

Dolphin™ 99EX/99GX

with Windows® Embedded Handheld 6.5

Quick Start Guide

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This documentation is relevant for the following Dolphin models: 99EXL0, 99EXLW, 99EXLG, 99GXL0, 99GXLG, 99EXBF and 99EXLF.

Out of the Box

Verify that the carton contains the following items:

- Dolphin mobile computer (the terminal)
- Main battery pack
- Product documentation

Note: If you ordered accessories for your terminals, verify that they are also included with the order.

Be sure to keep the original packaging in the event that the Dolphin terminal should need to be returned for service.

99EX/99GX Models

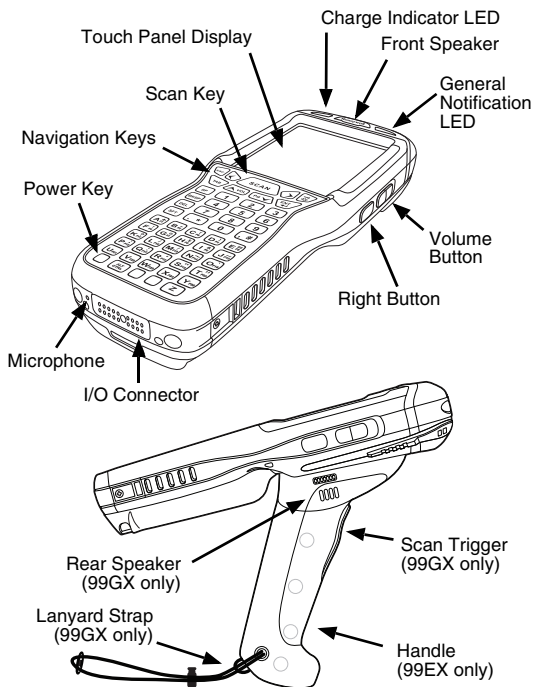
Dolphin 99EX and 99GX model terminals are designed for use with standard battery pack model 99EX-BTSC (Li-poly 3.7V, 11.3 watt hour) and extended battery pack 99EX-BTEC (Li-ion 3.7V, 18.5 watt hour) manufactured for Honeywell International Inc.



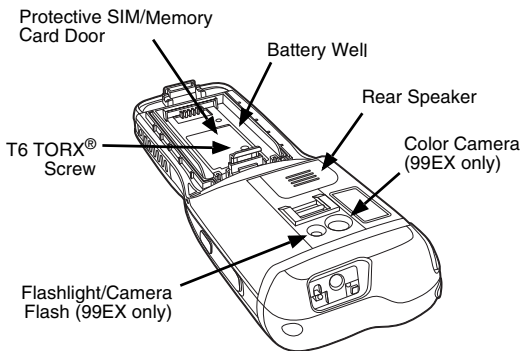
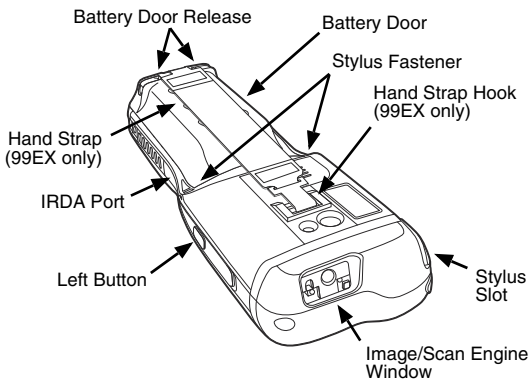
Dolphin 99EX and 99GX model terminals are not designed for use in hazardous locations.

Front and Side Panel


Note: Your Dolphin model may differ from the models illustrated; however, the features are standard for all 99EX/99GX models unless otherwise noted.



Back Panel



Available Keyboards

Note: The flashlight function () is disabled on all 99GX models.

34-Key Alpha/Numeric Keyboard



34-Key Numeric (Calculator) Keyboard



43-Key Alpha/Numeric Keyboard



55-Key Full Alpha/Numeric Keyboard



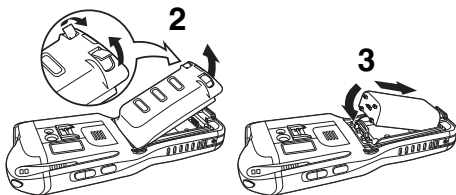
Install the Main Battery Pack

The 99EX/99GX is shipped with the battery packaged separate from the terminal. Follow the steps below to install the main battery. For information on how to remove the battery, [see page 6](#).



