



# Panasonic®

## Handheld Computer

# OPERATING INSTRUCTIONS

Model No. **CF-P1 Series**

## TOUGHEBOOK

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Pocket PC 2002

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Please read this instructions manual carefully before using this product and save this manual for future use.

## Customer's Record

Model No.\*

Dealer's Name

Serial No.

or

Code No.

Dealer's Address

Date of Purchase

- \* For the Model No., insert the 12 digit number (for example, CF-P1S3CZZ5M) located on the bottom of the computer.

## Introduction

Thank you for purchasing the Panasonic Handheld Computer. Read the operating instructions thoroughly for proper operation of your new computer.

## Illustrations and Terminology in this Manual

**NOTE:**

**NOTE** provides a useful fact or helpful information.

**CAUTION:**

**CAUTION** indicates a condition that may result in minor or moderate injury.

**WARNING:**

**WARNING** indicates a hazard that may result in moderate or serious injury.

 - [Programs]:

This illustration means to tap  at the top of the screen, then to tap [Programs].

< For the CF-P1S3 series >

 (A):

This illustration means to press the [A] key.

Mode key + NUM key: This illustration means to press and hold the [] key (Mode key), then press the [NUM $\blacktriangleleft$ ] key.

< For the CF-P1S1 series >

 (1):

This illustration means to press the [1] key.

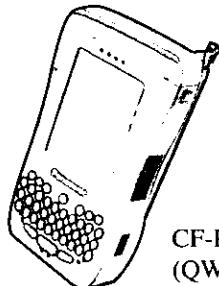
 :

Where to go for referred information.

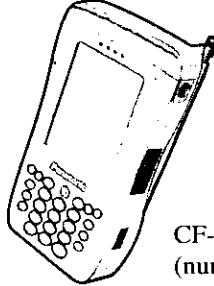
- Some of the illustrations in this manual may differ slightly in shape from the actual items in order to make the explanation easier to understand.

## This operating instructions describes the models below.

Note however that the illustrations mainly show the CF-P1S3 series.



CF-P1S3 series  
(QWERTY key  
type keyboard)



CF-P1S1 series  
(numeric keypad  
type keyboard)

# Read Me First

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## For U.S.A.

### Federal Communications Commission Radio Frequency Interference Statement

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the Panasonic Service Center or an experienced radio/TV technician for help.

### Warning

To assure continued compliance, use only shielded interface cables when connecting to a computer or peripheral. Also, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Responsible Party: Matsushita Electric Corporation of America  
One Panasonic Way  
Secaucus, NJ 07094  
Tel No: 1-800-LAPTOP-5 (1-800-527-8675)

### Notice for the products using LCD

This product uses one or more fluorescent lamps containing a small amount of mercury. It also contains lead in some components. Disposal of these materials may be regulated in your community due to environmental considerations. For disposal or recycling information please contact your local authorities, or the Electronics Industries Alliance: <<http://www.eiae.org/>>

## For Canada

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

## Lithium Battery

### **Lithium Battery!**

This computer contains a lithium battery to enable the date, time, and other data to be stored. The battery should only be exchanged by authorized service personnel.

Warning! A risk of explosion from incorrect installation or misapplication may possibly occur.

### **Pile au lithium!**

Le micro-ordinateur renferme une pile au lithium qui permet de sauvegarder certaines données comme la date et l'heure notamment. Elle ne devra être remplacée que par un technicien qualifié.

Avertissement! Risque d'explosion en cas de non respect de cette mise en garde!

# Precautions

The CF-P1 was developed based on thorough research into real-world portable computing environments. Exhaustive pursuit of usability and reliability under harsh conditions led to innovations such as the magnesium alloy exterior and flexible internal connections.

The CF-P1's outstanding engineering has been tested using the stiff MIL-STD- 810F (for vibration and shock) and IP (for dust and water) based procedures.

As with any portable computer device precautions should be taken to avoid to the CF-P1 damage. The following usage and handling procedures are recommended.

Before putting the computer away, be sure to wipe off any moisture.

## Avoid Extreme Heat and Cold

Do not store or use the computer in locations exposed to heat (in an automobile on a sunny day, for example), direct sunlight, or extreme cold.

Avoid moving the computer between locations with large temperature differences.

### Operation

Temperature: -20 °C to 50 °C (-4 °F to 122 °F)

Humidity: 30 % to 80 % RH (No condensation)

### Storage

Temperature: -25 °C to 60 °C (-13 °F to 140 °F)

Humidity: 30 % to 90 % RH (No condensation)



## Keep Small Objects Away

Do not insert paper clips or other small objects into the computer.



## Do Not Disassemble the computer

Do not attempt to disassemble your computer.



## Avoid Excessive Force on the LCD

Do not apply excessive downward force on the LCD.



## Avoid Radio Frequency Interference

Do not place the computer near a television or radio receiver.



## Be careful of low-temperature burns

Avoid more than casual contact with any heat producing area of the computer, AC adaptor, and any option or accessory you use with it. Even low heat, if warmer than the body's temperature, can cause burns. If the skin is exposed to the heat source for a long enough period of time.



## Avoid Magnetic Fields

Keep the computer away from magnets.



## Avoid Stacking

Do not place heavy objects on the computer.

## Handling

- Do not drop or hit your computer against solid objects.
- Remove all cables before transporting your computer.
- We recommend that the battery be fully charged. We also recommend that the backup battery (a built-in coin type battery) be fully charged.  
When transporting spare batteries inside a package, briefcase, etc., we recommend that the batteries be stored in a plastic bag.
- Always carry your computer with you when traveling. Never check it in with luggage. For use of the computer inside an aircraft, we recommend asking the airlines regarding their policy on this issue.
- It is a good idea to make backup copies on SD memory cards/MultiMedia Cards and carry them with you.

# Precautions

## Battery Pack

- Care should be exercised with regard to the following in order to avoid the possibility of over-heating, fire, or damage.



### Avoid Heat

Do not throw the battery pack into a fire or expose it to excessive heat.



### Stop Using

Should the battery emit an abnormal odor, become hot to the touch, become discolored, change shape, or become in any way different from normal, remove it from the computer and stop using it.



### Keep Articles Away

Do not place the battery pack together with articles such as necklaces or hairpins when carrying or storing.



### Do Not Disassemble

Do not insert sharp objects into the battery pack, expose it to bumps or shocks, or deform, disassemble, or modify it.



### Do Not Short

Do not short the positive (+) and negative (-) contacts.



### Avoid Extreme Heat, Cold and Direct Sunlight

Do not charge, use or leave the battery pack for extended periods where it will be exposed to direct sunlight, in a hot place (in an automobile on a sunny day, for example), or in a cold place.



### Do Not Put Into a Microwave

Do not put the battery pack into a microwave oven or a pressurized chamber.



### Do Not Use With Any Other Device

The battery pack is rechargeable and was intended for the specified computer. Do not use it with a device other than the one for which it was designed.

- If the battery pack will not be used for a long period of time (a month or more), charge or discharge (use) the battery pack until the remaining battery level becomes 30 % to 40 % and store it in a cool, dry place.
- The battery pack is not charged when the computer is first purchased. Be sure to charge it before using it for the first time. When the AC adaptor is connected to the computer, charging begins automatically.
- If the battery leaks and the fluid gets into your eyes, do not rub your eyes. Immediately flush your eyes with clear water and see a doctor for medical treatment as soon as possible.

### About High Temperature Mode

This computer has a high temperature mode function that prevents the degradation of the battery in high temperature environments. We recommend setting the high temperature mode function when installing the computer in a car, etc. To do this, set [Charging mode] in - [Settings] - [System] tab - [Panasonic Settings] to [High Temperature]. In the high temperature mode, the full charge capacity of battery becomes approximately 80 %.

## NOTE

- The battery pack may become warm during recharging or normal use. This is completely normal.
- Recharging will not commence outside of the allowable temperature range (5 °C to 40 °C {41 °F to 104 °F})\*. Even if charging stops because the temperature is outside the charging temperature range, the battery indicator will remain in the illuminated orange. Once the allowable range requirement is satisfied, charging begins automatically. Note that the recharging time varies based on the usage conditions. (Recharging takes longer than usual when the temperature is 10 °C {50 °F} or below.)
- If the temperature is low, the operating time is shortened. Only use the computer within the allowable temperature range.
- The battery pack is a consumable item. If the amount of time the computer can be run off a particular battery pack becomes dramatically shorter and repeated recharging does not restore its performance, the battery pack should be replaced with a new one.
- When a spare battery pack is to be carried in a pocket or bag, it is recommended that it be placed in a plastic bag so that its contacts are protected.
- Always power off the computer when it is not in use. Leaving the computer on when the AC adaptor is not connected will exhaust the remaining battery capacity.

\*These temperature settings are valid when the battery is charging and the computer is off. The temperature range may become narrower when the battery is charging and the computer is operating.



