameters:

- Distances are measured from the front of the Imager.
- +23 °C (+73 °F), 0 lux for guaranteed, 200 lux for typical.
- Photographic quality codes

Note: Time to Read and Depth of Field will be impacted if the barcode symbol is at the edge of the image. Guaranteed Specs

Focus		Standard Range	
Symbology		Near Distance	Far Distance
5 mils Code 39	mm	79	270
	in.	3.11	10.63
6.7 mils PDF417	mm	96	236
	in.	3.78	9.29
10 mils Code 39	mm	40	425
	in.	1.57	16.73
10 mils Data Matrix	mm	83	236
	in.	3.27	9.29
13 mils UPC-A	mm	44	493
	in.	1.73	19.41
15 mils Code 128	mm	42	572
	in.	1.65	22.52
15 mils QR	mm	39	390
	in.	1.54	15.35
20 mils Code 39	mm	44	674
	in.	1.73	26.53

¹ Minimum distance depends on the length of the barcode.

 $^{^2}$ Typical code wide to narrow elemental ratio is 3:1. Minimum 100 mils code height of $^{\ddag}$ inches.

Typical Specs

Focus		Standard Range	
Symbology 5 mils Code 39		Near Distance	Far Distance
5 Mils Code 39	mm	70	301
	in.	2.75	11.85
6.7 mils PDF417	mm	84	244
	in.	3.31	9.61
10 mils Code 39	mm	40	517
	in.	1.57	20.35
10 mils Data Matrix	mm	72	297
	in.	2.83	11.69
13 mils UPC-A	mm	44	573
	in.	1.73	22.56
15 mils Code 128	mm	42	650
	in.	1.65	25.59
15 mils QR	mm	39	414
	in.	1.54	16.30
20 mils Code 39	mm	44	800
	in.	1.73	31.50

¹ Minimum distance depends on the length of the barcode.

S0703-SR Standard Range Imager Field of View/Resolution

Focus	Standard Range (SR)
Horizontal Field Angle (degrees)	44 ± 2° 28 ± 2°
Vertical Field Angle (degrees)	

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)

N6803-FR FlexRange Imager Reading Distances

The depth of field measurements used the following parameters:

- Distances are measured from the front of the Imager
- +23 °C (+73 °F), 200 lux for guaranteed, 200 lux for typical

 $^{^2}$ Typical code wide to narrow elemental ratio is 3:1. Minimum 100 mils code height of 3 inches.

Photographic quality codes

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

Guaranteed Specs

Focus		Standard Range	
Symbology		Near Distance	Far Distance
5 mils Code 39	mm	138	365
	in.	5.43	14.37
10 mils Code 39	mm	94	1198
	in.	3.7	47.17
10 mils Data Matrix	mm	152	387
	in.	5.98	15.23
13 mils UPC-A	mm	68	1437
	in.	2.68	56.57
15 mils Code 128	mm	66	1571
	in.	2.59	61.85
20 mils Code 39	mm	63	2161
	in.	2.48	85.07
55 mils Code 39 1	mm	-	6546
	in.	-	257.72
100 mils Code 39 1, 2	mm	-	9843
	in.	-	387.51
100 mils Data Matrix 1	mm	-	4505
	in.	-	177.36

¹ Minimum distance depends on the length of the barcode.

Typical Specs

Focus		Standard Range	
Symbology		Near Distance	Far Distance
-5 Mills Code 39	mm	122	414
	in.	4.8	16.3
10 mils Code 39	mm	85	1368
	in.	3.35	53.86

¹ Minimum distance depends on the length of the barcode.

 $^{^2}$ Typical code wide to narrow elemental ratio is 3:1. Minimum 100 mils code height of 3 inches

² Typical code wide to narrow elemental ratio is 3:1. Minimum 100 mil code height of 3 inches.

Focus		Standard Range	
Symbology		Near Distance	Far Distance
10 mils Data Matrix	mm	135	419
	in.	5.31	16.5
13 mils UPC-A	mm	60	1600
	in.	2.36	62.99
15 mils Code 128	mm	58	1894
	in.	2.28	74.57
20 mils Code 39	mm	56	2645
	in.	2.2	104.13
55 mils Code 39 1	mm	-	7159
	in. mm	-	281.85 10815
100 mils Code 39 ^{1, 2}	in.	-	425.78
	mm	-	5641
100 mils Data Matrix 1	in.	-	222.09

¹ Minimum distance depends on the length of the barcode.

N6803-FR FlexRange Imager Field of View/Resolution

Focus	
Horizontal Field Angle (degrees)	4
Vertical Field Angle (degrees)	8

Note: **DPI can be calculated based on the following formula:** Horizontal DPI = 1920 pixels/width of horizontal field of view (inches) Vertical DPI = 800 pixels/width of vertical field of view (inches)

N6703-SR Standard Range Imager Reading Distances

The depth of field measurements were taken using these parameters:

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

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

 $^{^2}$ Typical code wide to narrow elemental ratio is 3:1. Minimum 100 mil code height of 3 i \dagger ches.

Symbology		Near Distance	Far Distance
5 mil Code 39	mm	79	270
	in.	3.11	10.63
5 mil PDF417	mm	119	177
	in.	4.68	6.97
6.7 mil PDF417	mm	96	236
	in.	3.78	9.29
6.7 mil QR	mm	123	147
	in.	4.84	5.79
10 mil Code 39	mm	40	450
	in.	1.34	17.72
10 mil Data Matrix	mm	83	236
	in.	3.27	9.29
13 mil 100% UPC-A	mm	44	515
	in.	1.50	20.27
15 mil Code 128	mm	42	572
	in.	1.42	22.52
15 mil QR	mm	39	390
	in.	1.30	15.35
20 mil Code 39	mm	44	674
	in.	1.50	26.53

N6703-SR Standard Range Imager Field of View/Resolution

Focus	
Horizontal Field Angle (degrees)	4
Vertical Field Angle (degrees)	8

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)

EX20 Near/Far Imager Reading Distances

The depth of field measurements were taken using these parameters:

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

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

Symbology		Near Distance	Far Distance
3 mil Code 39	mm	120	740
	in.	4.7	29.1
4 mil Code 39	mm	120	1010
	in.	4.7	39.8
10 mil Code 39	mm	100	2200
	in.	3.9	86.6
13 mil EAN-UPC	mm	160	2190
	in.	6.3	86.2
20 mil Code 39	mm	200	4160
	in.	7.9	163.8
40 mil Code 39	mm	390	5990
	in.	15.3	235.8
55 mil Code 39	mm	530	6960
	in.	20.9	274

EX20 Near/Far Imager Engine Field of View/Resolution

Focus	
Horizontal Field Angle (degrees)	14.0°
Vertical Field Angle (degrees)	8.7°

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)

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