



Panasonic®

Handheld Computer

OPERATING INSTRUCTIONS

Model No. **CF-P1 Series**

TOUGHBOOK

Contents

Pocket PC 2002

Getting Started

Read Me First	3
Precautions	5
What's in the Box?	8
Names and Functions of Parts	9
First-time Operation	12

Operation

Starting Up/Shutting Down	15
LCD (Touchscreen)	18
Backlight Setting	21
Entering Information	22
Program Buttons	26
Battery Power	27
SD Memory Card/MultiMedia Card	28
SD Backup	29
Pocket Internet Explorer	30
Connecting to Your Computer	31
Customizing the Computer	34

Troubleshooting

Dealing with Problems	37
-----------------------------	----

Appendix

For Effective Use	40
Specifications	41
LIMITED USE LICENSE AGREEMENT	43
LIMITED WARRANTY	45

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 >

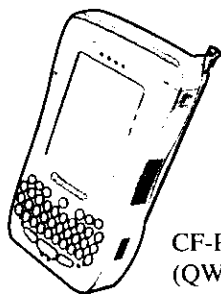
- : This illustration means to press the [A] key.
- Mode key + NUM key: This illustration means to press and hold the [0] key (Mode key), then press the [NUM▲] key.

< For the CF-P1S1 series >

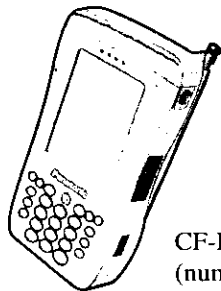
- : This illustration means to press the [1] key.
- : Where to go for referred information.
- Some of the illustrations in this manual may differ slightly in shape from the actual items in order to make the explanation easier to understand.

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

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/>>

Read Me First

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)



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.



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.

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.



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.




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.

- 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?

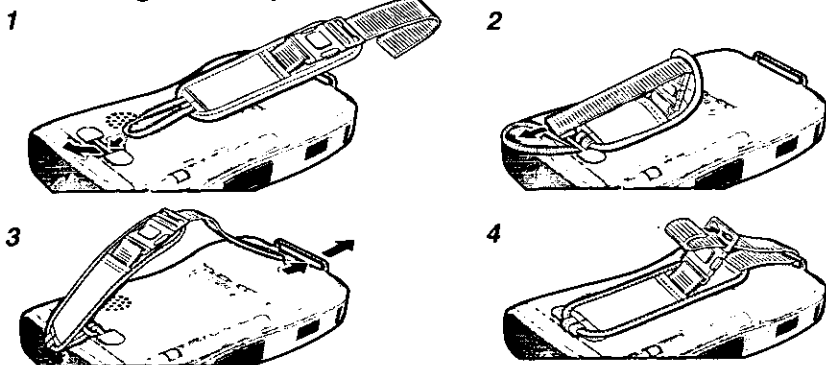
Make sure the parts shown in the figure have been supplied. If any of these items is missing or is not working properly, contact Panasonic Technical Support.

Make sure the provided stylus has been stored to the computer (☞ page 19).

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

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

Attaching the Strap



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.)

LED Indicators *Available depending on models.

▽ * Green: Within Communications Range
Not lit: Out of Communications Range

Ⓢ * RF Module Power

✉ Notification/*Message-In Indicator

🔋 Battery Indicator
Green: Fully-charged
Orange: Charging in progress
Not lit: Charging not being performed or AC adaptor not connected

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)

Keyboard (QWERTY key type)

(☞ page 23)

Stylus

(☞ page 19)

LCD (Touchscreen)

(☞ page 20)

SD Memory Card/ MultiMedia Card Slot

(☞ page 28)

Power Switch



Infrared Communication Port

(☞ page 33)

LED Indicators

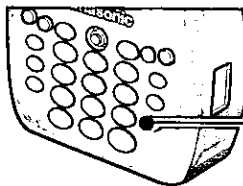
Ⓢ Numeric key lock

Ⓐ Caps lock

< For the CF-P1S1 series >

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

(Ⓢ Numeric key lock and Ⓐ Caps Lock).



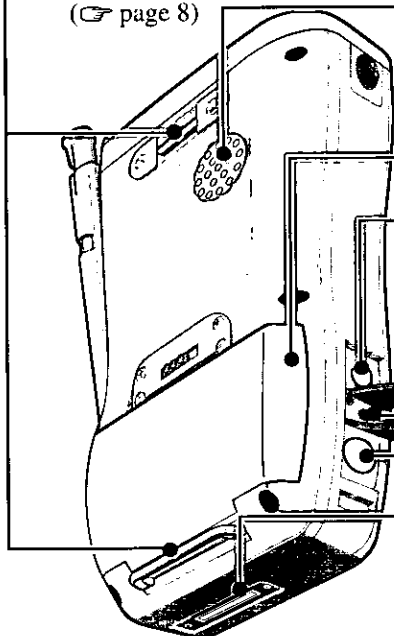
Keyboard (numeric keypad type)

(☞ 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

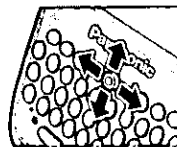
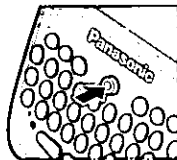
Using the cursor control, the following operations can be performed.

“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).

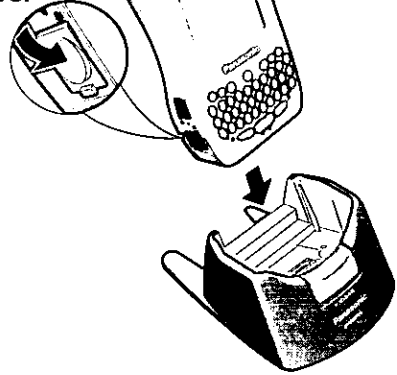
- 1 Tap - [Settings] - [Personal] tab - [Buttons] - [Up/Down Control] tab.
- 2 Customize the way your cursor control repeats.
- 3 Tap [ok].