A lithium ion battery that is recyclable powers the product you have purchased. Please call 1-800-8-BATTERY for information on how to recycle this battery.

L'appareil que vous vous êtes procuré est alimenté par une batterie au lithium-ion. Pour des renseignements sur le recyclage de la batterie, veuillez composer le 1-800-8-BATTERY.

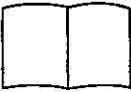
## When Using Peripheral Devices

Pay strict attention to the following points to avoid damage to the computer, peripheral devices, cables, etc. Also, in addition to following this manual, carefully read the instruction manuals for the peripheral devices being used.

- Use only peripheral devices that conform to the computer's specifications.
- Connect the devices properly, paying close attention to the condition and position of the connectors.
- If a connection cannot be made easily, do not apply undue force; check once more to confirm the condition and position of the connector (alignment of pins, etc.).
- If the connector has holding screws, fasten the screws firmly.
- Do not carry the computer with cables attached, and do not pull on the cables forcefully.

# What's in the Box?

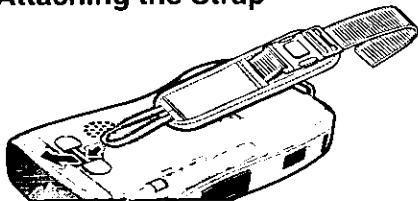
Make sure the parts shown in the figure have been supplied. If any of these items is missing or is not working properly, contact Panasonic Technical Support.  
Make sure the provided stylus has been stored to the computer (☞ page 19).

<b>AC Adaptor</b> ..... 1	<b>AC Cord</b> ..... 1
 Model No:CF-AA1527	
<b>Battery Pack</b> ..... 1	<b>Cradle</b> ..... 1
 Model No: CF-VZSU28	 Model No: CF-VEBP1
<b>Strap</b> ..... 1	<b>Operating Instructions</b> .... 1
 (see below)	 (this book)
	<b>Companion CD*</b> ..... 1

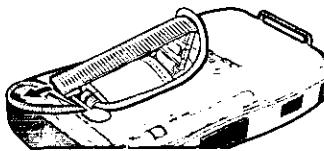
\*You can use the Companion CD to install various software, including Microsoft®Outlook® 2000 and Microsoft®ActiveSync® 3.5 (☞ page 31).

## Attaching the Strap

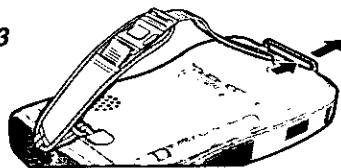
1



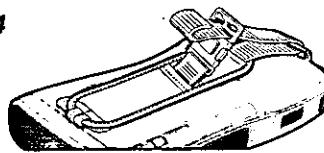
2



3



4



### CAUTION

- The strap has been designed to carry only the weight of the computer. Therefore, be sure that the strap does not carry a weight that exceeds the weight of the computer. The strap may accidentally come loose from the computer.
- Do not use a strap that is damaged or about to tear.

# Names and Functions of Parts

The illustrations shown may differ from the actual physical appearances.

Some models have built-in cards (e.g., barcode scanner and RF module). For such models, refer to the attached Supplementary Instructions. (These cards cannot be changed.)

## Internal Microphone

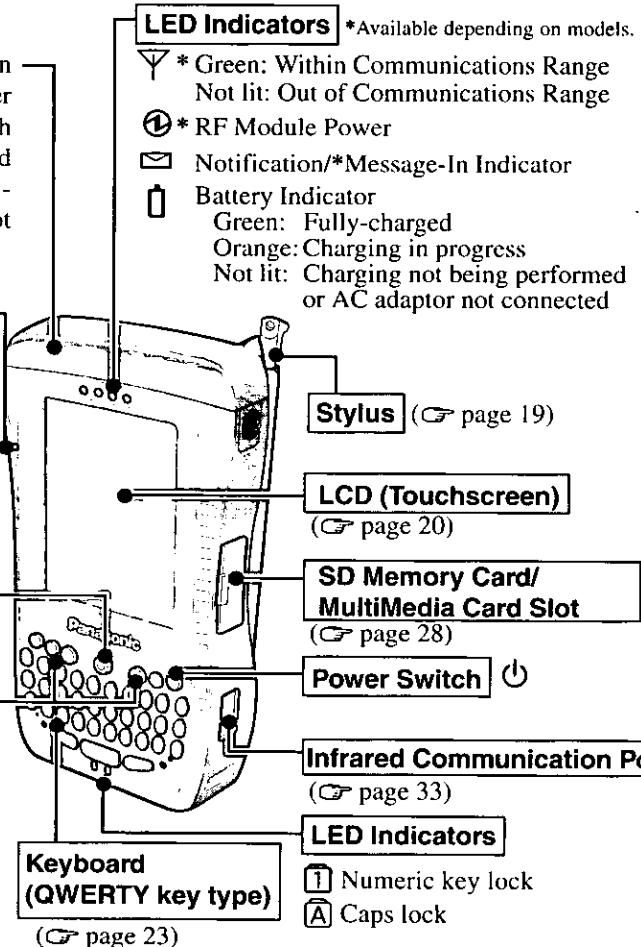
Adjust the Microphone gain level using [Panasonic Settings]. Select either AGC (Automatic Gain Control) or Manual. (☞ page 35)

## Cursor Control

(☞ page 10)

## Program Buttons

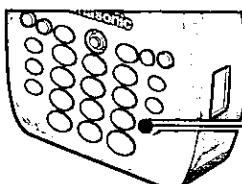
By pressing a program button (F1, F2, F3 and Option), the program assigned to the button is started up. (☞ page 26)



## < For the CF-P1S1 series >

The keyboard is of the numeric keypad type. There are no LED indicators

(① Numeric key lock and Ⓐ Caps Lock).

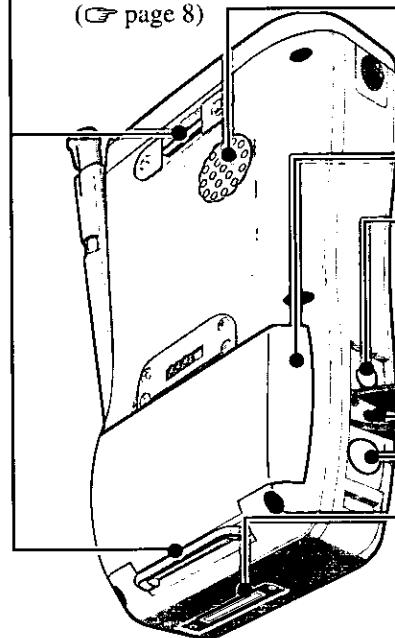


**Keyboard (numeric keypad type)** (☞ page 25)

# Names and Functions of Parts

## Strap Attachments

(☞ page 8)



## Speaker

To adjust the volume, tap - [Settings] - [Personal] tab - [Sounds & Notifications] - [Volume] tab.

**Battery Pack** (☞ pages 12 and 27)

## Headphone Jack

Use this connector to connect headphones or amplifier-equipped speakers. Audio output from the internal speaker is disabled when headphones or external speakers are connected.

**Reset Switch** (☞ page 37)

## DC-IN Jack

## Expansion Connector

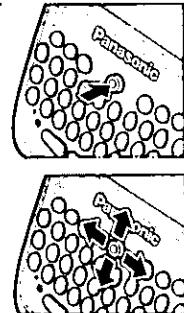
Set the computer into the cradle (included) (☞ next page). Or, you can connect the computer directly to the computer using the proper cable (☞ page 33).

## Cursor Control

Using the cursor control, the following operations can be performed.

### “Push” Operation:

Executes a selected item from a menu, or a selected icon. For example, after an item within a menu is selected, the cursor control can be pushed to execute this selected item.



### “Move Up/Down Right/Left” Operations:

Performs the same function as the up/down left/right cursor keys. For example, the “Move Up” operation can be performed to select an item towards the top within a menu.

## Changing the Cursor Control Settings

The cursor control settings allow you to adjust the interval between the waiting time until the repetition of an input begins (from the first input to the second input) if the cursor control is held down, and the repeat of the input (from the second input and on).

