



# Panasonic®

## Personal Computer OPERATING INSTRUCTIONS

Model No. **CF-07 Series**

### Contents

#### Getting Started

|                            |    |
|----------------------------|----|
| Read Me First .....        | 4  |
| First-time Operation ..... | 12 |

##### Reference Manual

- LED Indicators

#### Operation

|                                 |    |
|---------------------------------|----|
| Starting Up/Shutting Down ..... | 21 |
| Reference Manual .....          | 25 |

##### Reference Manual

- |                                 |                     |
|---------------------------------|---------------------|
| • Standby/Hibernation Functions | • Port Replicator*  |
| • Security Measures             | • Printer*          |
| • Computing On the Road         | • External Display* |
| • Battery Power                 | • USB Devices       |
| • CD-ROM Drive*                 | • LAN*              |
| • PC Cards                      | • Setup Utility*    |

#### Troubleshooting

|                                       |    |
|---------------------------------------|----|
| List of Error Codes* .....            | 26 |
| Dealing with Problems (Summary) ..... | 29 |
| Reinstalling Software .....           | 34 |

##### Reference Manual

- |                         |                                    |
|-------------------------|------------------------------------|
| • Technical Information | • List of Error Codes*             |
| • DMI Viewer            | • Dealing with Problems (Advanced) |

#### Appendix

|                                    |    |
|------------------------------------|----|
| LIMITED USE LICENSE AGREEMENT ...  | 37 |
| Hard Disk Data Erase Utility ..... | 41 |
| Names and Functions of Parts ..... | 43 |
| Specifications .....               | 45 |
| LIMITED WARRANTY .....             | 46 |

\* Only when the port replicator is connected

# TOUGHBOOK

XP

#### [Additional Manual]

##### Reference Manual

This manual can be accessed on your computer.

Refer to page 25 on how to access the Reference Manual.

In this manual, the term “external display” indicates a “wired” display with an RGB analog 15-pin interface.

Getting Started

Operation

Troubleshooting

Appendix

Please read these instructions 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-07LZ5ZYKM) located on the bottom of the computer.

### Introduction

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

## Illustrations and Terminology in this Manual

|  |  |
|--|--|
| <b>NOTE:</b>   | <b>NOTE</b> provides a useful fact or helpful information.   |
| <b>CAUTION:</b>  | <b>CAUTION</b> indicates a condition that may result in minor or moderate injury.  |
| <b>WARNING:</b>  | <b>WARNING</b> indicates a hazard that may result in moderate or serious injury.   |
| [Start] - [Run]:   | This illustration means to click [Start], then to click [Run].<br>(For some applications, you may need to double-click.)                         |
|  :                   | This illustration means to press the [Enter] key.  |
|  :                   | This illustration means to press and hold the [Ctrl] key, then press the [Alt] key.  |
|  :                  | Where to go for referred information.  |
|  Reference Manual : | This illustration means to refer to the Reference Manual, which is available on your computer.<br>Refer to page 25 on how to access this manual. |

- 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.
- If the user has logged on without the administrator authority, some functions may not be executable, and some screens may not be displayed as shown in this manual. If this happens, log on with the administrator authority to enable these functions.
- Confirm the latest information on optional products in catalogs, etc.

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# 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.

FCC RF Exposure Warning: This computer is provided with PC Card slots that could be used with wireless transmitter(s), which will be specifically recommended, when they become available. Other third-party wireless transmitter(s) have not been RF exposure evaluated for use with this computer and may not comply with FCC RF exposure requirements.

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)

**CAUTION:** To comply with FCC RF exposure requirements, For body worn operation, this product has been tested and meets the FCC RF exposure guidelines when used with the Panasonic accessories supplied or designated for this product. Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

## For Canada

### Industry Canada

This product complies with RSS210 of Industry Canada.

Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

## Information to the User

### This product and your Health

This product, like other radio devices, emits radio frequency electromagnetic energy. The level of energy emitted by this product however is far much less than the electromagnetic energy emitted by wireless devices like for example mobile phones.

Because this product operates within the guidelines found in radio frequency safety standards and recommendations, we believe this product is safe for use by consumers. These standards and recommendations reflect the consensus of the scientific community and result from deliberations of panels and committees of scientists who continually review and interpret the extensive research literature. In some situations or environments, the use of this product may be restricted by the proprietor of the building or responsible representatives of the organization. These situations may for example include:

- Using this product on board of airplanes, or
- In any other environment where the risk of interference to other devices or services is perceived or identified as harmful.

If you are uncertain of the policy that applies on the use of wireless devices in a specific organization or environment (e.g. airports), you are encouraged to ask for authorization to use this product prior to turning on the product.

### Regulatory Information

We are not responsible for any radio or television interference caused by unauthorized modification of this product. The correction of interference caused by such unauthorized modification will be the responsibility of the user. We and its authorized resellers or distributors are not liable for damage or violation of government regulations that may arise from failing to comply with these guidelines.

## 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.

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

## Precautions

### ● Usage

#### **Avoid Extreme Heat and Cold**

Do not store or use the computer in locations exposed to heat, direct sunlight, or extreme cold.

Avoid moving the computer between locations with large temperature difference.

Operation: 5 °C to 35 °C  
{41 °F to 95 °F}

Storage: -20 °C to 60 °C  
{-4 °F to 140 °F}



#### **Avoid Humidity, Liquids and Dust**

Do not store or use the computer in locations exposed to high humidity, liquids (including rain) or dust.

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



#### **Prevent Shock**

Avoid subjecting the computer to severe vibrations or impact. Do not place the computer inside a car trunk.



#### **Avoid Radio Frequency Interference**

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



#### **Avoiding low-temperature burns**

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

### ● Handling



#### **Avoid Magnetic Fields**

Keep the computer away from magnets.



#### **Avoid Stacking**

Do not place heavy objects on top of 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.

## Precautions (Battery Pack)

- Care should be exercised with regard to the following in order to avoid the possibility of overheating, 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, 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 Use With Any Other Computer

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



### Do Not Put into a Microwave

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



### 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.

- Do not touch the terminals on 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.
- 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.
- Should the battery leak and the fluid get 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 (0 °C to 45 °C {32°F to 113 °F})  Reference Manual “Battery Power”. 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 less.)
- 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 do not restore its performance, the battery pack should be replaced with a new one.
- When transporting a spare battery inside a package, briefcase, etc., 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.

## Saving Data on the Hard Disk

- **Do not expose your computer to shock.**  
Use care when handling your computer, shock may damage your hard disk or make your software applications and data unusable.
- **Do not power off your computer while software applications are running or hard disk drive indicator (💡) is on.**  
Properly shut Windows\* down to avoid problems ([Start] - [Turn Off Computer]).
- **Save all valuable data to disks.**  
Backing up data to disks will limit damage should trouble occur to your computer or should you inadvertently change or erase data.
- **Use the security function for all important data.** (📖<sup>Reference</sup> Manual “Security Measures”)

\* This computer uses Microsoft® Windows® XP Professional.