Connecting/Removing the Cradle

Connecting the Cradle

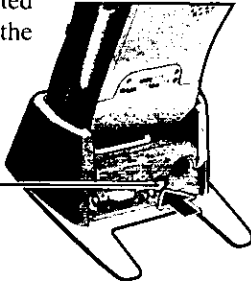
Connect the cradle after removing the AC adaptor from the computer and closing the cover of the DC-IN jack.

DC-IN Jack
Cover



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

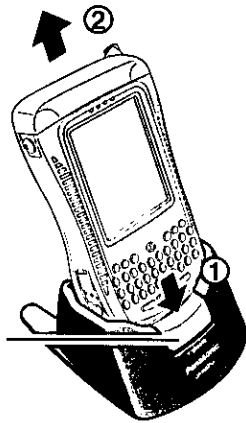
DC-IN Jack



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.

Release Lever



First-time Operation

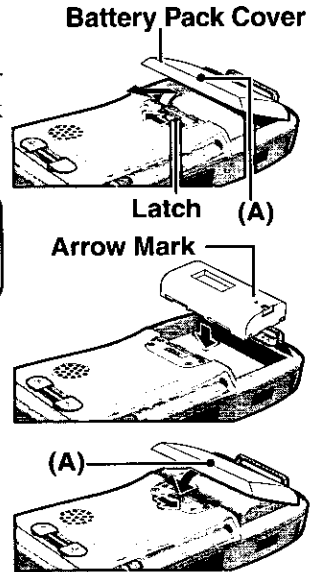
1 Install the battery pack.

- (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

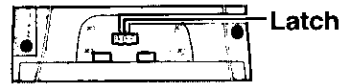
If the attached strap makes it difficult to remove the battery pack cover, unbuckle the strap and then remove the cover.

- (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.

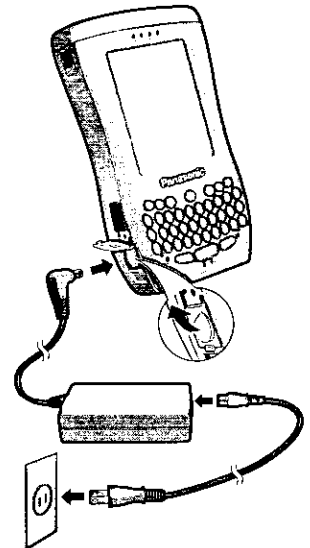


2 Connect your computer to a power outlet.

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 use-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.


Reset 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.

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.

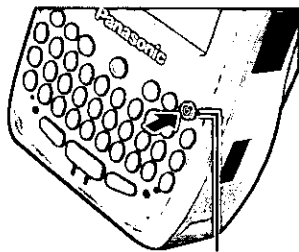
This concludes the first-time use operation guidelines.

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 sec-
onds)

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

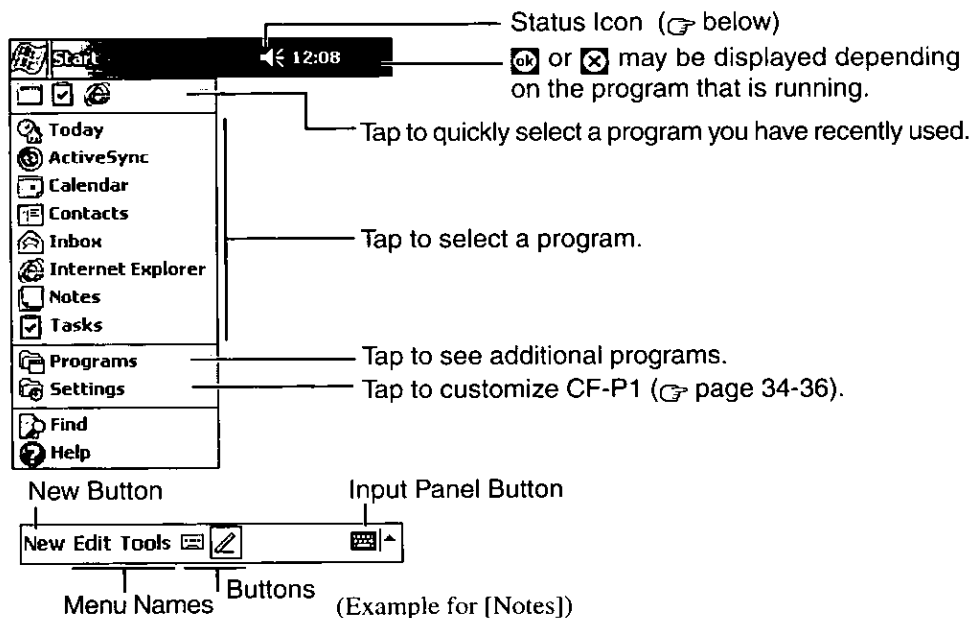
When the backlight is on, more power is consumed, and the shortening of the operating time is accelerated.

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.




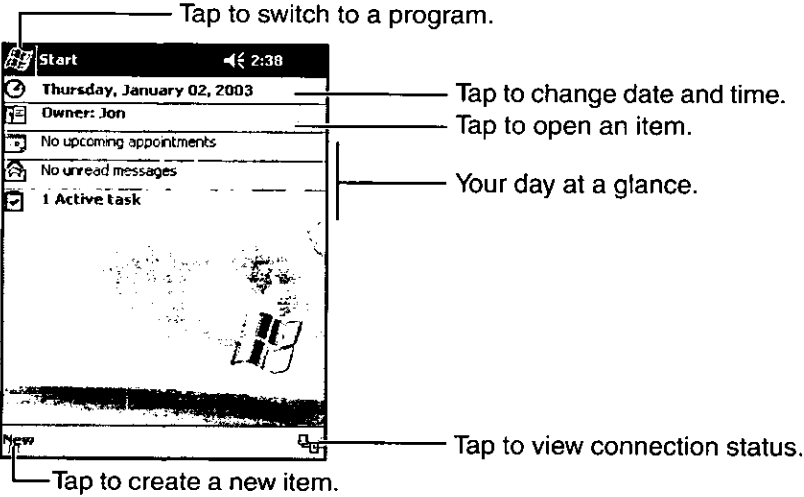
Following are some of the status icons you may see.