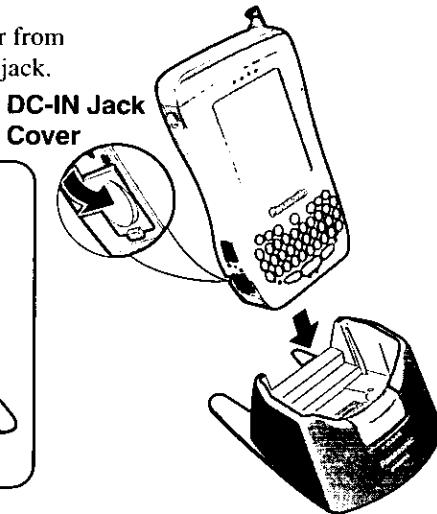
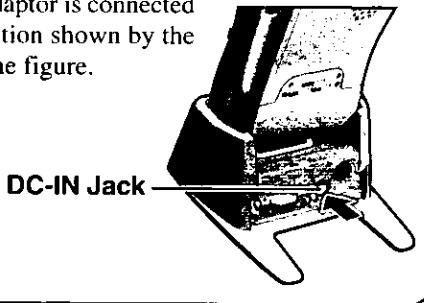
- 1 Tap - [Settings] - [Personal] tab - [Buttons] - [Up/Down Control] tab.
- 2 Customize the way your cursor control repeats.
- 3 Tap [ok].

## Connecting/Removing the Cradle

### Connecting the Cradle

Connect the cradle after removing the AC adaptor from the computer and closing the cover of the DC-IN jack.

The AC adaptor is connected to the position shown by the arrow in the figure.



### Removing the Cradle

**1** Press the release lever.

**2** While firmly holding the cradle and pressing down on the release lever with one hand, lift the computer up with the other hand.



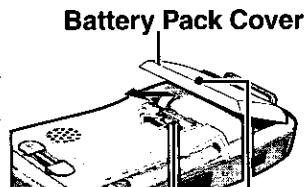
# First-time Operation

## 1 Install the battery pack.

- (1) Turn your computer over.
- (2) Press position (A) to depress the battery pack cover and then slide the latch, and remove the battery pack cover.

### NOTE

If the attached strap makes it difficult to remove the battery pack cover, unbuckle the strap and then remove the cover.



- (3) Set the arrow mark of the battery in the direction shown in the figure, and then insert the battery pack into the battery pack compartment.



- (4) Align the projecting part of the cover with the hole, attach the cover at an angle, and then set the cover on the body. Press position (A) to depress the battery pack cover and then slide the latch to lock the cover.



### NOTE

After attaching the battery pack cover, slide the latch all the way to the left.

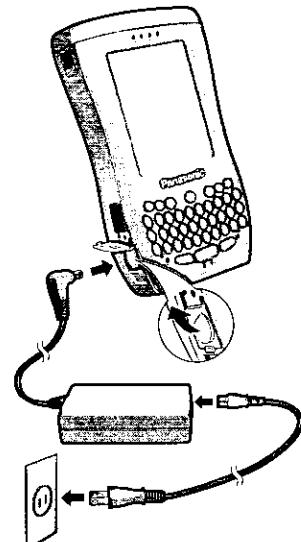


## 2 Connect your computer to a power outlet.

When the AC adaptor is connected to the computer, charging begins automatically.

### Charging Time: Approx. 3 hours

This computer is equipped with a memory backup battery which automatically charges from the fully-charged lithium-ion battery (main battery). This backup battery retains data in memory when the lithium-ion battery is removed, and takes 24 hours to charge when you first use this computer.



**NOTE**

- When the backup battery or main battery becomes low, some alert messages and icons will be displayed. (☞ pages 16)

**CAUTION**

- If you remove your main battery before the main battery is fully charged, data may be lost. For this reason, do not remove the battery within the first 24 hours of use.
- Take care to ensure that the remaining power in the main battery and the backup battery never discharges completely.  
When remaining power discharges completely, the computer will no longer function properly, and the full reset screen will be displayed automatically. When the computer is full reset, all user-added data will be deleted, and the computer will be returned to the condition at the time of purchase.

- After the cover is closed, press down firmly on the cover and confirm that the cover is locked.

**Handling the AC adaptor**

- Do not twist or pull the AC power cord forcefully. Doing so may damage the connections.
- Use only the specified AC adaptor with your computer. Using an AC adaptor other than the one supplied might damage the battery and/or the computer.
- When the DC plug is not connected to the computer, disconnect the AC cord from your AC wall outlet.
- Problems such as sudden voltage drops may arise during periods of thunder and lightning storms. Since this could adversely affect your computer, an uninterruptible power source (UPS) is highly recommended unless the battery pack is installed.

# First-time Operation

## 3 Turn your computer on

(1) Using the provided stylus, push the center of the reset switch straight in for 1 second. If the DC-IN Jack's cover makes it difficult to push the reset switch, push the cover in a little as you push the switch.

### CAUTION

Use only the stylus provided to push the reset switch.

Do not push the reset switch with any other sharp-pointed objects, i.e. pencils, and ball point pens. The reset switch or other parts may become damaged.

### Reset Switch



If the confirmation message is displayed,

press (For the CF-P1S3 series)

press (For the CF-P1S1 series)

(2) Tap the screen to set up your Pocket PC.

The Windows\* alignment screen is displayed.

\* This computer uses Microsoft®Windows® Powered Pocket PC 2002.

(3) Align the touchscreen.

(For alignment, tapping operations are required. For information on tapping, refer to page 19.)

"+" is displayed in the center, upper left, lower left, lower right, and upper right portions of the screen, in that order. Each time the "+" mark is displayed, tap the center of the "+" mark with the stylus.

### align screen

Tap the target firmly and accurately at each location on the screen. The target will continue to move until the screen is aligned.



(4) At [stylus], read the on-screen instructions and tap [Next].

(5) At [pop-up menus], follow the on-screen instructions.

(6) After [Congratulations!] is displayed, tap [Next].

(7) At [location], select the time zone and tap [Next].

(8) At [complete], tap the screen to begin using CF-P1.

## 4 Set the time and date

(1) Tap - [Settings] - [System] tab - [Clock].  
(2) Set the time and date.  
(3) Tap [ok].

### NOTE

You can also set the time and date by tapping on [Today] screen.

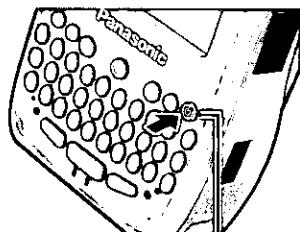
**This concludes the first-time use operation guidelines.**

# Starting Up/Shutting Down

## Starting Up (from the second time)

Lightly press the power switch once.

An program or file that was previously displayed appears on your screen.



Power Switch 

## Power Switch

OFF



ON



Lightly press the power switch (within 0.5 seconds)

### To turn the backlights on/off:

Press the power switch until the LCD backlight and keyboard backlight go on/off and release the switch. To turn the keyboard backlight on, refer to page 21.

### NOTE

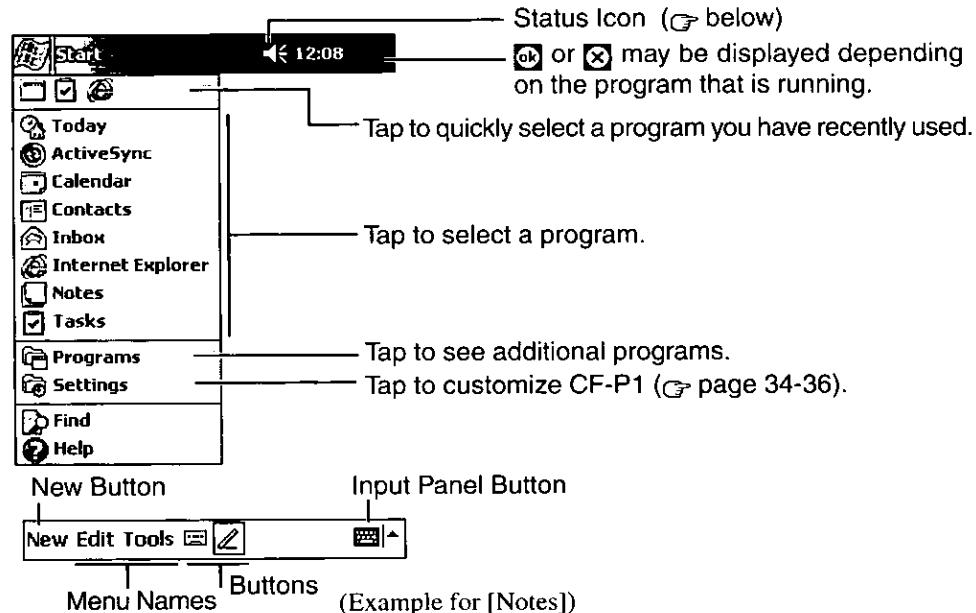
When the backlight is on, more power is consumed, and the shortening of the operating time is accelerated.

# Starting Up/Shutting Down

## The Navigation Bar and Command Bar

The navigation bar is located at the top of the screen. It displays the active program and current time, and allows you to switch to programs and close screens.

Use the command bar at the bottom of the screen to perform tasks in programs. The command bar includes menu names, buttons, and the input panel button.



