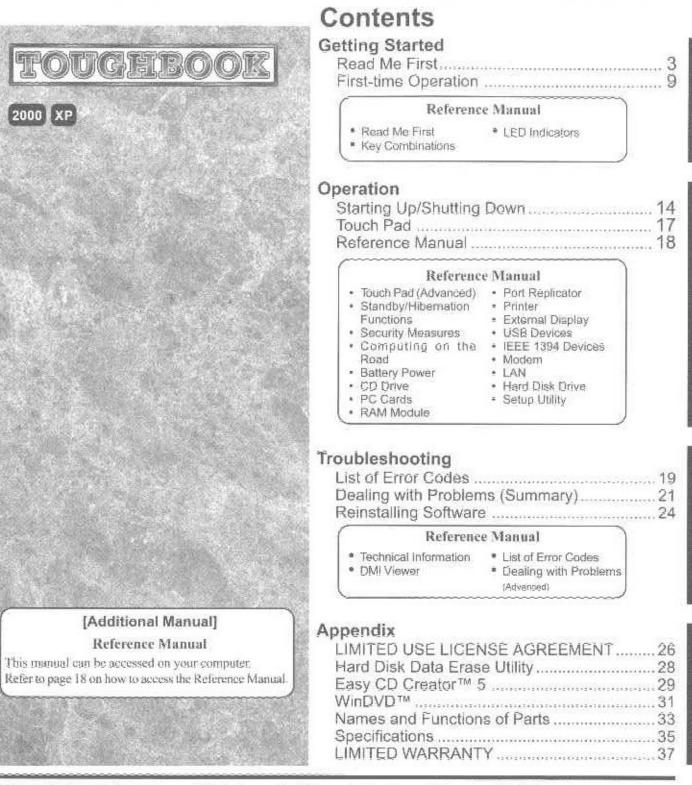


# **Panasonic**®

**Personal Computer** 

# **OPERATING INSTRUCTIONS**

Model No. CF-50 Series



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

**Froubleshooting** 

Appendix

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-50Y5KNUDM) 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

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 2000	Information for Microsoft <sup>®</sup> Windows <sup>®</sup> 2000 Professional users.
Windows XP :	Information for Microsoft <sup>®</sup> Windows <sup>®</sup> XP Professional users.
Enter	This illustration means to press the [Enter] key.
<b>Fn</b> + <b>F5</b> :	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.
	* Windows XPD : [start]
<b>F</b> :	Where to go for referred information.
Reference : Manual :	This illustration means to refer to the Reference Manual, which is available on your computer.
	Refer to page 18 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.
- Circular media such as CD-ROM and DVD-ROM are described as "discs".
- The following drives are described as "CD drive".
   CD-ROM drive, DVD-ROM drive, CD-R/RW drive, DVD-ROM & CD-R/RW drive.
- 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.

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#### 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.

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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)

#### FCC Regulation Notice for modem This equipment contains a FCC approved modem.

Manufacturer of modem: AMBIT Microsystems Corporation Model No. T60M099.03 or J07M040.07

#### FC Tested To Comply With FCC Standards FOR HOME OR OFFICE USE

1. This equipment complies with Part 68 of the FCC rules. On the computer is a label that contains, among other information, the FCC registration number and ringer equivalence number (REN) for this equipment. If required, this information must be provided to the telephone company.

- 2. An FCC compliant telephone cord and modular plug is provided with this equipment. This equipment is designed to be connected to the telephone network or premises wiring using a compatible modular jack which is Part 68 compliant. See Installation Instructions for details.
- 3. The REN is used to determine the quantity of devices which may be connected to the telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all area, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company.
- 4. If your telephone equipment cause harm to the telephone network, the telephone company will notify you in advice that temporary discontinuance of service may be required. But if advice notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.
- 5. The telephone company may take changes in it's facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.
- 6. If trouble is experienced with this equipment, for repair or warranty information, please contact Matsushita Electric Corporation of America at DIAL TOLL FREE 1-800-LAPTOP5 (1-800-527-8675). If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.
- 7. There are no user serviceable parts contained in this equipment.
- This equipment may not be used on coin service provided by the telephone company. Connection to party lines is subject to state tariffs.
- 9. The Telephone Consumer Protection Act of 1991 makes it unlawful for any person to use a computer or other electronic device to send any message via a telephone fax machine unless such message clearly contains in a margin at the top or bottom of each transmitted page or on the first page of the transmission, the date and time it is sent and an identification of the business or other entry, or other individual sending the message and the telephone number of the sending machine or such business, other entity, or individual. In order to program this information into your fax software, you should refer to the manual of the Fax software being used.
- 10.According to the FCC's electrical safety advisory, we recommend that you may install an AC surge arrestor in the AC outlet to which this equipment is connected. Telephone companies report that electrical surges, typically lightning transients, are very destructive to customer terminal equipment connected to AC power sources and that this is a major nationwide problem.

"Caution: To reduce the risk of fire, use only No.26 AWG or larger telecommunication line cord."

"ATTENTION: Pour réduire le risque d'incendie, utiliser uniquement des conducteurs de télécommunications 26 AWG ou de section supérieure."

#### Notice for the products using LCD

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

# For Canada

#### Industry Canada (IC) Notice for modem

This equipment contains an Industry Canada approved modem unit. The Industry Canada label is affixed on the modem unit.

#### **EQUIPMENT ATTACHMENT LIMITATIONS**

"NOTICE: The Industry Canada label identifies certified equipment. This certification means that the equipment meets telecommunications network protective, operational and safety requirements as prescribed in the appropriate Terminal Equipment Technical Requirements document(s). The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be coordinated by a representative designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas. Caution: Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate."

"NOTICE: The Ringer Equivalence Number (REN) assigned to each terminal device provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed 5."

#### RESTRICTIONS CONCERNANT LE RACCORDEMENT DE MATÉRIEL

"AVIS: L'étiquette d'Industrie Canada identifie le matériel homologué. Cette étiquette certifie que le matériel est conforme aux normes de protection, d'exploitation et de sécurité des réseaux de télécommunications, comme le prescrivent les documents concernant les exigences techniques relatives au matériel terminal. Le Ministère n'assure toutefois pas que le matériel fonctionnera à la satisfaction de l'utilisateur.