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

1. Release the hook securing the hand strap to the back panel of the terminal (99EX only).
2. Remove the battery door by lifting up the latches near the base of the battery door.
3. Insert the battery into the battery well.



4. Replace the battery door. Apply pressure to engage the door latch. The battery door must be installed prior to powering the unit.
5. Reattach the hand strap (99EX only).
6. Connect the terminal to one of the 99EX series charging peripherals to charge the main battery pack.




We recommend use of Honeywell Li-poly or Li-ion battery packs. Use of any non-Honeywell battery may result in damage not covered by the warranty.

Removing the Main Battery Pack

When removing a battery from the terminal, put the device in [Suspend Mode](#) (see page 9) before removing the battery door. Once the battery door is removed, **wait at least 3 seconds** before removing the main battery. This process allows the device to shut down properly and to maintain memory during the battery swap.

Battery Error Notification

If your terminal displays the following indicators, replace the battery with a new Honeywell battery pack.

-  appears in the Title bar at the top of the touch panel display.
- The General Notification LED flashes red.
- A notification appears on the Tile bar at the bottom of the touch panel display.

Battery Pack Use and Disposal

The following are general guidelines for the safe use and disposal of batteries:

- Do not disassemble or open, crush, bend or deform, puncture or shred.
- Do not modify or remanufacture, attempt to insert foreign objects into the battery, immerse or expose to water or other liquids, expose to fire, explosion or other hazard.
- Improper battery use may result in a fire, explosion or other hazard.
- We recommend use of Honeywell Li-ion or Li-poly battery packs. Use of any non-Honeywell battery may pose a personal hazard to the user.
- Only use the battery for the system for which it is specified. Do not use a battery in any other manner


outside its intended use in Dolphin terminals and peripherals.



- Only use the battery with a charging system that has been qualified with the system per standard IEEE-Std-1725-2006. Use of an unqualified battery or charger may present a risk of fire, explosion, leakage, or other hazard.
- Replace the battery only with another battery that has been qualified with the system per this standard, IEEE-Std-1725-2006. Use of an unqualified battery may present a risk of fire, explosion, leakage or other hazard.
- Replace defective batteries immediately; using a defective battery could damage the Dolphin terminal.
- Never throw a used battery in the trash. Promptly dispose of used batteries in accordance with local regulations.
- Do not short-circuit a battery or throw it into a fire; it can explode and cause severe personal injury. Do not allow metallic conductive objects to contact battery terminals.
- If you observe that the Honeywell battery supplied is physically damaged, please send it to Honeywell International Inc. or an authorized service center for inspection. Refer to [Support](#) on page 24.
- Avoid dropping the terminal or battery. If the terminal or battery is dropped, especially on a hard surface, and the user suspects damage, send it to a Honeywell International Inc. or an authorized service center for inspection. Refer to [Support](#) on page 24.
- If you are not sure the battery or charger is working properly, send it to Honeywell International Inc. or an authorized service center for inspection.
- Excessive discharge can degrade battery performance. Recharge the battery when your terminal indicates low battery power.

- Although your battery can be recharged many times, the battery life is limited. Replace it after the battery is unable to hold an adequate charge.

Suspend Mode

The terminal goes into Suspend Mode automatically when the terminal is inactive for a programmed period of time. You can program this time on the Advance tab of the Power System Setting. For additional information, refer to the *Dolphin 99EX/99GX User's Guide* located on the Web at www.honeywellaidc.com.

To put the terminal into Suspend Mode manually, press the Power key , and the screen goes blank.

To wake the terminal from Suspend Mode, press the Power key  or SCAN key .

Note: You should always put the terminal in Suspend Mode before removing the battery door. For information on how to remove the battery see page 6.

Charging the Dolphin

Dolphin 99EX and 99GX model terminals are designed for use with the following 99EX charging devices and cables: 99EX-HB, 99EX-EHB, 99EX-MB, 99EX-NB, 99EX-CB, 99EX-DEX, 99EX-RS232, 99EX-USB, 99EX-MC, and 99EX-USBH.