## Hard Disk Lock

When the Hard Disk Lock is set to [Enable], it is impossible to read/write data from/to the hard disk when the hard disk is installed in a different computer, since a password is also set for the hard disk. When the hard disk is returned to the original computer, you can read/write data as before. In this case, however, make the settings in the Setup Utility exactly the same as they were before the hard disk was removed. (Note that this Hard Disk Lock does not guarantee the complete protection of data.) (📖<sup>Reference</sup> Manual “Security Measures”)

## Saving Data on Floppy Disks

- **Do not power down your computer or press the floppy disk drive eject button while the floppy disk drive indicator is on.**  
Doing so may damage the data on the floppy disk and render the floppy disk useless.
- **Use care when handling floppy disks.**  
To protect the data on your floppy disks or to prevent a floppy disk from becoming stuck in your computer, avoid the following:
  - Sliding the shutter on the floppy disk manually.
  - Exposing the floppy disk to a magnetic field.
  - Storing the floppy disk in locations prone to high temperatures, low pitched noise, dampness, or dust.
  - Applying more than one label on the floppy disk.
- **Confirm the contents of a floppy disk before formatting it.**  
Confirm that no important data is on the floppy disk, because all data on the floppy disk will be erased.
- **Use the write-protect tab.**  
This is a must for preserving important data.  
This prevents your data from being erased or overwritten.



Write Enable

Write-protect Tab



Write Disable

## Computer Viruses

Users are advised to purchase the latest versions of virus protection software and use them regularly.

We recommend you run the software:

- When booting your computer.
- After receiving data.

We recommend that you check data received on disks or from external sources, such as data downloaded from the Internet, e-mail, etc. (For compressed files, uncompress them before running a check).

## Windows Update

You can use the latest patches and service packs for Windows in [Start] - [All programs] - [Windows Update].

**Do not apply “Driver Update” even if a message to update a driver appears. If a driver update is required, contact Panasonic Technical Support (☎ page 47).**

## Usage Environment

### ● Environment

- Place the computer on a flat stable surface. Do not place the computer upright or allow it to tip over. When the computer receives extremely strong shock after falling, the hard disk or floppy disk drive, etc., may become inoperable.
- In use:       Temperature: 5 °C to 35 °C {41 °F to 95 °F}  
                  Humidity:    30% to 80% RH (No condensation)
- Not in use:    Temperature: -20 °C to 60 °C {-4 °F to 140 °F}  
                  Humidity:    30% to 90% RH (No condensation)

### ● Places not to use your computer

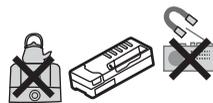
- Such areas may result in damage to the computer.

#### Areas with electronic equipment

These areas may interfere with your display or cause your computer to produce strange sounds.

#### Areas with extremely high/low temperatures

- Do not leave things near the computer that are sensitive to heat. During operation, the computer may become warm.



## 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 and the Reference 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.

## Handling

- This computer has been designed so as to minimize shock to the hard disk drive, etc., but no warranty is provided against such trouble. Therefore, as a precision instrument, be extremely careful in the handling.
- Do not drop or hit your computer against solid objects.
- Remove all cables before transporting your computer.
- We recommend preparing a fully charged battery.  
When transporting spare batteries inside a package, briefcase, etc., it is recommended that the batteries be stored in a plastic bag.
- Always carry your computer with you. 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 disks and carry them with you.

## Maintenance



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

### CAUTION

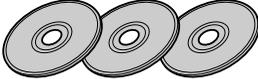
- Do not use benzene, thinner, or rubbing alcohol. Doing so may adversely affect the surface, e.g., discoloration. In addition, do not use commercially-available household cleaners and cosmetics, as they may contain components harmful to the surface.
- Do not directly add or spray water or detergent.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

# First-time Operation

Read the steps below to help you learn what parts are included, and to gain an understanding of some basic computer-related operations.

## 1 Confirm the inclusion of all parts

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

|   |   |
|---|---|
| <b>Splitter Cable</b> ..... 1   | <b>Battery Packs</b> ..... 2  |
|  | <br>Model No : CF-VZSU21 |
| <b>USB Cable</b> ..... 1  | <b>Product Recovery CD-ROM</b>  |
|  |                          |
| <b>Operating Instructions</b> (This book) ..... 1                                 |   |
| <b>Windows® Book</b> ..... 1  |   |

### NOTE

You cannot use the optional wireless display (CF-VDW07) until the wireless display is connected.

Be sure to prepare the followings.

- Optional port replicator (CF-VEB071)
- External keyboard (PS/2 type)
- External mouse (PS/2 type)
- External display (a “wired” display with an RGB analog 15-pin interface)
- Optional wireless display (CF-VDW07)

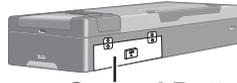
## 2 Read the LIMITED USE LICENSE AGREEMENT (page 37)

Before removing the seal covering the power switch, read the LIMITED USE LICENSE AGREEMENT.

### 3 Insert the two battery packs

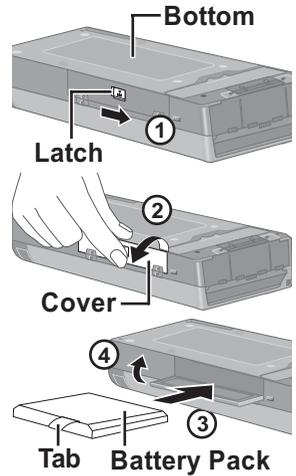


Main Battery Pack Slot



Second Battery Pack Slot

- ① Turn over the computer, then unlock the cover by sliding the latch to the right.
- ② Slide the latch down, and then without releasing it, open the cover as illustrated.
- ③ Firmly attach the battery pack to the connector as illustrated.
- ④ Close the cover, then lock it by sliding the latch to the left.

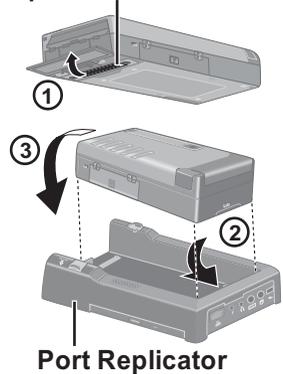


#### CAUTION

- Be sure to insert the battery pack as illustrated.
- Be sure the battery pack is properly connected to the connector.
- For an improperly attached cover, your battery pack may fall out while you are carrying around your computer.
- Be sure the tab does not get caught when closing the cover.

### 4 Open the cover of the expansion bus connector, then connect your computer to a port replicator

Expansion Bus Connector

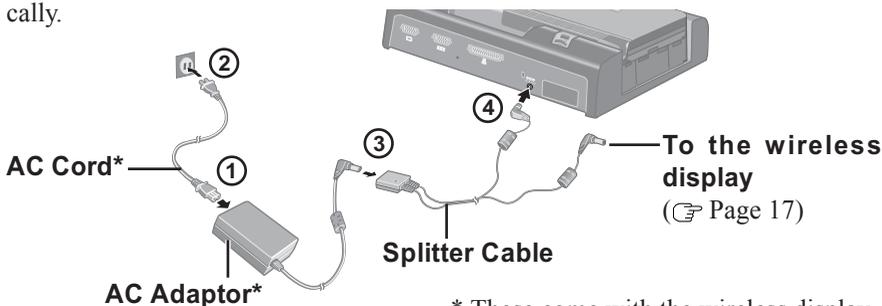


# First-time Operation

**5** Connect an external display, external keyboard and external mouse to the port replicator (☞ Operating Instruction of the Port Replicator)

**6** Connect the port replicator to a power outlet

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



\* These come with the wireless display.

## CAUTION

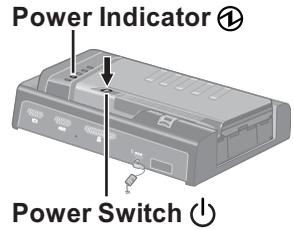
Be sure the AC adaptor is connected until completing the first-time use operation.

