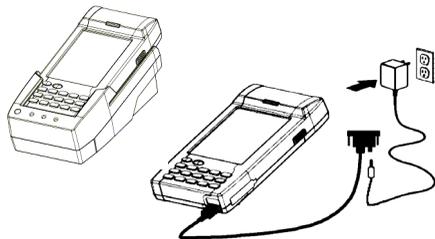


Power system 12

Charging the Lithium-Ion Battery Pack

The optional Falcon 4210 Docking Station is a convenient accessory for daily use of the 4210. The docking station has a built-in circuit that can fully charge the Lithium-Ion battery pack, while installed in the unit, in about 3 hours. Or, when using the optional Charging/RS232 Cable the charging time of the battery pack is also about 3 hours.



Note: Backing-up data by Lithium battery only without the main battery installed in battery compartment may take as long as 2 hours. Therefore, in order to prevent data protection failure due to backup battery failure, do not leave the 4210 without the rechargeable battery pack installed, or without connection to AC power for an extended period of time (2.5 hours maximum).

If batteries are low, recharge them before attempting to back-up data.

Radio Card Installation 14

- Power off the 4210
- Remove the stylus, remove the screw, and then open the PCMCIA compartment.
- Attach the snap-on antenna to the RF card (Orinoco card).
- Attach pulling-tag to the RF card.
- Insert the RF card into the PCMCIA slot.
- Install RF card cushion to inside the upper edge of the PCMCIA cover.



Troubleshooting

If the screen is blank or the unit fails to turn on, charge the battery for 14 hours. If the battery is fully charged and the unit still fails to turn on, reboot the device by inserting a pin in the reset hole.



Radio

Canadian Compliance Statement

This Class B Digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations. Cet appareil numérique de la classe B respecte les exigences du Règlement sur le matériel brouilleur du Canada. The device is certified to the requirements of RSS-139-1 for 2.4 GHz spread spectrum devices. This product is used in an occupational setting/professional use (not consumer goods). The Falcon 4210 does not have a belt-loop, pocket clip or other means to be body-worn while the potential exists for a card to be in transmit mode.

Europe

Declaration of Conformity with Regard to the R&TTE 1999/5/EC and EMC 89/336/EEC directives.

Power Status Indication 13

Four different icons are displayed on the status bar to indicate the on-board power status.

“Plug” icon: When displayed, this icon indicates that the battery is charging. The 4210 is either plugged-in via the DC 9V/2A power adapter or in the docking station.



Plug with power adapter

“Battery Low” icon: When displayed indicates the battery is low and needs to be charged. In other words, there is no external power supply, the battery charge is low or very low, and charging the 4210 is recommended.



Battery Low

“Battery Very Low” icon: When displayed indicates the battery is very low. Stopping the operation and charging the 4210 immediately is highly recommended.



Battery Very Low

No icon: Means there is no external power supply to the 4210 but its battery power status is good.



“Backup Battery Low” icon: When displayed indicates the backup battery is low and needs to be charged.



Backup Battery Low

“Backup Battery Very Low” icon: When displayed indicates the backup battery is very low. Stopping the operation and charging the 4210 immediately is highly recommended.



Backup Battery Very Low

Laser 15

The Falcon 4210 is certified in the U.S. to conform to the requirements of DHHS/CDRH 21CFR Subchapter J and to the requirements of IEC 825-1. Class II and Class 2 products are not considered to be hazardous. The 4210 contains internally a Visible Laser Diode (VLD) whose emissions do not exceed the maximum limits as set forth in above regulations. The scanner is designed so that there is no human access to harmful laser light during normal operation, user maintenance or during prescribed service operations.

CAUTION - Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous laser light. Use of optical instruments with the scanner will increase eye hazard. Optical instruments include binoculars, microscopes, and magnifying glasses. This does not include eye glasses worn by the user.

The laser safety warning label required by the DHHS/IEC for the 4210's optional laser scanner module is located on the memory compartment cover, on the back of the unit.