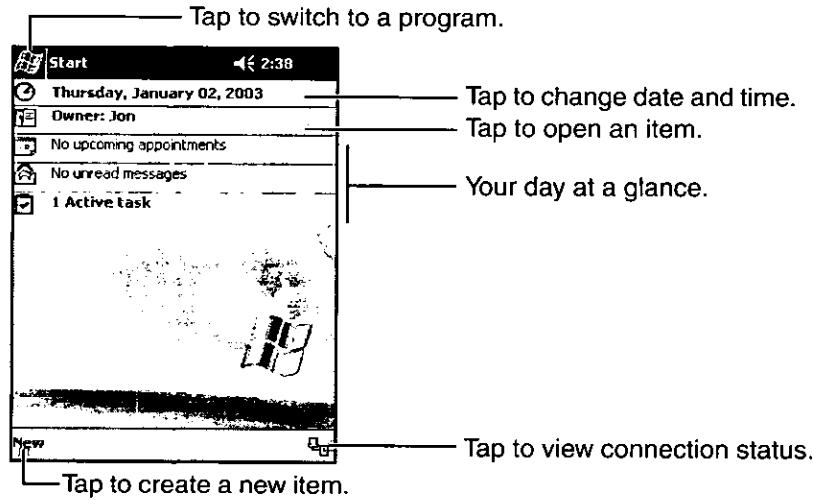
Following are some of the status icons you may see.

Status Icon & Meaning	
	Turn all sounds on and off
	Backup battery is low
	Main battery is charging
	Main battery is full
	Main battery is low
	Main battery is very low
	Connection is active
	Synchronization is beginning or ending
	Synchronization is occurring
	Notification that one or more instant messages were received
	Notification that one or more e-mail messages were received
	More Notification icons need to be displayed. Tap the icon to view all

## Today Screen

You'll see the Today screen when you turn on the computer for the first time each day (or after 4 hours of inactivity\*). You can also display it by tapping  - [Today]. On the Today screen, you can see at a glance important information for the day.

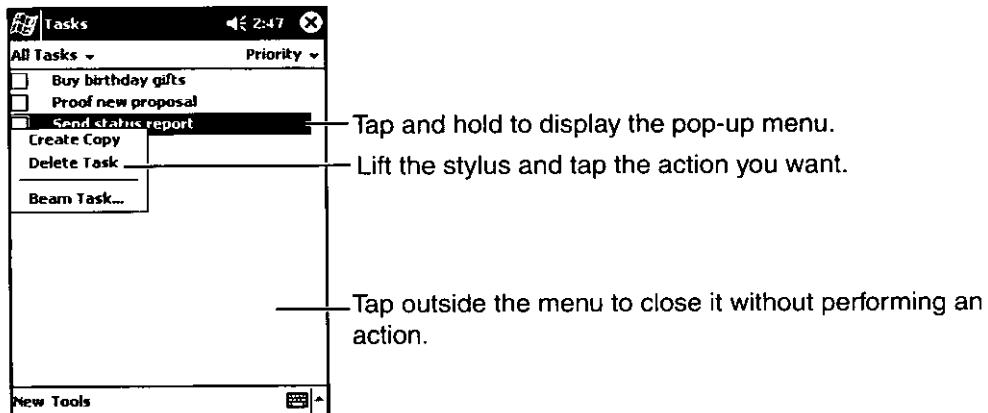
\*To change the setting, tap  - [Settings] - [Personal] tab - [Today] - [Items] tab.



# Starting Up/Shutting Down

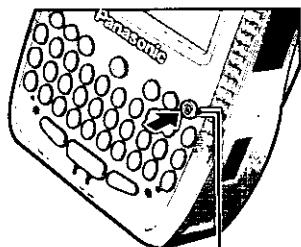
## Pop-up Menus

With pop-up menus, you can quickly choose an action for an item. For example, you can use the pop-up menu in the contact list to quickly delete a contact, make a copy of a contact, or send an e-mail message to a contact. The actions in the pop-up menus vary from program to program. To access a pop-up menu, tap and hold the stylus on the item name that you want to perform the action on. When the menu appears, lift the stylus, and tap the action you want to perform. Or tap anywhere outside the menu to close the menu without performing an action.



## Shutting Down (power off)

Lightly press the power switch once (within 0.5 seconds). CF-P1 shut down is the same as the suspend state of a computer. (Suspend state is a function allowing you to turn off the power without closing applications. The settings before the power was turned off are stored in the memory, so when the power is turned back on, the screen is the same as it was before the power was turned off (the same applications and files are opened) and you can start working immediately.)



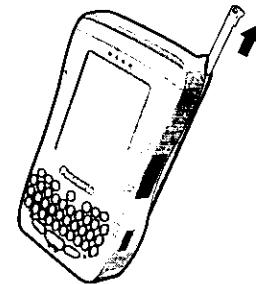
Power Switch 

### CAUTION

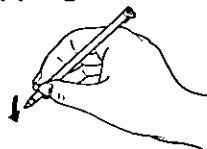
Check that the SD memory card/MultiMedia Card is not being accessed before turning off the power. If the power is turned off while the card is being accessed, the data stored on the card may be damaged and the computer may stop working properly.

## Using the Stylus

Use the stylus provided to perform operations on the touchscreen. The stylus is located in the stylus holder at the upper right of the computer, and can be held like a pen or pencil. The following operations are possible on the touchscreen.

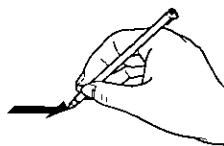


### Tapping



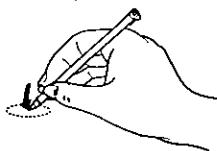
You can select an item on the screen by tapping it with the stylus. This operation is called a "tap".

### Dragging



You can drag an item on the screen by holding the stylus down over the item and then moving the stylus. This operation is called a "drag".

### Tapping and Holding



You can tap and hold the stylus on an item to see a list of actions available for that item. On the pop-up menu that appears, tap the action you want to perform.

## Handling the Stylus

- Clean the stylus tip and screen prior to operation. Foreign particles can scratch the screen and impede the operation of the stylus.
- Use the provided stylus only on the screen. Using it for any other purpose may damage the stylus and scratch the screen.

## Handling the Touchscreen

- Use the provided stylus with CF-P1. Do not use an implement other than the stylus that comes with the computer.
- Do not place any object on the surface or press down forcefully with sharp-pointed objects (e.g., nails), or hard objects that can leave marks (e.g., pencils and ball point pens).
- Do not operate the computer when such things as dust are on the LCD. Do not allow substances such as oil to contact the LCD. The cursor may not work properly in such cases.

## Aligning the Screen

Align the screen if the cursor does not correctly move to the position where the stylus touches the screen of the computer.

1 Tap  - [Settings] - [System] tab - [Screen].

2 Tap [Align Screen].

3 **"+" is displayed in the center, upper left, lower left, lower right, and upper right portions of the screen, in that order.**

Each time the "+" mark is displayed, tap the center of the "+" mark with the stylus.

The alignment procedure is executed after the five "+" marks are touched.

### align screen

Tap the target firmly and accurately at each location on the screen. The target will continue to move until the screen is aligned.



#### NOTE

<For the CF-P1S3 series>

You can also display the alignment screen when  (Mode key) + the cursor control are pushed.

<For the CF-P1S1 series>

You can also display the alignment screen when  (PF key) + the cursor control are pushed.

# Backlight Setting

## Adjust the LCD Brightness

Screen brightness can be adjusted in accordance with the usage conditions.

- 1 Tap  - [Settings] - [System] tab - [Backlight].
- 2 Tap the [Brightness] tab and adjust the brightness with the slider.
- 3 Tap [ok].

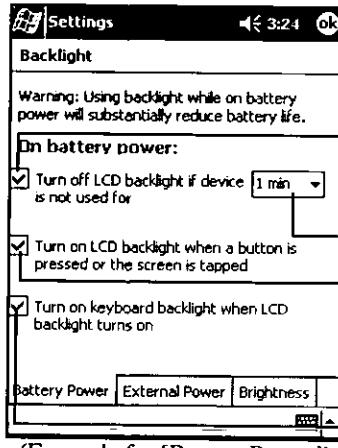
## LCD Backlight ON/OFF

Press the power switch until the LCD backlight goes on/off after the computer is turned on and release the switch.

## Setting of the LCD Backlight and Keyboard Backlight

The LCD backlight and keyboard backlight can be set to switch off automatically (e.g., for conserve power) by setting the timeout function. Individual settings can be made for battery use and AC adaptor use.

- 1 Tap  - [Settings] - [System] tab - [Backlight].
- 2 **Battery use setting:** Tap the [Battery Power] tab.  
**AC adaptor use setting:** Tap the [External Power] tab.



Add a check mark so that when the device is not operated, the LCD backlight switches off automatically when the timeout expires.

Timeout

Add a check mark so that tapping the screen turns the LCD backlight on.

Add a check mark to turn the keyboard backlight on when the LCD backlight turns on.