### 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. Since this could adversely affect your computer, an uninterruptible power source (UPS) is highly recommended unless the battery pack is installed.

## 7 Turn your computer on

Press the power switch and hold it for approximately one second until the power indicator turns on before releasing it.



### CAUTION

- Do not press the power switch and hold it for more than four seconds; this will cause the power to be turned off forcibly.
- Do not press the power switch repeatedly.
- Once the computer is powered off, you must wait at least ten seconds before powering it on again.

## 8 Setup Windows

### NOTE

- The message showing an IP address conflict may be displayed before the wireless display setting (☞ Step 9 on page 17) is finished. Close the message and continue operation.

### CAUTION

- Do not press any key or move the mouse until [Windows XP Professional Setup] is displayed.

- ① At [Welcome to the Windows XP Setup Wizard], select [Next].
- ② After reading the agreement, select [I accept this agreement] or [I don't accept this agreement], then select [Next].

### NOTE

- If [I don't accept this agreement] is selected, the Windows setup will be aborted.

- ③ Select settings for your region, then select [Next].
- ④ Enter your name and organization and then select [Next].
- ⑤ Enter your computer name and administrator password and then select [Next].

### CAUTION

- Remember this password! If the password is forgotten, Windows cannot be operated.

# First-time Operation

- Enter the correct date, time and the time zone, then select [Next].

## NOTE

- It may take two to three minutes until the next screen is displayed. Wait, and do not press any keys, or touch the mouse, etc.

- At [Networking Settings], select [Typical settings], then select [Next].

- At [Workgroup or Computer Domain], select [No, this computer is not on a network, or is on a network without a domain], then select [Next].  
The computer will restart.

## NOTE

- If “Yes, make this computer a member of the following domain” is selected, the following message may be displayed: [An invalid domain was specified. Would you like to proceed for now and try joining a domain later?]. In this case, select [Yes]. After selecting [Yes], the computer will restart automatically, but sometimes the [Starting Windows] message will remain on the screen, and windows will not start up. If this happens, hold **Alt** down while pressing **Tab** until [Network Identification Wizard] is displayed on top, and follow the instructions on the screen.

- Enter your administrator password and select .

- Select [Start]-[Control Panel]-[User Accounts]-[Create a new account] and follow the instructions on the display to create a user account, then restart the computer.

## CAUTION

- Remember this password! If the password is forgotten, Windows cannot be operated. You can create a password reset disk beforehand (☞ page 20).

## NOTE

### When creating a new user account:

- If you make mail settings, create password reset disks (☞ page 20), or conduct other related operations before creating the user account, you will be unable to use any previous mail history or settings.
- When you create the first new account, you can only select [Computer administrator].

Once a “Computer Administrator” account has been created, you can create additional limited user accounts.

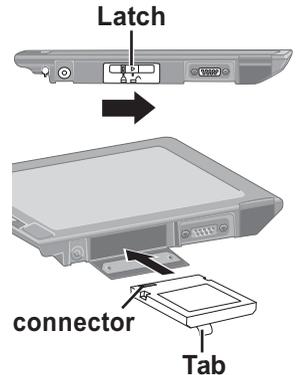
Note also that only the added user account will be displayed in the Welcome screen. The account for the administrator created during Windows setup will not be displayed.

## 9 Setup the wireless display

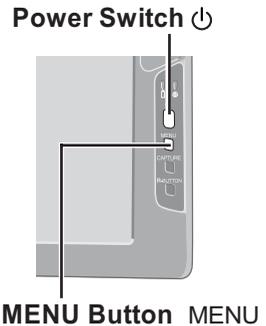
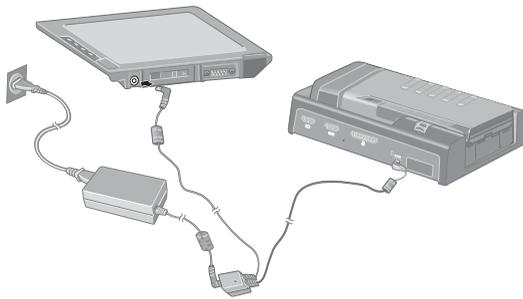
- ① Slide the latch to the right, and open the cover, then insert the battery pack in the wireless display. After inserting the battery pack, close the cover, then slide the latch to the left. (☞ Operating Instruction of the wireless display)

### CAUTION

Be sure to insert the battery pack as illustrated.



- ② Connect the wireless display to a power outlet and turn on the wireless display.



### NOTE

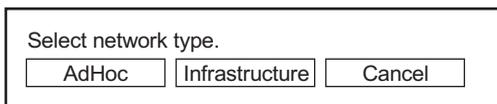
**<During the setup procedure after reinstalling only>**

Press the MENU button on the wireless display, then select [Option], then select [Setup]. (If the Supervisor password has been set, Enter the Supervisor Password, then select [Enter].)

Select a profile at [Select profile] and select [OK].

The following screen is displayed.

### <Wireless display screen>



# First-time Operation

- ③ Select [AdHoc].

The following screen is displayed.

## <Wireless display screen>

Change setting on host PC to the following value, reboot the host PC, then select "Connect" below.

Wireless LAN card  
Network Type : AdHoc  
                  SSID : cfvdw07-43411  
WEP Encryption : disable  
TCP/IP    **Class A**        
          IP Address : 10.57.148.205  
          NetMask : 255.0.0.0  
MeiWDS  
AES Encryption : disable  
          Password : wdsp      

This screen is a sample.

AES : Advanced Encryption Standard

## CAUTION

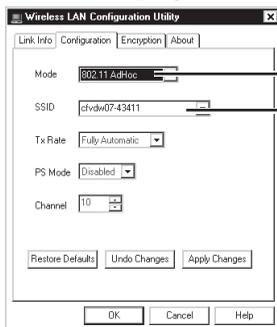
Do not select [Connect] until step ⑧ is completed.

## NOTE

The wireless display will turn off automatically after 10 minutes have elapsed. In this case, start the procedure from step ②.

- ④ Select  on the taskbar of the external display, then select [Configuration].  
The following screen is displayed.

## <External display screen>



Wireless LAN Configuration Utility

Link Info | Configuration | Encryption | About

Mode: 802.11 AdHoc

SSID: cfvdw07-43411

Tx Rate: Fully Automatic

PS Mode: Disabled

Channel: 10

Restore Defaults   Undo Changes   Apply Changes

OK   Cancel   Help

Select [802.11.AdHoc].

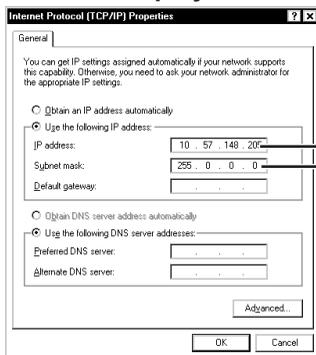
Match the settings of the computer with the information displayed on <Wireless display screen> of the step ③.

This screen is a sample.

- ⑤ Select [Apply Changes], then select [OK].

- ⑥ Select [Start] - [Control Panel] - [Network and Internet Connections] - [Network Connections] - [Local Area Connection 2] - [General] - [Properties] - [Internet Protocol (TCP/IP)] - [Properties].  
The following screen is displayed.

### <External display screen>



Select [Use the following IP address], match the settings of the computer with the information displayed on <Wireless display screen> of the step ③.

This screen is a sample.

