

HX3

Wearable Computer

Microsoft® Windows® CE 5 Operating System

Cradle Reference Guide

Disclaimer

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

HII shall not be liable for technical or editorial errors or omissions contained herein; nor for incidental or consequential damages resulting from the furnishing, performance, or use of this material.

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

© 2007-2012 Honeywell International Inc. All rights reserved.

Web Address: www.honeywellaidc.com

Microsoft® Windows, ActiveSync®, MSN, Outlook®, Windows Mobile®, the Windows logo, and Windows Media are registered trademarks or trademarks of Microsoft Corporation.

Intel® and Intel XScale® are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

Summit Data Communications, the Laird Technologies Logo, the Summit logo, and "Connected. No Matter What" are trademarks of Laird Technologies, Inc.

The Bluetooth® word mark and logos are owned by the Bluetooth SIG, Inc.

Symbol® is a registered trademark of Symbol Technologies. MOTOROLA, MOTO, MOTOROLA SOLUTIONS and the Stylized M Logo are trademarks or registered trademarks of Motorola Trademark Holdings, LLC and are used under license.

Wavelink®, the Wavelink logo and tagline, Wavelink Studio™, Avalanche Management Console™, Mobile Manager™, and Mobile Manager Enterprise™ are trademarks of Wavelink Corporation.

Acrobat® Reader © 2012 with express permission from Adobe Systems Incorporated.

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

Patents

For patent information, please refer to www.honeywellaidc.com/patents.

Limited Warranty

Refer to www.honeywellaidc.com/warranty_information for your product's warranty information.

Important Safety Warnings

SAVE THESE INSTRUCTIONS

This document contains important safety and operating instructions for the HX2 Desktop Cradle. Please read all instructions and cautionary markings on the Desktop Cradle itself before putting the unit into service.

Safety Alert Symbols



This symbol is used to call your attention to instructions concerning your personal safety. Watch for this symbol – it will alert you to important safety precautions that must be observed to avoid death, personal injury or property damage. Follow the instructions after the warning symbol and be alert to the possibility of personal injury or death.

These signal words provide users with information about the seriousness of the hazard involved:

DANGER	WARNING	CAUTION
Indicates imminent hazards which, if not avoided, WILL result in severe personal injury or death.	Indicates potential hazards which, if not avoided, COULD result in severe personal injury or death.	Indicates hazards or unsafe practices which, if not avoided, COULD result in minor or moderate personal injury or property damage.

SAFETY INSTRUCTIONS

Setting up the HX2 Desktop Cradle

Locate or orient the AC cord so that it will not be stepped on, tripped over or subjected to damage or stress.

CAUTION: RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.

Analyze or charge only Honeywell HX2A301BATTSTD / HX2A302BATTEXT Rechargeable Lithium Ion Battery Packs in this Desktop Cradle. Other batteries or battery packs may burst causing injury or property damage.

Operating the HX2 Desktop Cradle

Only users who have read and understand all operating instructions are qualified to operate the HX2 Desktop Cradle. Failure to read, understand and follow safety instructions may result in injury or death.

Keep the Desktop Cradle away from any heat source. Excessive internal heating can ruin the Desktop Cradle.

Use care when inserting battery. Do not "slam" or slide the battery into the pocket, this could damage the Desktop Cradle.

Keep dirt and foreign objects out of the battery pocket. Do not short circuit any of the contacts in the battery pocket, this could result in injury or property damage.

Do not operate the Desktop Cradle if it has been dropped or damaged in any way. Return the Desktop Cradle to Honeywell.

Storing the HX2 Desktop Cradle

Disconnect Desktop Cradle from the AC power source by pulling the plug; not the cord.

Maintaining the HX2 Desktop Cradle

Service should be performed by trained persons only. Return the Desktop Cradle to Honeywell.

Caring for Batteries

Do not dispose of batteries into a fire. Burning will generate hazardous vapors and may cause the battery to explode. Failure to observe this warning may result in injury from inhalation of vapors or burns from flying debris.

Do not immerse batteries in water or any other liquid. If batteries are immersed, contact Honeywell.

Do not disassemble or perform modifications to the battery. There are no user serviceable components in the battery.

Do not place battery into pocket or toolbox with conductive objects (coins, keys, tools, etc.).

A battery placed on damp ground or grass could be electrically shorted. Lay the battery on its side when not in use.

Do not store batteries above 140°F (60°C) for extended periods.

Failure to observe these warnings could result in injury or damage to the battery from rapid discharge of energy or overheating of the battery.

Electrical Shock Hazards

The following precautions should be observed to avoid the risk of electrical shock hazards associated with charging batteries:

The HX2 Desktop Cradle has been designed for indoor use only. Do not operate outdoors or in extremely high humidity environments. Do not expose Desktop Cradle to rain, snow or wet conditions.