Status Icon & Meaning	
Turn all sounds on and off	Connection is active
Backup battery is low	Synchronization is beginning or ending
Main battery is charging	Synchronization is occurring
Main battery is full	Notification that one or more instant messages were received
Main battery is low	Notification that one or more e-mail messages were received
Main battery is very low	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.

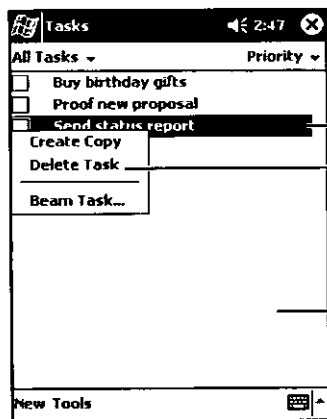
*To change the setting, tap  - [Settings] - [Personal] tab - [Today] - [Items] tab.



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 menu 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.



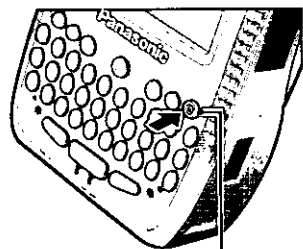
Tap and hold to display the pop-up menu.

Lift the stylus and tap the action you want.

Tap outside the menu to close it 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 

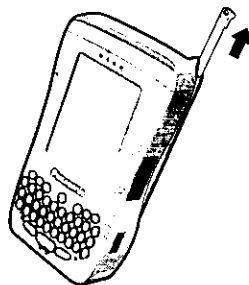
CAUTION

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.

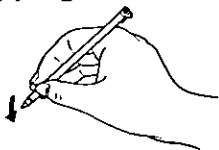
LCD (Touchscreen)

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.

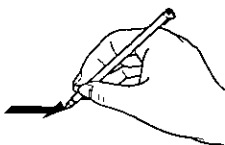


Tapping



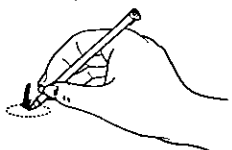
You can select an item on the screen by tapping it with the stylus. This operation is called a “tap”.

Dragging



You can drag on 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.


LCD (Touchscreen)

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].

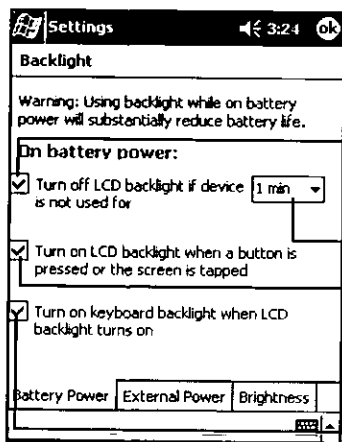
LCD Backlight ON/OFF

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.



(Example for [Battery Power])

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*¹ or symbol*¹ 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.*²
- Draw pictures on the screen.*²
- Speak into the internal microphone to record a message.*²
- 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).

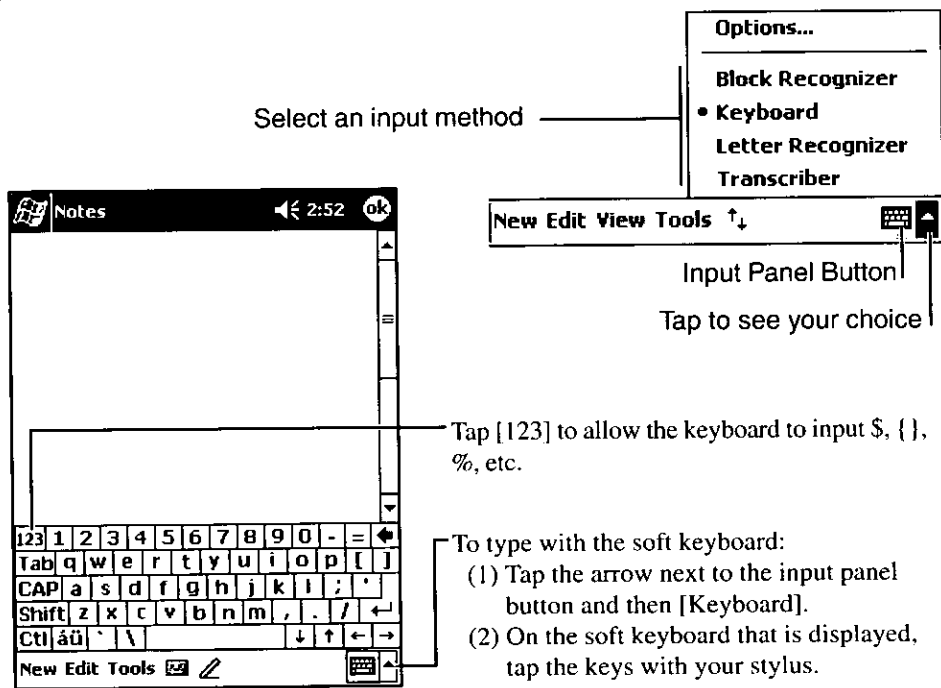
*¹ Only for the CF-P1S3 series.

*² For more information, tap  - [Help] - [Settings] - [Input].