- ⑦ Select [OK], then select [Close].
- ⑧ Select [Connect] on <Wireless display screen> of the step ③.  
The wireless display can be used.

### <When using except default settings with the wireless display>

Settings other than the default setting are also possible for the Wireless LAN, TCP/IP and MeiWDS. For more information, refer to the Operating Instructions of the wireless display.

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

## Information for Windows XP

### CAUTION

Do not use the Fast User Switching function, as it is not supported.

Do not add the check mark for [Use Fast User Switching] in [Start] - [Control Panel] - [User Accounts] - [Change the way users log on or off].

- Depending on the Windows settings, installed applications, and drivers, menus and other displays may differ, or some functions (such as use of the password reset disk) may be inoperable.
- You can select Classic view for the Control Panel or select the Classic Start menu. The procedure in this manual uses the method or view of the Windows XP default setting (not Classic view or Classic Start menu etc.).
- You can change the way a user logs on or off in [Start] - [Control Panel] - [User Accounts] - [Change the way users log on or off]. However, when using the wireless display, you cannot select [Hibernation] from the shut-down screen (☞ Reference Manual) “Standby/Hibernation Functions”) if the Welcome screen is enabled. To select [Hibernation] from the shut-down screen, delete the check mark for [Use the Welcome screen].

- **Resetting the password**

Windows XP has a function to reset a forgotten password.

To use this function, you need to create a password reset disk beforehand following the steps below.

- 1** Connect the USB floppy disk drive (optional: CF-VFUDU03) to your computer.
- 2** Select [Start] - [Control Panel] - [User Accounts].
- 3** Select [Prevent a forgotten password] from [Related Tasks] menu of the account you have logged on to and create a password reset disk following the on-screen instructions.

Store the password reset disk in a safe place.

• Only the logon password for each account can be reset.

The password set in the Setup Utility cannot be reset.

# Starting Up/Shutting Down

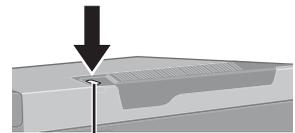
## Starting Up

### CAUTION

Do not maximize the Command Prompt screen. Once maximized, the connection with the wireless display is interrupted. The connection cannot be re-established and the computer no longer operates. In such cases, the computer must be powered off. Data may be lost.

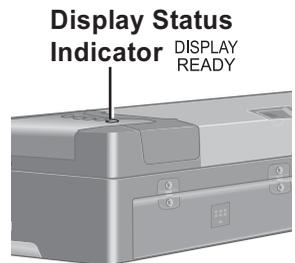
### 1 Turn your computer on

Press the power switch and hold it for approximately one second until the power indicator turns on before releasing it.



Power Switch 

### 2 After confirming the display status indicator lit, turn on the wireless display (☞ Operating Instructions of the wireless display)



Display Status Indicator  
DISPLAY  
READY

Operation

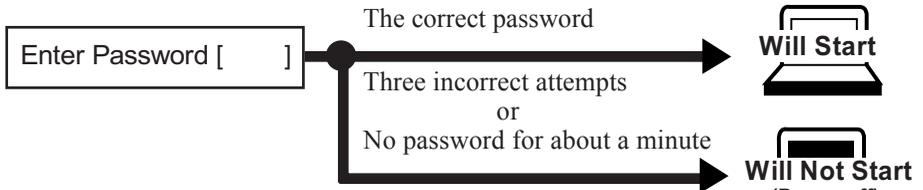
### CAUTION

- After confirming that the power indicator has turned on, avoid the following until Windows has completed loading.
  - Connecting or disconnecting the AC adaptor.
  - Touching the power switch.
  - Performing any keyboard or external mouse operations.
- Once the computer is powered off, you must wait at least ten seconds before powering it on again.
- When the computer is turned on in a low-temperature environment, start-up may take longer than usual, in order to ensure stable operation of the computer's systems.
- When the CPU temperature rises, the computer may not power on to prevent the CPU from overheating. Should this happen, allow the computer to cool down then switch the power on again.  
If the computer still does not power on, contact Panasonic Technical Support.

# Starting Up/Shutting Down

- **<Only when the port replicator (external display, external keyboard) is connected>**  
**If [Enter Password] is displayed**

Enter your password\*<sup>1</sup> and press **Enter**. (Reference Manual “Security Measures”)



\*<sup>1</sup> Supervisor Password or User Password set in the Setup Utility (not the Windows password).

- **When an application or file that was previously displayed appears on your screen**

The standby or hibernation mode (Reference Manual “Standby/Hibernation Functions”) has been set.

## 3 Log on to Windows

After confirming that the hard disk drive indicator ( ) has turned off, select the user and input the password, then select . Until the correct password is entered, the computer will not operate.

## 4 Select your application

You are able to start working on your computer.

### NOTE

- The power to the wireless display may be turned off while Windows is setting up or even when an application software is being installed.
  - <**When the wireless display turned off**>
    - If the power indicator lights, the wireless display will resume operation when the touchscreen is used.
    - If the power indicator does not light, the wireless display will resume operation when the power switch is pressed.
  - <**When the external display turned off**>

The external display will resume operation when the external keyboard or mouse is used.
- When the computer is left alone, it automatically enters the standby or hibernation mode (☞ Reference Manual “Standby/Hibernation Functions”). The computer will resume by pressing the power switch.

# Starting Up/Shutting Down

## Shutting Down (power off your computer)

This procedure is for shutting down the computer without using the standby or hibernation function (☞ Reference Manual “Standby/Hibernation Functions”).

**1 Save important data and close each application**

**2 Select [Start] - [Turn Off Computer]**

**3 Select [Turn Off]**

Your computer will power off automatically.

● **Restarting your computer (without shutting down)**

Select [Restart].

**4 When [Windows is shutting down] is displayed, select [OK]**

The wireless display and your computer will power off automatically. Confirm the power indicator of the computer turns off.

### CAUTION

Do not do the following during the shutdown/restart procedure.

- Connecting or disconnecting the AC adaptor.
- Touching the power switch.
- Performing any keyboard, touchscreen or external mouse operations.

### NOTE

● **To shut down using the keyboard,**

You may select to press **Ctrl** + **Esc**,  or  then select the menu with    .

● **To quickly resume computer operation after shutting down,**

The standby or hibernation function is available (☞ Reference Manual “Standby/Hibernation Functions”).

# Reference Manual

The Reference Manual and the Important Tips can be accessed on your computer. When a printer is connected, these manuals can also be printed.

- The Reference Manual explains functions for you to make greater use of the computer, such as how to add peripheral devices, how the Setup Utility works, and other useful information. (Refer to the cover of this manual for a list of the main contents included.)
- Important Tips provides information on how to maximize use of the battery pack, which is necessary for computing away from your home or office.

## Opening the Reference Manual or Important Tips

### ● Reference Manual

Select [Reference Manual] in [Start].

### ● Important Tips

Select  on the desktop.

Important Tips can also be accessed from the following menu.

Select [Important Tips] in [Start] - [All Programs] - [Panasonic] - [On-Line Manuals]

When the Reference Manual or Important Tips is started up for the first time, the License Agreement of the Acrobat Reader may be displayed. If it is displayed, after reading the agreement, select [Accept] to access the Reference Manual or Important Tips.

#### NOTE

- Illustrations may be difficult to view depending on the magnification. If the illustration is too small, magnify the display.
- When the taskbar is hidden at the bottom portion of Acrobat Reader, set the maximum display window size.
- If a printer is connected, we recommend printing pages. The illustrations and display samples may not print with a high quality.

