

### **Panasonic**®

**Personal Computer** 

### **OPERATING INSTRUCTIONS**

Model No. **CF-T2 Series** 

XP 2000	
THE PARTY OF THE P	
	ű
	ď
	J
是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	ø
THE REPORT OF THE PARTY OF THE	H
	H
	Œ.
2000年1月1日 1月1日 1日 1	K
<b>建筑市市区域建设市市区域的设计区域</b>	
The second of th	
	W
	H
ASCORPAGNACIONE DE LA COMPANION DE LA COMPANIO	
SHEET OF THE PARTY	
15.44%年,25.65%,15.65%。16.15%。15.15%。1	E
Charles Constitution of the Constitution of th	
<b>对现了战争的主要。</b> 这种国际自己的自己的	
[Additional Manual]	
[Additional Manual]	
Reference Manual	
This manual can be accessed on your computer. Refer	
	B
to page 20 on how to access the Reference Manual.	H
	Z

C	0	n	te	n	ts
$\mathbf{\mathbf{\mathbf{\mathcal{C}}}}$	V				

etting Started		
Read Me First		
First-time Operation	١	10
Referen	ce Manual	
Read Me First     Key Combinations	LED Indicators	
Operation		

### 

# Reference Manual Touch Pad Standby/Hibernation Functions Security Measures Computing on the Page Security Measures Secu

Road
Battery Power
SD-MovieStage
PC Cards
Modem
LAN
Wireless LAN
Setup Utility

### **Troubleshooting**

List of Error Codes	21
Dealing with Problems (Summary)	22
Reinstalling Software	
•	

Reference Manual
Technical Information
DMI Viewer
List of Error Codes
Dealing with Problems

### **Appendix**

LIMITED USE LICENSE AGREEMENT	. 29
Hard Disk Data Erase Utility	. 30
Names and Functions of Parts	
Specifications	. 32
Technical Support Office	

(Advanced)

Model No. *1	Dealer's Name	
Serial No.		
or		
Code No.	Dealer's Address	

#### 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

**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.

Windows XP : Information for Microsoft® Windows® XP Professional users.

Windows 2000 : Information for Microsoft® Windows® 2000 Professional users.

**Enter**: This illustration means to press the [Enter] key.

**Fn** + **F5**: This illustration means to press and hold the [Fn] key, then press the [F5] key.

[start] - [Run]: This illustration means to click [start], then to click [Run]. For some applications, you may need to

double-click.

• In Windows 2000, [start] is displayed as [Start].

Where to go for referred information.

This illustration means to refer to the Reference Manual, which is available on your computer.

Refer to page 20 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.

### Copyright

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

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

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

#### Disclaimer

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

### **Trademarks**

Microsoft, Windows and the Windows logo are registered trademarks of Microsoft Corporation of the United States and/or other countries.

Intel, Pentium, SpeedStep and PROSet are either registered trademarks or trademarks of Intel Corporation.

SD Logo is a trademark.

Adobe® and Acrobat® are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States and/or other countries

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

<sup>\*1</sup> For the Model No., insert the 12 digit number (for example, CF-T2AWAZZGH) located on the bottom of the computer.

### Read Me First

### Warning

### This apparatus must be earthed for your safety.

To ensure safe operation the three-pin plug must be inserted only into a standard three-pin power point which is effectively earthed through the normal household wiring.

Extension cords used with the equipment must be three-core and be correctly wired to provide connection to earth. Wrongly wired extension cords are a major cause of fatalities.

The fact that the equipment operates satisfactorily does not imply that the power point is earthed and that the installation is completely safe.

For your safety, if you have any doubt about the effective earthing of the power point, consult a qualified electrician.

### FOR YOUR SAFETY PLEASE READ THE FOLLOW-ING TEXT CAREFULLY

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 3 amp fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 3 amps and that it is approved by ASTA or BSI to BS 1362.

Check for the ASTA mark  $\Leftrightarrow$  or the BSI mark  $\stackrel{\frown}{\nabla}$  on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local Panasonic Dealer.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.

THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMP SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.

If in any doubt please consult a qualified electrician.

### Warning: THIS APPLIANCE MUST BE EARTHED. Important

The wires in this mains lead are coloured in accordance with the following code:

Green-and-yellow: Earth
Blue: Neutral
Brown: Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured GREEN-and-YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol ( coloured GREEN or GREEN-and-YELLOW.

The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured BLACK. The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured RED.

The mains plug on this equipment must be used to disconnect the mains power.

Please ensure that a socket outlet is available near the equipment and shall be easily accessible.

### ■ How to replace the fuse

Open the fuse compartment with a screwdriver and replace the fuse.



### Warnings

- This equipment is not designed for connection to an IT power system.
  - (An IT system is a system having no direct connections between live parts and Earth; the exposed-conducive-parts of the electrical installation are earthed.
  - An IT system is not permitted where the computer is directly connected to public supply systems in the U.K.)
- Disconnect the mains plug from the supply socket when the computer is not in use.

This equipment is produced to BS800/1983.

### **Read Me First**



Declaration of Conformity (DoC)

"Hereby, we and Panasonic Testing Centre (Europe) GmbH (PTC), declares that this Personal Computer is in compliance with the essential requirements and other relevant provisions of the Directive 1999/5/EC." Hint:

If you want to get a copy of the original DoC of our products which relates to the R&TTE, please contact to our web address: http://doc.panasonic-tc.de

### Network connection.

The terminal equipment is intended for connection to the following public network; In all the countries of European Economical Area;

- Public Switched Telephony Networks

#### Technical Features.

The terminal equipment includes the following features;

- DTMF dialing
- Maximum bitrate receiving mode: 56 kbits/s
- Maximum bitrate sending mode: 33.6 kbit/s

This product is designed to interwork with the Public Switched Telecommunication Networks in UK, Ireland, Netherlands, Sweden, Denmark, Finland, Switzerland, Luxembourg, Belgium, France, Germany, Spain, Portugal, Iceland, Greece, Italy, Norway and Austria.

