Panasonic ®

Handheld Computer
OPERATING INSTRUCTIONS

Model No. CF-P1 Series

TOUGHBOOK

CE

Contents

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

* For the Model No., insert the 12 digit number (for example, CF-P1S3BZZ3M) 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.
[Start] - [Programs]:	This illustration means to tap [Start], then to tap [Programs]. (For some applications, you may need to double-tap.)
(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♠] 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.

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 accessory stylus has been stored to the computer (☞ page 15).

AC Adaptor 1	AC Cord 1	Battery Pack 1
Model No: CF-AA1527		Model No: CF-VZSU22
Cradle 1	Strap 1	Operating Instructions ... 1
Model No: CF-VEBP1		(this book)

2

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- 810E (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 sub-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/Multi Media Cards and carry them with you.

Precautions

Peripherals

Incorrectly using peripheral devices may lead to a decrease in performance, an increase in temperature and/or damage your computer.

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.

● This computer prevents overcharging of the battery by recharging only when the remaining power is less than approx. 95% of capacity.

● 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.

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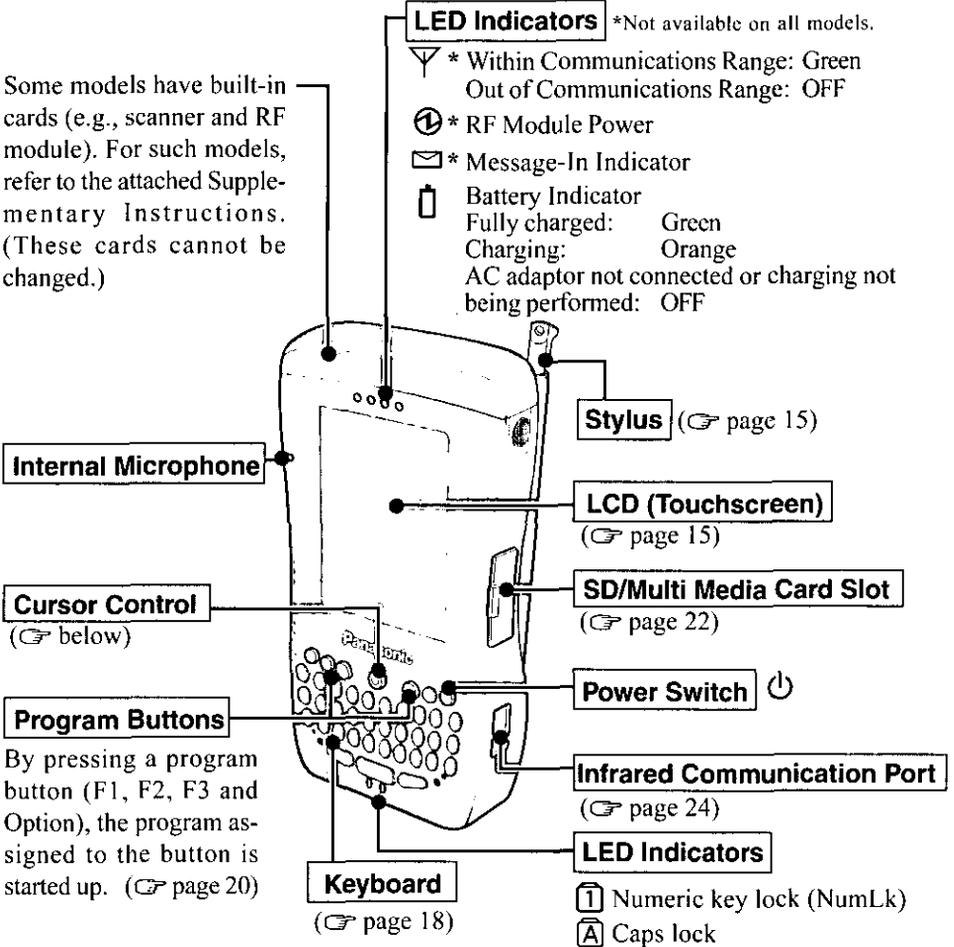
A lithium ion battery that is recyclable powers the product you have purchased. Please call 1-800-8-BATTERY for information on how to recycle this battery.

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.

Names and Functions of Parts

The illustrations shown may differ from the actual physical appearances.

LED Indicators *Not available on all models.