Unplug the Desktop Cradle from power source before cleaning. Use only mild detergent with a slightly damp cloth to clean the outside of the Desktop Cradle. Do not use solvents or flammable cleaners. Allow the case to dry fully before using again.

Use of attachments or accessories not recommended by Honeywell could result in fire, electric shock or injury.

This appliance must be properly grounded. If it should malfunction or break down, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This appliance is equipped with a cord having an equipment grounding conductor and ground outlet that is properly installed and grounded in accordance with all local codes and ordinances. Do not operate the Desktop Cradle with a damaged AC cord or plug. Honeywell does not recommend the use of any extension cord with the HX2 Desktop Cradle.

The HX2 Desktop Cradle has been designed for use on a nominal 100 or 120 volt or nominal 220 or 240 volt circuit and has a grounding attachment plug. The plug is an IEC configuration that is appropriate for your country and regulations. Make sure that the appliance is connected to an outlet having a configuration similar to the plug. No adapter should be used with this appliance. Improper connection of the equipment-grounding conductor can result in a risk of electric shock.

Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with the appliance. If it will not fit in the outlet, have a proper outlet installed by a qualified electrician.

Do not disassemble the HX2 Desktop Cradle. It contains no user serviceable parts.

Table of Contents

Chapter 1: Introduction	1-1
About This Guide	1-1
Chapter 2: Desktop Cradle	2-1
Unpacking Your Desktop Cradle	2-1
Quick Start	2-1
Preparing the Cradle for Use	2-2
Components	2-3
HX3 Rechargeable Lithium Ion Battery Pack	2-4
Cradle Footprint	2-5
Table Mounting	2-5
Power Cable	2-6
Connect Input/Output Cables	2-7
USB Cable	2-7
Serial Cable	2-8
Indicators	2-9
Cradle LEDs	2-10
Cradle PWR LED	2-10
B1 and B2 LED	2-10
How to Dock or Remove the HX3	2-11
Insert the HX3 into the cradle	2-11
Remove the HX3 from the bay	2-12
Docked HX3 Mode States	2-12
Ring Scanner Storage	2-12
How to Insert/Remove a HX3 Tethered Battery	2-13
Insert HX3 Battery into Charging Pocket	2-13
Remove HX3 Battery from Charging Pocket	2-13
Cradle Help	2-14
Maintenance	2-14
Cleaning	2-14
Technical Specifications – Desktop Cradle	2-15
Chapter 3: Technical Assistance	3-1



Chapter 1: Introduction

The HX3 is a small, lightweight mobile computer designed to be worn on a person's arm or waist. An optional HX3 desktop cradle is available to:

- secure the HX3 with or without a rubber boot,
- recharge a tethered HX3 battery and a spare battery (both locations accept Standard and Extended batteries),
- provide storage for the tethered Ring Scanner when the HX3 is docked,
- and enable serial communication with USB devices (host, client, and other USB cabled devices).

The HX3 cradle is available with or without a power cord. If ordered without a power cord, a C-14 style power cord is required.

Communications cables for the HX3 are available separately.

HX3 keypad data entries can be mixed with ring scanner bar code data entries while the HX3 is docked in the cradle.

Using an external power supply, the HX2 cradle recharges Standard batteries in approximately 4 hours (8 hours for the Extended battery). The HX3 does not need to be docked in the cradle during a spare battery charging process.

Tethered battery recharging is performed using one of the battery bays located behind a docked HX3. The tethered battery can remain tethered to the HX3 while the HX3 is docked.

The HX3 can be either On or in Suspend Mode while in the cradle. Power must be applied to the cradle before any battery bay or docking bay charging can commence.

Wireless host/client communications can occur when the cradle is receiving external power and the HX3 is docked in a powered cradle. Wireless functions draw power from external power when the HX3 is docked. Cradle communication and power cables are available from Honeywell.

As soon as the HX3 is docked in a powered cradle, power connection between the tethered battery and the HX3 stops. The HX3 is now receiving power through the powered cradle connector. The HX3 backup battery starts trickle-charging. If the tethered battery is placed in a charging bay, the tethered battery starts re-charging.

The HX2 cradle is not certified for use in Hazardous Locations.

After the HX3 is secured in a cradle, refer to the **HX3 Reference Guide** for instruction when using your HX3.

Note: The HX3 Voice mobile device can be docked in the HX2 labeled Cradle. The HX3 tethered battery can be recharged in a powered HX2 labeled Cradle battery charging pocket.

About This Guide

This HX3 Cradle Reference Guide provides instruction for the end-user, installer or system administrator to follow when setting up or using an HX3 cradle.