Avant d'installer ce matériel, l'utilisateur doit s'assurer qu'il est permis de le raccorder aux installations de l'entreprise locale de télécommunication. Le matériel doit également être installé en suivant une méthode acceptée de raccordement. L'abonné ne doit pas oublier qu'il est possible que la conformité aux conditions énoncées ci-dessus n'empêche pas la dégradation du service dans certaines situations.

Les réparations de matériel homologué doivent être coordonnées par un représentant désigné par le fournisseur. L'entreprise de télécommunications peut demander à l'utilisateur de débrancher un appareil à la suite de réparations ou de modifications effectuées par l'utilisateur ou à cause de mauvais fonctionnement.

Pour sa propre protection, l'utilisateur doit s'assurer que tous les fils de mise à la terre de la source d'énergie électrique, des lignes téléphoniques et des canalisations d'eau métalliques, s'il y en a, sont raccordés ensemble. Cette précaution est particulièrement importante dans les régions rurales. Avertissement: L'utilisateur ne doit pas tenter de faire ces raccordements lui-même; il doit avoir recours à un service d'inspection des installations électriques, ou à un électricien, selon le cas."

"AVIS: L'indice d'équivalence de la sonnerie (IES) assigné à chaque dispositif terminal indique le nombre maximal de terminaux qui peuvent être raccordés à une interface. La terminaison d'une interface téléphonique peut consister en une combinaison de quelques dispositifs, à la seule condition que la somme d'indices d'équivalence de la sonnerie de touts les dispositifs n'excède pas 5."

IES: Voir sous le fond de l'ordinateur

REN: See bottom of the computer

# Important Safety Instructions / Importantes Mesures De Sécurité

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.

Certaines mesures de sécurité doivent être prises pendant l'utilisation de matérial téléphonique afin de réduire les risques d'incendie, de choc électrique et de blessures. En voici quelquesunes:

- 1. Ne pas utiliser l'appareil près de l'eau, p.ex., près d'une baignoire, d'un lavabo, d'un évier de cuisine, d'un bac à laver, dans un sous-sol humide ou près d'une piscine.
- 2. Éviter d'utiliser le téléphone (sauf s'il s'agit d'un appareil sans fil) pendant un orage électrique. Ceci peut présenter un risque de choc électrique causé par la foudre.
- 3. Ne pas utiliser l'appareil téléphonique pour signaler une fuite de gaz s'il est situé près de la fuite.
- 4. Utiliser seulement le cordon d'alimentation et le type de piles indiqués dans ce manual. Ne pas jeter les piles dans le feu: elles peuvent exploser. Se conformer aux règlements pertinents quant à l'élimination des piles.

CONSERVER CES INSTRUCTIONS

# **Lithium Battery**

#### Lithium Battery!

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

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

#### Pile au lithium!

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

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

## **CD Drive Caution**

#### CAUTION!

THIS PRODUCT UTILIZES A LASER.

USE OF CONTROLS, ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. **REFER SERVICING TO QUALIFIED PERSONNEL** 

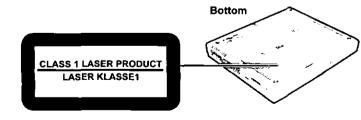
#### AVERTISSEMENT!

CET APPAREIL UTILISE UN LASER.

L'UTILISATION DE COMMANDES OU DE RÉGLAGES OU L'EXÉCUTION DE PROCÉDURES AUTRES QUE CELLES SPÉCIFIÉES ICI PEUVENT PROVOQUER UNE EXPOSITION À DES RADIATIONS DANGEREUSES.

NE PAS OUVRIR LES COUVERCLES NI ESSAYER DE RÉPARER SOI-MÊME.

CONFIER TOUT TRAVAIL D'ENTRETIEN À UN PERSONNEL QUALIFIÉ.



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



#### 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.

#### landling

#### **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 when it is completely opened, especially when plugs and/or cables are connected to the rear of the computer.

#### Peripherals

Incorrectly using peripheral devices may lead to a decrease in performance, an increase in temperature and/or damage your computer. For more information on peripheral devices, refer to the Reference Manual.

#### Cables

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

















# 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.

## When Using Peripheral Devices

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

- 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.

- 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.
- 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 down your computer while software applications are running or hard disk drive indicator (
  ) is on.

Properly shut Windows\* 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")
- Windows 2000 : This computer uses Microsoft<sup>®</sup> Windows<sup>®</sup> 2000 Professional.
   Windows XP : This computer uses Microsoft<sup>®</sup> Windows<sup>®</sup> 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.) ( Reference "Security Measures")

# Saving Data on Floppy Disks

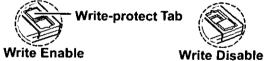
• Do not power down your computer or press the floppy disk drive eject button while the floppy disk drive indicator ([]) is on.

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.



### **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).

# When Disposing of or Transferring Ownership of This Device

When disposing of or transferring ownership of this device, completely 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 28). (Note that this hard disk data erase utility does not guarantee that data will be completely erased.)

Also note that transferring ownership of this device without deleting software from the hard disk may violate software user's licenses.

# **Usage Environment**

#### **Environment**

- Place the computer on a flat stable surface.
- 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 drop or hit your computer against solid objects.
- Do not carry your computer when it is on.
- Remove all external devices, cables, and PC Cards sticking out of the computer (see the figure on the left) before transporting the computer.
- We recommend preparing a fully charged battery.
   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.
- 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.
- Do not carry the computer while the display is open, or carry it by gripping the display.
- Do not put anything (e.g., a piece of paper) between the display and keyboard.
- 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.
- Do not leave a disk in the drive while transporting your computer.