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

Y * Within Communications Range: Green
Out of Communications Range: OFF

@ * RF Module Power

☐ * Message-In Indicator

🔋 Battery Indicator
Fully charged: Green
Charging: Orange
AC adaptor not connected or charging not being performed: OFF

Stylus (☞ page 15)

Internal Microphone

LCD (Touchscreen)
(☞ page 15)

Cursor Control
(☞ below)

SD/Multi Media Card Slot
(☞ page 22)

Power Switch ⏻

Program Buttons

By pressing a program button (F1, F2, F3 and Option), the program assigned to the button is started up. (☞ page 20)

Infrared Communication Port
(☞ page 24)

LED Indicators

Keyboard
(☞ page 18)

[1] Numeric key lock (NumLk)
[A] Caps lock

Cursor Control

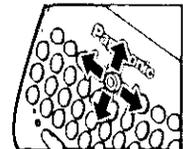Using the cursor control, the following operations can be performed.
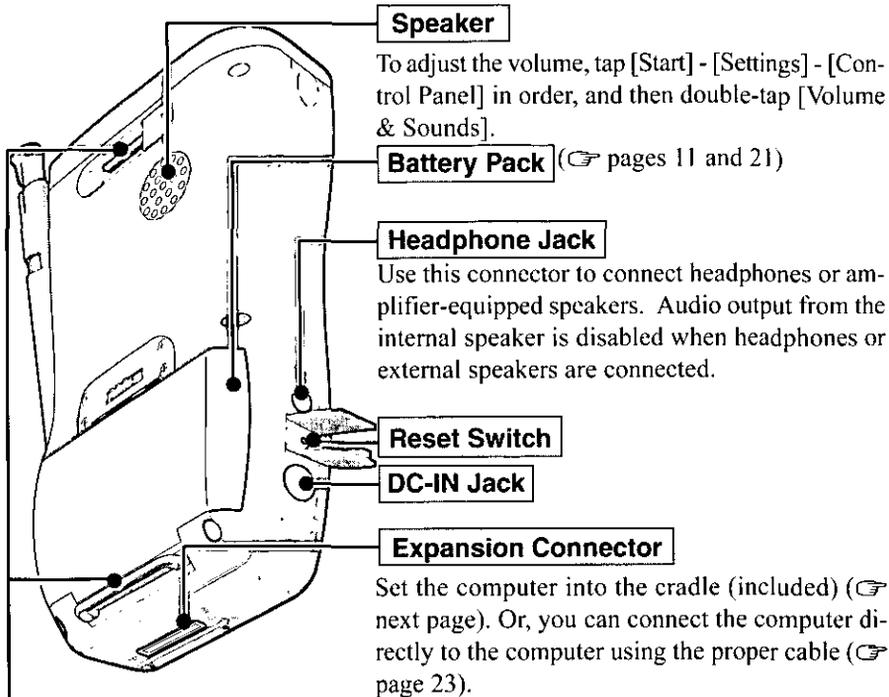
"Push" Operation:

Performs the same function as the Enter key of the computer. For example, after an item within a menu is selected, the cursor control can be pushed to execute this selected item.
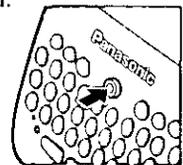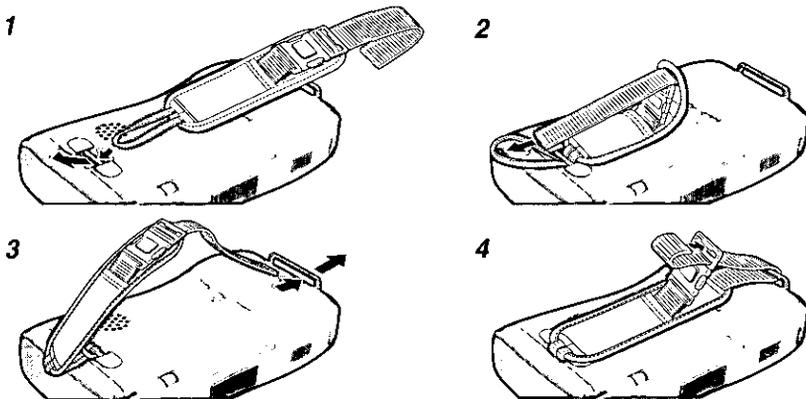
"Move Up/Down Right/Left" Operations:

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

Speaker

To adjust the volume, tap [Start] - [Settings] - [Control Panel] in order, and then double-tap [Volume & Sounds].

Battery Pack (☞ pages 11 and 21)

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

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 23).