Chapter 2: Desktop Cradle

Unpacking Your Desktop Cradle

After you open the shipping carton containing the product, take the following steps:

- Check for damage during shipment. Report damage immediately to the carrier who delivered the carton.
- Make sure the items in the carton match your order.
- Save the shipping container for later storage or shipping.

The HX3 cradle is available with or without a power cord. If ordered without a power cord, a country specific C14 style power cord is required.

Communications cables for the HX3 are available separately.

Quick Start

The following list outlines, in a general way, the process to follow when preparing the HX2 cradle for use. Refer to the following sections in this document for more details.

Do not place the HX3, batteries or ring scanner into the cradle bays until the cradle is on a stable, horizontal surface.

1. Prepare the cradle for use. See [Preparing the Cradle for Use](#).
2. [Connect the external power cable](#) to a dependable power supply.
3. Connect the cradle end of the power cable to the power port on the back of the cradle.
4. The B1 and B2 LEDs flash yellow-red-green then go out. The empty powered cradle is ready for use.
5. Prepare the HX3 for docking by removing it from the arm band, hip flip or audio case, if used.
6. Insert the HX3 in the Docking Bay. See [How to Dock or Remove the HX3](#).
7. Insert the tethered battery in one of the battery charging bays at the back of the cradle. See [How to Insert / Remove a Battery](#). The battery can remain tethered as the power connection between the battery and the HX3 is broken as soon as the HX3 connects to the power source via the cradle-power connector.
8. Dock the Ring Scanner, if attached, in the Ring Scanner bay (between the battery charging bays).
9. Insert a spare battery in the remaining battery charging bay at the back of the cradle, if desired.
10. The B1 and B2 LEDs illuminate as soon as a battery is inserted in a charging bay.
11. Connect USB cables at the front of the cradle, if desired.
12. Press the Power button on the HX3. The cradle PWR LED illuminates. The fully loaded cradle is ready for use.

Note: Do not allow cleaning agents of any kind to contact the battery charging terminals; they may be damaged. If necessary, clean them with a soft-bristle, dry brush or compressed air.

Extreme ambient temperatures may have unexpected / undesired effects on the HX3, ring scanner, cradle and batteries in the charging bays. Refer to [Technical Specifications](#) for recommended temperature ranges for daily operation, battery charging and storage.

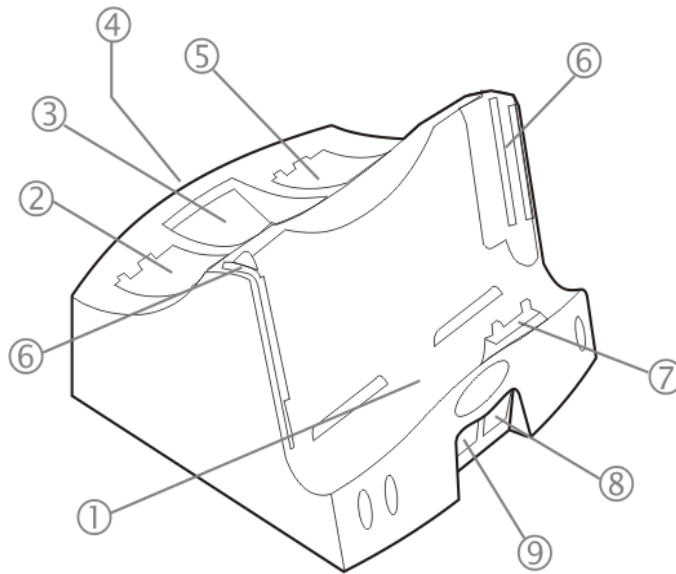
Preparing the Cradle for Use

Note: Keep dirt and foreign objects out of the cradle. Do not short circuit any of the charging terminals (pins), as this action could result in injury or property damage.

Use a stable, horizontal surface out of the way of:

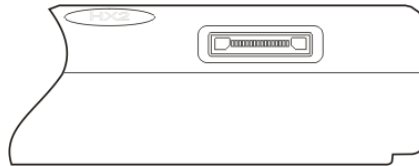
- inclement weather conditions,
- extremely high concentrations of dust or wind blown debris,
- accidental knocks, bumps or other shocks to the cradle and items in the cradle bays.
- Leave enough space at front and back cable connectors to ensure cables are protected from jostling, tugging or being disconnected by passing objects.

Components



- | | | | |
|---|---|---|--------------------------------------|
| 1 | Docking Bay | 5 | Right Battery Charging Bay |
| 2 | Left Battery Charging Bay | 6 | Cradle Side Rails |
| 3 | Tethered Ring Scanner Storage | 7 | HX2 Cradle Connector (power and I/O) |
| 4 | Back Connectors - AC Power Port and RS232 Serial Port | 8 | USB Port (USB-B Client) |
| | | 9 | USB Port (USB-A Host) |

Note: Either battery charging bay can charge stand-alone or tethered Standard and Extended batteries.