FCC Statement

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the Federal Communications Commission (FCC) rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with this instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case users will be required to correct the interference at their own expense.



R 4 4 - 2 3 2 0



Falcon® 4210

Quick Reference Guide

Introduction 1

The Falcon 4210 series is a rugged, compact and lightweight palm-size computer. It utilizes the Windows CE® operating system, and incorporates an integral barcode-scanning laser device, an MSR reader, an IrDA interface and wireless communication capability. It provides the user with a standard Windows-based environment for customizing and operating the device. The 4210 is well suited for warehouse management, transportation, distribution, retail logistics, asset tracking, and many other data collection applications.



Falcon 4210



Falcon 4210MSR

Falcon 4210 & Accessories 2

After opening the box, please make sure the following accessories for the 4210 are present:



4210 Main Body with Stylus



Rubber Feet



Pulling-tags



4210CD



4210 Quick Reference Guide



RF Card Cushion

Additional accessories are shipped separately.

- Unpack the box and save the packaging in the event the unit needs to be stored or returned to PSC for service.
- Check the unit for shipping damage. If anything is missing or damaged, notify your PSC sales representative.

Tour of the Falcon 4210 3

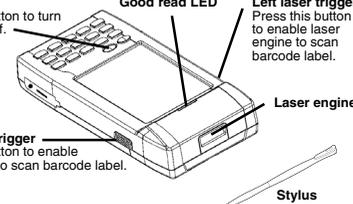
4210 Front and Left Side

ON/OFF key
Press this button to turn 4210 on or off.

Good read LED

Left laser trigger
Press this button to enable laser engine to scan barcode label.

Right laser trigger
Press this button to enable laser engine to scan barcode label.



4210 Back

Stylus slot
Holds the 4210 stylus

Speaker

Reset Hole
Push enclosed button for System Warm-start

Expansion Memory compartment
Install expansion memory here.

PCMCIA compartment
Install PC card here.

Battery compartment
Install Lithium-Ion battery pack here.

RS232/Charging port

IrDA port

First Steps with the Falcon 4210

There are three ways to provide power to the 4210:

- Rechargeable Lithium-Ion battery pack
- RS232/Charging cable
- Docking Station

NOTE: data you enter may not be properly stored until the built-in backup battery has been adequately charged.

Setting up the 4210

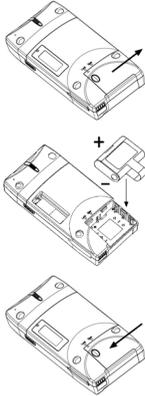
4

Your Falcon 4210 is shipped with a protective film over the display. This film may be left in place to protect the screen from scratches, however, it will slightly reduce the readability and contrast of the image. You may remove the protective film by peeling it off from one corner.

Installing the Battery Pack

CAUTION Improper installation of the rechargeable battery pack can cause the metal clips in the battery compartment to bend or break. Carefully read and follow the procedure below for installing the battery pack.

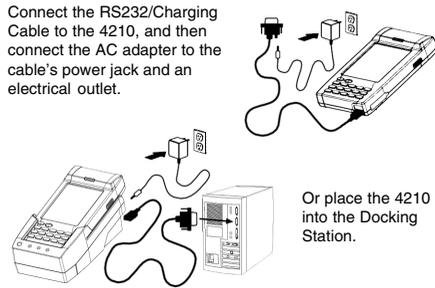
1. Remove the battery compartment door (located on the lower back side of the unit) by pressing the button in the door and sliding the door to the side.
2. Position the battery pack with the label side towards you, and the battery pack strap towards the bottom of the unit. Insert and fully seat the battery pack, making sure the shape of the battery pack fits the shape of the battery compartment.
3. Position the battery pack strap over the battery pack and install the battery compartment door by sliding it over the battery pack from the side of the unit. The door should be pushed firmly into place until a click is heard indicating that the door latch has seated itself correctly. The battery compartment door should be flush with the rest of the unit.