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.

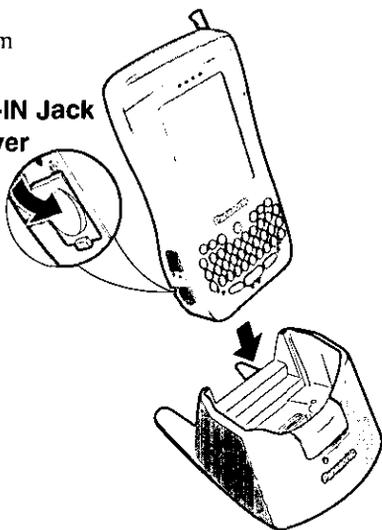● Do not use a strap that is damaged or about to tear.

Names and Functions of Parts

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.
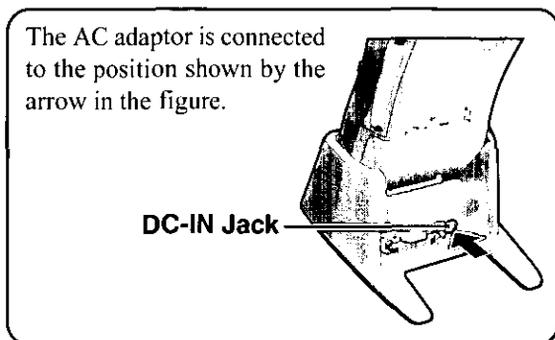
DC-IN Jack

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) Slide the latch and remove the battery pack cover.
   If it is difficult to slide the latch, press position (A) and
   then slide the latch.

Battery Pack Cover

Latch (A)

Arrow Mark

> **NOTE**
>
> If the attached strap makes it difficult to remove the
> battery pack cover, unbuckle the strap and then re-
> move the cover.
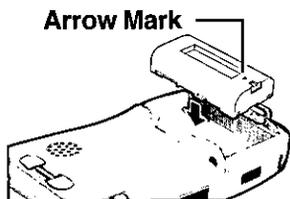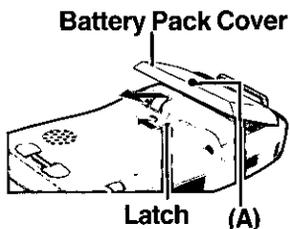
(3) Set the arrow mark of the battery in the direction shown
   in the figure, and then insert the battery pack into the
   battery pack compartment.

(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. Slide the latch to lock the cover.
   If it is difficult to slide the latch, press position (A) and
   then slide the latch.

(A)

> **NOTE**
>
> After attaching the battery pack cover, slide
> the latch all the way to the left.   **Latch**
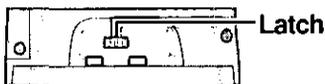
2 Connect your computer to a power outlet.

When the AC adaptor is connected to the computer, charg-
ing 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. 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**
>
> ● If you remove your lithium-ion battery before the
> lithium-ion battery is fully charged, data may be lost.
> For this reason, do not remove the battery within the
> first 24 hours of use.
> ● The [Backup Battery Very Low] message is displayed
> until the backup battery is sufficiently charged.
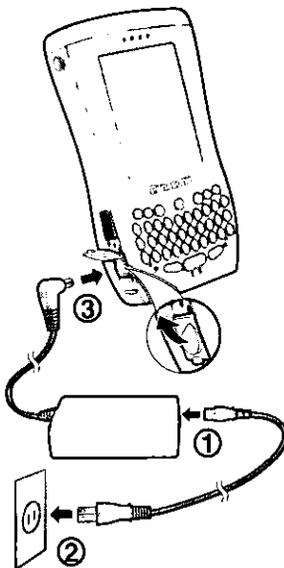
First-time Operation

● After the cover is closed, press down firmly on the cover and con-
firm 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.

3 Turn your computer on

(1) Push the reset switch using the stylus.

(2) At the confirmation message, press (Y).
The Windows* calibration screen is displayed.

(3) Calibrate the touchscreen.
(For calibration, tapping operations are required. For informa-
tion on tapping, refer to page 15.)

"+" 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.

After the calibration procedure is executed (i.e., after the five
"+" marks are touched), the procedure ends when (←┘) is pressed.