The HX3 Cradle Connector is located on the bottom of device.

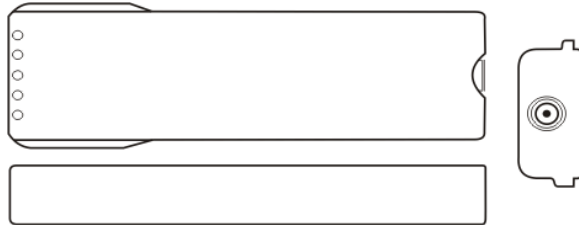
The HX2 Cradle is not certified for use in Hazardous Locations.

Note: The HX3 Voice mobile device can be docked in the HX2 labeled Cradle. The HX3 tethered battery can be recharged in a powered HX2 labeled Cradle battery charging pocket.

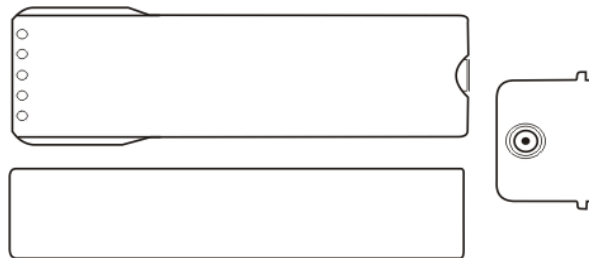
HX3 Rechargeable Lithium Ion Battery Pack

Each battery pack has one side alignment rib wider than the other to ensure the battery pack is inserted in the battery charging bay easily. This design ensures the battery charging terminals line up with the charging terminals in each charging bay.

Standard Battery



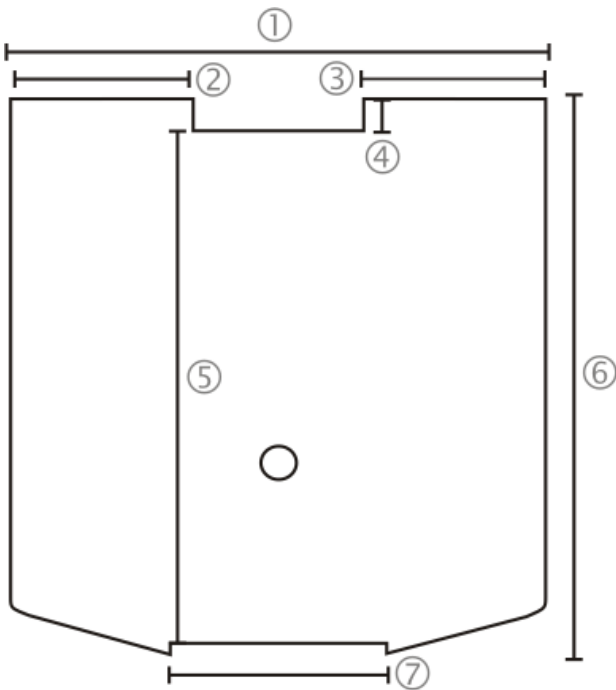
Extended Battery



Note: When a battery pack is not in use, lay the battery pack contact-side up in a protected environment. When feasible, protect the battery from ESD and contamination. Any dust or moisture that adheres to the tether connector can potentially cause damage upon cable re-connection.

Battery Charge Contact	Description	Pin
Power (+)	Positive terminal	1
ID (D)	Battery ID	2
Voltage Sense (S)	Cell voltage sensor	3
Thermistor (T)	Temperature sensor	4
Ground (-)	Negative terminal	5

Cradle Footprint



Approximations

1. 5.5 in / 14 cm
2. 2.0 in / 5.1 cm
3. 2.0 in / 5.1 cm
4. 0.45 in / 1.14 cm
5. 5.5 in / 14 cm
6. 6.0 in / 15.2 cm
7. 2.5 in / 6.3 cm

Cradle Height: 3.4 in / 8.6 cm

Cradle w/HX3 Height: 4.75 in / 12.1 cm

Cradle w/Tethered Battery Height: 6 in / 15 cm

Bottom View –
Measurements are Not to Scale

Table Mounting

The cradle can be mounted to a flat, stable surface using the <1mm hole in the Tethered Ring Scanner storage bay (fasteners, screwdrivers, etc., not supplied by Honeywell).

Periodically check the connection and re-tighten if necessary.

Power Cable

Important: Use the power cable provided with the cradle's power supply adapter with the HX2 cradle only.

Honeywell offers two types of external power supplies for the cradle:

- Power Supply, External, AC, US (with power cable)
- Power Supply, External AC, International (without power cable)

Contact [Technical Assistance](#) if the AC power cable is not included with the power supply.