# List of Error Codes <Only when the port replicator is connected>

The following is a list of the messages that BIOS can display. Most of them occur during POST. Some of them display information about a hardware device, e.g., the amount of memory installed. Others may indicate a problem with a device, such as the way it has been configured. Following the list are explanations of the messages and remedies for reported problems.

If your system displays any of the below error messages other than the ones marked with an asterisk (\*), write down the message and contact Panasonic Technical Support. If your system fails after you make changes in the Setup menus, reset the computer, enter Setup and install Setup defaults or correct the error.

## **0200 Failure Fixed Disk**

Fixed disk is not working or not configured properly. Check to see if fixed disk is attached properly. Run Setup. Find out if the fixed-disk type is correctly identified.

## **0210 Stuck key**

Stuck key on keyboard.

## **0211 Keyboard error**

Keyboard not working.

## **0212 Keyboard Controller Failed**

Keyboard controller failed test. Requires repair of system board.

## **0213 Keyboard locked - Unlock key switch**

Unlock the system to proceed.

## **0230 System RAM Failed at offset : *nnnn***

System RAM failed at offset *nnnn* of the 64k block at which the error was detected.

## **0231 Shadow RAM Failed at offset : *nnnn***

Shadow RAM failed at offset *nnnn* of the 64k block at which the error was detected.

## **0232 Extended RAM Failed at offset : *nnnn***

### **Extended RAM Failed at address line : *nnnn***

Extended memory not working or not configured properly at offset or address line *nnnn*.

## **0250 System battery is dead - Replace and run SETUP**

The CMOS backup battery is dead. Replace the battery and run Setup to reconfigure the system.

## **\*0251 System CMOS checksum bad - Default configuration used**

System CMOS has been corrupted or modified incorrectly, perhaps by an application program that changes data stored in CMOS. The BIOS installed Default SETUP Values. If you do not want these values, enter Setup and enter your own values. If the error persists, check the system battery or contact Panasonic Technical Support.

## **0260 System timer error**

The timer test failed. Requires repair of system board.

## **0270 Real time clock error**

Real-time clock fails BIOS test. Requires repair of system board.

## **0271 Check date and time settings**

Real-time clock is illegal. Run Setup and set the date and clock.

**\*0280 Previous boot incomplete - Default configuration used**

Previous POST did not complete successfully. POST loads default values and offers to run Setup. If the failure was caused by incorrect values and they are not corrected, the next boot will likely fail. On systems with control of **wait states**, improper Setup settings can also terminate POST and cause this error on the next boot. Run Setup and verify that the wait-state configuration is correct. This error is cleared the next time the system is booted.

**0281 Memory Size found by POST differed from EISA CMOS**

Memory size found by POST differed from EISA CMOS.

**02D0 System cache error - Cache disabled**

Contact Panasonic Technical Support.

**02F0: CPU ID:**

CPU socket number for Multi-Processor error.

**02F4: EISA CMOS not writable**

ServerBIOS2 test error: Cannot write to EISA CMOS.

**02F5: DMA Test Failed**

ServerBIOS2 test error: Cannot write to extended DMA (Direct Memory Access) registers.

**02F6: Software NMI Failed**

ServerBIOS2 test error: Cannot generate software NMI (Non-Maskable Interrupt).

**02F7: Fail - Safe Timer NMI Failed**

ServerBIOS2 test error: Fail-Safe Timer takes too long.

***device* address Conflict**

Address conflict for specified *device*.

**Allocation Error for: *device***

Run ISA or EISA Configuration Utility to resolve resource conflict for the specified *device*.

**Failing Bits : *nnnn***

The hex number *nnnn* is a map of the bits at the RAM address which failed the memory test. Each 1 (one) in the map indicates a failed bit. See error 230,231 or 232 for offset address of the failure in System, Extended or Shadow memory.

**Invalid System Configuration Data**

Problem with NVRAM (CMOS) data.

**I/O device IRQ conflict**

I/O device IRQ conflict error.

**Operating System not found**

Operating system cannot be located on either drive A: or drive C:. Enter Setup and see if fixed disk and drive A: are properly identified.

**Parity Check 1 *nnnn***

Parity error found in the system bus. BIOS attempts to locate the address and display it on the screen. If it cannot locate the address, it displays ?????. Parity is a method for checking errors in binary data. A parity error indicates that some data has been corrupted.

# List of Error Codes <Only when the port replicator is connected>

## **Parity Check 2 *nnnn***

Parity error found in the I/O bus. BIOS attempts to locate the address and display it on the screen. If it cannot locate the address, it displays ????.

### **Press <F1> to resume, <F2> to Setup**

Displayed after any recoverable error message. Press <F1> to start the boot process or <F2> to enter a Setup and change the settings. Write down and follow the information shown on the screen.

# Dealing with Problems (Summary)

When a problem occurs, power off the wireless display, then connect the optional port replicator (CF-VEB071), external keyboard and external display and refer to this page. The “Reference Manual” also contains detailed information. If a problem appears to be related to a software application, read the software related manual. If you still cannot troubleshoot the problem, contact Panasonic Technical Support.

## ● Starting Up

|   |   |
|---|---|
| <p><b>The power indicator or battery indicator is not lit</b></p> | <ul style="list-style-type: none"> <li>● Check the cable connection for the AC adaptor.</li> <li>● Check to see if a fully charged battery is properly installed.</li> <li>● Remove the battery pack and disconnect the AC adaptor, then connect them again.</li> </ul>   |
| <p><b>[Enter Password] is displayed</b></p>                       | <p>Input your password. If you have forgotten it, contact Panasonic Technical Support.</p>  |
| <p><b>POST Startup Error(s) is displayed</b></p>                  | <p> page 26</p>  |
| <p><b>Windows startup, or an operation is extremely slow</b></p>  | <p>Press <b>(F9)</b> in the Setup Utility (  <sup>Reference Manual</sup> “Setup Utility”). This will restore the Setup Utility's settings to their default values (except the password settings). Then, the Setup Utility must be run once again for you to input the appropriate operating environment settings. (The processing speed depends on the application software used, so this operation may not cause the processing speed to increase.)</p>     |
| <p><b>The date and time are incorrect</b></p>                     | <ul style="list-style-type: none"> <li>● You can set the date and time through [Control Panel] - [Date, Time, Language, and Regional Options] - [Date and Time].</li> <li>● When the computer is connected to a LAN, confirm the date and time of the server.</li> <li>● If you continue to experience problems, the internal battery maintaining the clock may need to be replaced. Contact Panasonic Technical Support.</li> <li>● This computer will not correctly recognize the date and time starting from the year 2100 A.D.</li> </ul> |
| <p><b>The cursor cannot be controlled</b></p>                     | <ul style="list-style-type: none"> <li>● Restart the computer by using the keyboard (e.g., <b>(Ctrl) + (Esc)</b>,  or ).</li> <li>● When the port replicator is not connected, turn off the computer.</li> </ul>  |