#### Maintenance

Touch Pad

#### 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.

# **7** 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 Panasonic Technical Support.

AC adaptor1	AC Cord1	Battery Pack 1
Model No : CF-AA1653AM		Model No :CF-VZSU18A
Modem Telephone Cable1	Product Recovery CD-ROM	
and the second sec	00	
Operating Instructions (This book) 1       Windows® Book		

2 Read the LIMITED USE LICENSE AGREEMENT ( page 26)

Before removing the seal covering the power switch, read the LIMITED USE LI-CENSE AGREEMENT.

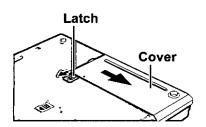
# **3** Insert the battery pack

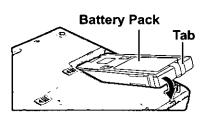
### NOTE

Use only the specified battery pack (CF-VZSU18A, yellow tab) with your computer. CF-VZSU18 (blue tab) cannot be used with this computer.

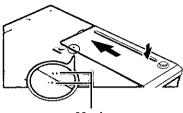
1)Turn your computer over.

②Slide the latch, and then without releasing it, slide and remove the cover.

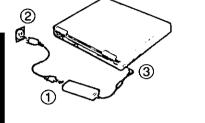




(3) Put the battery pack into the computer and firmly attach the pack to the connector.



Mark



(4) Match the mark on the cover to the body of the computer and slide the cover back into place. Be sure the tab does not get caught when closing the cover.

#### (CAUTION)

If the cover is not attached properly, the battery may fall out while the computer is being carried.

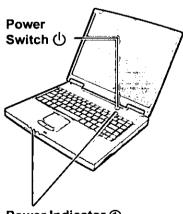
# **4** Connect your computer to a power outlet

#### (CAUTION)

- Be sure the AC adaptor is connected until completing Step 8 on page 12.
- 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.

# **5** Open the display

Slide the latch located at the front.
 Lift open the display.



**6** Turn your computer on

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

# CAUMON

- 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.





# 7 Setup Windows

Moving the cursor ( ${f Q}$ ) or clicking buttons can be performed with the touch pad ( $\bigcirc$  page 17).

#### Windows 2000

### CAUTION

Do not press any key or move the touch pad until [Windows 2000 Professional Setup] is displayed.

- (1) At the [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].



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].



Remember this password! If the password is forgotten, Windows 2000 cannot be operated.

- (6) Enter the correct date, time and the time zone, then select [Next].
  - You can also complete these settings at a later time.
- ⑦ At the [Networking Settings], select [Typical settings], then select [Next].
- (8) At the [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 the [Welcome to the Network Identification Wizard], select [Next].
- 1 At the [Users of This Computer], select [Users must enter a user name and password to use this computer], then select [Next].
- (1) Select [Finish].
- (12) Enter your administrator password and select [OK].

#### Windows XP

#### CAUTION

NOTE

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

- (1) At the [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].

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 XP cannot be operated. ( Page 13)

- (6) Enter the correct date, time and the time zone, then select [Next]. You can also complete these settings at a later time.
- (7) At the [Networking Settings], select [Typical settings], then select [Next].
- (8) At the [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) Enter your administrator password and select 🔁

# 8 Create Backup Disks for reinstallation

(1) Prepare 2HD floppy disks and make sure they are not in the write-protected state, and then set it.

#### (2) (Windows 2000)

Select [Start] - [Programs] - [Panasonic] - [Create Backup Disk] and follow the onscreen instructions.

#### (Windows)XP)

Select [start] - [All Programs] - [Panasonic] - [Create Backup Disk] and follow the onscreen instructions.

When [You do not need to make "BACKUP DISK"] is displayed, there is no need to create a Backup Disk.

③ Place a label identifying the contents on each disk.

#### • Name of created backup disk

FIRSTAID FD (When the display for creating the UPDATE FD is shown, create the disk by following the on-screen instructions.)

## (CAUTION)

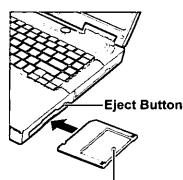
- Store the floppy disks in a safe place. They will enable you to return your computer to close to the condition at the time of purchase should any problems occur. When creating backup disks, do not run any other application program.
- When creating backup disks and the message [Insufficient files to copy] is displayed, select [OK] and then contact Panasonic Technical Support.
- While the floppy disk drive indicator is on, do not remove the floppy disk, power off your computer or use the standby or hibernation function ( Reference "Standby/ Hibernation Functions").
- Be sure to create the backup disk. If a backup disk is not created, it will be impossible to return the computer to its original state. In this case, contact Panasonic Technical Support.

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

# NOTE

#### <Information for the CD-R/RW drive and DVD-ROM & CD-R/RW drive>

Before using the CD-R/RW drive or DVD-ROM & CD-R/RW drive for the first time, remove the protective sheet from the lens area. The protective sheet inside the drive delays the opening of the drive by about ten seconds. This delay is not a problem.



Label on the top surface, and insert the shutter-side headfirst.

# **−Information-for-Windows-XP**

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

#### • 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 Select [start] [Control Panel] [User Accounts] and select the account you used to logon.
- 2 Select [Prevent a forgotten password] from the [Related Tasks] menu and create a password reset disk following the on-screen instructions. Store the password reset disk in a safe place.

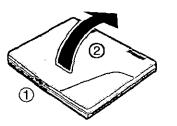


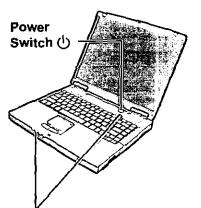
Only the logon password for each account can be reset. The password set in the Setup Utility cannot be reset.

• 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. Check with your system administrator for details.

# **Starting Up/Shutting Down**

# Starting Up





Power Indicator ()

## Open the display

Slide the latch as shown and lift open the display.

# **2** 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

- 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 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 Panasonic Technical Support.

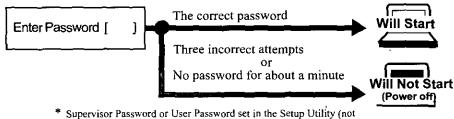
# NOTE

You may encounter the following situations when the computer is turned on at very low temperatures. These functions are designed to prevent hard disk drive malfunctions that may occur at low temperatures.