The external power supply may be connected to either a 120V, 60Hz supply or, outside North America, to a 230V, 50Hz supply, using the appropriate detachable cord set.

In both cases, connect the external power supply 2-prong end to a source of power provided with maximum 15 Amp over current protection (10 Amp for 230V circuits).

1. Firmly press the cradle end (L-shaped 5mm barrel connector) of the power cable into the power connector on the back of the cradle.
2. Firmly press the C8-2 female end of the power cable into the two male connector pins on the power adapter, guided by the connection notches on the top and bottom.
3. Plug the 2-prong end of the cable into any AC wall outlet with a dependable power source. AC power is now being supplied to the AC/DC power adapter and the cradle.

Each time the HX3 is docked in the powered cradle, the connection between the tethered battery and the HX3 terminates.

Press the Power button on the HX3 and the PWR LED on the cradle will illuminate.

When a battery is in either one (or both) of the battery charging bays, the battery charging bay LED (B1 / B2) is illuminated.

Connect Input/Output Cables

Note: Route all cables to ensure they are protected from jostling, tugging or being disconnected by passing objects.

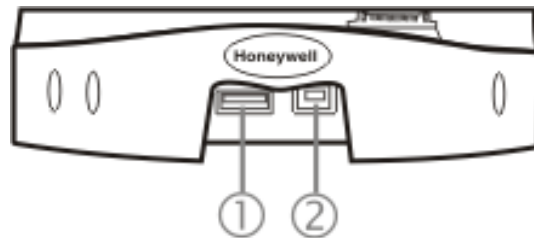
The cradle must be receiving power from an external power source before HX3 battery charging can begin.

USB Cable

Prerequisite: The steps outlined in [Connect the Power Cable](#) have been completed and the cradle has a dependable power source.

The cradle provides 5V to the USB Host connector (0.5A) to allow interfacing with an external USB keyboard or USB pointing device through the cradle.

USB Client connections do not receive power through the cradle.



Requires Cable Type:

1. USB A Host e.g., scanner
2. USB B Client e.g., Activesync cable

Ensure there is a stable source of power applied to the external device. Turn the device On.

Connect the USB-A (Host - left connector) or USB-B (Client - right connector) plug to the appropriate receptacle at the bottom front of the cradle.

The USB connected external device and HX3 communication is available.

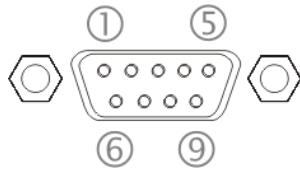
Serial Cable

Prerequisite: The steps outlined in Power Cable have been completed and the cradle has a dependable power source.

The serial cable port is located on the back of the cradle. Only approved Honeywell cables are to be used for serial communication between the cradle and external devices. Contact [Technical Assistance](#) for availability.

Connect a female DB9 connector to the male DB9 serial port on the back of the cradle. The connection should be finger tight.

The DB9M cradle connector provides limited RS232 functionality, as the following pinout table shows.

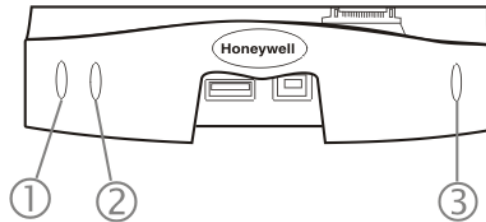


Pin	Signal
Pin 1	Not Connected
Pin 2	RXD
Pin 3	TXD
Pin 4	Not Connected
Pin 5	Ground
Pin 6	Not Connected
Pin 7	RTS
Pin 8	CTS
Pin 9	Not Connected

Note: Pin 9 of this port does not have power capability. The HX3 and HX2 cradle do not support tethered scanners.

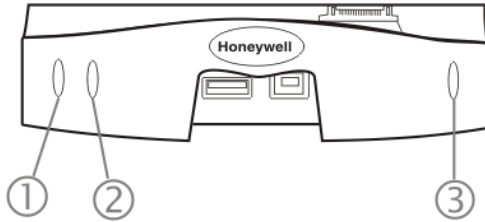
Indicators

The LEDs may flicker between green, amber and red upon the cradle first receiving external power. This is normal. The cradle is performing a self-check and upon completion, the LEDs will return to their normal state (see below).



1	B1 LED – Back left battery charging bay	Normal State – Off. With battery and AC power, normal state may be any state listed in Cradle LEDs.
2	PWR LED - HX3 docked / on / receiving power bay	Normal State – Off. With HX3 in, turned On and AC power, normal state is On.
3	B2 LED – Back right battery charging bay	Normal State – Off. With battery and AC power, normal state may be any state listed in Cradle LEDs.