- 3 Tap [ok].

# Entering Information

You can use the following options to enter information:

- Use the keyboard to input the number, character\*<sup>1</sup> or symbol\*<sup>1</sup> shown on the key top.
- Use the input panel to input typed text, either by using the soft keyboard or other input method.
- Write directly on the screen.\*<sup>2</sup>
- Draw pictures on the screen.\*<sup>2</sup>
- Speak into the internal microphone to record a message.\*<sup>2</sup>
- Use Microsoft® ActiveSync® to synchronize or copy information from a host computer to CF-P1. For more information on Microsoft® ActiveSync® 3.5, see ActiveSync Help on the host computer (☞ page 31).

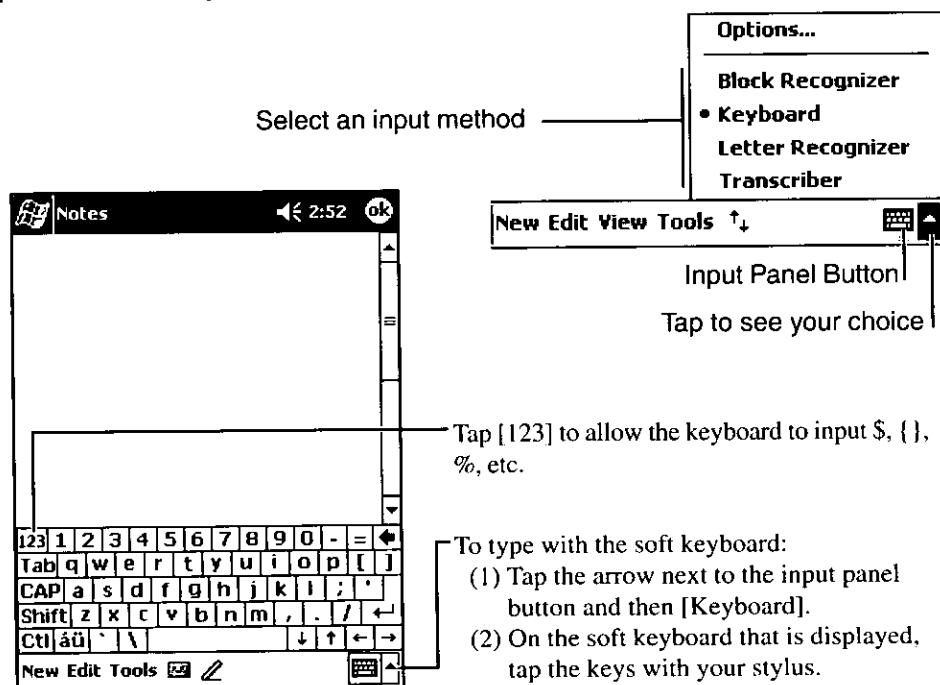
\*<sup>1</sup> Only for the CF-P1S3 series.

\*<sup>2</sup> For more information, tap  - [Help] - [Settings] - [Input].

## Using the Input Panel

Use the input panel to enter information in any program on CF-P1. You can either type using the soft keyboard or write using Letter Recognizer, Block Recognizer, or Transcriber. In either case, the characters appear as typed text on the screen.

To show or hide the input panel, tap the input panel button. Tap the arrow next to the input panel button to see your choices.



## Using the QWERTY Keypad Type Keyboard <For the CF-P1S3 series>

Alphabet Keys

Mode Key

NUM  $\blacktriangleleft$  (Shift) Key

CANCEL Key

Backspace Key

Enter Key

DEL (Delete) Key

$\blacktriangleleft$  CAP (Shift) Key

SOFT/SPACE Key

### Mode Key

- A symbol or numeral on the key-top is input by pressing the Mode key (the numeric key lock indicator goes on) followed by the corresponding alphabet key. Each Mode key press works for the input of only one symbol or numeral. This is convenient when using one hand to input sentences including symbols/numerals.

**Example:** To input “abc.def.”, press the keys in the following order.

(A) (B) (C) ( ) (M) (D) (E) (F) ( ) (M)  
“.” “.”

### NUM $\blacktriangleleft$ (Shift) Key

- Each time the Mode key + NUM  $\blacktriangleleft$  key are pressed, the mode changes from the alphabet input mode (default) to the symbol/numeral input mode, and vice versa. In the symbol/numeral input mode (numeric key lock indicator on), the symbols and numerals on the key-top can be inputted continuously.

To exit the symbol/numeral input mode, you can also choose to press only the NUM  $\blacktriangleleft$  key.

- Pressing this key alone is the same as pressing the Shift key of a computer.

### SOFT/SPACE Key

- Pressing this key inserts a space.

# Entering Information

## ▲ CAP (Shift) Key

This key is used for inputting capital letters.

- Each time the Mode key + ▲ CAP key are pressed, the mode changes from the standard (non-caps) input mode to the caps lock mode, and vice versa. In the caps lock mode (caps lock indicator goes on), capital letters can be inputted continuously.

(When both the numeric key lock indicator and caps lock indicator are on, priority is given to the symbol/numeral input mode.)

### Inputting non-capital characters in the caps lock mode:

Press an alphabet while also holding down on the NUM ▲ key.

- Pressing this key alone is the same as pressing the Shift key of a computer (like the NUM ▲ key).

## DEL (Delete) Key

This key works the same as the Delete key of a computer.

## Enter Key

This key works the same as the Enter key of a computer, e.g., line feed in a document, and to select icons and items from menus, etc.

## Backspace Key

This key works the same as the Backspace key of a computer.

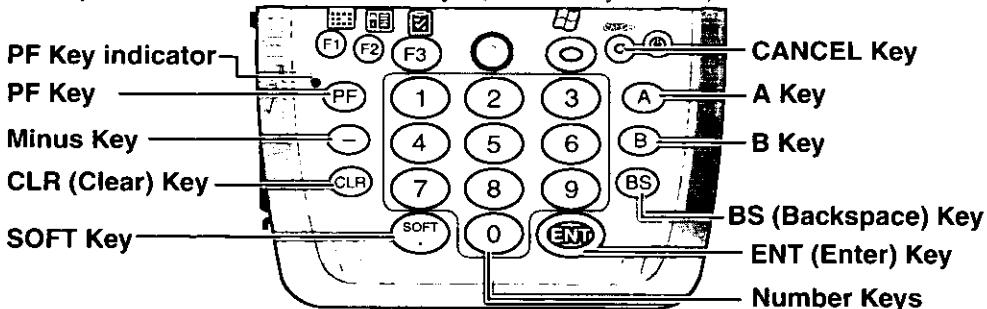
## CANCEL Key

This key works the same as the ESC key on a computer.

## Using the Numeric Keypad Type Keyboard <For the CF-P1S1 series>

Press a key to input the number shown on the key top.

The keys can also be used as function keys. (See "PF key" below.)



### PF Key:

When **(PF)** is pressed and the PF key indicator is turned on (function key mode), the functions assigned to the each number key are activated when the corresponding keys are pressed.

Press **①** for 10.

(The functions assigned to the number keys differently depending on the application.)

- To use the function key mode only once:

Press **(PF)** once, then press a number key.

(You can also press the number key while pressing **(PF)**.)

Once the number key is pressed, **(PF)** indicator turns off. To turn it off without pressing a number key, press **(PF)** twice.

- To use the function key mode continuously:

Press **(PF)** twice to lock the function key mode, then press the number keys. Press **(PF)** once to unlock the function key mode.

### Minus Key:

Press this to input a "-".

### CLR (Clear) Key:

The function differently depending on the application.

### SOFT Key:

When pressed, a period (".") is input.

### ENT (Enter) Key:

This key works the same as the Enter key of a computer, e.g., line feed in a document, etc.

**BS (Backspace) Key:** This key works the same as the Backspace key of a computer.

### A Key:

This operates as an 11th function key.

### B Key:

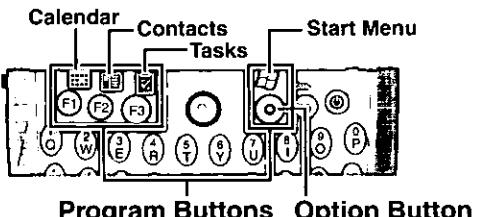
This operates as a 12th function key.

### CANCEL Key:

Pressing this key stops the running of a program (the same as pressing ESC on a computer).

# Program Buttons

The F1, F2, F3 and Option buttons are called program buttons. If either of the program buttons is pressed after the computer has started up, the program assigned for that button is started up.