- The message "Warming up the system" is displayed, and start-up takes longer than usual (a few minutes or more).
  - In this case, wait for the computer to start up.
- The power indicator will blink quickly (in green); in this case, the power does not turn on, or the computer does not resume from standby or hibernation mode. To restart the computer, leave it in an environment with a temperature of 5°C (41°F) or more for about an hour, and try turning the power on once more.

# If [Enter Password] is displayed,

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



 \* Supervisor Password or User Password set in the Setup Utility (no the Windows password).

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

the standby or hibernation mode ( Reference "Standby/Hibernation Functions") has been set.

# 3 Log on to Windows

#### Windows 2000

Wait for 10 seconds after confirming that the hard disk drive access has been completed, input the user name and password, then select [OK]. Until the correct user name and password are entered, the computer will not operate.

#### Windows XP

Wait for 10 seconds after confirming that the hard disk access has been completed, select the user and input the password, then select B. 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 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 ( $\bigcirc \overset{\text{Reference}}{\overset{\text{Manual}}{\overset{\text{Manual}}}$  "Standby/Hibernation Functions"). The computer will resume

#### Windows XP

by pressing the power switch.

- When you create the first new account, you can only select [Computer administrator]. Only the added user account will be displayed in the Welcome screen. The account for the administrator created during Windows setup (when the computer is started up for the first time) will not be displayed.
- 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 on with the administrator authority again, not using the Fast User Switching function, and try the operation once more.

# Shutting Down (power off your computer)

This procedure is for shutting down the computer without using the standby or hibernation function.

( Reference "Standby/Hibernation Functions")

# Save important data and close each application

# ${f 2}$ Display the shut down screen

(Windows 2000)

Select [Start] - [Shut Down]. (Windows XP)

Select [start] - [Turn Off Computer].



From the keyboard,

You may choose to press (1), and then select the menu with  $(\uparrow)$  or  $(\downarrow)$ .

# **3** Confirm shut down

(Windows 2000) Select [Shut down], then select [OK]. (Windows)XP) Select [Turn Off].

Your computer will power off automatically.

#### Restarting your computer (without shutting down) (Windows2000)

Select [Restart], then select [OK].

#### (Windows)XP)

Select [Restart].

#### 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.

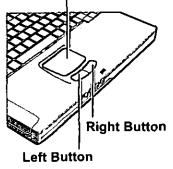
# NOTE

#### To quickly resume computer operation after shutting down,

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

# **Touch Pad**

Work Surface



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

NOTE

By design the touch pad is to be used with a finger tip only. Therefore, do not use any other type implement on the touch pad, i.e. stylus, pen, or pencil eraser.

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

# ┌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 dirty areas 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 disinfectant-type alcohol.

The Reference Manual can be accessed on your computer. When a printer is connected, the Reference Manual can also be printed. This 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.

# Run-the-Reference-Manual

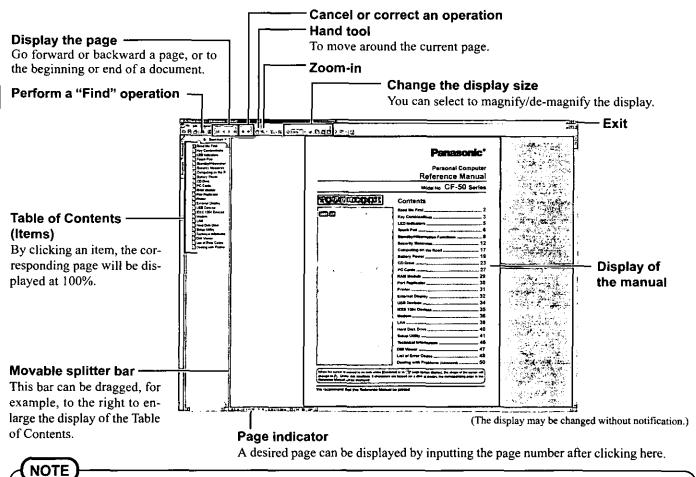
# **1** Turn your computer on

### (Windows 2000)

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

## Select [Reference Manual] in [start]

When the Reference Manual is started up for the first time, the License Agreement of the Acrobat Reader will be displayed. After reading the agreement, select [Accept] to access the Reference Manual.



Illustrations may be difficult to view depending on the magnification. If this is the case, we recommend that the display be magnified.

- The characters in PDF files (such as the Reference Manual) may be difficult to read depending on the Acrobat Reader settings and the Windows Desktop settings. In such cases, change the Acrobat Reader settings with the following procedure.
   1 Start up Acrobat Reader.
  - 2 Select [Edit] [Preferences] [Accessibility], and then set [Color Scheme] to [Use colors specified in document].
- 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

• When switching to a different user with the Fast User Switching function, PDF files may not be printed properly. In this case, log on with the administrator authority again, not using the Fast User Switching function, and try the operation once more.

# **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 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 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.

#### 0210 Stuck key

Stuck key on keyboard.

#### 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 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 memory not working or not configured properly at offset 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 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. May require board repair.

#### \*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.

#### 02B0 Diskette drive A error

#### 02B1 Diskette drive B error

Drive A: or B: is present but fails the BIOS POST diskette tests. Check to see that the drive is defined with the proper diskette type in Setup and that the diskette drive is attached correctly.

#### 02B2 Incorrect Drive A type - run SETUP

Type of floppy drive A: not correctly identified in Setup.

#### 02B3 Incorrect Drive B type - run SETUP

Type of floppy drive B: not correctly identified in Setup.

#### 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: Fait - 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.