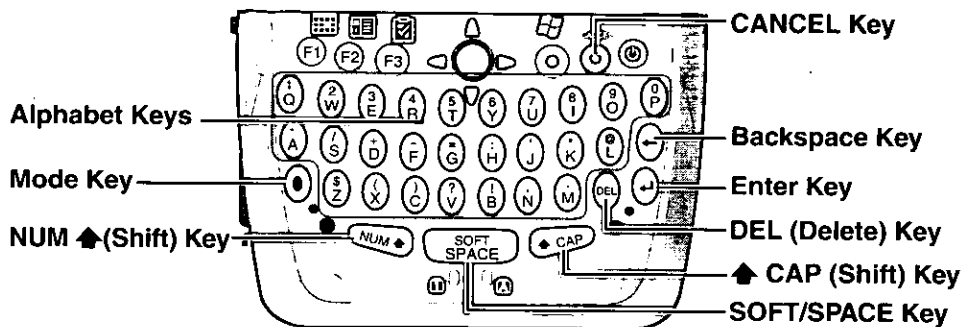
Using the Input Panel

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>



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.



NUM ↗ (Shift) Key

- Each time the Mode key + NUM ↗ 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 ↗ 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.

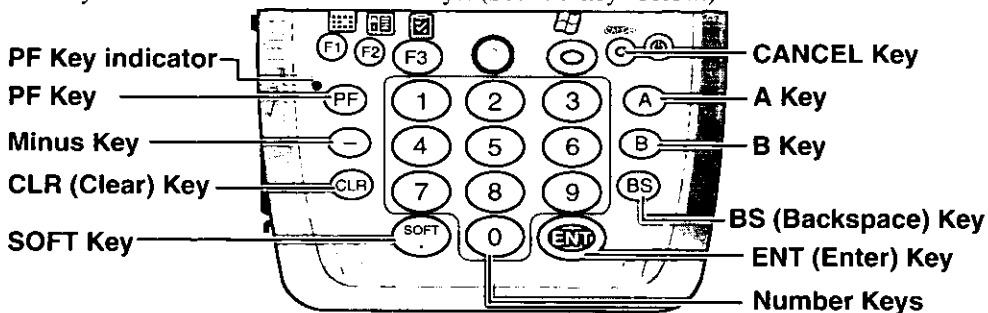
CANCEL Key

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 0 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.

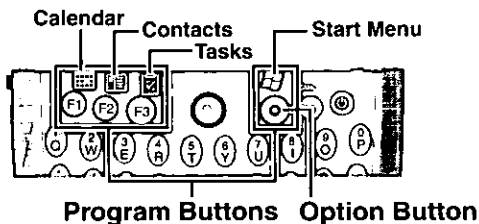
A Key: This operates as an 11th function key.

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

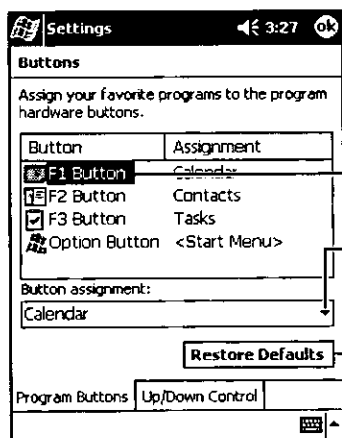
Programs are assigned to the program buttons at the time of purchase.

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

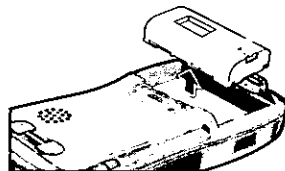
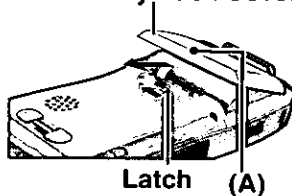
- (1) Power off your computer.
- (2) Turn your computer over.
- (3) Press position (A) to depress the battery pack cover and then slide the latch, and remove the battery pack cover.

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.

Battery Pack Cover



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

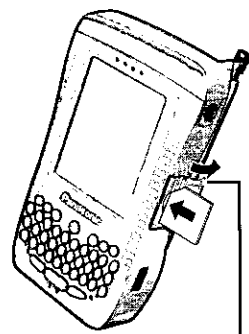
Slide the card in until it snaps into place as shown in the illustration.

- 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.

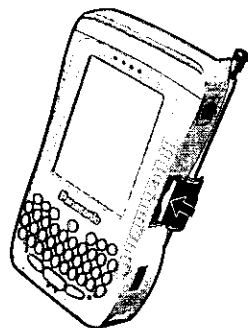
Removing

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

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



SD Memory Card/
MultiMedia Card Slot



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.

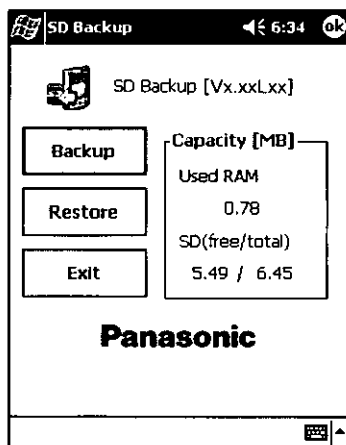
Backup

- 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

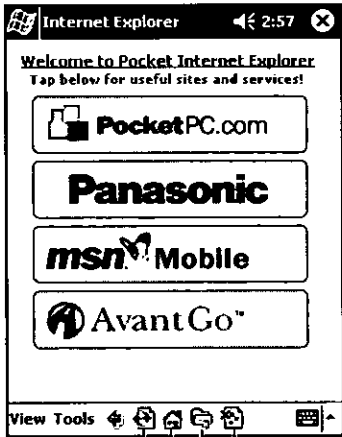
- (1) Tap  - [Settings] - [Connections] tab - [Connections] in order.
- (2) Select [Internet Settings] from the first drop-down menu and tap [Modify].
- (3) Tap [Modem] tab - [New...].
- (4) Enter the necessary user information.