Cradle LEDs



1. B1 LED
2. PWR LED
3. B2 LED

Cradle PWR LED

When PWR LED is ...	It means
Off	No AC/DC power supplied to the cradle and/or No HX3 in the charging bay and/or HX3 is not properly seated in charging bay and/or if this is the first time the HX3 has been inserted, the HX3 is properly seated and has not been powered On.
Green	HX3 is On, is properly seated in the charging bay and is receiving external power through the cradle.

B1 and B2 LED

When B1 and/or B2 LED is ...		It means
Off	No battery or no AC power	No spare battery in the battery bay(s) or no AC/DC power is being applied to the cradle.
Green	Charged	Spare battery pack fully charged.
Red	Charging	Spare battery pack charging.
Amber	Standby	Spare battery pack temperature out of range.
Flashing Red	Fault	Spare battery pack fault or failure.

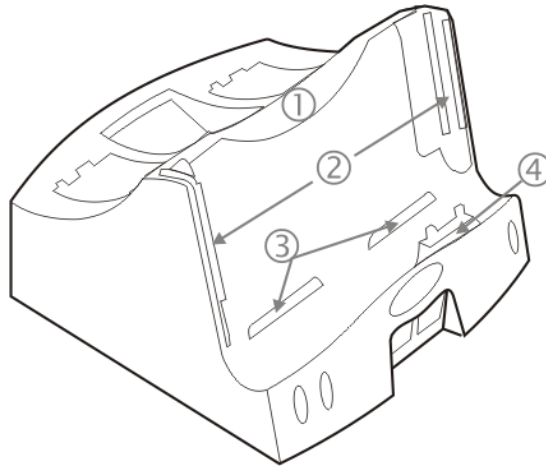
How to Dock or Remove the HX3

The HX2 cradle docking bay can accommodate an HX3 with or without a rubber boot. Remove the hip flip, arm band or voice case if used.

The HX3 is inserted in the cradle with the keypad visible and available for use.

The HX3 can be inserted and removed with one hand, or if preferred, two hands.

Do not "slam" or slide the HX3 sideways into the cradle. Do not rock the HX3 forward out of the cradle. Damage may result.



1. Fingertip Depression
2. Side Rails
3. Bottom Rails
4. Cradle power supply connector for a docked HX3

Insert the HX3 into the cradle

1. Prepare the HX3 for docking by removing it from the armband, hip flip or voice case if necessary. Place the wearable accessories in a clean, safe location.
2. Slide the HX3 armband brackets straight down into the side rails on either side of the docking bay, making sure the Cradle connector on the HX3 and the cradle connector in the docking bay line up.
3. Press the HX3 down firmly until both connectors "click" together.
4. When the HX3 is properly seated in the docking bay, tap the Power button on the HX3. The PWR LED on the cradle illuminates if the HX3 is properly seated in the cradle. If the cradle PWR LED does not illuminate, remove the HX3 from the bay and reinsert.
5. Place the tethered battery, if any, in a battery charging bay. Battery charging commences. The battery does not need to be disconnected from the HX3, if desired.
6. Place the tethered Ring Scanner, if any, in the Ring Scanner bay. The Ring Scanner does not need to be disconnected from the HX3.
7. The docked HX3 is ready to use AC power for communication and backup battery recharging.

Remove the HX3 from the bay

Important: Do not put pressure on the HX3 display when removing the HX3 from the cradle.

1. Hold the HX3 firmly, and brace your thumb on or under the logo (just above the HX3 display). *Hint: Pushing down with your fingertips in the fingertip depression (behind the HX3) at the same time may be helpful.*
2. Pull the HX3 straight up to disconnect the Cradle connector on the HX3 from the cradle connector in the docking bay.
3. If the ring scanner and battery were tethered to the HX3 while it was docked, they remain tethered when the HX3 is removed from the cradle.
4. Connect the HX3 wearable device to the armband, voice case or hip flip, sliding the HX3 battery into the battery sleeve.

Note: The <1mm hole in the Tethered Ring Scanner storage bay is used to guide the fastener (screw) when attaching the HX2 desktop cradle to a flat, stable surface (fasteners, screwdrivers, etc., not supplied by Honeywell).

Docked HX3 Mode States

When the HX3 is not docked in a powered cradle it can be set to enter Suspend Mode using **Start > Settings > Control Panel > Power > Schemes** tab or **Start > Suspend**.

When the HX3 is docked in a powered cradle it can be placed in Suspend Mode using **Start > Suspend** or by tapping the **Power key**.

Switch State to Suspend setting established in **Start > Settings > Control Panel > Power > Schemes** tab is not available until the HX3 is disconnected from the cradle.

Pre-existing User Idle and System Idle function as scheduled when the HX3 is docked in a powered cradle.