#### 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, 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.

The power indicator or bat-	Check the cable connection for the AC adaptor.
tery indicator is not lit	• Check to see if a fully charged battery is properly installed.
•	• Remove the battery pack and disconnect the AC adaptor, then connect them again.
[Enter Password] is displayed	Input your password. If you have forgotten it, contact Panasonic Technical Support.
POST Startup Error(s) is displayed	⊂ <del>,</del> page 19
Windows startup, or an op- eration is extremely slow	Press <b>F9</b> 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 set tings. (The processing speed depends on the application software used, so this operation may not cause the processing speed to increase.)
The date and time are incor- rect	<ul> <li>You can set the date and time using the following menu.</li> <li>Windows 2000         <ul> <li>[Control Panel] - [Date/Time]</li> <li>[Control Panel] - [Date, Time, Language, and Regional Options]</li> <li>[Date and Time]</li> </ul> </li> <li>When the computer is connected to a LAN, confirm the date and time of the server.</li> </ul>
	<ul> <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 210 A.D.</li> </ul>
When resuming from the	Use the Windows password as follows:
standby or hibernation	Windows 2000
mode, [Enter Password]	Set the password in [Control Panel] - [Users and Passwords], then add the check mark for
does not appear even if a	[Prompt for password when computer goes off standby] in [Control Panel] - [Power Op
password has been set in the Setup Utility	tions] - [Advanced]. Windows XP
Setup Othity	Select the account to change in [Control Panel] - [User Accounts] and set the password, the
	add the check mark for [Prompt for password when computer resumes from standby] it
	[Control Panel] - [Performance and Maintenance] - [Power Options] - [Advanced].
When the administrator	Windows 2000
password is forgotten	After reinstalling, setup Windows and then set the password again. Windows XP
	If you have created a password reset disk ( page 13), a message is displayed when yo
	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 se
	the password again.
When the previous item is	• Press F9 in the Setup Utility ( Reference "Setup Utility"). This will restore the Setu
not the cause	Utility's settings to their default values (except the password settings).
	<ul> <li>Try removing all peripheral devices.</li> </ul>
	• Windows 2000
	Click [Local Disk(C:)] with the right button in [My Computer], select [Properties], the select [Tools] - [Check Now]. Windows XP
	Click [Local Disk(C:)] with the right button in [start] - [My Computer], select [Proper
	ties], then select [Tools] - [Check Now].

# **Dealing with Problems (Summary)**

## 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>Try changing the display by pressing Fn+F3.</li> <li>When displaying only through an external display, if the computer is shut down by using the standby or hibernation function, there will be no display on the LCD unless the external display is connected when operations are resumed. In this case, connect the external display or press Fn+F3.</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 Shift).</li> <li>To save power, your computer may have automatically entered the standby or hiberna- tion mode. (CP Reference "Computing On the Road") Press the power switch.</li> </ul>
The cursor cannot be con- trolled	Restart the computer by using the keyboard (e.g., ()).
An afterimage appears (e.g., green, red, and blue dots remain on the display) or there are dots not display- ing 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 external display no longer displays properly	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.
The screen becomes disor- dered	<ul> <li>Changing the number of colors of the display may affect the screen. Restart the computer.</li> <li>White we way the same display colors for the external display as those used by the LCD.</li> </ul>
When you want to display the fonts or icons at a larger size	<ul> <li>Change the settings as follows (for more details, refer to the Windows Help).</li> <li>(Windows 2000)</li> <li>1 Select [Start] - [Settings] - [Control Panel] - [Display] - [Appearance].</li> <li>2 Select the scheme labeled "large" or "extra large" in [Scheme] to change the font size, and select [Icon] in [Item] to change the icon size.</li> <li>(Windows XP)</li> <li>1 Select [start] - [Control Panel] - [Appearance and Themes] - [Display] - [Appearance].</li> <li>2 Select the font size in [Font size], and select [Effects] and then add the check mark for [Use large icons] to increase the icon size.</li> </ul>
Windows XP An error occurs or the com- puter freezes while using Dualview.	If you use a 3D screen saver while in Dualview mode at a high resolution, an error may occur or the computer may freeze. Under these conditions, do not use a 3D screen saver.

## Fast User Switching function (WindowsXP)

When switching to a different user with the Fast User Switching function, the following
problems may occur.
<ul> <li>Some applications may not work properly (for example, PDF files may not be printed properly).</li> </ul>
• It may not be possible to set the settings of the display.
• A serial mouse may not work.
If any of the above occur, log on with the administrator authority again, not using the Fast
User Switching function, and try the operation once more.

# Battery Indicator

The red indicator lights.	The battery level is low. Save your data and power off your computer. After connecting the AC adaptor or replacing the battery pack with a fully charged one, turn your computer on.
The red indicator blinks	<ul> <li>The battery pack or recharging function may be defective. Quickly remove the battery pack and disconnect the AC adaptor, then connect them again.</li> <li>Check the model number of the battery pack. CF-VZSU18 (blue tab) cannot be used with this computer. Use only the specified battery pack (CF-VZSU18A, yellow tab).</li> <li>If the problem persists, contact Panasonic Technical Support.</li> </ul>
The orange indicator blinks	Unable to charge because of an improper temperature range. ( F page 6)

## Reference Manual

The Reference Manual is not displayed	Is Acrobat Reader installed? If Acrobat Reader is not installed, run [c:\util\reader\ar505enu.exe] in [Start]* - [Run] to reinstall the program. When installing the program, do not change the installation destina- tion folder. If the destination folder is changed, the Reference Manual cannot be opened from the [Start]* menu. Windows XP : [start]
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# Shutting down

Windows cannot be shut	• Do not shut down Windows during music playback.
down or restarted	• If a USB device is connected, try removing it.

#### Others

Computer hangs	<ul> <li>Press Ctrl + Shift + Esc 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. If the program no longer works normally, delete the program using the following menu. Then reinstall the program.</li> <li>Windows 2000 : [Control Panel] - [Add/Remove Programs]</li> <li>Windows XP : [Control Panel] - [Add or Remove Programs]</li> </ul>
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# **Reinstalling Software**

# **Before Reinstallation**

#### Preparing

You will need the Product Recovery CD-ROM and the Backup Disk (e.g., FIRSTAID FD) you made earlier. ( page 12)

## NOTE

If you have not created the FIRSTAID FD, you can create by using the following menu. Windows 2000 : [Create Backup Disk] in [Start] - [Programs] - [Panasonic]. Windows XP : [Create Backup Disk] in [start] - [All Programs] - [Panasonic].

If you can not create this disk, contact Panasonic Technical Support.

- 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.