### **Compliance Notice - CE Mark**

This equipment is in conformance with the requirements of the European Council Directive listed below:

73/23/EEC Low Voltage Directive with amendment 93/68/EEC 89/336/EEC EMC Directive with amendments 92/31/EEC and 93/68/EEC

This Notice is based upon compliance of the product to the following standards:

EN60950

EN55022

EN61000-3-2

EN61000-3-3

EN55024

### **Important Safety Instructions**

When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the following:

- 1. Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.
- 2. Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
- 3. Do not use the telephone to report a gas leak in the vicinity of the leak.
- 4. Use only the power cord and batteries indicated in this manual. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.

SAVE THESE INSTRUCTIONS

### 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.

### **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 Direct Sunlight on the LCD Panel**

The LCD panel should not be exposed to direct sunlight or ultraviolet light.



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

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



#### 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. Data stored on the hard disk may be lost.



#### 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.



### **Avoid Excessive Force on the Display**

Do not apply excessive downward force on the display.

### Cables

Use of an interface cable longer than 3 m (9.84 feet) is not recommended.

### **Read Me First**

### **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 a car 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. 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 55 °C {32 °F to 131 °F}). (☐ Reference "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 does 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\*1 down to avoid problems.
- 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. ( Reference "Security Measures" and "SD Memory Card/MultiMedia Card")
- \*1 Windows XP : This computer uses Microsoft® Windows® XP Professional.

  Windows 2000 : This computer uses Microsoft® Windows® 2000 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. 

\*\*Reference\*\* (Security Measures\*\*)

### **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.

### When Disposing of or Transferring Ownership of This Device

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. Even if you delete data or initialize the hard disk through normal Windows commands, data can still be read using special software. In order to erase all data, either have the data erased by a specialist (at a charge) or use the hard disk data erase utility (included) ( page 30). (Note that this hard disk data erase utility does not guarantee that data will be completely erased.)

Also, note that if you transfer ownership of this device without deleting commercial software that you have installed to the hard disk, you may be in violation of the licensing agreement for that software.

### **Read Me First**

### **Computer Viruses**

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

We recommend you run the software:

- After 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).

### Wireless LAN

To prevent theft of data or unauthorized access to the hard disk via a wireless LAN.

If you plan to use wireless LAN functions, we recommend that you do so only after making the appropriate security settings, such as for data encryption.

### **Windows Update**

You can use the latest patches and service packs for Windows with the following menus. (Do not apply "Driver Update" even if a message to update a driver appears. If a driver update is required, contact to our web address.)

Windows XP

[start] - [All programs] - [Windows Update]

Windows 2000

[Start] - [Windows Update]

### **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 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.

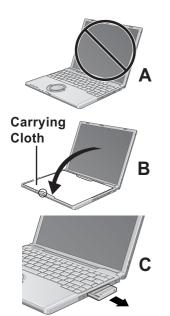
### Areas with electronic equipment

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

#### Areas with extremely high/low temperatures

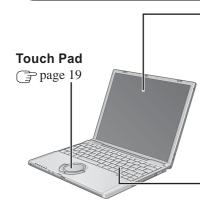
• Do not leave things near the computer that are sensitive to heat. During operation, the computer may become warm.

### Handling



- This computer has been designed so as to minimize shock to the LCD and 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 carry the computer while the display is open, or carry it by gripping the display or the cabinet around the display (see figure A). When closing the display, ensure that the latch is positioned correctly in the slot ( page 10).
- Do not carry your computer when the power is on. Lay the carrying cloth that comes with the computer across the keyboard (see figure B), and close the display gently. When closing the display, take care to ensure that the carrying cloth does not get caught in the panel switch, and check that the latch on the computer body (page 10) is properly aligned.
- Do not drop or hit your computer against solid objects.
- Remove all external devices, cables, PC Cards sticking out of the computer (see figure C),
   SD memory cards, and MultiMedia Cards before transporting the computer.
- We recommend preparing a fully charged battery pack.
   When transporting a spare battery pack inside a package, briefcase, etc., it is recommended that it be placed in a plastic bag so that its contacts are protected.
- 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**



#### **Display**

Avoid using water when cleaning the panel. Ingredients included in water may leave scratches 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 a 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 a dry soft cloth used for cleaning glasses.

#### Areas excluding the display

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 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 is not working properly, contact your technical support office ( page 33).

AC adaptor1	AC Cord1	Battery Pack1
Model No : CF-AA1623A		Model No :CF-VZSU24/ CF-VZSU24A
Product Recovery CD-ROM	Modem Telephone Cable1	Operating Instructions (This book)1
Windows XP3 Windows 20002		Windows® Book 1

Refer to page 9 for details on the carrying cloth for protecting the keyboard.

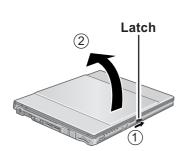
## **2** Read the LIMITED USE LICENSE AGREEMENT. ( page 29) Before removing the seal covering the power switch, read the LIMITED USE LICENSE AGREEMENT.

### **3** Turn the computer over and insert the battery pack.

Make sure the battery pack is facing the correct direction, slide it in the direction of the arrow, and then check to ensure that the battery pack is held firmly by the latches on the left and right sides.

### CAUTION

- Be sure the battery pack is properly connected to the connector.
- Do not touch the terminals on the battery pack and the computer. The battery pack may no longer function properly if the contacts are dirty or damaged. Also, the computer may not operate properly.
- Before using the battery pack, carefully read "Precautions (Battery Pack)"
   ( page 6).



Latches

**Battery Pack** 

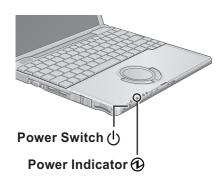
### **4** Open the display.

- (1) Slide the latch located at the front.
- 2 Lift open the display.

### **CAUTION**

- Do not open the display wider than necessary (160° or more).
- Do not apply excessive pressure to the LCD. Also, do not hold the LCD when opening or closing the display.





### **5** Connect your computer to a power outlet.

The battery pack will be charged automatically.

Charging Time: Approx. 3 hours

(Varies depending on the usage conditions.)