Supplying power to the 4210

5

Connect the RS232/Charging Cable to the 4210, and then connect the AC adapter to the cable's power jack and an electrical outlet.



Or place the 4210 into the Docking Station.

Charging the Main and Backup batteries for the first time

It may take up to 14 hours to fully charge the empty Lithium backup battery. The first time charge should be for at least 14 hours to insure a proper charge (see step 12).

NOTE: Operating the 4210 for the first time without the AC adapter, and without fully charging the Lithium backup battery may result in loss of data stored in RAM memory.

Before using the 4210 for the first time, charge the unit for 14 hours to fully charge the empty Lithium backup battery.



RECYCLE LITHIUM-ION BATTERIES.
DO NOT THROW IN TRASH.



Initial Operation

Note: Be sure that you have fully charged the battery before turning the unit on.

Using the Stylus

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CAUTION! Never use anything other than the 4210's stylus on the screen. Using another object as a stylus could cause permanent damage.

1. Hold the stylus as you would a pencil.
2. To make a choice from a menu, lightly tap the tip of the stylus on that choice.
3. To write data into a field on a form, use the stylus to print the letters or numbers. Use very light pressure.

Pressing the ON/OFF Key

The 4210 is always powered on, and the ON/OFF button suspends or alternatively activates the unit. Suspending the 4210 saves power and allows the unit to resume operation when it left off.

After pressing the ON/OFF button for the first time, the Falcon 4210 welcome screen appears. The Windows CE screen will appear shortly thereafter.



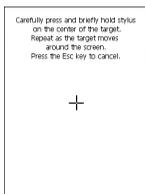
Adjusting Screen Contrast

Press [FUNC]+[TAB] key or [FUNC]+[+] key to decrease or increase screen contrast.

Calibrating the 4210

This screen will automatically appear when the unit is powered-on for the first time or after the system is reset. This screen can also be accessed at any time by pressing the hot key [FUNC] and the [ESC] key.

The 4210 will prompt you to calibrate the unit by tapping a sequence of screen locations. Tap gently but firmly. When you have completed the series of taps, press the [ENT] key to confirm it or press the [ESC] key to cancel it.



Setting Time Zone, Date, and Time

7

After Calibrating the 4210, the "Date/Time Properties" dialog box will appear. Follow the steps below to set the date and time.

Setting the Time Zone first

Setting the correct time zone first is recommended because the system time will be automatically adjusted according to the difference between the original time zone and final time zone that you select.

- Follow the steps below to set it up.
- 1) Tap the location arrow to see a list of cities
 - 2) Choose your location (or nearest listed one)
 - 3) Select the Daylight Savings Time check box, if necessary
 - 4) Tap the APPLY button

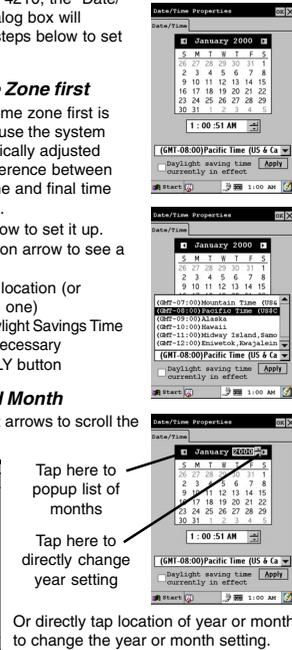
Setting Year and Month

Tap the Left or Right arrows to scroll the month



Tap here to popup list of months

Tap here to directly change year setting



Or directly tap location of year or month to change the year or month setting.

Exiting Date/Time Properties Settings

Tap OK or X (cancel) button at upper-right corner to exit.

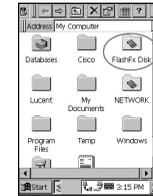
Loading Software

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The operating system environment is loaded into your 4210 at the factory. If you need to load application software, instructions are provided in the 4210 Product Reference Guide.

Flash Memory

Flash Memory is a re-writable location in which to store up to 5.5 MB of programs and data files. The benefit of this feature is that files and programs saved in Flash Memory are unaffected by the 4210's power status.