(4) ● When inputting all information (Date, time, and time zone):
1) Input the time zone and tap [Apply].
2) Input the date and time, and tap [Apply] or [OK].
When you input the time zone and tap [Apply], the date and time will automati-
cally be adjusted to accommodate the time difference.
For this reason, if the date and time are input first, it will be necessary to reset the
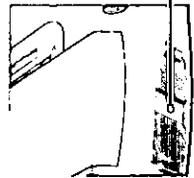date and time after the time zone has been set.

● When inputting date and time only:
Input the date and time, and tap [Apply] or [OK].

(5) Adjust the LCD brightness. (☞page 16)

* This computer uses Microsoft® Windows® CE Operating System.

Reset Switch

Carefully press and briefly hold stylus
on the center of the target.
Repeat as the target moves
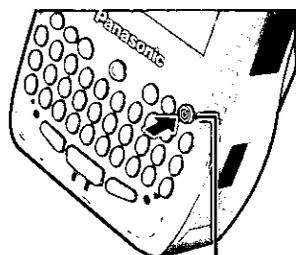around the screen.
Press the Cancel key to cancel.

+

This concludes the first-time use operation guidelines.

## Starting Up/Shutting Down

Starting Up (from the second time)

Lightly press the power switch once (within 0.5 sec.).
An application or file that was previously displayed appears on your screen.

Power Switch ⏻

Power Switch

The operation of the computer differs depending on the length of time that the power switch is pressed, as follows.

OFF

ON

Lightly press the power switch (within 0.5 sec.)
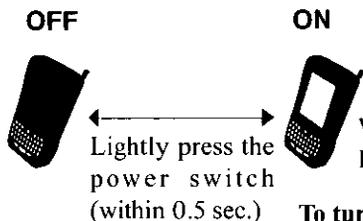
When the power switch is pressed for 0.5 sec. or less, the LCD backlight and keyboard backlight do not go on.

To turn only the LCD backlight on:

Press the power switch again and release the switch when the LCD backlight goes on. (between 0.5 - 1.0 sec.)

To turn both the LCD backlight and keyboard backlight on:

Press the power switch again, and release the power switch when the keyboard backlight goes on. (The order in which both backlights go on is as follows: LCD → keyboard.)

To turn the backlights off:

Press the power switch again and release the switch when the backlights go off (for 0.5 seconds or more).

(NOTE)

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

Starting Up/Shutting Down

[Start] Menu and Taskbar

The taskbar is displayed at the bottom of the screen.

[Start] Button ——— By tapping the button, the [Start] menu is displayed.

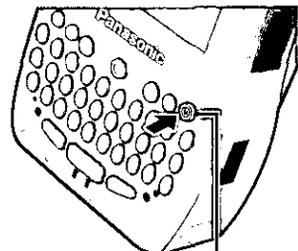Icons are displayed for programs that are running.

All windows can be minimized.

Task Tray
System information is displayed. By double-tapping an icon, the corresponding properties window is displayed.

Shutting Down (power off)

Lightly press the power switch once (within 0.5 sec.).
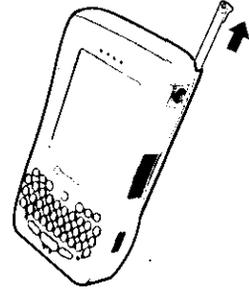CF-P1 shut down is the same as the suspend state of a computer.
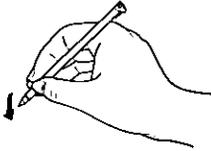
Power Switch ⏻

14

LCD (Touchscreen)

Using the Stylus

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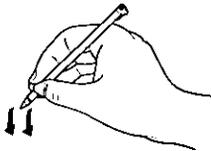following operations are possible on the touchscreen.

Tapping

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

Double-Tapping

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

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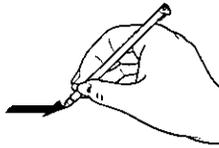
You can drag on item on the screen by holding the stylus down over
the item and then moving the stylus. This operation is called a "drag".

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 accessory stylus only on the screen. Using it for any other purpose may damage
the stylus and scratch the screen.

15

LCD (Touchscreen)

Handling the Touchscreen

- Use the stylus included with the computer. 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.
- When the LCD becomes dirty:
  Wipe lightly to remove dirty areas by using a dry soft cloth.
  Do not use benzene or thinner, or disinfectant-type alcohol.

Calibrating the Screen

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

1 **Tap [Start] - [Settings] - [Control Panel] in order, and then double-tap [Stylus].**

2 **Tap [Calibration] - [Recalibrate].**

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.
After the calibration procedure is executed (i.e., after the five "+" marks are touched), the procedure ends when ⏎ is pressed.