# Dealing with Problems (Summary)

|   |  |
|---|--|
| <p><b>When resuming from the standby or hibernation mode, [Enter Password] does not appear even if a password has been set in the Setup Utility</b></p> | <ul style="list-style-type: none"> <li>● Even when a password has been set in the Setup Utility, [Enter Password] does not appear when the computer resumes from the standby or hibernation mode. If you want to use the security function when using the standby or hibernation mode, use the Windows password as follows:<br/>Select the account to change in [Control Panel] - [User Accounts] and set the password, then add the check mark for [Prompt for password when computer resumes from standby] in [Control Panel] - [Performance and Maintenance] - [Power Options] - [Advanced].</li> <li>● Press the MENU button of the wireless display, then set the password (☞ Operating Instructions of the wireless display).</li> </ul> |
| <p><b>The DISPLAY READY indicator does not go on even when the HDD indicator goes off</b></p>   | <p>A problem possibly occurred during startup. After powering off the computer, connect the port replicator and restart the computer.</p>  |
| <p><b>When the administrator password is forgotten</b></p>  | <p>If you have created a password reset disk (☞ page 20), a message is displayed when you fail to correctly enter the password. Follow the message's instructions and set the password again by using the password reset disk.<br/>If you have not created a password reset disk, after reinstalling, setup Windows and then set the password again.</p>   |
| <p><b>When the previous item is not the cause</b></p>   | <ul style="list-style-type: none"> <li>● Press <b>(F9)</b> in the Setup Utility (☞ <small>Reference Manual</small> "Setup Utility"). This will restore the Setup Utility's settings to their default values (except the password settings).</li> <li>● Try removing all peripheral devices.             <ol style="list-style-type: none"> <li>1 Select [Local Disk(C:)] with the right button in [Start] - [My Computer], and select [Properties].</li> <li>2 Select [Tools] - [Check Now].</li> <li>3 Select [Start] after selecting required items in [Check disk options].</li> </ol> </li> <li>● At start-up, press <b>(F8)</b> to operate the computer in the Safe mode.</li> </ul>  |

## ● Battery Indicator

|                                    |  |
|------------------------------------|--|
| <b>The red indicator lights</b>    | The battery level is very low (the charge is less than approx. 9% capacity).<br>Connect the AC adaptor. You can use the computer when the indicator light is orange. If you do not have an AC adaptor, save your data and power off your computer. After replacing the battery pack with a fully charged one, turn your computer on. |
| <b>The red indicator blinks</b>    | Quickly save your data and power off your computer. Remove the battery pack and disconnect the AC adaptor, then connect them again.<br>If the problem persists, contact Panasonic Technical Support. The battery pack or recharging function may be defective.   |
| <b>The orange indicator blinks</b> | Battery cannot be recharged temporarily because the internal temperature of the battery pack is outside of the acceptable temperature range for recharging. Once the allowable range requirement is satisfied, charging begins automatically. Your computer can be used normally.  |
| <b>The green indicator blinks</b>  | Battery is discharging to prescribed charging level in high temperature mode.  |

## ● Reference Manual

|  |   |
|--|---|
| <b>The Reference Manual is not displayed</b> | Is Acrobat Reader installed? If Acrobat Reader is not installed, run [c:\util\reader\acroreader51_enu_full.exe] in [Start] - [Run] to reinstall the program. When installing the program, do not change the installation destination folder. If the destination folder is changed, the Reference Manual cannot be opened from the [Start] menu. |
|--|---|

## ● Wireless Display (except below Operating Instructions of the wireless display)

|  |  |
|--|--|
| <b>Wireless connection is interrupted</b>                                      | Select  on the taskbar of the external display, then select [Configuration], and then set [Tx Rate] to [Auto 1 or 2 Mb].<br> page 18 |
| <b>Cannot connect immediately after “Disconnected by log off” is displayed</b> | <ul style="list-style-type: none"> <li>● Wait for a while and try connecting again.</li> <li>● Turn off the wireless display and turn it on again by pressing the power button.</li> </ul>   |

# Dealing with Problems (Summary)

## ● External Display

|   |  |
|---|--|
| <b>No display after powering on</b>   | When there is no display to an external display, <ul style="list-style-type: none"><li>• Check your cable connection to the external display.</li><li>• Confirm your display is powered on.</li><li>• Check the settings for your external display.</li></ul>  |
| <b>The power has not been turned off, but after a certain period of time, there is no display</b> | <ul style="list-style-type: none"><li>● Has the computer been set to the power-saving mode? To resume operation of your computer from the condition the power of the display is off (for energy conservation purposes), use the touchscreen or an external keyboard or mouse.</li><li>● To save power, your computer may have automatically entered the standby or hibernation mode. Press the power switch.</li></ul> |
| <b>An afterimage appears</b>  | If an image is displayed for a prolonged period of time, an afterimage may appear. This is not a malfunction. Set the screen saver.  |
| <b>The external display no longer displays properly</b>   | When an external display not compatible with the power saving mode is used with the computer, the external display may no longer display properly when the computer enters the condition the power of the display is off (for energy conservation purposes). In such cases, turn off the power to the external display.  |
| <b>The screen becomes disordered</b>  | Changing the number of colors of the display may affect the screen. Restart the computer.  |

## ● Shutting down

|   |  |
|---|--|
| <b>Windows cannot be shut down or restarted</b> | If a USB device is connected, try removing it. |
|---|--|

## ● Fast User Switching Function

|   |  |
|---|--|
| <b>“MeiWDS doesn’t support Fast User Switching” is displayed.</b> | Do not use the Fast User Switching function, as it is not supported.<br>Remove the check mark for [Use Fast User Switching] in [Start] - [Control Panel] - [User Accounts] - [Change the way users log on or off]. |
|---|--|

## ● Others

|                          |   |
|--------------------------|---|
| <b>No response</b>       | <ul style="list-style-type: none"><li>● Press <b>Ctrl</b> + <b>Shift</b> + <b>Esc</b> to open Task Manager and close the software application which is not responding.</li><li>● After shutting down by pressing the power switch for more than four seconds, press the power switch to power on and open the application again.</li></ul> <p>If the program no longer works normally, Select [Start] - [Control Panel] - [Add or Remove Programs] to delete the program using the following procedure. Then reinstall the program.</p> |
| <b>Unable to install</b> | Install the software after powering off the computer and the wireless display and then connecting the port replicator, optional USB floppy disk drive, external keyboard and external display.  |

# Reinstalling Software

## Before Reinstallation

### ● Preparing

- You will need the followings:
  - Product Recovery CD-ROM
  - Optional port replicator (CF-VEB071)
  - External keyboard
  - External mouse
  - External display

### ● Important

- Save all important data. If reinstallation is carried out, all data existing prior to the installation will be lost. The reinstallation will return the computer to close to the conditions at time of purchase.
- Before the reinstallation procedure, remove unnecessary peripherals.
- Be sure the AC adaptor is connected until the reinstallation procedure is completed.

## Reinstalling

- 1 Turn the computer off and connect the port replicator, external display, external keyboard and external mouse.
- 2 Turn the computer on, and press **(F2)** while [Panasonic] boot screen is displayed. The Setup Utility will start up.  
If the password has been set, enter the Supervisor Password.
- 3 Write down all of the contents of the Setup Utility and then press **(F9)**.  
At the confirmation message, select [Yes] and press **(Enter)**.
- 4 Select [Boot] menu, then select [CD Drive] and press **(F6)** until [CD Drive] is at the top of the [Boot] menu.
- 5 Place the disc number one of the recovery CDs into the CD-ROM drive.
- 6 Press **(F10)**.  
At the confirmation message, select [Yes] and press **(Enter)**.  
The computer will restart, and this screen should appear.

```
-----  
Select a number  
-----
```

- ```
1. [ Recovery ] Reinstall Windows.  
2. [ Erase HDD ] Erase the whole data on HDD for security.  
0. [ Cancel   ] Cancel.  
-----
```

- 7 Select [1.[Recovery]].  
The License Agreement screen should appear.