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].



- Hide Pictures Button
- Favorites Button
- Home Button
- Refresh Button

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.

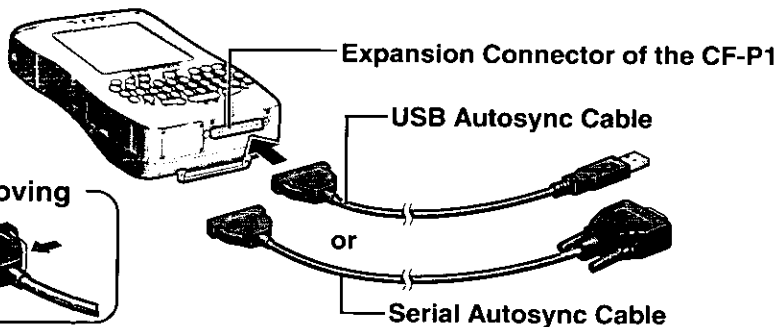
CAUTION

While performing communications, avoid the following:

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

When Connecting the CF-P1 Directly with a Computer

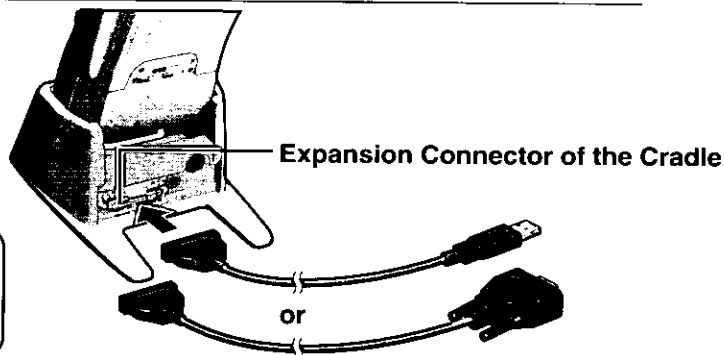
Using a Connector Protector (optional: CF-VCCP11U) is recommended to connect CF-P1 with an external device firmly.



Removing



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



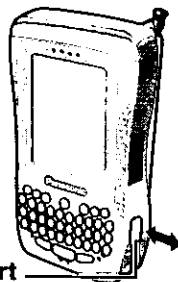
Removing



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

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-PI 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.

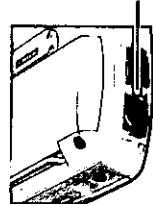
If possible, turn off the computer and push the reset switch.

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].

Dealing with Problems

Troubleshooting

Starting Up

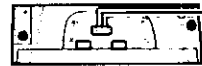
CF-P1 does not turn on. Or, there is no display when CF-P1 is turned on.

- 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.
-

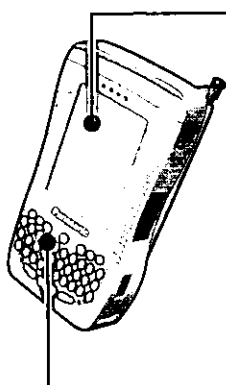
Sounds

- 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*1	Approx. 8 hours - 24 hours
		Charging Time*1	Approx. 3 hours
	Sub-Battery	Lithium Rechargeable Backup Battery	
AC Adaptor**2		Input	100 V - 240 V AC, 50 Hz/60 Hz
		Output	15.1 V DC, 2.6 A
Power Consumption*3		Approx. 17 W*4 / Approx. 40 W (maximum when re-charging in the ON state)	
Operating System		Microsoft® Windows® Powered Pocket PC 2002	

*1 Varies depending on the usage conditions, frontlight on/off, etc.

*2 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.

*3 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.

*4 Rated power consumption.

Specifications

Environment	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)
Physical Dimensions (W x H x D)	98 mm x 41 mm x 173 mm {3.9 " x 1.6 " x 6.8 "} (excluding the strap)		
Weight	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

LIMITED USE LICENSE AGREEMENT

THE SOFTWARE PROGRAM(S) ("PROGRAMS") FURNISHED WITH THIS PANASONIC® PRODUCT ("PRODUCT") ARE LICENSED ONLY TO THE END-USER ("YOU"), AND MAY BE USED BY YOU ONLY IN ACCORDANCE WITH THE LICENSE TERMS DESCRIBED BELOW. YOUR USE OF THE PROGRAMS SHALL BE CONCLUSIVELY DEEMED TO CONSTITUTE YOUR ACCEPTANCE OF THE TERMS OF THIS LICENSE.

Matsushita Electric Industrial Co., Ltd. ("MEI") has developed or otherwise obtained the Programs and hereby licenses their use to you. You assume sole responsibility for the selection of the Product (including the associated Programs) to achieve your intended results, and for the installation, use and results obtained therefrom.

LICENSE

- A. MEI hereby grants you a personal, non-transferable and non-exclusive right and license to use the Programs in accordance with the terms and conditions stated in this Agreement. You acknowledge that you are receiving only a LIMITED LICENSE TO USE the Programs and related documentation and that you shall obtain no title, ownership nor any other rights in or to the Programs and related documentation nor in or to the algorithms, concepts, designs and ideas represented by or incorporated in the Programs and related documentation, all of which title, ownership and rights shall remain with MEI or its suppliers.
- B. You may use the Programs only on the single Product which was accompanied by the Programs.
- C. You and your employees and agents are required to protect the confidentiality of the Programs. You may not distribute or otherwise make the Programs or related documentation available to any third party, by time-sharing or otherwise, without the prior written consent of MEI.
- D. You may not copy or reproduce, or permit to be copied or reproduced, the Programs or related documentation for any purpose, except that you may make one (1) copy of the Programs for backup purposes only in support of your use of the Programs on the single Product which was accompanied by the Programs. You shall not modify, or attempt to modify, the Programs.
- E. You may transfer the Programs and license them to another party only in connection with your transfer of the single Product which was accompanied by the Programs to such other party. At the time of such a transfer, you must also transfer all copies, whether in printed or machine readable form, of every Program, and the related documentation, to the same party or destroy any such copies not so transferred.
- F. You may not remove any copyright, trademark or other notice or product identification from the Programs and you must reproduce and include any such notice or product identification on any copy of any Program.