### CAUTION

- Be sure the AC adaptor is connected until completing Step 8 on page 13.
- When using the computer for the first time, do not connect any peripheral device except the battery pack and AC adaptor to the computer.

### 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 running from the battery pack alone.

### **6** Turn your computer on.

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

### **CAUTION**

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

### **7** Setup Windows.

### Windows XP

### CAUTION

- Do not press any key or move the touch pad until [Windows XP Professional Setup] is displayed.
- Only English can be used for inputs during Windows setup.
- 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 [Next].

Do not change the settings in [To change these settings, click Customize] of [Regional and Language Options] when setting up Windows. The settings will not be properly established. Set the language(s) after Windows is set up ( ) page 14).

4 Enter your name and organization and then select [Next].

### **First-time Operation**

(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. You can create a password reset disk beforehand ( page 15).

### NOTE

- It may take two to three minutes until the next screen is displayed. Wait, and do not press any keys, or touch the touch pad, etc.
- (6) At [Networking Settings], select [Typical settings], then select [Next].
- (7) 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.
- (8) 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.

### NOTE

### When creating a new user account:

- If you make mail settings, create password reset disks ( page 15), 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.
- ① Change the settings of language in [start] [Control Panel] [Date, Time, Language, and Regional Options] [Regional and Language Options] ( page 14).

### NOTE

- If [Windows XP is currently configured to manage the Intel(R) PRO/Wireless LAN adaptor.] is displayed, select [Yes].
- If you use the wireless LAN, be sure to refer to the Reference Manual's "Wireless LAN" section.

### Windows 2000

### **CAUTION**

- Do not press any key or move the touch pad until [Windows 2000 Professional Setup] is displayed.
- (1) At [Welcome to the Windows 2000 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.
- (6) Enter the correct date, time and the time zone, then select [Next].
- 7 At [Networking Settings], select [Typical settings], then select [Next].
- (8) 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.
- (9) At [Welcome to the Network Identification Wizard], select [Next].
- ① At [Users of This Computer], select [Users must enter a user name and password to use this computer], then select [Next].
- (11) Select [Finish].
- (12) Enter your administrator password and select [OK].

### 8 Install the Acrobat® Reader.

### NOTE

- Acrobat Reader is necessary to read the Reference Manual, which explains detailed operational procedures concerning your computer or Important Tips.
- Match the language for non-Unicode programs and the language of the Acrobat Reader as follows.

(Incorrect settings may result in garbled characters.)

Language for non-Unicode programs  in [Control Panel] - [Date, Time, Language, and Regional Options] - [Regional and Language Options] - [Advanced]	Acrobat Reader
Chinese (Hong Kong S.A.R.)	Traditional Chinese
Chinese (PRC)	Simplified Chinese

- After one Acrobat Reader has been installed, uninstall the existing Acrobat Reader before installing the Acrobat Reader in a different language.
- (1) In [start] [Run], input the following and select [OK].

English: [c:\util\reader\m\acroreader51\_enu\_full.exe]
Traditional Chinese: [c:\util\reader\tc\acroreader51\_cht\_full.exe]
Simplified Chinese: [c:\util\reader\sc\acroreader51 chs full.exe]

- (2) Select [Next].
- (3) Select [Next].
- (4) Select [OK].

### **First-time Operation**

### **Setting Languages** Windows XP

<Languages installed in this computer>

·English ·Traditional Chinese ·Simplified Chinese

To change the settings of language, make the settings in the following procedure: [start] - [Control Panel] - [Date, Time, Language, and Regional Options] - [Regional and Language Options]

### [Regional Options] - [Standards and formats]:

The currencies, and so on, will be displayed according to the locale.

In the default setting, [Standards and formats] is set to [Chinese (Hong Kong S.A.R.)].

### [Languages] - [Details] - [Installed services]:

You can select the language to be used for inputs.

In the default setting, [Installed services] is set to [Chinese (Taiwan) • Microsoft New Phonetic IME 2002a] and [English (United States) • US].

### <How to add input languages>

- **1** Select [Add] in [Installed services].
- **2** Select [Input language] and [Keyboard layout/IME].
- **3** Select [OK], and then select [OK].

You can switch the input method using **Shift** + **Alt**.

### [Languages] - [Language used in menus and dialogs]:

The menus and help files of Windows will be displayed in individual languages. In the default setting, [Language used in menus and dialogs] is set to [English].

#### [Advanced] - [Language for non-Unicode programs]:

If you will be running non-Unicode programs on the MUI (Multilingual User Interface) system, you should set this menu to match the language of the non-Unicode programs. Since this is a system wide setting, only one language is supported concurrently on the system. In the default setting, [Language for non-Unicode programs] is set to [Chinese (Hong Kong S.A.R.)]. Change this setting when the English or Simplified Chinese version of the program does not work properly ( page 24).

### CAUTION

 Set the same language for both [Language used in menus and dialogs] and [Language for non-Unicode programs]. Otherwise, characters may be garbled or the screens may not be displayed properly.

### NOTE

- Some UI (User Interface) strings remain in English even if the user's UI is set to another language. This is because certain strings in some component areas do not work with MUI yet (i.e. remain in English) due to the complexity of the technologies (The main areas include: all 16-bit programs, registry keys and values, and strings in INF files.) This affects about 3% of the User Interface most of the areas affect administrative tools. Localized systems have all these strings translated.
- If you decide to uninstall a UI language in use by the current user, you must reboot the computer to ensure the language is completely removed or set the UI language back to English first and then uninstall the UI language.
- When you use MUI OS and localized OS versions together, use English computer names on localized versions of Windows XP.
- When saving an MMC (Microsoft Management Console) file, use Latin characters only.
   Using characters outside the system code page will cause the help file not to display.
- The following components do not switch User Interface language:

Welcome screen (The screen that appears when logging on to Windows)

MSN Explorer

NetMeeting

Portions of Internet Connection Wizard

**HyperTerminal** 

Narrator

(not all components listed here)

For more information, refer to "c:\windows\mui\relnotes.txt".