> Carefully press and briefly hold stylus on the center of the target.
> Repeat as the target moves around the screen.
> Press the Cancel key to cancel.
>
> +

4 **Tap [OK].**

Adjust the LCD Brightness

If the computer is operated in a dark place, the brightness of the screen can be adjusted to view the screen.

1 **Tap [Start] - [Settings] - [Control Panel] in order, and then double-tap [Backlight].**

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

3 **Tap [OK].**

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LCD Backlight ON/OFF

If the power switch is pressed for 0.5 - 1.0 sec. after the computer is turned on, the LCD backlight goes on or off.

Setting the Timeout Function of the LCD Backlight

The LCD backlight can be set to switch off automatically (e.g., for conserve power) by setting the timeout function. If the timeout function is set, the LCD backlight turns off automatically when the computer is not operated and the timeout expires. Individual settings can be made for battery use and AC adaptor use.

1 Tap [Start] - [Settings] - [Control Panel] in order, and then double-tap [Backlight].

2 Battery use setting: Tap the [Battery] tab.
AC adaptor use setting: Tap the [External] tab.
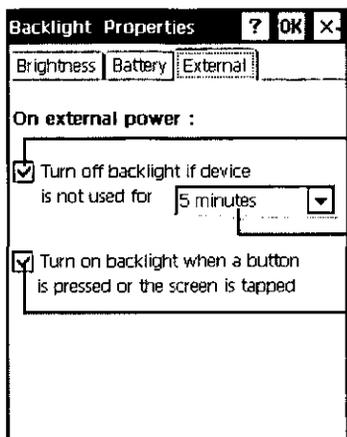
Tapping this button closes the [Backlight Properties] window without saving the changes.

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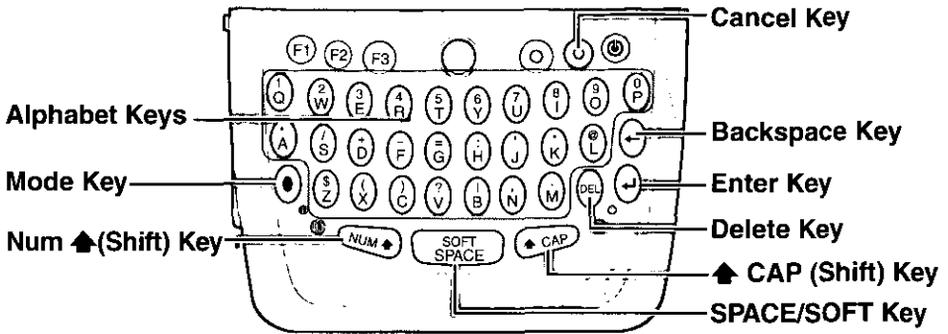Timeout

Add a check mark so that tapping the screen turns the LCD backlight on.
(Only the LCD backlight goes on when the screen is tapped.)

(Example for [External].)

3 Tap [OK].

Keyboard

Cancel Key

Alphabet Keys

Mode Key

Num ▲(Shift) Key

Backspace Key

Enter Key

Delete Key

▲ CAP (Shift) Key

SPACE/SOFT Key

Mode Key

● The keyboard operation mode can be changed by a key press made in combination with the NUM ▲ key or ▲ CAP key (see NUM ▲ key or ▲ CAP 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.

Ⓐ Ⓑ Ⓒ ●Ⓜ Ⓓ Ⓔ Ⓕ ●Ⓜ
        "."   "."
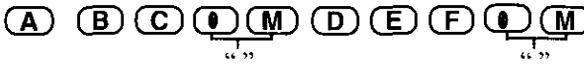
NUM ▲ (Shift) Key

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

● 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.

Cancel Key

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

Backspace Key

This key works the same as the Backspace 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, etc.

Delete Key

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

✦ CAP (Shift) Key

● Each time the Mode key + ✦ CAP key are pressed, the mode changes from the caps lock mode to the standard (non-caps) input 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.

● The operation of pushing this key alone is the same as pressing the Shift key of a computer (like the NUM ✦ key).

SPACE/SOFT Key

● Pressing this key alone inserts a space.
● When the Mode key + SPACE/SOFT key are pressed, the software keyboard is displayed at the lower part of the screen. The software keyboard allows you to input characters (like a real keyboard) by simply tapping the characters.
You can change the software keyboard settings in [Start] - [Settings] - [Control Panel] - [Input Panel].