IMPORTANT

- Do not put the HX3 into Suspend Mode (using Start > Suspend or by tapping the Power key) while the HX3 is connected to peripheral devices (or ActiveSync) through the connectors on the cradle. The HX3 is unable to maintain the connection during Suspend Mode.
- If the USB connections are interrupted due to a Suspend operation – then when the HX3 resumes, disconnect the cables and then reconnect the cables again to initiate USB and/or ActiveSync connection again.

Ring Scanner Storage

If Ring Scanning is required while the HX3 is receiving power through the cradle, the steps outlined in [Power Cable](#) should be completed first.

The Ring Scanner can be placed in the depression between the battery charging bays while tethered to an HX3 in the Docking bay.

The Ring Scanner depression can also be used to store an untethered ring scanner. The depression does not have a connector.

Note: The HX3 and HX2 cradle do not support tethered scanners.

How to Insert/Remove a HX3 Tethered Battery

Prerequisites:

- The steps outlined in [Power Cable](#) have been completed and the cradle has a dependable power source.
- The HX3 tethered battery has been removed from the battery sleeve or battery bracket.

Note: Do not drop or slam the HX3 battery into the charging pocket. Damage may result.

- A fully depleted Standard battery recharges fully in approximately four hours in a powered cradle charging pocket.
- A fully depleted Extended battery recharges fully in approximately eight hours in a powered cradle charging pocket.

The HX3 tether connector must be at the top of the battery in the charging pocket. The battery will not fit properly into the charging pocket if the tether connector is inserted into the depression of the charging pocket.

Each charging pocket can recharge either battery – standard or extended. The extended battery is noticeably thicker than the standard battery.

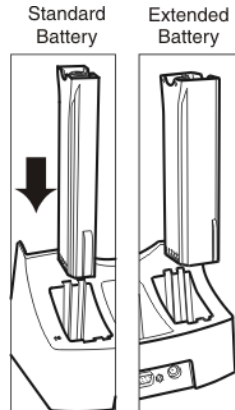
Make sure the battery terminals line up with the charger terminals in the charging pocket.

Insert HX3 Battery into Charging Pocket

Grasp the battery, not the tether, and ensure the battery terminals line up with the charger terminals in the charging pocket. Slide the battery straight down into the charging pocket until the charging terminals meet.

The charging pocket LED illuminates.

See the section titled [Indicators](#) to determine the status of the B1 or B2 charging pocket LED.



Remove HX3 Battery from Charging Pocket

Grasp the battery, not the tether, and pull the battery straight up and out of the charging pocket.

The charging pocket LED (B1 or B2) turns off.

Cradle Help

Battery LED	Solution
Amber – Standby	The cradle can wait up to two hours for the battery pack temperature to return to an acceptable temperature range when the charging process will commence. Battery packs can only be charged when their temperature is between 10°C (50°F) and 40°C (104°F).
Flashing Red – Fault	Battery pack fault or failure. Contact Technical Assistance for help.

Maintenance

Inspect the rubber feet and replace them if missing, broken or cracked. Check the cradle regularly for excessive wear at pressure points. If the cradle is mounted to a stable surface, check surface mounting connections periodically and re-tighten as necessary.

If the cradle becomes cracked or broken at any time, it must be taken out of service and replaced. Contact [Technical Assistance](#) for a replacement cradle.

There are no serviceable parts in the desktop cradle. Do not attempt to open the unit.

Cleaning

Do not use paper towels or harsh-chemical-based cleaning fluids since they may result in damage to the surfaces and/or battery charging terminals (pins).

Use a clean soft cloth to wipe any dirt, moisture or grease from the HX3, spare battery packs, charging contacts (pins) or the cradle.

Do not use any liquid to clean the battery pack, HX3, cradle, or charging pockets. Spray or dampen the cleaning cloth with liquids/sprays. If possible, clean only those areas which are soiled.

Lint/particulates can be removed from the connectors, charging terminals and charging/docking pockets with clean, filtered canned air.

Technical Specifications – Desktop Cradle

Note: Do not store HX3 batteries above 140°F (60°C) for extended periods.

Weight	1.5 lb / 560 grams (without power supply)
Dimensions	H 3.4 in x W 5.5 in x L 5.75 in H 8.6 cm x W 14 cm x L 14.6 cm
Temperature	
Operating	32° F to 104° F / 0° C to 40° C (charger On, no charging in progress)
Charging	50° F to 104° F / 10° C to 40° C (Battery charger is charging and/or HX3 is receiving power through cradle connection)
Storage	-14° F to 158° F / -10° C to 70° C
Humidity	5% to 95% (non-condensing) at 77° F / 25° C
IEC 60529	Ordinary Equipment IPX0
Ports	1 Power, 2 USB ports, 1 9-pin RS232 port



Chapter 3: Technical Assistance

If you need assistance installing or troubleshooting your device, please contact us by using one of the methods below:

Knowledge Base: www.hsmknowledgebase.com

Our Knowledge Base provides thousands of immediate solutions. If the Knowledge Base cannot help, our Technical Support Portal (see below) provides an easy way to report your problem or ask your question.