Warning! Dolphin charging peripherals are not designed for use in hazardous locations.

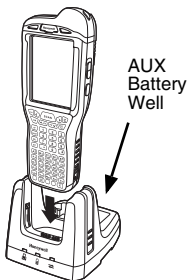


Ensure all components are dry prior to mating terminals/batteries with peripheral devices. Mating wet components may cause damage not covered by the warranty.

Connect the terminal to one of the 99EX series charging peripherals to charge the main battery.

The charging time for the main battery pack is 4 hours for the standard battery or 6 hours for the extended battery.

Honeywell recommends charging the Dolphin terminal for at least 24 hours prior to initial use to ensure the internal backup battery is fully charged.



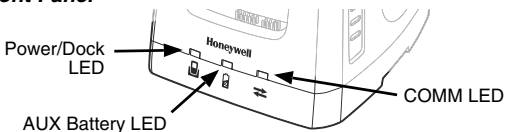
HomeBase (Model 99EX-HB)

The 99EX-HB charger is designed for use with standard battery pack model 99EX-BTSC (Li-poly 3.7V, 11.3 watt hour) and extended battery pack model 99EX-BTEC (Li-ion 3.7V, 18.5 watt hour) manufactured for Honeywell International Inc. and with Dolphin 99EX or 99GX model terminals. Use only UL Listed power supply, which has been qualified by Honeywell with output rated at 12VDC, and 3 amps with the device.

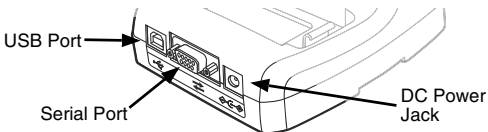


Warning! The HomeBase is not designed for use in hazardous locations.

Front Panel



Back Panel



HomeBase LED Indicators



Red The HomeBase has power but no terminal is docked.

Green The HomeBase has power and the terminal is properly seated in the base.



Orange The auxiliary battery is charging.

Green The auxiliary battery has completed charging and is ready for use.

Red Flashing The internal temperature of the auxiliary battery is too hot or there is a battery error. Charge the auxiliary battery in a cooler environment or replace the battery with a new Honeywell Li-ion or Li-poly battery.



Serial Port Communication

Red Serial data is being sent from the host device to the base.

Green Serial data is being sent from the base to the host device.

Orange Serial data is being sent in both directions at the same time.



USB Port Communication

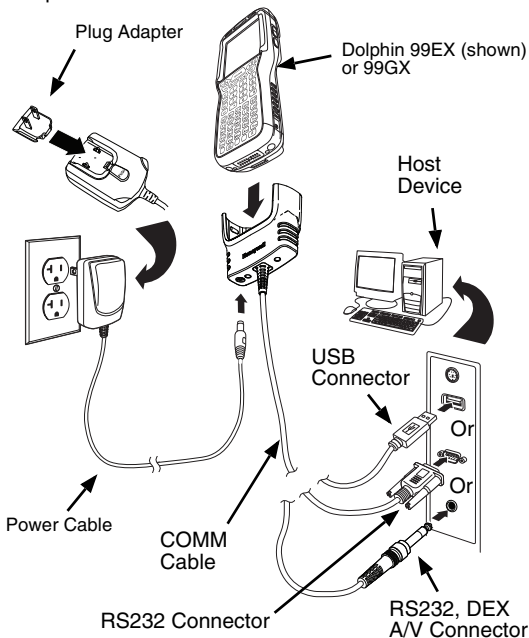
Green A USB connection is established with the host workstation.

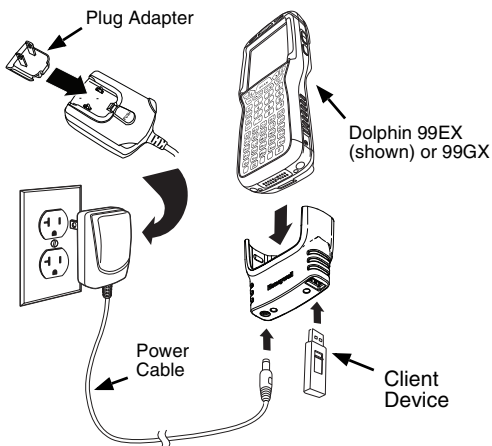
Charging/Communication Cables



Warning! The Charging/Communication Cables are not designed for use in hazardous locations.