## Changing the Assignment of a Program Button

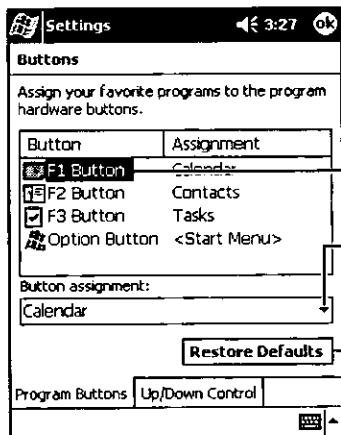
Programs are assigned to the program buttons at the time of purchase.

**F1 - Calendar, F2 - Contacts, F3 - Tasks, Option button - Start Menu**

You can change the assignment of the program buttons following the procedure.

**1 Tap  - [Settings] - [Personal] tab - [Buttons].**

**2 Choose each setting.**



(1) Tap one button.

(2) Tap  under [Button assignment] and select a program from the list.

If the [Restore Defaults] is tapped, the assignments will return to the default settings.

**3 Tap [ok].**

## Resuming with a Program Button

You can resume the computer with one of the F1, F2, F3 and Option buttons.

**1 Tap  - [Settings] - [System] tab - [Panasonic Settings] - [Wakeups] tab.**

**2 Add a check mark to resume when the program button is pressed.**

**3 Tap [ok].**

# Battery Power

## Remaining Battery

Tap  - [Settings] - [System] tab - [Power].

The remaining battery charge is displayed.

## When the Remaining Battery Charge Becomes Low

- Plug in the AC adaptor, and fully charge your battery.
- Use a spare battery if you have one.
- If you have neither the AC adaptor nor a spare battery, power off your computer.

## Replacing the Battery Pack

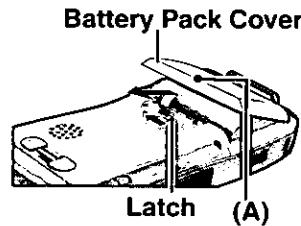
When the charge provided by your battery pack is supplied for only a short period of time, even after full charging according to the instructions, it may be time to replace your battery pack. The battery pack is a consumable item and therefore requires replacement (CF-VZSU28). Replace the battery pack within 3 hours; otherwise the data in RAM will be lost.

### CAUTION

- Do not touch the terminals of the battery pack. The battery pack may no longer function properly if the contacts are dirty or damaged.
- Do not expose the battery pack to water, or allow it to become wet.
- The battery pack is not charged when CF-P1 is first purchased. Be sure to charge it before using it for the first time. When the AC adaptor is connected to CF-P1, charging begins automatically.
- Use only the specified battery pack (CF-VZSU28) with CF-P1.
- Do not install or remove the battery pack while CF-P1 is on.
- If the computer does not turn on after changing the battery pack, push the reset switch.

### Remove the battery pack

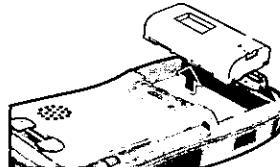
- (1) Power off your computer.
- (2) Turn your computer over.
- (3) Press position (A) to depress the battery pack cover and then slide the latch, and remove the battery pack cover.



### NOTE

If the attached strap makes it difficult to remove the battery pack cover, unbuckle the strap and then remove the cover.

- (4) Remove the battery in the direction shown in the figure.



### Install the battery pack

Refer to page 12 about installing the battery pack.

# SD Memory Card/MultiMedia Card

An SD memory card/MultiMedia Card can be used for the following purposes.

- The exchange of data with various devices equipped with an SD memory card/MultiMedia Card slot, audio storage, and so on.

## NOTE

Software (e.g., drivers) required to exchange data with these devices. (Refer to the instructions manual provided with each SD compatible peripheral device.)

- Use as a memory card (e.g., use as a storage unit on which files can be written).

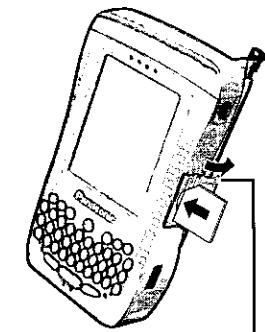
## Inserting/Removing an SD Memory Card/MultiMedia Card

### 1 Open the SD memory card/MultiMedia Card slot cover.

### 2 Inserting

Slide the card in until it snaps into place as shown in the illustration.

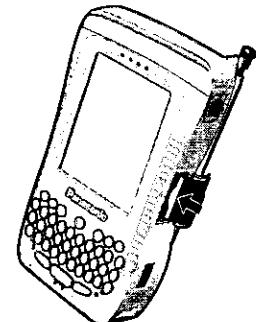
- Make sure the labeled face of the SD memory card/MultiMedia card is towards the front of the computer and then firmly insert the card. If you mistake the back side of the card with the top surface side, the card cannot be inserted all the way into the slot.
- Do not insert the card at an angle.
- Insert the card all the way into the slot.



SD Memory Card/  
MultiMedia Card Slot

### Removing

- (1) Press the card. It will come out slightly.
- (2) Remove the card.



### 3 Close the SD memory card/MultiMedia Card slot cover.

## CAUTION

Before removing an SD memory card/MultiMedia Card or powering off CF-P1, check to see if CF-P1 is trying to access the card. Such accesses are done intermittently for a short period of time. Be sure to remove the card or power off CF-P1 only after confirming that CF-P1 is not trying to access the card. If the card is removed or CF-P1 is powered off during an access attempt, valuable data may be lost or CF-P1 may fail to work properly.

# SD Backup

Using the SD backup function, you can back up data from the CF-P1 RAM to an SD memory card, or restore data backed up on the SD memory card to the CF-P1 RAM.

## CAUTION

- Do not do the following during the procedure:
  - Touching the power switch
  - Performing any keyboard and touchscreen.
- Disable the connection with the host computer, for example by disconnecting the cable.
- Confirm that battery remaining is at least 50%, disable all power management, and stop any other programs that may be running.

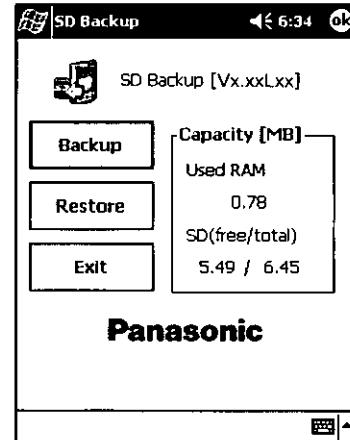
## Backup

- 1 **Reset CF-P1** (☞ page 37).
- 2 **Insert the SD memory card.**
- 3 **Tap  - [Programs] - [SD Backup].**
- 4 **Tap [Backup].**
- 5 **Input the Backup folder name and tap [OK].**

Follow the on-screen instructions.

The progress screen will be displayed. To stop the operation, press [Abort].

“Backup successful” will be displayed when the backup is complete. Tap [ok].



## NOTE

- The SD backup function may not operate even when the free capacity of the SD memory card is greater than the free capacity of the used RAM.
- You can not back up data in the same folder.

## Restore

- 1 **Full reset CF-P1** (☞ page 37 Step 1 - 9).  
All stored records and entries are erased.  
Do not perform any other settings (e.g. setting the time and date).
- 2 **Insert the SD memory card.**
- 3 **Tap  - [Programs] - [SD Backup].**
- 4 **Tap [Restore].**  
Follow the on-screen instructions and tap [Yes].
- 5 **Select the Restore folder in the SD memory card and tap [OK].**  
Follow the on-screen instructions.  
“Restore successful” will be displayed when the restore is complete.  
Tap [ok] to reset the CF-P1.
- 6 **Set the time and date (and password if required)** (☞ page 37 Step 10).

# Pocket Internet Explorer

You can connect to Internet service provider (ISP), and use the connection to send and receive e-mail messages and view Web or WAP pages.

## An Example of Inserting a Modem to CF-P1

### Getting Connected

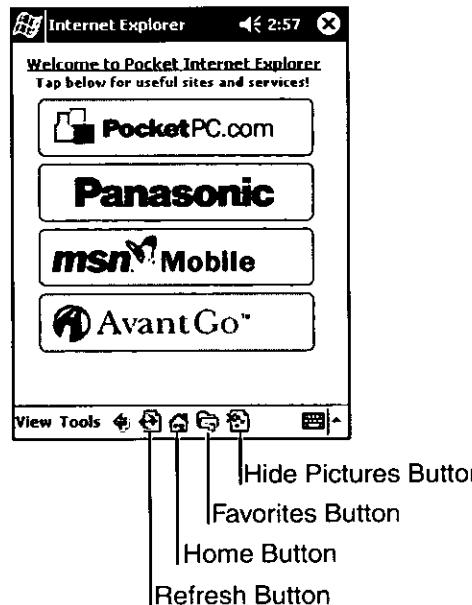
- (1)Tap  - [Settings] - [Connections] tab - [Connections] in order.
- (2)Select [Internet Settings] from the first drop-down menu and tap [Modify].
- (3)Tap [Modem] tab - [New...].
- (4)Enter the necessary user information.