Technical Support Portal: www.hsmsupportportal.com

The Technical Support Portal not only allows you to report your problem, but it also provides immediate solutions to your technical issues by searching our Knowledge Base. With the Portal, you can submit and track your questions online and send and receive attachments.

Web form: www.hsmcontactsupport.com

You can contact our technical support team directly by filling out our online support form. Enter your contact details and the description of the question/problem.

Telephone: www.honeywellaidc.com/locations

For our latest contact information, please check our website at the link above.

Product Service and Repair

Honeywell International Inc. provides service for all of its products through service centers throughout the world. To obtain warranty or non-warranty service, please visit www.honeywellaidc.com and select **Support > Contact Service and Repair** to see your region's instructions on how to obtain a Return Material Authorization number (RMA #). You should do this prior to returning the product.

Limited Warranty

Honeywell International Inc. ("HII") warrants its products to be free from defects in materials and workmanship and to conform to HII's published specifications applicable to the products purchased at the time of shipment. This warranty does not cover any HII product which is (i) improperly installed or used; (ii) damaged by accident or negligence, including failure to follow the proper maintenance, service, and cleaning schedule; or (iii) damaged as a result of (A) modification or alteration by the purchaser or other party, (B) excessive voltage or current supplied to or drawn from the interface connections, (C) static electricity or electro-static discharge, (D) operation under conditions beyond the specified operating parameters, or (E) repair or service of the product by anyone other than HII or its authorized representatives.

This warranty shall extend from the time of shipment for the duration published by HII for the product at the time of purchase ("Warranty Period"). Any defective product must be returned (at purchaser's expense) during the Warranty Period to HII factory or authorized service center for inspection. No product will be accepted by HII without a Return Materials Authorization, which may be obtained by contacting HII. In the event that the product is returned to HII or its authorized service center within the Warranty Period and HII determines to its satisfaction that the product is defective due to defects in materials or workmanship, HII, at its sole option, will either repair or replace the product without charge, except for return shipping to HII.

EXCEPT AS MAY BE OTHERWISE PROVIDED BY APPLICABLE LAW, THE FOREGOING WARRANTY IS IN LIEU OF ALL OTHER COVENANTS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, ORAL OR WRITTEN, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT.

HII'S RESPONSIBILITY AND PURCHASER'S EXCLUSIVE REMEDY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT OF THE DEFECTIVE PRODUCT WITH NEW OR REFURBISHED PARTS. IN NO EVENT

SHALL HII BE LIABLE FOR INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, AND, IN NO EVENT, SHALL ANY LIABILITY OF HII ARISING IN CONNECTION WITH ANY PRODUCT SOLD HEREUNDER (WHETHER SUCH LIABILITY ARISES FROM A CLAIM BASED ON CONTRACT, WARRANTY, TORT, OR OTHERWISE) EXCEED THE ACTUAL AMOUNT PAID TO HII FOR THE PRODUCT. THESE LIMITATIONS ON LIABILITY SHALL REMAIN IN FULL FORCE AND EFFECT EVEN WHEN HII MAY HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH INJURIES, LOSSES, OR DAMAGES. SOME STATES, PROVINCES, OR COUNTRIES DO NOT ALLOW THE EXCLUSION OR LIMITATIONS OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

All provisions of this Limited Warranty are separate and severable, which means that if any provision is held invalid and unenforceable, such determination shall not affect the validity of enforceability of the other provisions hereof. Use of any peripherals not provided by the manufacturer may result in damage not covered by this warranty. This includes but is not limited to: cables, power supplies, cradles, and docking stations. HII extends these warranties only to the first end-users of the products. These warranties are non-transferable.

The duration of the limited warranty for the HX3 is 1 year.

The duration of the limited warranty for the HX3 Desktop Cradle is 1 year.

The duration of the limited warranty for the HX3 Battery Charger is 1 year.

The duration of the limited warranty for the HX3 2000mAh Li-Ion and 4000mAh Li-Ion Battery is 6 months.

The duration of the limited warranty for the HX3 Ring Scanner and Ring Imager is 1 year.

The duration of the limited warranty for the HX3 AC power supply and cables is 1 year.

The duration of the limited warranty for the HX3 cables (USB, Serial, Communication, Power) is 1 year.

The duration of the limited warranty for the HX3 fabric accessories (e.g., belt, case, straps) is 90 days.



Honeywell Scanning & Mobility
9680 Old Bailes Road
Fort Mill, SC 29707
www.honeywellaidc.com

E-EQ-HX30GWW
Rev E
10/12