Use only UL Listed power supply, which has been qualified by Honeywell with output rated at 5VDC and 3 amps with the device.





LED Indicators








There are two light emitting diodes (LEDs) located to the left and right of the Honeywell logo above the LCD display.

The General Notification LED (right) flashes and illuminates during resets, scanning/imaging and taking a picture. This LED can be programmed by various software applications.

The Charge Indicator LED (left) illuminates when the Power Tools **BattMon** application is enabled and the device is on AC charge. For more information, please consult the *Dolphin Power Tools User's Guide for Windows Embedded Handheld 6.5*.

Battery Status Indicator

The Dolphin's battery status is indicated at the top of the touch screen in the Title Bar.

-  The battery is charging. The terminal is using an external power source.
-  The battery has a full charge.
-  The battery has a high charge.
-  The battery has a medium charge.
-  The battery has a low charge.
-  The battery has a very low charge. Charge the battery.
-  A battery error has occurred. Replace the main battery pack with a new Honeywell Li-poly or Li-ion battery pack.

Communication

To synchronize data (e.g., e-mail, contacts, and calendar) between the terminal and the host workstation (PC):

1. ActiveSync® (version 4.5 or higher) or Windows® Mobile Device Center (WDMC) must be installed on your PC. You can download the most current version of ActiveSync or WDMC from the [Microsoft Web site](http://go.microsoft.com/fwlink/?LinkId=147001) (<http://go.microsoft.com/fwlink/?LinkId=147001>).

Note: Dolphin terminals ship with ActiveSync already installed. ActiveSync on your Dolphin terminal works with WDMC on PCs running Windows Vista or Windows 7 and with ActiveSync on PCs running Windows XP.

2. The Dolphin terminal and PC must be configured for the same communication type.
3. Connect the terminal to the PC (using a Dolphin peripheral) to initiate communication.

For additional information on ActiveSync or Windows Mobile Device Center visit www.microsoft.com.




We recommend use of Honeywell peripherals, power cables, and power adapters. Use of any non-Honeywell peripherals, cables, or power adapters may cause damage not covered by the warranty.

Software Upgrades

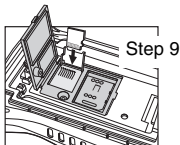
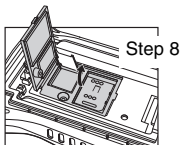
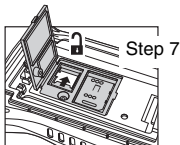
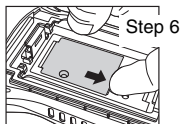
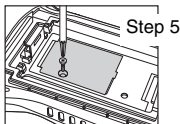
Contact a Honeywell technical support representative for information on available software upgrades for your Dolphin terminal. See [Support](#) on page 24.

Installing a Memory Card

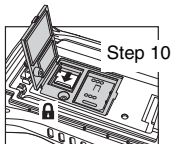
Note: Format all microSD/SDHC cards before initial use.

1. Press the Power key  to put the terminal in Suspend Mode.
2. Release the hand strap hook near the speaker on the back panel of the terminal (99EX models only).
3. Remove the battery door.
4. **Wait at least 3 seconds**, then remove the battery.
5. Remove the T6 TORX screw securing the protective door closed.
6. Lift up the lower left corner of the door to access the memory socket.
7. Unlock the access door to the socket by sliding the door toward the IrDA port side of the terminal.
8. Lift the door to expose the socket.
9. Slide the microSD or microSDHC card into the door of the socket.


Note: Make sure the interface on the memory card is connected to the interface in the socket; align the notch on the card with the notch of the socket.

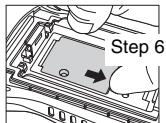
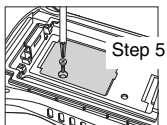


10. Close and lock the access door.
11. Close the protective door over the memory socket. Insert and tighten the T6 TORX screw to secure the door closed.
12. Install the battery and the battery door. Reattach the hand strap to the terminal (99EX models only).
13. Press the Power key or the SCAN key to wake the terminal.