Changing the Keyboard Repeat Settings

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

1 Tap [Start] - [Settings] - [Control Panel] in order, and then double-tap [Keyboard].

2 Tap the [Repeat] tab and choose each setting.

3 Tap [OK].

Program Buttons

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

Program Buttons

Option Button
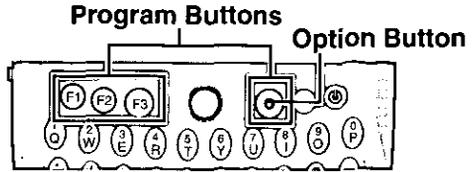
NOTE

Programs are not assigned to the program buttons at the time of purchase.

Changing the Assignment of a Program Button

1 Tap [Start] - [Settings] - [Control Panel] in order, and then double-tap [Buttons].

2 Choose each setting.
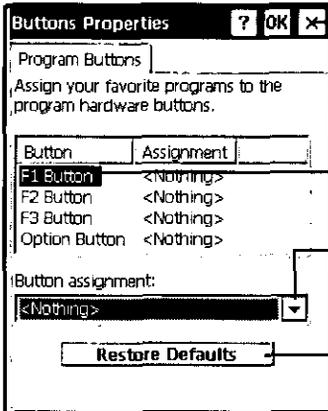
Tapping this button closes the [Buttons Properties] window without saving the changes.

Buttons Properties

Program Buttons

Assign your favorite programs to the program hardware buttons.

Button	Assignment
F1 Button	<Nothing>
F2 Button	<Nothing>
F3 Button	<Nothing>
Option Button	<Nothing>

Button assignment:

<Nothing>

Restore Defaults

(1)Tap one button.

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

If the [Restore Defaults] button is tapped, the assignments will be cancelled.

3 Tap [OK].

Battery Power

Remaining Battery

1 Tap [Start] - [Settings] - [Control Panel] in order, and then double-tap [Power].

2 Tap the [Battery] tab.

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-VZSU22).

Refer to page 11 about installing the battery pack.

> **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.
> ● 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.
> ● Use only the specified battery pack (CF-VZSU22) with your computer.

21

SD/Multi Media Card

An SD/Multi Media card can be used for the following purposes.
● The exchange of data with various devices equipped with an SD/Multi Media 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).

Installing/Removing an SD/Multi Media Card

1 **Open the SD/Multi Media card slot cover.**

2 **Installing**

Slide the card in until it snaps into place as shown in the illustration.
● Make sure the labeled face of the SD/Multi Media card is towards the front of the computer and then firmly insert the card. If you mistaken 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.
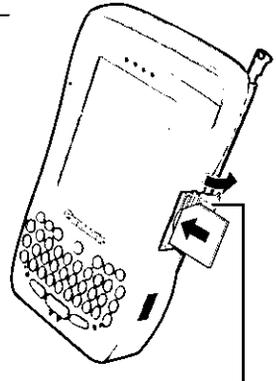
SD/Multi Media Card Slot

Removing

(1) Press the card. It will come out slightly.
(2) Remove the card.
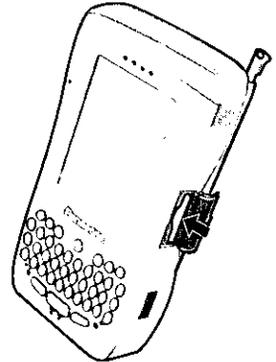
3 **Close the SD/Multi Media card slot cover.**

CAUTION

Before removing an SD/Multi Media card or powering off the computer, check to see if the computer 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 the computer only after confirming that the computer is not trying to access the card. If the card is removed or the computer is powered off during an access attempt, valuable data may be lost or the computer may fail to work properly.

Connecting to Your Computer

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

● The use of a Serial Autosync Cable or USB Autosync 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.

Using a Cable

/(CAUTION)

● For data to be exchanged between the CF-P1 and a computer, separate application soft-
ware needs to be installed on the computer.

● Be sure to connect/disconnect the cable after the CF-P1 and the computer have been
turned off.