- 8 Select [1. Yes, I agree to the provisions above and wish to continue!].

This screen should appear.

```
-----  
Select a number  
-----  
Reinstalling : Windows(R) XP Professional  
1. Reinstall Windows to the whole HDD to factory default.  
2. Reinstall Windows to the first partition.  
0. Cancel  
-----
```

- 9 Make a selection from the menu.

To select [2], the initial partition size must be 3 GB or more of the hard disk size. Reinstallation cannot be performed with a small partition size.

- 10 At the confirmation message, press **(Y)**.

The operation of reinstallation for the hard disk starts automatically. (The operations take about 20 minutes.)

### CAUTION

- Do not interrupt the reinstallation procedure before completion, for example by turning off the computer or pressing **(Ctrl) + (Alt) + (Del)**, as this may prevent Windows from starting up, or may cause data to be lost so that the reinstallation procedure cannot be executed.
- When a message appears instructing you to insert the next CD, insert the recovery CD showing the next number in the sequence, and then select [OK]. If the message “The media does not contain the correct file” appears, select [OK]. A message will appear instructing you to insert the next CD. Confirm that the proper recovery CD has been inserted by opening the tray of the CD-ROM drive and then close the tray, then select [OK].

- 11 After the reinstallation procedure completes, this screen should appear.

Remove the Product Recovery CD-ROM.

```
-----  
[Recovery] is complete.  
Windows(R)XP Professional install wizard will start after reboot.  
Please Remove the Product Recovery CD-ROM, and press  
Ctrl + Alt + Del (Delete) to reboot.  
-----
```

- 12 Restart the computer by pressing **(Ctrl) + (Alt) + (Del)** and press **(F2)** while [Panasonic] screen is displayed.

The Setup Utility will start up.

If the password has been set, enter the Supervisor Password.

# Reinstalling Software

**13** Press **F9**.

At the confirmation message, select [Yes] and press **Enter**. (The Setup Utility settings will return to their default values. Even the security settings with the exception of the password(s) will return to their default values.)

**14** Press **F10**.

At the confirmation message, select [Yes] and press **Enter**.

**15** Perform the setup procedure for Windows by following the instructions on the screen (☞ page 15).

**16** Run the Setup Utility and change the settings where necessary.

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# Hard Disk Data Erase Utility

This computer is equipped with a utility for erasing hard disk data. When disposing of or transferring ownership of this device, erase all data on the hard disk in order to prevent the theft of hard disk data following the steps below.

The hard disk data erase utility erases data using an “overwriting” method, but there is a possibility that due to malfunctions or other operational errors, data may not be completely erased. There are also specialized devices that may be able to read data that has been erased using this method. If you need to erase highly confidential data, we recommend that you contact a company that specializes in this process. Matsushita Electric Industrial Co., Ltd. will bear no responsibility for losses or damages suffered as a result of the use of this utility.

## Preparing

- Product Recovery CD-ROM
- Optional port replicator (CF-VEB071)
- External keyboard
- External display

### NOTE

- Be sure the AC adaptor is connected until the procedure is completed.
- This utility can only be used for internal hard disk. It cannot be used to erase data from external hard disks.
- This utility cannot erase data from damaged disk.
- This utility cannot erase data for specific partitions.
- After executing this utility, the computer cannot be booted from the hard disk.

## Procedure

- 1 Turn the computer off and connect the port replicator, external display, external keyboard.
- 2 Turn the computer on, and press **(F2)** while [Panasonic] boot screen is displayed. The Setup Utility will start up. If the password has been set, enter the Supervisor Password.
- 3 Select [Boot] menu, then select [CD Drive] and press **(F6)** until [CD Drive] is at the top of [Boot] menu.
- 4 Place the disc number one of the recovery CDs into the CD-ROM drive.

# Hard Disk Data Erase Utility

5 Press **F10**.

At the confirmation message, select [Yes] and press **Enter**.

The computer will restart, and this screen should appear.

```
-----  
Select a number  
-----  
1. [ Recovery ] Reinstall Windows.  
2. [ Erase HDD ] Erase the whole data on HDD for security.  
0. [ Cancel   ] Cancel.  
-----
```

6 Select [2. [Erase HDD]].

7 At the confirmation message, press **Y**.

8 At the start menu, press **Enter**.

9 The approximate time required for erasing data will be displayed.

Press **Space**.

10 At the confirmation message, press **Enter**. The operation of erasing the hard disk starts.

(If necessary, the “hard disk data erase” operation can be cancelled after it has begun by pressing **Ctrl** + **C**.)

If the operation is cancelled before being completed, a part of data will not be erased.)

11 After the operation is complete:

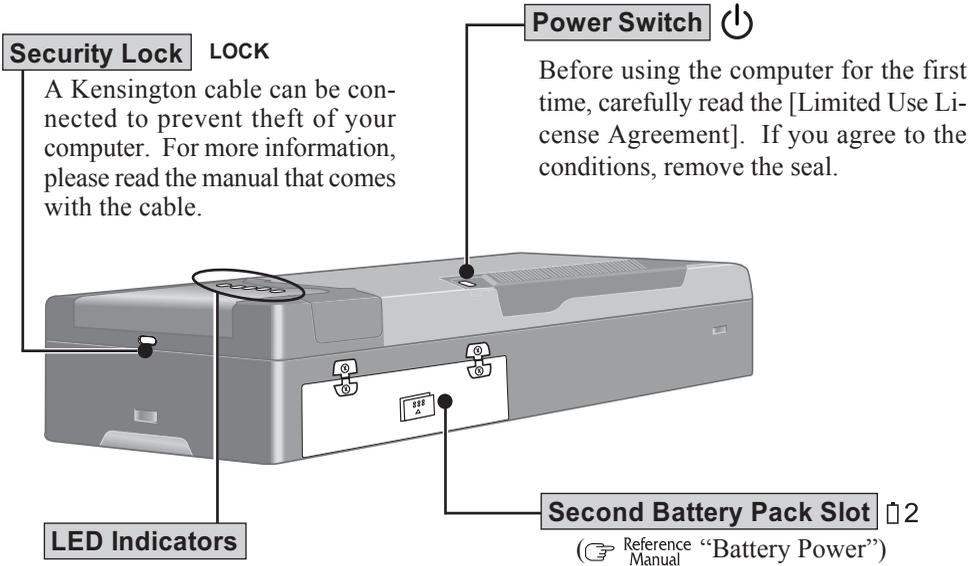
Under normal conditions, the message [Hard disk data has been deleted.] will be displayed.

If a problem occurred during the operation, an error message will be displayed.

12 Remove the recovery CD, then turn off the computer by pressing and holding the power switch for more than four seconds.

# Names and Functions of Parts

The illustrations shown may differ from the actual physical appearances.