YOU MAY NOT REVERSE ASSEMBLE, REVERSE COMPILE, OR MECHANICALLY OR ELECTRONICALLY TRACE THE PROGRAMS, OR ANY COPY THEREOF, IN WHOLE OR IN PART.

YOU MAY NOT USE, COPY, MODIFY, ALTER, OR TRANSFER THE PROGRAMS OR ANY COPY THEREOF, IN WHOLE OR IN PART, EXCEPT AS EXPRESSLY PROVIDED IN THE LICENSE.

IF YOU TRANSFER POSSESSION OF ANY COPY OF ANY PROGRAM TO ANOTHER PARTY, EXCEPT AS PERMITTED IN PARAGRAPH E ABOVE, YOUR LICENSE IS AUTOMATICALLY TERMINATED.

TERM

This license is effective only for so long as you own or lease the Product, unless earlier terminated. You may terminate this license at any time by destroying, at your expense, the Programs and related documentation together with all copies thereof in any form. This license will also terminate effective immediately upon occurrence of the conditions therefore set forth elsewhere in this Agreement, or if you fail to comply with any term or condition contained herein. Upon any such termination, you agree to destroy, at your expense, the Programs and related documentation together with all copies thereof in any form.

YOU ACKNOWLEDGE THAT YOU HAVE READ THIS AGREEMENT, UNDERSTAND IT AND AGREE TO BE BOUND BY ITS TERMS AND CONDITIONS. YOU FURTHER AGREE THAT IT IS THE COMPLETE AND EXCLUSIVE STATEMENT OF THE AGREEMENT BETWEEN US, WHICH SUPERSEDES ANY PROPOSAL OR PRIOR AGREEMENT, ORAL OR WRITTEN, AND ANY OTHER COMMUNICATIONS BETWEEN US, RELATING TO THE SUBJECT MATTER OF THIS AGREEMENT.

Contrat de licence d'usage limité

Le(s) logiciel(s) (les "Logiciels") fournis avec ce produit Panasonic® (le "Produit") sont exclusivement concédés en licence à l'utilisateur ultime ("vous"), et ils ne peuvent être utilisés que conformément aux clauses contractuelles ci-dessous. En utilisant les logiciels, vous vous engagez de manière définitive à respecter les termes, clauses et conditions des présentes.

Matsushita Electric Industrial Co., Ltd. ("MEI") a mis au point ou obtenu les Logiciels et vous en concède l'utilisation par les présentes. Vous assumez l'entière responsabilité du choix de ce Produit (y compris des Logiciels associés) pour obtenir les résultats escomptés, ainsi que de l'installation, de l'utilisation et des résultats obtenus.

Licence

- A. MEI vous octroie par les présentes le droit et la licence personnels, non cessibles et non exclusifs d'utiliser les Logiciels conformément aux termes, clauses et conditions de ce Contrat. Vous reconnaissez ne recevoir qu'un droit limité d'utiliser les Logiciels et la documentation les accompagnant et vous vous engagez à n'obtenir aucun droit de titre, propriété ni aucun autre droit vis-à-vis des Logiciels et de la documentation les accompagnant ni vis-à-vis des algorithmes, concepts, dessins, configurations et idées représentés par ou incorporés dans les Logiciels et la documentation les accompagnant, dont les titres, propriété et droits resteront tous à MEI ou à leurs propriétaires.
- B. Vous ne pouvez utiliser les Logiciels que sur le Produit unique qui est accompagné par les Logiciels.
- C. Vous et vos employés ou agents êtes requis de protéger la confidentialité des Logiciels. Vous ne pouvez ni distribuer ni mettre les Logiciels et la documentation les accompagnant à la disposition d'un tiers, par partage de temps ou de quelque autre manière que ce soit, sans l'autorisation écrite préalable de MEI.
- D. Vous ne pouvez ni copier ni reproduire ni permettre la copie ni la reproduction des Logiciels ni de la documentation les accompagnant pour quelque fin que ce soit, à l'exception d'une (1) copie des Logiciels à des fins de sauvegarde uniquement pour soutenir votre utilisation des Logiciels sur le Produit unique qui est accompagné par les Logiciels. Vous ne pouvez ni modifier ni tenter de modifier les Logiciels.
- E. Vous ne pouvez céder les Logiciels et en octroyer la licence à une autre partie qu'en rapport avec votre cession du Produit unique qui est accompagné par les Logiciels à cette autre partie. Au moment de cette cession, vous devez céder également toutes les copies, que ce soit sous forme imprimée ou lisible par la machine, de tous les Logiciels ainsi que de la documentation les accompagnant, à la même partie ou détruire les copies non cédées.
- F. Vous ne pouvez retirer aucune marque de droits d'auteur, marque ou autre ni aucune identification de produit des Logiciels et vous devez reproduire et inclure toutes ces notices ou identifications de produit sur toutes les copies des Logiciels.

Vous ne pouvez assembler en sens inverse, compiler en sens inverse ni retracer les Logiciels ni aucune de leurs copies, de façon électronique ou mécanique, en tout ou en partie.

Vous ne pouvez utiliser, copier, modifier, altérer ni céder les Logiciels ni aucune de leurs copies, en tout ou en partie, à l'exception de ce qui est expressément stipulé dans ce contrat.