### Information for Windows XP

- 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.
   You can also change the way a user logs on or off.
   The procedure in this manual uses the method or view of the Windows XP default

### Resetting the password

Windows XP has a function to reset a forgotten password.

setting (not Classic view or Classic Start menu etc.).

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

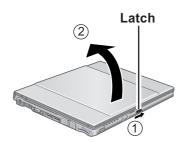
- **1** Connect the USB floppy disk drive (optional: CF-VFDU03) to your computer.
- **2** Select [start] [Control Panel] [User Accounts].
- **3** Select [Prevent a forgotten password] from [Related Tasks] menu of the account you used to logon, and create a password reset disk following the on-screen 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



### **1** Open the display.

- 1) Slide the latch located at the front.
- (2) Lift open the display.

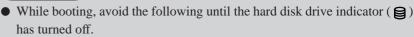
### CAUTION

- $\bullet$  Do not open the display wider than necessary (160° or more).
- Do not apply excessive pressure to the LCD. Also, do not hold the LCD when opening or closing the display.

### **2** Turn your computer on.

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



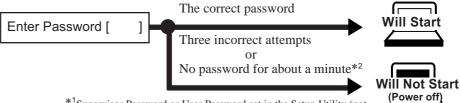


- Connecting or disconnecting the AC adaptor.
- Touching the power switch.
- Performing any keyboard, touch pad, or external mouse operations.
- Closing the display.
- Once the computer is powered off, you must wait at least ten seconds before powering it on again.
- When the CPU temperature rises, the 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 your technical support office. ( page 33)

### ■ If [Enter Password] is displayed

Enter your password\*1 and press **Enter** . ( Reference "Security Measures")

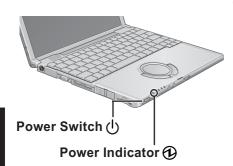


\*1Supervisor Password or User Password set in the Setup Utility (not the Windows password).

\*2If the setup utility has been started up, the power will not be turned off even after one minute has passed.

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

The standby or hibernation mode has been set ( \*\*Standby/Hibernation Functions\*\*).



### **3** Log on to Windows.

### Windows XP

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.

### Windows 2000

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

### **4** Select your application.

You are able to start working on your computer.

### NOTE

- The power saving function is factory set, so if there is no input from a key, the touch pad or an external mouse (when one is connected) for a certain interval of time, the power to the LCD and hard disk may be turned off. The LCD will resume operation when the touch pad or an external mouse (when one is connected) is used or a key is pressed. The power to the LCD may be turned off even when an application software is being installed. In this case, because it is conceivable that a selection dialog box will be shown, do not press **Space** or **Enter** to attempt to resume from this condition as doing so may trigger a selection, but instead, press a key unrelated to the direct triggering of a selection, like **Ctrl**.
  - In addition, when the computer is left alone, it automatically enters the standby or hibernation mode ( "Standby/Hibernation Functions"). The computer will resume by sliding the power switch.
- You may hear a mechanical "click" shortly after the hard disk indicator has turned off when there has been no input from a key or device operation, when the computer enters the standby or hibernation mode, or when Windows is shut down. This is the sound of the head shifting positions, to reduce power consumption or to protect the hard disk from shocks. This sound does not indicate a malfunction.

### Windows XP

When switching to a different user with the Fast User Switching function, it may
not be possible to set the settings of the display. In this case, log off all logged in
users, and try the operation once more. If the problem persists, restart the computer.

### 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 ( \*\*Standby/Hibernation Functions\*\*).

1 Save important data and close each application.

Windows XP

Select [start] - [Turn Off Computer].

Windows 2000

Select [Start] - [Shut Down].

Windows XP

Select [Turn Off].

Windows 2000

Select [Shut down], then select [OK].

Your computer will power off automatically.

Restarting your computer (without shutting down)

Windows XP

Select [Restart].

Windows 2000

Select [Restart], then select [OK].

### **CAUTION**

- Do not do the following during the shutdown/restart procedure.
  - Connecting or disconnecting the AC adaptor.
  - Touching the power switch.
  - Performing any keyboard, touch pad or external mouse operations.
  - Closing the display.

### NOTE

• To shut down using the keyboard,

Windows XP

Press , U, and select [Turn Off] with + (†), then press Enter.

Windows 2000

Press , U, and select [Shut down] with , then press Enter.

• To quickly resume computer operation after shutting down,

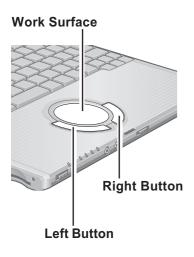
The standby or hibernation function is available ( Reference "Standby/Hibernation Functions").

### **Touch Pad**

Use the touch pad to move the cursor on the display and perform normal computer operations.

### **CAUTION**

• By design the touch pad is to be used with a finger tip only. Therefore, do not use any implement which causes damage on the work surface.



Function	Operation
Moving the Cursor	Move the tip of your finger lightly over the work surface.
Tapping/Clicking	tapping
Double-Tapping/ Double-Clicking	double-tapping double-clicking
Dragging	Two quick taps, but on the second tap leaving your finger down (applying pressure) and moving it on the work surface.  While holding down the button, moving your finger on the work surface.
Scroll	Reference "Touch Pad"

### NOTE

Refer to [Mouse Properties] for information on basic operations other than the above.
 To display [Mouse Properties]:

( Windows XP )

[start] - [Control Panel] - [Printers and Other Hardware] - [Mouse]

Windows 2000

[Start] - [Settings] - [Control Panel] - [Mouse]

### Handling the Touch Pad

- Do not place any object on the work 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).
- Try to avoid having any harmful substances such as oil, come in contact with the touch pad. The cursor may not work properly in such cases.
- When the touch pad becomes dirty:

Wipe to remove dirt by using a dry soft cloth such as gauze or a soft cloth first applied with detergent diluted with water and then thoroughly wrung.

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.

### 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.

### **Running the Reference Manual or Important Tips**

Reference Manual

Windows XP

Select [Reference Manual] in [start].

Windows 2000

Select [Reference Manual] in [Start] - [Programs] - [Panasonic] - [On-Line Manuals].

Important Tips

Select 🚇 on the desktop.