When Connecting the CF-P1 Directly with a Computer

Expansion Connector of the CF-P1

USB Autosync Cable

Removing

or

Serial Autosync Cable
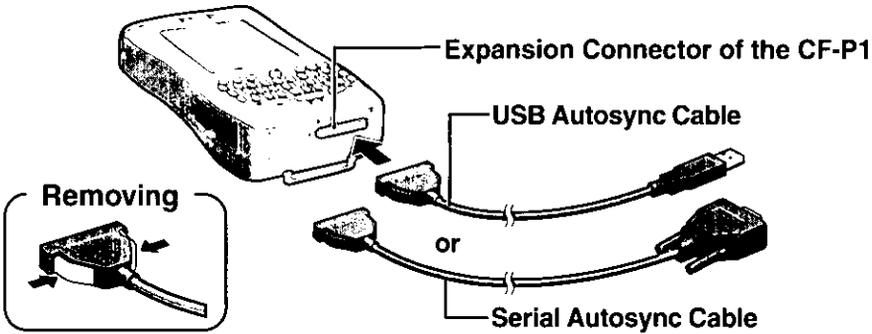
When Connecting the CF-P1 with a Computer via the Cradle

Expansion Connector of the Cradle

Removing

or
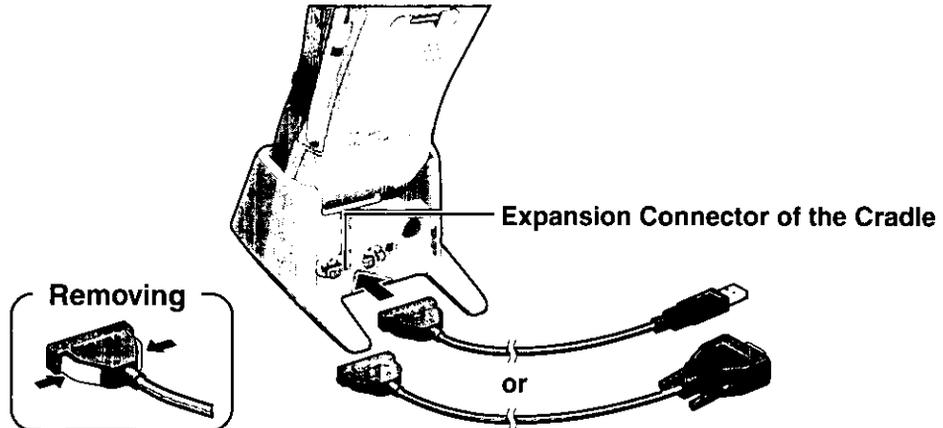
Connecting to Your Computer

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

Infrared Communication Port

Pocket Internet Explorer

You can view Web pages by using Pocket Internet Explorer. To do this, you will first need to connect to an Internet through an Internet service provider (ISP) or network.
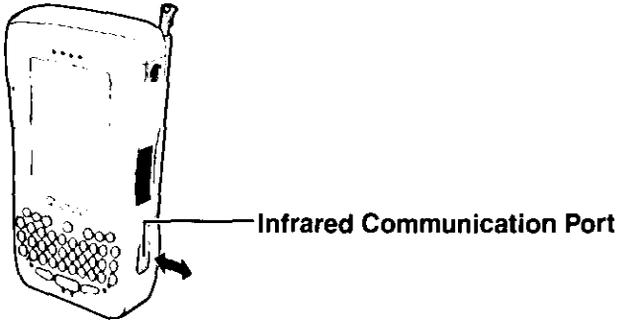
Getting Connected

(1)Tap [Start] - [Programs] - [Communication] - [Remote Networking] in order, and then double-tap [Make New Connection].

(2)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.

To run Pocket Internet Explorer

Tap [Start] - [Programs] - [Internet Explorer].
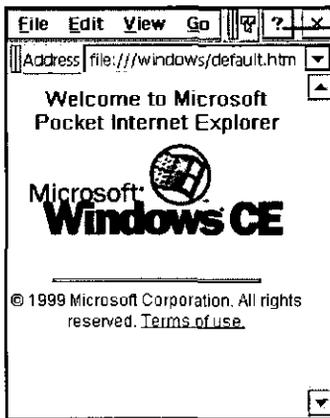
You can refer to the help file by tapping this button.

Customizing the Computer

If you want information on the various individual settings of the computer, tap [Start] - [Settings] - [Control Panel] and then double-tap the item (icon) you want to check.
(For more details about each item, you can also refer to the help file by tapping [Start] - [Help] - [Settings] or tapping [?] at the top of each Properties window.)

Backlight

Backlight

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

Buttons

Buttons

Assignment of programs for the program buttons

Communications

Communic...