Si vous cédez la possession de toute copie ou de tout Logiciel à une autre partie, à l'exception de ce qui est autorisé au paragraphe E ci-dessus, votre licence est automatiquement résiliée.

Termes, clauses et conditions

Cette licence n'est effective que pour la durée de possession ou de crédit-bail du Produit, à moins d'une résiliation antérieure. Vous pouvez résilier cette licence à tout moment en détruisant, à vos frais, les Logiciels et la documentation les accompagnant avec toutes leurs copies, sous quelque forme que ce soit. Cette licence sera également résiliée, avec application immédiate, si les conditions de résiliation définies ailleurs dans ce contrat se sont réalisées ou si vous ne respectez pas les termes, clauses et conditions qui y sont contenues. Au moment de la résiliation, vous acceptez de détruire, à vos frais, les Logiciels et la documentation les accompagnant avec toutes leurs copies, sous quelque forme que ce soit.

Vous reconnaissez avoir lu ce contrat, en avoir compris toute la substance et avoir accepté de respecter ses termes, clauses et conditions. Vous reconnaissez en outre qu'ils sont la description complète et exclusive du contrat conclu entre nous, contrat qui remplace et annule toute proposition ou contrat précédent, écrit ou oral, et toute autre communication entre nous, relativement à l'objet du présent contrat.

LIMITED WARRANTY (For U.S.A.)

PANASONIC PERSONAL COMPUTER AND PERIPHERALS LIMITED WARRANTY

Panasonic Computer Solutions Company (referred to as "Panasonic") will repair this product (other than software, which is covered by a separate warranty) with new or rebuilt parts, free of charge in the U.S.A. for one (1) year from the date of original purchase in the event of a defect in materials or workmanship.

This warranty is extended solely to the original purchaser. A purchase receipt or other proof of date of original purchase will be required before warranty performance is rendered.

This warranty only covers failures due to defects in materials or workmanship which occur during normal use. It does not cover damage which occurs in shipment or failures which are caused by products not supplied by Panasonic, or failures which result from alteration, accident, misuse, introduction of liquid or other foreign matter into the unit, abuse, neglect, installation, maladjustment of consumer controls, improper maintenance, modification or service by anyone other than a Factory Service Center or authorized Panasonic Service Dealer, or damage that is attributable to acts of God.

Limits and Exclusions:

There are no other express warranties except as listed below.

PANASONIC SHALL NOT BE LIABLE FOR LOSS OF DATA OR OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE. Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you.

This limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state. If a problem with your product develops during or after the warranty period, you may contact our representatives at 1-800-LAPTOP5. If the problem is not handled to your satisfaction, then write to the Consumer Affairs Division at the address indicated below.

SOFTWARE LIMITED WARRANTY

Panasonic Computer Solutions Company (referred to as "Panasonic") warrants to you only that the disk(s) or other media on which the Programs are furnished will be free from defects in materials and workmanship under normal use for a period of sixty (60) days from the date of delivery thereof to you, as evidenced by your purchase receipt.

This is the only warranty Panasonic makes to you. Panasonic does not warrant that the functions contained in the Programs will meet your requirements or that the operation of the Programs will be uninterrupted or error free.

Panasonic's entire liability, and your exclusive remedy under this warranty shall be limited to the replacement, in the United States, of any defective disk or other media which is returned to Panasonic's Authorized Service Center, together with a copy of the purchase receipt, within the aforesaid warranty period.

Anything in the foregoing to the contrary notwithstanding, Panasonic shall have no obligation for any defects in the disk(s) or other media on which the Programs are furnished resulting from your storage thereof, or for defects that have been caused by operation of the disk(s) or other media otherwise than on the Product or in environmental conditions other than those specified by alteration, accident, misuse, abuse, neglect, mishandling, misapplication, installation, maladjustment of consumer controls, improper maintenance, modification of damage that is attributable to acts of God. In addition, Panasonic shall have no obligation for any defects in the disk(s) or other media if you have modified, or attempted to modify any Program.

DURATION OF IMPLIED WARRANTIES, IF ANY, IS LIMITED TO SIXTY (60) DAYS.

PANASONIC ASSUMES NO RISK OF AND SHALL NOT IN ANY CASE BE LIABLE FOR ANY DAMAGES, INCLUDING, WITHOUT LIMITATION, ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR PUNITIVE DAMAGES ARISING FROM BREACH OF WARRANTY OR CONTRACT, NEGLIGENCE OR ANY OTHER LEGAL THEORY, INCLUDING, WITHOUT LIMITATION, LOSS OF GOODWILL, PROFITS OR REVENUE, LOSS OF USE OF THE PROGRAMS OR PRODUCTS OR ANY ASSOCIATED EQUIPMENT, COST OF CAPITAL, COST OF ANY SUBSTITUTE EQUIPMENT, FACILITIES, SERVICES, DOWNTIME COSTS, OR CLAIMS OF ANY PARTY DEALING WITH YOU FOR SUCH DAMAGES.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you.

This limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

This Limited Warranty will be governed by the laws the State of New York, without regard to its conflict-of-laws rules.

* * *

To obtain service or technical assistance within the continental U.S.A. and Alaska.

DIAL TOLL FREE: 1-800-LAPTOP5

Correspondence requesting product information should be sent to:
Panasonic Computer Solutions Company
50 Meadowlands Parkway, Panazip 2F-5, Secaucus, NJ 07094

LIMITED WARRANTY (For Canada)

PANASONIC COMPUTER AND PERIPHERALS LIMITED WARRANTY

Coverage – Panasonic Canada Inc. ("PCI") warrants to you, the first end user customer, this computer product (excluding software media), when purchased from PCI or from a PCI authorized reseller, to be free from defects in materials and workmanship under normal use, subject to the terms set forth below, during the period of warranty coverage specified.