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- -

- Before the reinstallation procedure, remove all peripherals.
- Be sure the AC adaptor is connected until the reinstallation procedure is completed.

# Reinstalling

#### CAUTION

If data on your hard disk is compressed, the data should be uncompressed.

- 1 Turn the computer on.
- When the message [Press F2 to enter SETUP] is displayed, press F2 and then run the Setup Utility. 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 one of the recovery CDs into the CD drive.

#### 6 Press (F10).

At the confirmation message, select [Yes] and press

The computer will reboot, and this screen should appear.

Select a number	
<ol> <li>Start restoring the operating system.</li> <li>Erase the whole data on HDD for security.</li> <li>End</li> </ol>	

Select [1. Start restoring the operating system.].

7 The License Agreement screen should appear. Select [1. Yes, I agree to the provisions above and wish to continue!]. 8 This screen should appear.

#### Windows 2000

2. Make Winde	re Windows(R) 2000 Professional to the whole HDD. two partitions, for the operating system and data. And restore ows(R) 2000 Professional to the operating system partition. kisting partitions on HDD will be lost.)
3. Řesto 4. End	re Windows(R) 2000 Professional to the first partition
windo	ws XP
Select a	
Select a 1. Resto 2. Make Windo	

- **9** Make a selection from the menu.
  - When selecting [2], enter the basic partition size for OS 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, select [Y].

The operations of reinstallation for the hard disk start automatically. (The operations take about 15 minutes.) When the message "insert the next CD" is displayed, insert the Product Recovery CD-ROM showing the next number in the sequence, and then select [OK].

# NOTE

If the message "The media does not contain the correct file" appears, select [OK]. The message "insert the next CD" will be displayed again.

Confirm that the proper Product Recovery CD-ROM has been inserted by opening the tray of the CD drive and then close the tray, then select [OK].

**11** After the reinstallation procedure completes, the following message will appear on the display.

#### Windows 2000

 $\label{eq:windows(R) 2000 Professional install wizard will start after reboot. Remove the Product Recovery CD-ROM, then restart the computer by pressing Ctrl + Alt + Del (Delete).$ 

#### Windows XP

 $\label{eq:windows} \begin{array}{l} Windows(R) \ XP \ Professional \ install \ wizard \ will \ start \ after \ reboot. \\ Remove the Product Recovery CD-ROM, then \ restart the \ computer \ by \ pressing \ Ctrl + \ Alt + \ Del \ (Delete). \end{array}$ 

Remove the Product Recovery CD-ROM, then restart the computer by pressing (Ctrl) + (Alt) + (Del).

12 When the message [Press F2 to enter SETUP] is displayed, press F2 and then run the Setup Utility.

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

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.) Change the settings where necessary.

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 11)

# NOTE

When the FIRSTAID FD is to be created, follow the steps in the readme.txt on the disk. ( page 12)

#### <Changing the drive letter>

You can change the drive letter for the CD drive or hard disk drive by the following steps.

- Drive letters can only be changed when two or more partitions have been created on the hard disk drive. The name of the C: drive cannot be changed.
- We recommend that you make these changes before installing applications.

#### Windows 2000

- Select [Start] [Settings] [Control Panel] [Administrative Tools] - [Computer Management].
- 2 Select [Disk Management] from [Storage].
- 3 Right click on the partition of the hard disk or the name of the CD drive and select [Change Drive Letter and Path].
- 4 Select [Edit].
- **5** Select [Assign a drive letter] and the new drive letter, and then select [OK].
- 6 At the confirmation message, select [Yes].

#### Windows XP

- Select [start] [Control Panel] [Performance and Maintenance] [Administrative Tools] [Computer Management].
- 2 Select [Disk Management] from [Storage].
- **3** Right click on the partition of the hard disk or the name of the CD drive and select [Change Drive Letter and Paths].
- 4 Select [Change].
- **5** Select [Assign the following drive letter] and the new drive letter, and then select [OK].
- 6 At the confirmation message, select [Yes].

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# Hard Disk Data Erase Utility

This computer is equipped with a utility for completely 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

You will need the Product Recovery CD-ROM.

# 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 on.
- 2 When the message [Press F2 to enter SETUP] is displayed, press **F2** and then run the Setup Utility. 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 the [Boot] menu.
- 4 Place the disc one of the recovery CDs into the CD drive.

#### 5 Press (F10)

At the confirmation message, select [Yes] and press **Enter**. The computer will reboot, and this screen should appear.

Select a number
<ol> <li>Start restoring the operating system.</li> <li>Erase the whole data on HDD for security.</li> <li>End</li> </ol>

- 6 Select [2. Erase the whole data on HDD for security.].
- 7 At the confirmation message, press Y.
- 8 At the start menu, press **Enter**.
- 9 The 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.
- 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 Product Recovery CD-ROM, then turn off the computer by pressing the power switch.

### <Model with a CD-R/RW drive / Model with a DVD-ROM & CD-R/RW drive>

"Easy CD Creator<sup>™</sup> 5"(hereafter, Easy CD Creator) is CD writing software application developed by Roxio, Inc. Here, explanations are given on general information about Easy CD Creator, the installation procedure, and how to access the online manual. Refer to the online manual concerning the detailed use of the software application.

# **General Information**

### What you can do with this software application

- Creation of music CDs
- Creation of data CDs (CD-ROMs)
- Creation of data CDs (writing files to CD-R and CD-RW discs like writing to floppy disks, etc. To do this, use DirectCD Utility.)

#### Applicable CD Media

- CD-R (CD-Recordable: one-time writable CD media) Once data is written, it cannot be changed.
- CD-RW (CD-ReWritable: rewritable CD media) Written data can be deleted and new information can be added.

## NOTE

For details on the functions of the software application and CD media, refer to the online manual of the application as well.

# Installing Easy CD Creator

#### (First time only)

Easy CD Creator is not pre-installed in the computer. To install the software application, follow the procedure below. If you accidentally delete Easy CD Creator, or if you use the product recovery CD-ROMs and completely return the computer to factory condition, follow the procedure below to re-install the software application.

## CAUTION

Close all other software application before running the Setup program for Easy CD Creator for added safety.