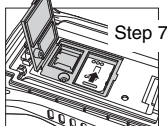
Installing a SIM Card

1. Press the Power key  to put the terminal in Suspend Mode.
2. Release the hand strap hook near the speaker on the back panel of the terminal (99EX models only).
3. Remove the battery door.
4. **Wait at least 3 seconds**, then remove the battery.
5. Remove the T6 TORX screw securing the protective door closed.
6. Lift up the lower left corner of the door to access the SIM card socket.



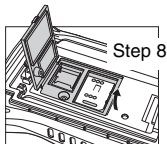
7. Unlock the access door to the socket by sliding the door toward the IrDA port side of the terminal.

Note: Do not insert sharp objects into the SIM door slot. Inserting sharp objects may damage sensitive electronic components.



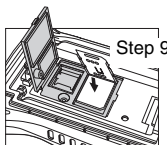
8. Lift the door to expose the socket.
9. Insert the SIM card into the socket.

Note: Make sure the interface on the card is connected to the SIM Card interface in the socket; align the beveled corner of the card with the beveled corner of the socket.



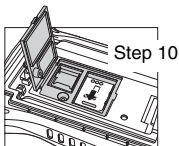
10. Close and lock the access door.

11. Close the protective door over the memory socket. Insert and tighten the T6 TORX screw to secure the door closed.






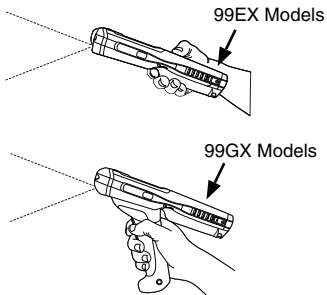
12. Install the battery and the battery door. Reattach the hand strap to the terminal (99EX models only).

13. Press the Power key or the SCAN key to wake the terminal.



Using the Scan Image Engine

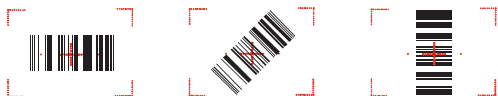
1. Tap  > **Demos**  > **Scan Demo** 
2. Point the Dolphin's terminal at the bar code.



3. Project the aiming beam or pattern by pressing and holding one of the following:
 - the trigger (99GX models only),
 - the SCAN key (all models) or
 - one of the terminal's side buttons (all models).
4. The red LED lights.
5. Center the aiming beam over the bar code; see [Aiming Options](#) on page 21.
6. When the bar code is successfully decoded, the LED changes to green and the terminal beeps.
7. The bar code information is entered into the application in use.

Aiming Options

N5603 Red High-Vis Aiming Pattern



N5600 Green Aiming Beam

Linear Bar Code






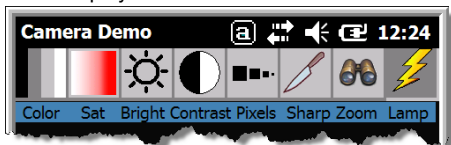
2D Matrix Symbol




Using the Color Camera

Note: The following feature is not supported in 99GX models.

1. Tap  > **Demos**  > **Camera Demo** .
2. Adjust the camera settings using the menu at the top of the display screen.




3. Point the terminal's camera lens at the object you want to capture. The camera lens is located on the back panel of the terminal.
4. Center the object in the touch screen display.
5. Press the ENT key . The terminal's red LED illuminates during picture capture.

Camera Lens

Camera Flash





Note: Tap the green arrow  to review or edit your pictures.

Tap the green box  to exit the picture review/edit screen.



Soft Reset (Warm Boot)

A soft reset re-boots the device and preserves any objects created in RAM.

1. Press and hold the CTRL  + ENTER  keys for approximately 5 seconds.
2. The decode and scan LEDs flash for approximately three seconds as the terminal resets.
3. When the reset is complete, the Today screen displays.

Hard Reset (Cold Boot)

A hard reset re-boots the device and closes any open applications running in RAM at the time of the reset.

1. Press and hold the CTRL  + ESC  keys for approximately 5 seconds.
2. The decode and scan LEDs light for approximately 3 seconds.
3. The terminal re-initializes.

Factory Reset

For information on how to perform a Factory Reset (Clean Boot), see the user's guide.

Support

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

User Documentation

For the user guide and other documentation, go to www.honeywellaidc.com.

Limited Warranty

For warranty information, go to www.honeywellaidc.com and click **Resources > Warranty**.

Patents

For patent information, see www.hsmpats.com.

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