Important Tips can also be accessed from the following menu.

Windows XP

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

Windows 2000

Select [Important Tips] in [Start] - [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.

Windows XP

• To display or print PDF files that contain text in Traditional Chinese, Simplified Chinese, Japanese, or Korean, you must first download Asian font packs for Adobe Acrobat Reader. For more information, access the following URL. http://www.adobe.com

### **List of Error Codes**

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 that the ones marked with an asterisk (\*), write down the message and contact your technical support office. ( page 33) 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 in 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.

#### 0211 Keyboard error

Keyboard not working

#### 0212 Keyboard Controller Failed

Keyboard controller failed test. May require replacing keyboard controller.

#### 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 in 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 clock battery indicator shows the 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 your technical support office.

#### 0260 System timer error

The timer test failed. Requires repair of system board.

#### 0270 Real time clock error

Real-time clock fails BIOS test. May require board repair.

### 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.

### 02D0 System cache error - Cache disabled

Contact your technical support office.

### 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.

### **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.

#### 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, 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 your technical support office. ( page 33) You can use the PC Information Viewer to check the computer's usage status. ( page 26)

### Starting Up

Starting Up	
The power indicator or bat- tery indicator is not lit	<ul> <li>Check the cable connection for the AC adaptor.</li> <li>Check to see if a fully charged battery is properly inserted.</li> <li>Remove the battery pack and disconnect the AC adaptor, then connect them again.</li> </ul>
The computer does not operate when a USB device is connected	• The computer may not operate when certain USB devices are connected. Disconnect the USB device, or set [Legacy USB Support] to [Disable] in [Advanced] menu of the Setup Utility.
[Enter Password] is displayed	• Input your Supervisor Password or User Password. If you have forgotten it, contact your technical support office ( page 33).
POST Startup Error(s) is displayed	page 21
Windows startup, or an operation is extremely slow	<ul> <li>Press F9 in the Setup Utility ( Reference "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.)</li> <li>If operations slow down during streaming playback, try changing the number of colors of the display.</li> </ul>
The date and time are incorrect	<ul> <li>You can set the date and time using the following menu: Windows XP [start] - [Control Panel] - [Date, Time, Language, and Regional Options] - [Date and Time] Windows 2000 [Start] - [Settings] - [Control Panel] - [Date/Time] </li> <li>If you continue to experience problems, the internal battery maintaining the clock may need to be replaced. Contact your technical support office ( page 33).</li> <li>When the computer is connected to a LAN, confirm the date and time of the server.</li> <li>This computer will not correctly recognize the date and time starting from the year 2100 A.D.</li> </ul>
When resuming from the standby or hibernation mode, [Enter Password] does not appear even if a password has been set in the Setup Utility	<ul> <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:         <ul> <li>Windows XP</li> </ul> </li> <li>Select the account to change in [start] - [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>Windows 2000</li> <li>Set the password in [Start] - [Settings] - [Control Panel] - [Users and Passwords], then add the check mark for [Prompt for password when computer goes off standby] in [Control Panel] - [Power Options] - [Advanced].</li> </ul>
When "Invalid system disk. Replace the disk, and then press any key." (or a simi- lar message) is displayed	<ul> <li>This means a floppy disk that does not contain system startup information has been left in the floppy disk drive. Remove the floppy disk, and press any key.</li> <li>This message may appear when certain USB devices are connected. Remove the USB device, or set [Legacy USB Support] in [Advanced] menu of the Setup Utility to [Disable].</li> <li>If the message still appears even after trying the above two measures, this may be an indication that some type of hard disk failure has occurred. Contact your technical support office ( page 33).</li> </ul>

### ■ Starting Up (continued)

otarting op (continuea)	
When the administrator	Set the password again in the following procedure.
password is forgotten	Windows XP
	If you have created a password reset disk ( page 15), 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.
	If you have not created a password reset disk, after reinstalling, setup Windows and then
	set the password again.
	Windows 2000
	After reinstalling, setup Windows and then set the password again.
When the previous item is	• Press F9 in the Setup Utility ( Reference "Setup Utility"). This will restore the Setup
not the cause	Utility's settings to their default values (except the password settings).
	Try removing all peripheral devices.
	• Check a disk error using the following procedure.
	1 Display [Local Disk(C:) Properties].
	Windows XP
	Select [Local Disk(C:)] with the right button in [start] - [My Computer], and select
	[Properties].
	Windows 2000
	Select [Local Disk(C:)] with the right button in [My Computer], and select [Properties].
	2 Select [Tools] - [Check Now].
	<b>3</b> Select [Start] after selecting required items in [Check disk options].
	• At startup, hold down <b>F8</b> when [Panasonic] screen disappears, and release your finger
	when the Windows Advanced Option Menu is displayed. Start the computer in Safe
	Mode, and confirm the details of the error.

### Display

No display after powering on	<ul> <li>When there is no display to an external display,</li> <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> <li>The display destination may be set to the external display.</li> <li>Try changing the display destination by pressing Fn + F3.</li> <li>If you want to switch the display destination repeatedly by pressing Fn + F3, make sure that the display destination has switched completely each time before pressing Fn + F3 again.</li> </ul>
The power has not been turned off, but after a cer- tain period of time, there is no display	<ul> <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), press any key unrelated to the direct triggering of a selection, like</li></ul>
When the battery pack is used, the screen is darker than when the AC adaptor is connected	<ul> <li>Press Fn + F2 and adjust the brightness. Note, however, that when the brightness is increased, the battery running time will become shorter.</li> <li>Brightness can be set to separate levels for when the AC adaptor is connected and when it is disconnected.</li> </ul>
The cursor cannot be controlled properly	<ul> <li>If you are using an external mouse, ensure that the external mouse has been connected correctly.</li> <li>Restart the computer by using the keyboard (Press , U , and select [Restart] with , then press Enter ).</li> <li>If the computer does not respond to keyboard commands, read "Computer hangs" page 25).</li> </ul>