(1) Set the Easy CD Creator CD-ROM in the CD-R/RW drive.

(2) Select [Yes] at [Roxio Easy CD Creator 5].

<When the [Roxio Easy CD Creator 5] is not automatically displayed>
In [Start]\* - [Run], input [x:\SETUP] and select [OK].
("x" is the drive letter. You can change the letter to suit your preference.)
\* Windows XP :[start]

(3) Select your language at [Choose Setup Language], then select [OK]. Follow the on-screen instructions. When the installation completes, remove the CD-ROM from the drive.

# NOTE

When the Easy CD Creator is started up for the first time, the License Agreement is displayed. After reading the agreement, select [I accept the terms in the license agreement], then select [OK].

## How to access the Online Manual

Refer to the following menu for information on the functions of each application. Windows 2000 : Select [Start] - [Programs] - [Roxio Easy CD Creator 5] - [Project Selector], then select [help]. Windows XP : Select [start] - [All Programs] - [Roxio Easy CD Creator 5] - [Project Selector], then select [help].

Refer to the Help menu of each application for information about specific operations.

## Running Easy CD Creator

Refer to the online manual ( described above) for information on the operation and use of each function.

## **Cautions on Use**

- When 🗟 is displayed on the taskbar, the [Auto Disconnect] screen of Dial Up may not be displayed and the computer will continue to be connected when Internet Explorer is closed. In such cases, double-click the Dial Up icon 🖺 on the taskbar and disconnect the line.
- When a new CD-R disc is inserted, Project Selector is typically displayed. If there is no display, try setting the CD-R disc
  again. If there is still no display, open Project Selector from the start menu.
- When selecting names for external CD drives or drives created using "virtual CD" software, use letters that come later in the alphabet than the drive letter for the internal CD drive.
- When writing data using DirectCD, remove the CD-R/RW disk, and complete the writing process before doing any of the following:
- · Shutting down or restarting Windows
- · Logging off Windows or using the fast user switching function
- · Entering standby or hibernation mode

Do not use the emergency hole of the CD drive when removing the disc.

### (NOTE

- When reading data of a CD formatted with DirectCD on another computer:
  - The UDF Reader installation screen is displayed. Install the UDF Reader. Although the message on the screen indicates that the reader is for use with Windows 95 or Windows NT, it can be installed on other operating systems as well.
  - The UDF Reader installation screen is not displayed and the data cannot be read. CDs formatted with DirectCD cannot be used with this computer. Use a data CD that was not written by DirectCD format.
- When a CD cannot be formatted with DirectCD, try formatting it by the Administrator.

# Information

• If Easy CD Creator does not operate properly, we recommend carefully reading the online help file first for problems with the operating environment or operations.

If you still cannot troubleshoot the problem, contact Panasonic Technical Support.

About Copies

When writing to CD-R/RW, make sure that you are not infringing any copyrights.

It is illegal to copy audio CDs for non-personal use.

When backing up software, make sure that you are not infringing any software copyrights for that product.

### <Model with a DVD-ROM drive / Model with a DVD-ROM & CD-R/RW drive>

WinDVD<sup>™</sup> (hereafter, WinDVD) is a software application for DVD playback.

Here, you will find explanations and general information on the installation procedure and how to access the online manual.

# Installing WinDVD

### CAUTION

- Close all other software application before running the Setup program for WinDVD for added safety.
- Log on as the administrator.
- 1) Set the WinDVD CD-ROM in the drive.

The WinDVD setup program will run automatically (allow some time for disc recognition). When the setup program will not run automatically, input [x:\setup] in [Start]\* - [Run] and select [OK]. ("x"is the drive letter. You can change the letter to suit your preference.)

- \* Windows XP :[start]
- 2 Select [Next] at the Welcome Message.
- 3 After reading the "License Agreement"\*, select [Yes] if you agree to the terms.
  - \* Refer to the "LIMITED USE LICENSE AGREEMENT" on the Operating Instructions of the computer.
- (4) Follow the on-screen instructions and install WinDVD.

#### <Confirmation of the DVD-ROM drive settings>

To run WinDVD, it is necessary to make the following settings.

- (1) Windows 2000 Select [Start] [Settings] [Control Panel] [System] [Hardware] [Device Manager].
- Windows XP Select [start] [Control Panel] [Performance and Maintenance] [System] [Hardware] [Device Manager].
- 2 Double-click [Primary IDE Channel] for [IDE ATA/ATAPI controllers].
- (3) Select [Advanced Settings], and confirm that [Transfer Mode] is set to [DMA if available] for [Device 0] and [Device 1].
- (4) Double-click [Secondary IDE Channel] for [IDE ATA/ATAPI controllers] and perform as the step (3).

# Running WinDVD

#### Windows 2000

Select [Start] - [Programs] - [InterVideo WinDVD] - [InterVideo WinDVD] or double-click 🌉 on the desktop.

#### Windows XP

Select [start] - [All Programs] - [InterVideo WinDVD] - [InterVideo WinDVD] or double-click M on the desktop.

#### <How to access the online manual>

Select "?" of the WinDVD control panel.

# NOTE

- Do not enter the standby or hibernation mode while WinDVD is running.
- Do not start WinDVD while the hard disk drive's access lamp is blinking immediately after the computer was started up.
- If you maximize the video display window, you can return to the original window size by double-clicking over the images.
- During video playback (while the access lamp is on), do not eject the disc.
- Do not use other applications or the Command Prompt, and do not change the settings of the screen properties.
- In some cases, when the number of colors for the display is increased, a message appears and the DVD cannot be played. If this happens, reduce the number of display colors.
- Immediately after resuming from a pause, frame dropping may occur depending on the operating environment or DVD video (images or sounds are disrupted).
- In the DualView (Dual-Display mode) or simultaneous (internal/external) display mode, there are times when images or video are not displayed correctly.
- During a prolonged period of rapid advance, the pause mode may be established at some point. If this happens, exit WinDVD, and restart.