The settings will vary for different network environments. For more details, ask your system administrator or the person in charge of the network.

For details, tap  - [Help].

### To run Pocket Internet Explorer

Tap  - [Internet Explorer].



# Connecting to Your Computer

Use Microsoft®ActiveSync® 3.5 to synchronize a host computer and CF-P1 information, to transfer files between a host computer and CF-P1, or to backup and restore data.

## CAUTION

To ensure that synchronization functions properly, install Microsoft®ActiveSync® 3.5 before connecting CF-P1 and the host computer for the first time.

The following methods can be used to connect the CF-P1 with a host computer.

- The use of a Serial Cable or USB Cable.
- The use of the infrared communication port.

Use an RS-232C Cable or a USB Adaptor Cable to connect CF-P1 with a peripheral.

## Installing ActiveSync®3.5

### 1 Set the Companion CD into the host computer.

The opening screen is displayed automatically.

- When the opening screen is not automatically displayed  
In [Start] - [Run], input [x:\setup] and select [OK].  
("x" is the drive letter. You can change the letter to suit your preference.)

### 2 Select button.

### 3 Select [Start Here].

### 4 Select [Install ActiveSync 3.5] and read the on-screen instructions and select [Install].

### 5 At [Installation Message], select [OK].

[File Download] will be displayed. This screen varies depending on the host computer's software (e.g. Internet Explorer version).

- If [Open] is displayed on [File Download], select [Open].
- If [Run this program from its current location] is displayed on [File Download], select it and then select [OK].

### 6 At [Microsoft ActiveSync], select [Next].

### 7 At [Select Installation Folder], select [Next].

### 8 At [Get Connected], read the on-screen instructions and connect the CF-P1 with a host computer.

(Refer to page 33 to connect the CF-P1 with a host computer.)

- For details, select [Microsoft ActiveSync 3.5 Help] during the installation.

# Connecting to Your Computer

## 9 At [Found New Hardware Wizard], select [Next] to install driver.

- An example of the procedure
  - (1) Select [Install from a list or specific location (Advanced)] then select [Next].
  - (2) Select [Search for the best driver in these locations] and add a check mark to [Include this location in the search:] and select [Browse].
  - (3) Select drive of the Companion CD and select [OK].
  - (4) Select [Next], then select [Finish].

## 10 At [Set up a Partnership], select the partnership and select [Next].

### NOTE

- To change the synchronization settings, tap, in order,  - [ActiveSync] - [Tools] - [Options...]. Be sure to disconnect the cable when changing the synchronization settings.
- For information about the Microsoft® ActiveSync® 3.5, refer to the Microsoft® ActiveSync® Help.

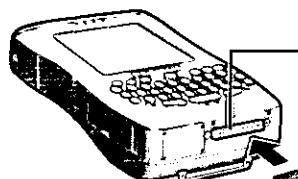
### CAUTION

While performing communications, avoid the following:

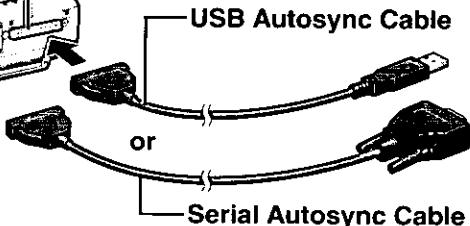
- Connect/disconnect the cable.
- Turn on/off the computer.

## When Connecting the CF-P1 Directly with a Computer

Using a Connector Protector (optional: CF-VCCP11U) is recommended to connect CF-P1 with an external device firmly.



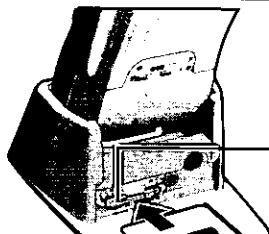
Expansion Connector of the CF-P1



Removing



## When Connecting the CF-P1 with a Computer via the Cradle



Expansion Connector of the Cradle

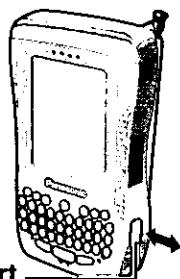
Removing



## Using the Infrared Communication Port

By using the infrared communication port, data can be exchanged without a physical connection (e.g., using a cable or the cradle) between the CF-P1 and a host computer.

- Position CF-P1 so that the infrared communication port is face-to-face with the port of a host computer.
- Have the infrared port of the CF-P1 face the infrared communication port of a host computer.
- We recommend a port to port distance of 30 cm {11.8"} or less.



Infrared Communication Port

# Customizing the Computer

If you want information on the various individual settings of the computer, tap  - [Settings] and then tap the item (icon) you want to check.

(For details, tap  - [Help] - [Settings].)

## Personal



### Buttons

#### Buttons

Program buttons and the cursor control settings.



### Input

#### Input

Input panel (soft keyboard or letter recognizer, etc.) settings.

### Menus



### Menus

#### Menus

Select programs to be displayed in , or items to be displayed in [New] in the Today screen.



### Owner Information

#### Owner Information

Registration (or changing) of the user's (owner's) personal information. You can choose to display the registered owner information on the screen when CF-P1 is turned on.



### Password

#### Password

Password enable/disable setting.

If a password is set, it has to be inputted in order to open the password screen.



### Sounds & Notifications

#### Sounds & Notifications

Volume setting and operation sound setting.

Specific sound settings to be generated in a wide range of situations.



### Today

#### Today

Desktop display setting.

## System



### About

#### About

Display of system information and release version.



## Backlight

### Backlight

LCD backlight timeout function, tap-induced backlight on and keyboard backlight setting, and LCD brightness adjustment.



## Clock

### Clock

Time/date settings and alarm settings.



## Memory

### Memory

Computer memory assignment possible (assignment of memory for data memory and memory for program execution). Display of total storage card memory if it is installed. Activate or stop the running programs.



## Option Devices

### Option Devices

Add a check mark in a box to activate CF card\* or RF serial\* when the power is off.

\* Available depending on models.



## Panasonic Settings

### Panasonic Settings

Display of ROM version.

Microphone gain level (☞ page 9), charging mode (☞ page 6) and program button resume settings (☞ page 26).



## Power

### Power

Current battery charge status, automatic power off time setting.



## Regional Settings

### Regional Settings

Display methods of the region, number system, currency, time, and date.



## Remove Programs

### Remove Programs

Remove programs in storage memory.



## Screen

### Screen

Touchscreen alignment (☞ page 20).

## Connections



### AvantGo Connect

#### AvantGo Connect

Web server settings to display the data downloaded from the server.  
For details, visit the AvantGo Web site.



### Beam

#### Beam

Enable or disable the function for receiving data via infrared communication.



### Connections

#### Connections

Internet connection and Intranet connection settings.



### Network Adapters

#### Network Adapters

Information input for discriminating the computer on a network, such as a network adaptor installed in the computer.

## Resetting Your Computer

When the computer fails to respond to an operation, reset your computer. There are two methods for resetting the computer.

### CAUTION

Use only the stylus provided to push in the reset switch.

Do not push the reset switch with any other sharp-pointed objects, i.e. pencils, and ball point pens. The reset switch or other parts may become damaged.

### Performing a Reset

This selection saves all stored records and entries and then restarts the computer.

Unsaved data in open windows may be lost.

If possible, turn off the computer and push the reset switch.

Push the reset switch within 1 second using the stylus.

Resetting the computer may cause the clock to malfunction.

After resetting the computer, check the time and correct the clock settings if necessary.

Reset Switch



### Performing a Full Reset

This selection erases all stored records and entries and then restarts the computer.

Therefore, never perform a full reset unless a reset does not solve your problem.

- (1) Using the provided stylus, push the center of the reset switch straight in for 1 second while holding down on the power switch.
- (2) At the confirmation message,  
    press (For the CF-P1S3 series)  
    press (For the CF-P1S1 series)
- (3) Tap the screen to set up your Pocket PC.  
    The Windows alignment screen is displayed.
- (4) Align the touchscreen (page 20 step 3).
- (5) At [stylus], read the on-screen instructions and tap [Next].
- (6) At [pop-up menus], follow the on-screen instructions.
- (7) After [Congratulations!] is displayed, tap [Next].
- (8) At [location], select the time zone and tap [Next].
- (9) At [complete], tap the screen to begin using CF-P1.
- (10) Set the time and date.

Tap - [Settings] - [System] tab - [Clock] to set the time and date, and tap [ok].

## Troubleshooting

### Starting Up

**CF-P1 does not turn on. Or, there is no display when CF-P1 is turned on.**

- Check to see if a fully charged battery pack is properly installed.
- The power does not go on unless the AC adaptor is connected:  
The battery level is too low. Charge the battery with the AC adaptor. (Make sure that the battery never discharges completely and that it is charged periodically.)
- Push the reset switch to restart CF-P1.
- Slide the latch to lock the battery pack cover all the way to the left.  **Latch**
- If the power does not turn on when the above operations are performed, the battery pack must be replaced.

