



CH4000

**IKON™ RUGGED PDA
DESKTOP DOCKING STATION**

QUICK REFERENCE GUIDE

September 27, 2011
PN 8000160.C

ISO 9001 Certified
Quality Management System

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Europe

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This equipment complies with the essential requirements of EMC Directive 2004/108/EC and Low Voltage Directive 72/23/EEC.

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If your end-of-life Psion product, battery or accessory carries a label as shown here, please contact your local country representative for details on how to arrange recycling. For a list of international subsidiaries, please go to:

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Note: Not all accessories or peripherals will have a RoHS logo due to physical space limitations or as a result of their exempt status.

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Direct Dial: +1 905 813 9900 Ext. 1999 Option 3.

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Product Repairs

For repair service in North America:

Call Toll free:+1 800 387 8898 Option 2, *or*

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For repair service outside of North America, please contact your local office listed in the following document:

http://www.pSION.com/documents/com/quickReferenceGuides/Help_Desk_Contact_Numbers_A4.pdf

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Table of Contents

1. Important Safety Summary.....	3
2. CH4000 Features.....	5
2.1 Operator Controls.....	6
2.2 Indicators.....	6
3. Operation.....	7
3.1 Charging the Ikôn Battery.....	7
3.2 Charging the Spare Battery.....	7
3.3 Operating the USB Dock.....	8
3.3.1 Linking an Ikôn to a PC.....	9
4. Cleaning the CH4000.....	9
5. Troubleshooting.....	10
5.1 Docking station does not seem to power on.	10
5.2 Ikôn charge indicator LED stays off.....	10
5.3 Ikôn charge indicator LED is fast flashing green. ...	10
5.4 Spare battery LED fast flashes green with a battery installed.	11
5.5 Spare battery LED does not turn on when a battery is installed.	11

1. Important Safety Summary

READ AND SAVE THESE INSTRUCTIONS—Before using the CH4000 Desktop Docking Station read these instructions and the markings on the housing; they contain important safety information for the CH4000 and the AC Wall Adaptor.

- Use the AC adaptor, batteries and other attachments recommended or sold by Psion.
- The mains power cord (sold separately) shall comply with the national safety regulations of the country where the equipment is to be used.
- The Docking Station cannot be used with non-Ikon PDAs. Although they may share the same battery terminating connector, they are designed with different application in mind.
- Do not operate the AC adaptor with a damaged cord or plug. Replace immediately.
- Do not disassemble the AC adaptor; it should be repaired by qualified service personnel. Incorrect reassembly may result in electric shock or fire.
- To reduce risk of damage to the electric plug and cord when unplugging the Dock, pull the plug rather than the cord.
- Make sure the cord is positioned so that it is not stepped on, tripped over, or otherwise subjected to damage or stress.
- Do not operate the CH4000 or the AC adaptor if it has received a sharp blow, been dropped or otherwise damaged in any way; it should be inspected by qualified service personnel.

- To reduce the risk of electric shock, unplug the AC adaptor from the outlet before attempting any maintenance or cleaning.
- An extension cord should not be used unless absolutely necessary. Use of an improper extension cord could result in fire or electric shock. If an extension cord must be used, make sure:
 - The plug pins on the extension cord are the same number, size, and shape as those on the adaptor.
 - The extension cord is properly wired and in good electrical condition and that the wire size is larger than 18 AWG.
- Do not expose the AC adaptor to rain or snow. However, the CH4000 is designed to accept a wet Ikon Rugged PDA without harmful effect.
- The CH4000 storage temperature is -30°C to +60°C (-22°F to 140°F). Operating temperature 0°C to 40°C (32°F to 104°F) and humidity is 5-95%.
- Do not place batteries in the charger if they are cold—temperature below 0°C (32°F). Allow them to warm up to room temperature at least 30 minutes.
- Do not use the CH4000 if after an overnight charge, the battery feels warmer than the charger housing. The CH4000 should be inspected by qualified service personnel.
- Do not use the CH4000 if the battery, while charging, becomes more than lukewarm.

Figure 1.1 CH4000 AC Adaptor



2. CH4000 Features

Important: To preserve battery integrity, the desktop docking station will proceed with a charge only when the battery temperature falls between 0°C and 40°C (32°F to 104°F).

The CH4000 Desktop Docking Station (Figure 2.1 on page 6) is a desktop model designed to:

- Fast charge the internal battery.
- Fast charge the spare battery pack (see Figure 2.1 on page 6).
- Supply Type A and Type B USB connectivity to the Ikôn (see Figure 3.1 on page 8).

The desktop docking station provides sufficient power to concurrently support all the above functions.