### **Dealing with Problems (Summary)**

### Display (continued)

Diopiay (continuou)	
An afterimage appears (e.g., green, red, and blue dots remain on the display) or there are dots not displaying the correct colors	<ul> <li>If an image is displayed for a prolonged period of time, an afterimage may appear. This is not a malfunction. The afterimage will disappear when a different screen is displayed.</li> <li>High-precision and advanced technologies are necessary in the production of color liquid crystal displays (color LCDs). Therefore, if 0.002% or less of the picture elements either fail to light or remain constantly lit (that is, more than 99.998% of elements are functioning properly), no defect is considered to exist.</li> </ul>
The screen becomes disordered	• Changing the number of colors or refresh rate of the display may affect the screen. Restart the computer.
The external display no longer displays properly	• When an external display not compatible with the power saving mode is used with the computer, the display may not function correctly when the computer enters the power saving mode. In such cases, turn off the power to the external display.
During simultaneous dis- play, the screen of the exter- nal display becomes disor- dered	<ul> <li>Try changing the display by pressing Fn + F3.</li> <li>If you continue to experience problems, try changing the display destination in the following menu:         <ul> <li>Windows XP</li> </ul> </li> <li>[start] - [Control Panel] - [Other Control Panel Options] - [Intel(R) Extreme Graphics] - [Devices]         <ul> <li>Windows 2000</li> <li>[Start] - [Settings] - [Control Panel] - [Intel(R) Extreme Graphics] - [Devices]</li> </ul> </li> </ul>
When an MPEG file is being played with Media Player, the display destination cannot be switched using Fn + F3	• The display destination cannot be switched while an MPEG file is playing. Stop playing the MPEG file before switching the display destination.
For Hong Kong Application is not displayed properly, or characters are garbled	● Is the application a non-Unicode program? When non-Unicode programs are run on Windows XP, you must select the language appropriate to that program. Set [Language for non-Unicode programs] in [Control Panel] - [Date, Time, Language, and Regional Options] - [Regional and Language Options] - [Advanced].

### Shutting down

Windows cannot be shut	• If a USB device is connected, try removing it.
down or restarted	

### Battery Indicator

The red indicator lights	• The battery level is very low (the charge is less than approx. 9% capacity).  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.
The red indicator blinks	<ul> <li>Quickly save your data and power off your computer. Remove the battery pack and disconnect the AC adaptor, then connect them again.</li> <li>If the problem persists, contact your technical support office ( page 33). Possible failure in the battery pack or charging circuit.</li> </ul>
The orange indicator blinks	• 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 in this state.

### Reference Manual

### The Reference Manual is not displayed

• Is Acrobat Reader installed?

If Acrobat Reader is not installed, run the following\*1 in [start]\*2 - [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 [start]\*2

\*1 English :[c:\util\reader\m\acroreader51\_enu\_full.exe]

Traditional Chinese: [c:\util\reader\tc\acroreader51\_cht\_full.exe]

Simplified Chinese: [c:\util\reader\sc\acroreader51\_chs\_full.exe]

\*2 Windows 2000 : [Start]

### SD Memory Card

### For Hong Kong Cannot log on with the SD memory card

• If you change the setting for Language for non-Unicode programs after the check mark has been added in [Use when logging on to Windows] under [SD Card Settings] - [Setting for this SD card], remove the check mark from [Use when logging on to Windows] under [SD Card Settings] - [Setting for this SD card], and set the user name and password again.

( Reference "SD Memory Card/MultiMedia Card")

### Fast User Switching Function Windows XP

### Some applications may not work properly

- When switching to a different user with the Fast User Switching function, the following problems may occur. In this case, log off all logged in users, and try the operation once more. If the problem persists, restart the computer.
  - Some applications may not work properly.
  - Key combination with **Fn** may not work.
  - It may not be possible to set the settings of the display.
  - The wireless LAN can not be used.

#### **Others**

### Computer hangs

- Press Ctrl + Shift + Esc to open Windows Task Manager and close the software application which is not responding.
- After shutting down by sliding the power switch for more than four seconds, slide the power switch to power on and open the application again.

If the program no longer works normally, delete the program using the following menu. Then reinstall the program.

( Windows XP ) : [start] - [Control Panel] - [Add or Remove Programs]

Windows 2000 : [Start] - [Settings] - [Control Panel] - [Add/Remove Programs]

### **Dealing with Problems** (Summary)

### **Check the Computer's Usage Status**

You can use the PC Information Viewer to check the computer's usage status, and use this information when calling technical support office for advice. (If you have not logged on with administrator authority, some information will be displayed as [Not Found].)

### Running PC Information Viewer

### Windows XP

**1** Select [start] - [All Programs] - [Panasonic] - [PC Information Viewer] - [PC Information Viewer].

#### Windows 2000

**1** Select [Start] - [Programs] - [Panasonic] - [PC Information Viewer] - [PC Information Viewer].

Click on the items to display detailed information for each item.

### Save information to a file

Displayed information can be saved to a text file(.txt).

- 1 Run the PC Information Viewer and display the information you wish to save.
- 2 Select [Save].
  - To save the item that is displayed.
     Select [Save only the information displayed] and [OK].
  - To save all items.
     Select [Save all the information] and [OK].
- **3** Select the folder, input the file name, then select [Save].

### Save a copy of the screen to a file

You can save a copy of the screen currently being displayed to a file in bitmap format (.bmp).

- **1** Display the screen you want to save.
- 2 Press Ctrl + Alt + F8. [pcinfo.bmp] will be saved in [My Documents] folder. If [pcinfo.bmp] file already exists, it will be overwritten. (If [pcinfo.bmp] file is set as a "Read only" or "Hidden" file, the new file cannot be saved).

### NOTE

• You can also save a copy of the screen to a file using the following procedure.

### ( Windows XP )

Select [start] - [All Programs] - [Panasonic] - [PC Information Viewer] - [Screen Copy]. Windows 2000

Select [Start] - [Programs] - [Panasonic] - [PC Information Viewer] - [Screen Copy].

- At the time of purchase, the computer is set so that a copy of the screen can be saved to
  a file by pressing (Ctrl) + (Alt) + (F8). This setting can be changed using the
  following procedure.
  - **1** Select [PC Information Viewer].