Scope of Coverage	Period of Coverage	Type of Failure Coverage
Whole Product (except Batteries), AC adaptor and CD-ROM (if factory installed)	Three (3) Years from Date of Original End User Customer Purchase	Defective Materials or Workmanship
Batteries, CD-ROM (unless factory installed), Port Replicator, Extra Memory Modules and all other Peripherals, Options and Accessories	One (1) Year from Date of Original End User Customer Purchase	Defective Materials or Workmanship

Remedy – In the event of a warranty claim, contact PCI's representatives within the applicable warranty period, identifying the nature of the defect claimed, at 1-800-668-8386 between 9:00 A.M. and 5:00 P.M., Eastern Time Zone, Mon. – Fri. (excluding holidays) for instructions on how to obtain service. A purchase receipt or other proof of date of original purchase is required before warranty service is performed. Defective parts covered by this Limited Warranty will be repaired or replaced with new or comparable rebuilt parts on an exchange basis. Warranty replacement or repair is subject to the terms of this Limited Warranty for the balance of the original period of warranty coverage.

No Coverage – This Limited Warranty does not cover products purchased outside Canada. Neither does it cover damage to, failure of, or defects in a product or accessory through mishandling, improper installation, abnormal use, misuse, neglect, accident, introduction of liquid or other foreign matter into the product, alteration or servicing by anyone not authorized by PCI, or act of God.

IF YOU SHIP THE PRODUCT FOR WARRANTY SERVICE

Carefully pack the product, preferably in the original carton. Include details of defect claimed and proof of date of original purchase. No liability is assumed for loss or damage to the product while in transit, if you chose your own transportation carrier.

SOFTWARE MEDIA LIMITED WARRANTY

Coverage – Panasonic Canada Inc. ("PCI") warrants to you, the first end user customer, that the disk(s) or other media on which software program(s) is/are supplied will be free from defects in materials and workmanship under normal use in Canada for a period of sixty (60) days from date of receipt as evidenced by your purchase receipt for your Panasonic Computer product.

THIS IS THE ONLY WARRANTY THAT PCI MAKES RESPECTING THE SOFTWARE MEDIA. PCI does not warrant the software. Please refer to the software licensor's written warranty (accompanying the copy of the software) for any software warranty claim.

Claim Procedure – In the event of a defect in material or workmanship in the media during the sixty (60) day warranty period, and you return it, transportation costs prepaid, to Panasonic Canada Inc., Computer Products Marketing, at the above address, within the warranty period, together with a copy of your purchase receipt, and an explanation of the suspected defect, PCI will replace in Canada the defective disk(s) or other media.

Remedy – PCI's entire liability, and your only remedy for any breach of this software media warranty is limited to replacement of the media only. It does not cover any other damages, including, but not limited to, loss of use or profit loss, or special, indirect or consequential damages, or other claims, whether or not of similar character.

No Coverage – This limited warranty does not apply if the disk(s) or other media has been used in other than a Panasonic product, or in environmental conditions other than those specified by PCI or the manufacturer, or if subjected to misuse, neglect, mishandling, modification or attempted modification of the program, or if damaged by accident or act of God. PCI is not responsible for damage to or loss of any program, data or removable storage media.

GENERAL

NO OTHER WARRANTIES – PCI DISCLAIMS ALL OTHER WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WITH RESPECT TO THE SOFTWARE, SOFTWARE MEDIA, COMPUTER PRODUCT, OPTIONS AND ACCESSORIES.

NO LIABILITY FOR CONSEQUENTIAL DAMAGES – IN NO EVENT SHALL PCI BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES ARISING FROM ANY BREACH OF THE LIMITED WARRANTIES SET OUT IN THIS DOCUMENT, OR FROM THE USE OF THE COMPUTER PRODUCT, INCLUDING, WITHOUT LIMITATION, LOSS OF DATA, BUSINESS, PROFIT OR GOODWILL.

IN ANY EVENT, PCI'S MAXIMUM LIABILITY FOR ANY BREACH SHALL NOT EXCEED THE AMOUNT ACTUALLY PAID BY YOU FOR THE COMPUTER PRODUCT.

NO ACTION, REGARDLESS OF ITS BASIS, MAY BE BEGUN AGAINST PCI MORE THAN TWO (2) YEARS AFTER THE CAUSE OF ACTION AROSE.

Statutory Warranties – Some jurisdictions do not allow these limitations or exclusions, so they may not apply to you.

Copyright

This manual is copyrighted by Matsushita Electric Industrial Co., Ltd. with all rights reserved. No part of this manual may be reproduced in any form without the prior written permission of Matsushita Electric Industrial Co., Ltd.

No patent liability is assumed with respect to the use of the information contained herein.

©2003 Matsushita Electric Industrial Co., Ltd. All Rights Reserved.

Disclaimer

Computer specifications and manuals are subject to change without notice. Matsushita Electric Industrial Co., Ltd. assumes no liability for damage incurred directly or indirectly from errors, omissions or discrepancies between the computer and the manuals.

Trademarks

Microsoft®, Windows®, Windows NT®, Outlook® and ActiveSync® are registered trademarks of Microsoft Corporation of the United States and/or other countries.

Intel® and Pentium® are registered trademarks of Intel Corporation.

Panasonic® is a registered trademark of Matsushita Electric Industrial Co., Ltd.

Panasonic Computer Solutions Company

50 Meadowlands Parkway, Panazip 2F-5,
Secaucus, NJ 07094

Panasonic Canada Inc.

5770 Ambler Drive Mississauga,
Ontario L4W 2T3

© 2003 Matsushita Electric Industrial Co., Ltd. All Rights Reserved.
Printed in Japan

SS0203-0
DFQX5388ZA