To access the contents of Flash Memory, simply select "My Computer" on the desktop and then select "FlashFX Disk". The programs and data files currently stored in Flash Memory will be displayed.



To save to Flash Memory, from within a program select File, Save To, and select FlashFX Disk just like you would select any other storage medium.

Software Keyboard

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(Windows CE Keyboard) Since the 4210's keypad allows input of numeric characters only, the Windows CE Software provides a touch screen keyboard for input of other characters. The Windows based keyboard replicates the layout of a standard PC keyboard.

Opening the Windows CE Keyboard:

The Windows CE keyboard can be opened by double tapping the "keyboard" icon on the task bar. (Refer to picture).



Keying-in Characters:

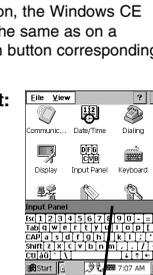
After double tapping the "keyboard" icon, the Windows CE keyboard pops up. Character input is the same as on a standard PC. Simply tap the on-screen button corresponding to the character you want to input.

International Character Support:

Tap the [Alt] button to switch from the standard English keyboard to the European keyboard.

Moving the Keyboard:

Use the stylus to point to the title bar (the bar displaying "Input panel") and then move the stylus without lifting it from the screen.



Closing the Keyboard:

Double tap the keyboard icon to close Windows CE keyboard.

Useful hotkeys

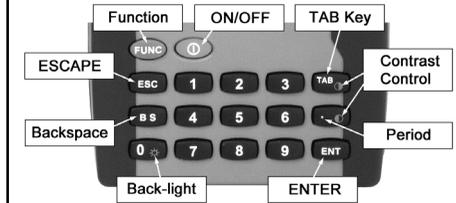
The 4210 provides four combination hot keys to activate specified screen setting functions or programs. These hotkeys are useful for calibrating the touch screen, toggling the backlight, and adjusting screen contrast when the menu-driven operation is disabled or malfunctioning. Below is the list of hotkeys. To use them, press and hold the [FUNC] key in combination with the corresponding second key.

Using the Keypad and Scanner

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Keypad

The 4210 keypad contains 17 keys, including 0-9, ON/OFF, function, escape, backspace, and enter key. Please refer to the picture below.



ON/OFF When the unit is off, pressing the ON/OFF key will turn the unit on.

Alternatively, when the unit is on, this key must be pressed and held down for about two seconds in order to turn the unit off.

[ESC] The Escape key will perform the same function as tapping the CANCEL button or the X button on the touch screen.

[BS] The Backspace key is used to erase previously input characters.

[FUNC] The Function key is used to perform alternative key functions.

[TAB] The Tab key is used to toggle between data fields or to place the cursor at pre-determined places in a programming or word processing application.

[ENT] The Enter key is used to initiate a process or confirm a selection made by the user.

[FUNC] + [ESC] Calibrate the 4210's touch screen (Please refer to Section 1.4.3).

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[FUNC] + [TAB] Decrease screen contrast.

[FUNC] + [+] Increase screen contrast.

[FUNC] + [0] Toggle screen backlight.

[FUNC] + [6] Task manager

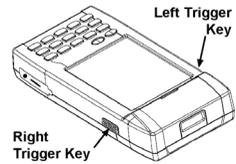
[FUNC] + [9] System information

Using the Laser Scanner or MSR

Laser Scanner

The 4210 has an integrated laser scanner which reads all major barcode labels with excellent performance.

Trigger keys are located on the left and right sides of the unit. Press either one to activate the laser scanner.



The 4210 also has a built-in TTY.EXE program that allows the user to test the barcode scan function. TTY.EXE is located in directory \WINDOWS. It is also accessible by shortcut via "Program" on the Start menu.



Magnetic Stripe Reader (MSR)

The 4210MSR has an integrated MSR Reader which is activated by simply sliding a card with a magnetic stripe through its slot. Use the TTY.EXE program (see previous paragraph) to test the MSR function.