#### ( Windows XP )

Select [start] - [All Programs] - [Panasonic] - [PC Information Viewer].
Windows 2000

Select [Start] - [Programs] - [Panasonic] - [PC Information Viewer].

- **2** Select [Screen Copy] with the right button, and select [Properties] [Shortcut].
- **3** Move the cursor to [Shortcut key], and press the key to be used for the shortcut.
- Colors are saved in 256 colors.
- When using an Extended Desktop.
   Saves a copy of the screen displayed on the primary device.

### Reinstalling Software

When reinstall procedure is performed, the contents of the hard disk will be erased. Be sure to back up any critical data on your hard disk to another media or to an external hard disk before running the reinstall procedure.

The reinstall procedure will return the computer to its original condition.

• If you have created partitions for data, the data may be erased or become corrupt as a result of the reinstall procedure.

### **Before Reinstallation**

### Preparing

- Product Recovery CD-ROM (included)
- Panasonic USB CD drive (optional: CF-VDRRT1M)

### **Important**

- Before the reinstallation procedure, remove all peripherals (except for the CD drive).
- Be sure the AC adaptor is connected until the reinstallation procedure is completed.

### Reinstalling

- 1 Turn off the computer and connect the USB CD drive to the computer.
- 2 Turn the computer on, and press (F2) while [Panasonic] screen is displayed.

The Setup Utility will start up.

If the password has been set, enter the Supervisor Pass-

**3** Write down all of the contents of the Setup Utility and then

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

- 4 Select [Boot] menu, then select [USB CD Drive] and press (**F6**) until [USB CD Drive] is at the top of the [Boot]
- **5** Place the disc number one of the recovery CDs into the CD drive.
- **6** Press **F10**.

At the confirmation message, select [Yes] and press

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.

#### Windows XP

Select a number

Reinstalling: Windows(R) XP Professional

Reinstall Windows to the whole HDD to factory default.

- Make two partitions, for the operating system and data. And reinstall Windows to the operating system partition. (All existing partitions on HDD will be lost.) Reinstall Windows to the first partition.

#### Windows 2000

Select a number

Reinstalling: Windows(R) 2000 Professional

- 1. Reinstall Windows to the whole HDD to factory default.
  2. Make two partitions, for the operating system and data. And reinstall Windows to the operating system partition.

(All existing partitions on HDD will be lost.)

- 3. Reinstall Windows to the first partition
- Make a selection from the menu.
  - When selecting [2], enter the basic partition size for the operating system installation and press **Enter**). (The data partition size is the remainder after subtracting the basic partition size.)
  - To select [3], the initial partition size must be 6 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 an hour.)

### Reinstalling Software

### **CAUTION**

- Do not interrupt the reinstall 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 reinstall 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 cover of the CD drive and then close the cover, then select [OK].
- **11** After the reinstallation procedure completes, this screen should appear.

### Windows XP

[Recovery] is complete. Windows(R) XP Professional install wizard will start after reboot. After turning off the power, please disconnect the CD/DVD-ROM drive, and turn the power on again.

#### Windows 2000

[Recovery] is complete. Windows(R) 2000 Professional install wizard will start after reboot. After turning off the power, please disconnect the CD/DVD-ROM drive, and turn the power on again.

- **12** Remove the recovery CD and press any key to shut down the computer, then remove the CD drive.
- **13** Turn the computer on, and press **F2** while [Panasonic] screen is displayed.

The Setup Utility will start up.

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

**14** 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.)

**15** Press **F10**.

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

- **16** Perform the setup procedure for Windows by following the instructions on the screen ( page 11).
- 17 Install the Acrobat Reader ( page 13).
- **18** Run the Setup Utility and change the settings where necessary.

### LIMITED USE LICENSE AGREEMENT

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

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

#### **LICENSE**

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

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

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

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

#### **TERM**

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

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

### **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 (included)
- Panasonic USB CD drive (optional: CF-VDRRT1M)

### 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 off the computer.
- **2** Connect the USB CD drive to the computer.
- **3** Turn the computer on, and press **F2** while [Panasonic] screen is displayed. The Setup Utility will start up.

  If the password has been set, enter the Supervisor Password.
- 4 Select [Boot] menu, then select [USB CD Drive] and press F6 until [USB CD Drive] is at the top of [Boot] menu.
- **5** Place the disc number one of the recovery CDs into the CD 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
Recovery ] Reinstall Windows.     Erase HDD] Erase the whole data on HDD for security.
0. [ Cancel ] Cancel.

- **7** Select [2. [Erase HDD]].
- **8** At the confirmation message, press **Y**.
- **9** At the start menu, press **Enter**.
- **10** The approximate time required for erasing data will be displayed. Press **Space** .
- 11 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.)
- **12** After the operation is complete:

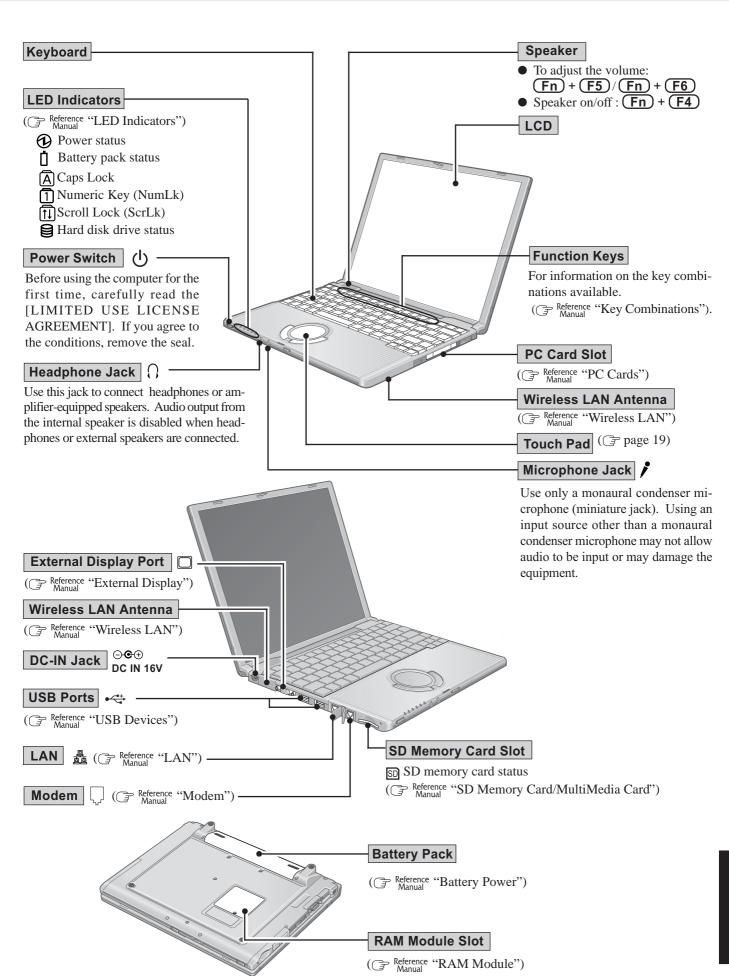
Under normal conditions, the message [Hard disk data has been deleted.] will be displayed. Press any key. The computer will be shut down.