The CH4000 uses careful charge algorithms designed to maximize battery life while ensuring the shortest possible charge time. The charger supports proprietary Psion Smart Batteries and handles a range of voltages and charge algorithms. See your Ikôn Rugged PDA User Manual for more

information regarding battery capacity, charge times and battery life. See “Charging the Spare Battery” on page 7 for spare battery charge information.

Figure 2.1 Desktop Docking Station Front View



2.1 Operator Controls

The CH4000 has one operator control—the USB door on the rear, which switches from Type A to Type B (see “Operating the USB Dock” on page 8).

2.2 Indicators

The front-mounted LED indicates the spare battery charge status.

3. Operation

3.1 Charging the Ikôn Battery

The CH4000 supplies DC power to enable the Ikôn internal fast charger. Normally, it takes 2.5 to 3.0 hours to charge the Ikôn 5000 mAh battery.

When installed in the dock, the Ikôn battery charge LED will illuminate to indicate the unit has external power and can charge the internal battery. The Ikôn charge indication follows the same convention as the charger's spare battery indicator (see Figure 2.1 on page 6).

Note: Battery charging continues whether the Ikôn is switched on or off.

3.2 Charging the Spare Battery

Important: Do not store spare batteries in a charger for more than 72 hours. Doing so may damage the battery or reduce its charge capacity.

- Install the battery in the rear slot of the CH4000 with the connector facing to the right. Slide the battery in and down to mate the connector.
- The CH4000 spare battery LED lights up immediately. During charge the LED will be flashing green.
- When the battery capacity reaches 95%, the LED turns solid green.
- The charge stops when the battery is fully charged and the LED remains green.

A full charge will take 2.5 to 3.0 hours for a 5000 mAh battery.

3.3 Operating the USB Dock

The CH4000 Desktop Docking Station offers a rear-mounted host or device USB connection to the Ikon. The Ikon supports communication with low- and full-speed USB 1.1 compliant devices and hosts through the docking station.

The Type B receptacle may be used for ActiveSync® among other applications typical for a Type B device (see Figure 3.1).

Move the sliding door selector to alternate between the Type A and Type B USB ports.

Figure 3.1 Desktop Docking Station Rear View



3.3.1 Linking an Ikôn to a PC

The desktop docking station can be connected to a PC so that you can exchange files in the same way that you would between PC drives. A USB cable is included with your docking station.

Note: For information about data transfer with the Windows XP operating system and ActiveSync, and with the Vista operating system, refer to your Ikôn user manual.

To link the Ikôn to a PC:

- Insert the Ikôn in the desktop docking station.
- Insert the USB cable into the docking station Type B USB connector. Attach the other end of the cable to a USB port on the PC.

4. Cleaning the CH4000

Important: Do not immerse the unit in water. Dampen a soft cloth with mild detergent to wipe the unit clean.

- Use only mild detergent or soapy water on a slightly damp cloth to clean the CH4000. Avoid abrasive cleaners, solvents or strong chemicals for cleaning. The plastic case is susceptible to harsh chemicals. The plastic is partially soluble in oils, mineral spirits and gasoline. The plastic slowly decomposes in strong alkaline solutions.
- To clean ink marks from the label, use isopropyl alcohol.

5. Troubleshooting

5.1 Docking station does not seem to power on.

- When first connected to the DC power supply, the spare charger LED should turn ON and remain on for 3 seconds.
- If not, the charger is defective and requires service.

5.2 Ikôn charge indicator LED stays off.

When an Ikôn is docked into a powered CH4000 and its charge indicator LED stays off, there could be a problem with the Ikôn or with the docking station. Use an Ikôn with a properly functioning charge indicator to isolate the problem.

5.3 Ikôn charge indicator LED is fast flashing green.

If the Ikôn charge indicator fast flashes green when the Ikôn is docked:

- Remove the Ikôn and disconnect the adaptor DC power cable.
- Wait at least 20 seconds, and then plug the cable in again.
- If the Ikôn indicator still shows a fault, the Ikôn requires service.

5.4 Spare battery LED fast flashes green with a battery installed.

- Try inserting a battery that is known to be working with another charger.
- If the charge slot LED continues to fast flash green with the known working battery, the charger is defective and requires service.
- Your Psion battery and desktop docking station are carefully designed for safety and capacity performance in accordance with IEEE 1725. If the battery or charger are not Psion approved products, or the safety mechanism is faulty, the spare charge slot LED or Ikon LED will rapidly flash green.

5.5 Spare battery LED does not turn on when a battery is installed.

- Inspect the charge slot contacts for damage (are they bent, flattened, twisted or broken?).
- Reinstall the battery and check that it is fully seated in the slot.
- Try inserting a battery that you know to be working into the charger slot.
- Disconnect and reconnect the DC adaptor, and check that the spare battery LED indicator flashes at power-up.
- If the charge slot fails to charge the known working battery, it is defective and requires service.