Device name setting (specified name for computers connected to the computer to identify the computer) and PC connection method

Date/Time

Date/Time

Date/time setting and time zone setting

Dialing

Dialing

Dial-up method for establishing a dial-up connection

Display

Display

Desktop display (background image and color) setting

Input Panel

Input Panel

Input panel (software keyboard) setting

Keyboard

Keyboard

Adjustable time setting between the waiting time until the repetition of an input begins, and the repeat of the input (☞ page 19)

Network

Network

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

Owner

Owner

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

Password

Password enable/disable setting

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

Power

Current battery charge status, automatic power off time setting

Regional Settings

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

RF Serial

RF module* setting

* Not available on all models.

Stylus

Double-tap speed adjustment and touchscreen calibration (☞ page 16)

System

Display of system information and release version

Computer memory assignment possible (assignment of memory for data memory and memory for program execution). Tap the [Memory] tab, and then drag the slider to the desired distribution.

Volume & Sounds

Volume setting and operation sound setting

Password

Power

Regional Settings

RF Serial

Stylus

System

Volume & Sounds

Dealing with Problems

Resetting Your Computer

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

Performing a Reset

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

Unsaved data in open windows may be lost.

Push the reset switch using the stylus.

Reset Switch

Performing an All Reset

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

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

(1) Push the reset switch using the stylus while holding down on the power switch.

(2) At the confirmation message, press (Y).

(3) Calibrate the touchscreen.

(4) ● When inputting all information (Date, time, and time zone):

　　1) Input the time zone and tap [Apply].

　　2) Input the date and time, and tap [Apply] or [OK].

　　　When you input the time zone and tap [Apply], the date and time will automatically be adjusted to accommodate the time difference.

　　　For this reason, if the date and time are input first, it will be necessary to reset the date and time after the time zone has been set.

　● When inputting date and time only:

　　Input the date and time, and tap [Apply] or [OK].
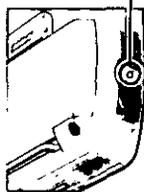
Troubleshooting

Starting Up

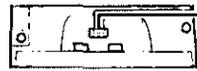|	
The computer does not turn on. Or, there is no display when the computer is turned on.	● Check to see if a fully charged battery pack is properly installed. ● The battery may need to be exchanged. ● The power does not go on unless the AC adaptor is connected: The battery level is too low. Charge the battery with the AC adaptor. (Make sure that the battery never discharges completely and that it is charged periodically.) ● Press the reset switch to restart your computer. ● Slide the latch to lock the battery pack cover all the way to the left. **Latch**
The date and time are incorrect.	● You can set the date and time through [Date/Time] in [Start] - [Settings] - [Control Panel]. ● 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 2100 A.D.
The computer shuts down automatically.	● The battery level may be too low. If the battery level goes below a certain threshold, the computer 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.	● The computer has entered a locked state. 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.

Dealing with Problems

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 for 0.5 - 1.0 sec.
	● Adjust the backlight brightness.
	  1 Tap [Start] - [Settings] - [Control Panel] in order, and then double-tap [Backlight].
	  2 Tap the [Brightness] tab and adjust the brightness with the slider.
	● Position a lamp so that the light shines directly on the screen.

The cursor cannot be controlled.	● Restart the computer by pressing the reset switch.
The cursor does not properly correspond to a stylus tap.	● Perform calibration (☞ page 16).

For Effective Use

Maintenance
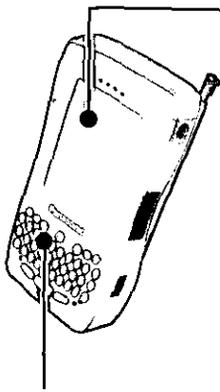
LCD

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-P1S3BZZ3M		
CPU	Intel® StrongARM* SA-1110 Microprocessor 206 MHz Instruction Cache Memory: 16 KB Data Cache Memory: 8 KB		
Memory (RAM/ROM)	32 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 keys)		
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
	Secure Digital/Multi Media Card Slot		
Interface	Infrared Communication Port	IrDA 1.2 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 44.1kHz		
Battery | **Battery Pack**	Li-ion 7.4 V, 1.4 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® CE 3.0		

*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.

Environment	In use	Temperature	-20 °C to 50 °C {-4 °F to 122 °F}
		Humidity	30% to 80% RH (No condensation)
	Not in use	Temperature	-25 °C to 60 °C {-13 °F to 140 °F}
		Humidity	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. 480 g {Approx. 1 lb.} (excluding the strap)		

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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.

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Scope of Coverage	Period of Coverage	Type of Failure Coverage
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