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

13 Remove the recovery CD and the CD drive.

# Appendix

### **Names and Functions of Parts**



### **Specifications**

### Main Specifications

Model No.				CF-T2AWAZZGH
CPU				Intel® Pentium® M Processor 900 MHz
				L1 Cache Memory: 32 KB
				L2 (Second) Cache Memory: 1MB
Memory (Expandable to)		)	256 MB (512 MB Max.)	
Video Mer	nory			UMA (64 MB Max.)*1
LCD Type Displayed Colors*2				12.1 type (TFT)
		lors*2	65536/16M colors (800 × 600 dots/1024 × 768 dots)	
External Display			65536/16M colors (800 × 600 dots/1024 × 768 dots/1280 × 1024 dots)*3	
Hard Disk Drive			Approx. 40 GB*4	
Keyboard				85 keys
Slots	PC Car	PC Card Slot		One Type I or Type II
		Allow	able current	3.3 V: 400 mA, 5 V: 400 mA
	RAM Module Slot*5		Slot*5	172-pin, 2.5 V, Micro DIMM, DDR SDRAM, PC2100*6
	SD Memory Card Slot		ard Slot	SD memory card/MultiMedia Card
Interface	Externa	al Disp	lay Port	Mini Dsub 15-pin female
	Microphone Jack		ack	Miniature jack, 3.5 DIA
	Headphone Jack		ack	Miniature jack, 3.5 DIA, Impedance 32 Ω, Output Power 4 mW × 2
	USB Ports			4-pin × 2, USB 2.0
	Modem			RJ-11 jack, Data: 56 kbps (V.92 & K56flex)*7 FAX:14.4 kbps
	LAN			RJ-45 jack, IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX
	Wireless LAN			IEEE 802.11b compliant Frequency 2.4 GHz band
Pointing D	evice			Touch Pad
Sound				WAVE and MIDI playback, Monaural Speaker (built in)
Battery Pack			Li-ion 7.4 V, 4.4 Ah	
	Operati	ing Tin	ne*8	Approx. 5 hours
	Chargii	Charging Time*8		Approx. 3 hours
-	Clock Battery		,	Coin type lithium battery 3.0 V
AC Adapto	or In	put		100 V - 240 V AC, 50 Hz/60 Hz
•		utput		16 V DC, 2.5 A
Power Consumption*9				Approx. 35 W*10 / Approx. 40 W (maximum when recharging in the ON state)
Environme		Temperature	5 °C to 35°C {41 °F to 95 °F}	
			Humidity	30% to 80% RH (No condensation)
	Not	Not in use	Temperature	-20 °C to 60 °C {-4 °F to 140 °F}
			Humidity	30% to 90% RH (No condensation)
Physical Dimensions (W × H × D)			268 mm × 26.1 mm(at the front)/39.1 mm(at the rear) × 210 mm (excluding protrusion){10.6 " × 1.0 " / 1.5 " × 8.3 "}	
Weight				Approx. 1070 g {2.4 lb}
Operating System				Microsoft® Windows® XP Professional with Service Pack 1
Utility Programs				Adobe® Acrobat® Reader, Intel® PROSet, WLAN Security Client, Setup Utility, SD-MovieStage, SD Utility, SD Drive Name Change Tool, Touch Pad Utility, DMI Viewer, PC Information Viewer, Hard Disk Data Erase Utility*11

<sup>\*1</sup> A segment of the main memory is allotted automatically depending on the computer's operating status. The size of the Video Memory cannot be set by the user.

- $^{\star 2}~$  A 16M color display is achieved by using the dithering function.
- \*3 Maximum resolution depends on the specifications of the external display.
- \*4 1GB = 109 bytes
- \*5 Options: CF-BAT0256U (256MB)
- \*6 Only a RAM card designed for PC2100 can be added.
- \*7 The settings for the K56flex modem need to be changed according to the AT command.
- \*8 Varies depending on the usage conditions, CPU speed, etc.
- \*9 Approx. 1.5 W when the battery pack is fully charged (or not being charged) and the computer is off.
- \*10 Rated power consumption.
- \*11 The Product Recovery CD-ROM is required.

# Appendix

### **Technical Support Office**

If you have a problem running your computer or using your equipment, contact the following:

Shun Hing Technology Co., Ltd. Technical Division

9th Floor, Peninsula Centre, 67 Mody Road, Hong Kong.

Phone: 23130666

### Memo



As an ENERGY STAR® Partner, Matsushita Electric Industrial Co., Ltd. has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

### Outline of the International ENERGY STAR® Office Equipment Program

The international ENERGY STAR® Office Equipment Program is an international program that promotes energy saving through the use of computers and other office equipment. The program backs the development and dissemination of products with functions that effectively reduce energy consumption. It is an open system in which business proprietors can participate voluntarily. The targeted products are office equipment such as computers, displays, printers, facsimiles, and copiers. Their standards and logos are uniform among participating nations.

Web Site: http://www.panasonic.co.jp/global