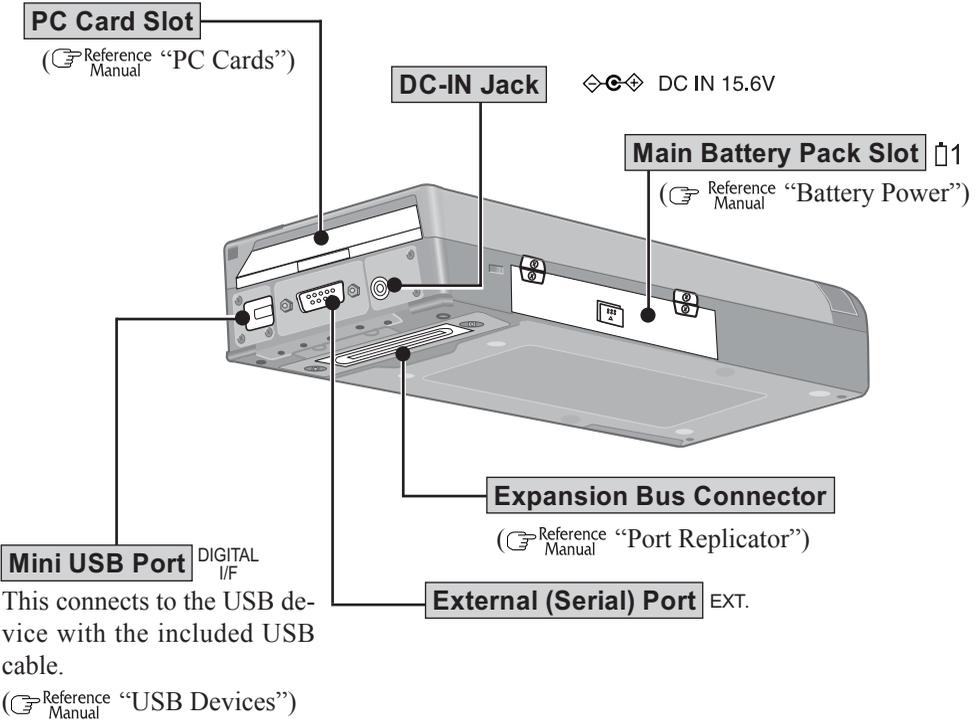
- ( Reference Manual “LED Indicators”)
-  Hard disk drive status
- 1--2 Battery pack status
-  Power status
- DISPLAY READY  Wireless display status

## NOTE

If a battery pack is inserted when the computer is off (under the condition there is no battery pack in the computer), LED indicators will blink five times. You can confirm the remaining battery power by looking at the LED indicators. Since the remaining battery power is displayed for one battery pack, insert battery packs one at a time for confirmation purposes. You can also confirm the remaining battery power in the same way when the computer is on after a battery pack is inserted.

| LED Indicators            | Remaining battery power |
|---------------------------|-------------------------|
| Non-blinking              | 0%                      |
| One indicator-blinking    | 1% ~ 20%                |
| Two indicators-blinking   | 21% ~ 50%               |
| Three indicators-blinking | 51% ~ 80%               |
| Four indicators-blinking  | 81% ~ 100%              |

# Names and Functions of Parts



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.

# Specifications

|                                        |                                                           |                                                                                                                                                     |              |
|----------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| <b>Model No.</b>                       | CF-07LZ5ZYKM                                              | CF-07LZAZYKM                                                                                                                                        | CF-07LZBZYKM |
| <b>CPU</b>                             | Mobile Pentium® III Processor 300 MHz                     |                                                                                                                                                     |              |
| <b>L1 Cache Memory</b>                 | 32 KB                                                     |                                                                                                                                                     |              |
| <b>L2(Second)Cache Memory</b>          | 256 KB                                                    |                                                                                                                                                     |              |
| <b>Memory (Expandable to)</b>          | 128 MB (256MB)                                            |                                                                                                                                                     |              |
| <b>Video Memory</b>                    | 8 MB                                                      |                                                                                                                                                     |              |
| <b>External Display</b>                | 65536 / 16 M colors<br>(800 × 600 dots / 1024 × 768 dots) |                                                                                                                                                     |              |
| <b>Hard Disk Drive</b>                 | 5 GB*1                                                    | 10 GB*1                                                                                                                                             | 20 GB*1      |
| <b>Slots</b>                           | <b>PC Card Slot</b>                                       | Type I or Type II                                                                                                                                   |              |
|                                        | <b>Allowable current</b>                                  | 3.3 V: 400 mA, 5 V: 400 mA                                                                                                                          |              |
|                                        | <b>RAM Module Slot</b>                                    | 144-pin, μ DIMM, 3.3 V, SDRAM, PC 100 Compliant                                                                                                     |              |
| <b>Interface</b>                       | <b>Mini USB Port</b>                                      | 4-pin                                                                                                                                               |              |
|                                        | <b>Serial Port</b>                                        | Dsub 9-pin female                                                                                                                                   |              |
| <b>Battery</b>                         | <b>Battery Pack</b>                                       | Li-ion 7.4 V, 1.7 Ah                                                                                                                                |              |
|                                        | <b>Operating Time*2</b>                                   | Approx. 4.0 h                                                                                                                                       |              |
|                                        |                                                           | Power On: Approx. 4.0-10.0 h<br>Power Off: Approx. 4.0 h                                                                                            |              |
|                                        | <b>Charging Time*2</b>                                    | Power On: Approx. 4.0-10.0 h<br>Power Off: Approx. 4.0 h                                                                                            |              |
|                                        | <b>Clock Battery</b>                                      | Coin type lithium battery 3.0 V                                                                                                                     |              |
| <b>Operating Time</b>                  | Approx. 7 years                                           |                                                                                                                                                     |              |
| <b>Power Consumption*3</b>             | Approx. 13 W*4 / Approx. 30 W*5                           |                                                                                                                                                     |              |
| <b>Software</b>                        | <b>OperatingSystem</b>                                    | Microsoft® Windows® XP Professional with Service Pack 1                                                                                             |              |
|                                        | <b>Utility Programs</b>                                   | Setup Utility, DMI Viewer, Wireless Display Setup Utility, MeiWDS Setup Utility, Wireless LAN Configuration Utility, Hard Disk Data Erase Utility*6 |              |
| <b>Environment</b>                     | <b>In use</b>                                             | Temperature: 5 °C to 35 °C {41 °F to 95 °F}<br>Humidity: 30% to 80% RH (No condensation)                                                            |              |
|                                        | <b>Not in use</b>                                         | Temperature: -20 °C to 60 °C {-4 °F to 140 °F}<br>Humidity: 30% to 90% RH (No condensation)                                                         |              |
| <b>Physical Dimensions (W × H × D)</b> | 200 mm × 91.6 mm × 52 mm {7.9" × 3.6" × 2.0"}             |                                                                                                                                                     |              |
| <b>Weight</b>                          | Approx. 960 g {Approx. 2.1 lb.}                           |                                                                                                                                                     |              |

\*1 1GB = 10<sup>9</sup> bytes

\*2 A value when two batteries are set. Varies depending on the usage conditions.

\*3 Approx. 0.2 W when the battery pack is fully charged (or not being charged) and the computer is off.

\*4 Rated power consumption.

\*5 Maximum when recharging in the ON state.

\*6 The Product Recovery CD-ROM is required.

# LIMITED WARRANTY

**For U.S.A.**

## **PANASONIC PERSONAL COMPUTER AND PERIPHERALS LIMITED WARRANTY**

Panasonic Computer Solution 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 three (3) years from the date of original purchase in the event of a defect in materials or workmanship. This warranty includes the AC adaptor but excludes the batteries and all other options and accessories which are covered for a period of one (1) year from the date of purchase.

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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 Solution Company

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

# LIMITED WARRANTY

## For Canada

### PANASONIC COMPUTER AND PERIPHERALS LIMITED WARRANTY

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| 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**

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**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.

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