**The date and time are incorrect.**

- You can set the date and time through [Clock] in  - [Settings] - [System] tab.  
If you continue to experience problems, the internal battery maintaining the clock may need to be replaced. Contact Panasonic Technical Support.
- This computer will not correctly recognize the date and time starting from the year 2085 A.D.

**CF-P1 shuts down automatically.**

- The battery level may be too low. If the battery level goes below a certain threshold, CF-P1 automatically shuts down. In such cases, connect the AC adaptor and charge the battery.
- The computer may have entered a locked state. If this is the case, connect the AC adaptor and push the reset switch. Check the remaining battery level and make sure that multiple applications are not running simultaneously. Close all applications that are not being used.

### Application Software

**The computer locks up during the execution of an application, or the execution speed becomes noticeably slower.**

- Connect the AC adaptor and push the reset switch. Check the remaining battery level and make sure that multiple applications are not running simultaneously. Close all applications that are not being used.

## Display

**It is hard to view the LCD.** ● The LCD backlight may have automatically turned off due to the power-saving function. Turn on the LCD backlight by holding down the power switch until the backlight goes on.

● Adjust the backlight brightness.

1 Tap  - [Settings] - [System] tab - [Backlight].

2 Tap the [Brightness] tab and adjust the brightness with the slider.

**The cursor cannot be controlled.** ● Push the reset switch to restart.

**The cursor does not properly correspond to a stylus tap.** ● Align the screen (☞ page 20).

## Connecting a Host PC

**A host computer does not recognize CF-P1.** ● Confirm that Microsoft® ActiveSync® 3.5 (or a later version) has been installed in the host computer.

● Check to see if a fully charged battery pack is properly installed to CF-P1.

● If a modem card has been inserted, disconnect these devices and check the communication status again.

● Confirm that CF-P1's power is on.

● Push the reset switch to restart.

● If a cable or cradle is being used for the connection, recheck the connection to the host computer.

## Connecting Peripherals

**Peripheral is not recognized even after driver is installed.** ● Remove cards or other peripherals, and push the reset switch.

## Network

**Cannot connect to the network.** ● Check the server information and network settings.

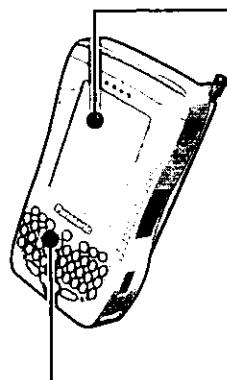
## Sounds

**Quality of recorded sound is poor.** ● Tap  - [Settings] - [Personal] tab - [Input] - [Options] tab - [Voice recording format], and select a higher frequency.

## Character Input < Only for CF-P1S1 series >

**Entering characters** ● Characters can be input using the input panel. (☞ page 22)

## Maintenance



### LCD

Avoid using water when cleaning the panel. Ingredients included in water may leave residue and reduce readability of the screen.

#### <When cleaning dust/dirt>

Avoid rubbing off dust/dirt with cloth since it may leave scratch on the screen.

Sweep dust/dirt with fine brush, then wipe it with "dry" soft cloth used for cleaning glasses.

#### <When cleaning oily surface>

Apply camera lens cleaner on a soft gauze and clean it with gentle force. Then, wipe with dry soft cloth used for cleaning glasses.

### Areas excluding the LCD

Wipe these areas with a soft cloth, after applying water or detergent diluted with water to the soft cloth and firmly wringing out excess water.

### CAUTION

- Do not use benzene, thinner, or rubbing alcohol. Doing so may adversely affect the surface, e.g., discoloration. In addition, do not use commercially-available household cleaners and cosmetics, as they may contain components harmful to the surface.
- Do not directly add or spray water or detergent. If liquid enters the inside of the computer, it may cause the computer to work improperly or be damaged.

# Specifications

Model No.	CF-P1S3CZZ5M	CF-P1S1CZZ5M
CPU	Intel® StrongARM® SA-1110 Microprocessor 206 MHz Instruction Cache Memory: 16 KB Data Cache Memory: 8 KB	
Memory (RAM/ROM)	64 MB / 32 MB (Flash)	
Video Memory	256 KB	
LCD	Type	3.5 type (Reflective color TFT)
	Displayed Colors	65536 colors (240 x 320 dots)
Keyboard	38-key keyboard (QWERTY type)	23-key numeric keypad ("10-key" type)
Pointing Device	Touchscreen, Cursor Control	
Slots	CF Card Slot	One Type I or Type II, Allowable current 3.3 V: 400 mA, 5 V: 400 mA
	SD Memory Card Slot	SD memory card/MultiMedia Card
Interface	Communication Port	IrDA 1.2 low power compliant, 115.2 kbps data transmission speed
	Headphone Jack	Miniature jack, 3.5 DIA Impedance 32 Ω, Output Power 4 mW x 2
Speaker/Microphone	Monaural Speaker/Microphone	
Sound	Philips UDA1343TT, 20-bit Stereo ADC/DAC, Sample Rate 44.1 kHz	
Battery	Battery Pack	Li-ion 7.4 V, 2.1 Ah
		Operating Time* <sup>1</sup> Approx. 8 hours - 24 hours
		Charging Time* <sup>1</sup> Approx. 3 hours
	Sub-Battery	Lithium Rechargeable Backup Battery
AC Adaptor* <sup>2</sup>	Input	100 V - 240 V AC, 50 Hz/60 Hz
	Output	15.1 V DC, 2.6 A
Power Consumption* <sup>3</sup>	Approx. 17 W* <sup>4</sup> / Approx. 40 W (maximum when recharging in the ON state)	
Operating System	Microsoft® Windows® Powered Pocket PC 2002	

\*<sup>1</sup> Varies depending on the usage conditions, frontlight on/off, etc.

\*<sup>2</sup> The AC adaptor is compatible with power sources up to 240 V AC adaptor.  
This computer is supplied with a 125 V AC compatible AC cord.

\*<sup>3</sup> Approx. 0.95 W (at 120 V AC) and approx. 1.7 W (at 240 V AC) when the battery pack is fully charged (or not being charged) and the computer is off.

\*<sup>4</sup> Rated power consumption.

# Specifications

<b>Environment</b>	In use	Temperature Humidity	-20 °C to 50 °C {-4 °F to 122 °F} 30 % to 80 % RH (No condensation)
	Not in use	Temperature Humidity	-25 °C to 60 °C {-13 °F to 140 °F} 30 % to 90 % RH (No condensation)
<b>Physical Dimensions</b> (W x H x D)	98 mm x 41 mm x 173 mm {3.9 " x 1.6 " x 6.8 "} (excluding the strap)		
<b>Weight</b>	Approx. 490 g {Approx. 1 lb.} (excluding the strap)		

## ● ActiveSync 3.5 System Requirements

- Microsoft Windows XP, Windows 2000, Windows Millennium Edition, Windows NT Workstation 4.0 with SP6 or later, or Windows 98
- Microsoft Outlook 98 or later required for synchronization to the desktop or portable computer of e-mail, calendar, contacts, tasks, and notes. (Outlook 2002 recommended)
- Microsoft Internet Explorer 4.01 SP1 or later
- Hard-disk drive with 12 to 65 MB of available hard-disk space (actual requirements will vary based on selection of features and user's current system configuration)
- Available 9- or 25-pin communications port (adaptor required for 25-pin communications port), infrared port, or USB port (available for Windows 98, Windows Me, Windows 2000, and Windows XP only)
- One CD-ROM drive
- VGA graphics card or compatible video graphics adaptor at 256 color or later
- Keyboard
- Microsoft Mouse or compatible input device

## ● Outlook 2000 System Requirements

- PC with a Pentium 75 MHz or higher processor
- Microsoft Windows 95 or later operating system, or Microsoft Windows NT Workstation operating system version 4.0 with Service Pack 3 or later
- For Windows 95 or Windows 98:
  - 16 MB of RAM for the operating system, plus an additional 8 MB of RAM for Microsoft Outlook
  - For Microsoft Windows NT Workstation operating system version 4.0 with Service Pack 3 or later:
    - 32 MB of RAM for the operating system, plus an additional 8 MB of RAM for Microsoft Outlook
    - For Microsoft Windows NT Server operating system version 4.0 with Service Pack 3 or later:
      - 64MB for the operating system, plus an additional 8 MB of RAM for Microsoft Outlook
  - Available hard-disk space (Number indicates typical installation. Your hard-disk usage will vary depending on configuration. Choices made during Custom installation may require more or less hard-disk space):
    - Typical installation: 153 MB
- CD-ROM drive
- VGA or higher resolution monitor; Super VGA recommended
- Microsoft Mouse, Microsoft Intellimouse, or compatible pointing device

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