# **About Regions Setting**

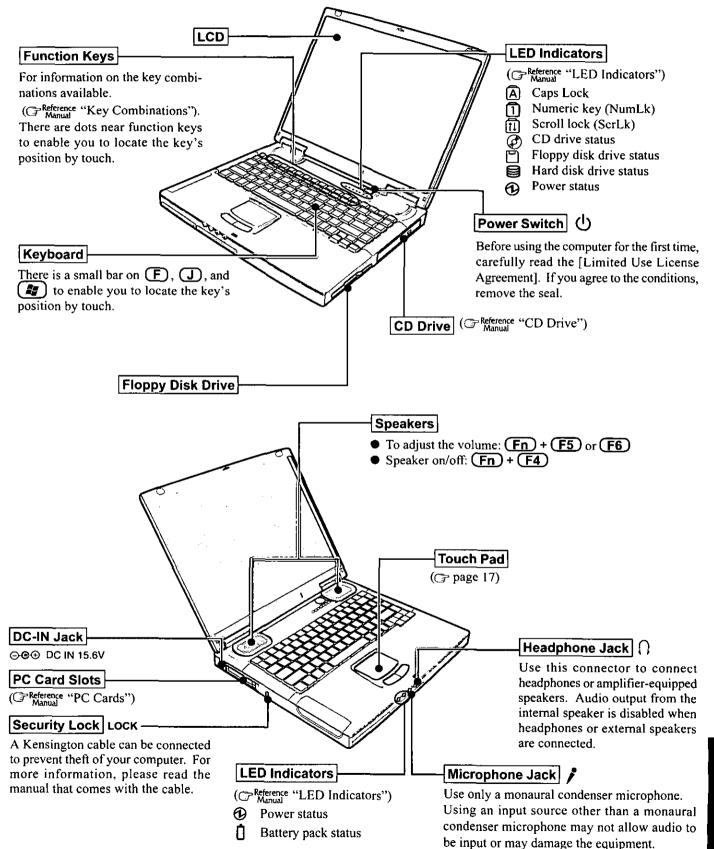
The regions setting can be changed for up to 5 times. After the fifth change is made, it will no longer be possible either to change the setting or to return to the original setting.

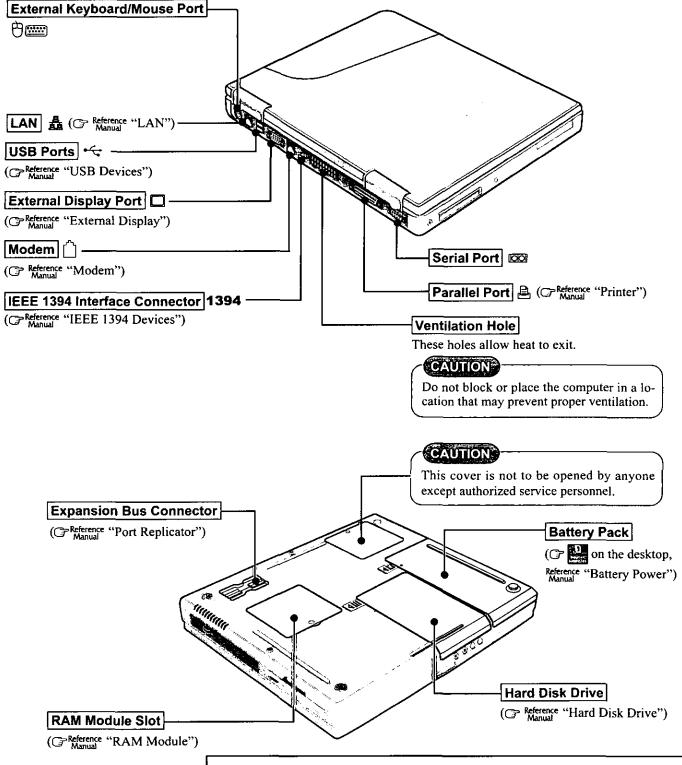
## Information

Inquires about WinDVD should be made to InterVideo, Inc. InterVideo, Inc. URL: http://www.intervideo.com/ E-mail: support@intervideo.com

# Names and Functions of Parts

The illustrations shown may differ from the actual physical appearances.







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. This page provides the specifications for the basic model CF-50Y5KNUDM/CF-50Y5KNUKM. The model number will change depending on the configuration of the unit, such as, CPU speed, memory size, HDD size, Operating System, LCD type, and whether a CD-ROM drive, a DVD-ROM drive, a CD-R/RW drive, or a DVD-ROM&CD-R/RW drive is included or not.

#### To check the model number:

Check the bottom of the computer or the box the computer came in at the time of purchase.

#### To check CPU speed, memory size and the hard disk drive (HDD) size:

Run the Setup Utility ( Reference "Setup Utility") and select [Information] menu.

Confirm the required information by checking the following items.

CPU speed:	[CPU Speed]		
Memory size:	[System Memory]		

Hard disk drive size: [Primary Master]

#### Main Specifications

Model No.		CF-50Y5KNUDM	CF-50Y5KNUKM		
СРИ		Mobile Intel® Pentium® 4 Processor 1.9 GHz-M			
		L2 (Second) Cache Memory: 512 KB			
Memory (Expandable to)		256 MB (768 MB Max. )			
Video	Memory	32 MB			
LCD	Туре	15.0 type (TFT)			
	Displayed Colors*1	256/65536/16M colors (640 x 480 dots/800 x 600 dots/1024x768 dots/1280 x 1024 1600 x 1200 dots)			
External Display		256/65536/16M colors (640 x 480 dots/800 x 600 dots/1024x768 dots/1280 x 1024 dots/			
		1600 x 1200 dots/2048x1536 dots)*2			
Hard Disk Drive		40 GB*3			
Operating System		Microsoft <sup>®</sup> Windows <sup>®</sup> 2000 professional	Microsoft <sup>®</sup> Windows <sup>®</sup> XP professional		
		with Service Pack 2			

<sup>1</sup> A 16 M color display is achieved by using the dithering function.

Windows XP : 256 color depth and the resolution of 640x480 are not supported.

Windows 2000 : Setting 256 color depth or the resolution of 640 x 480 is not recommended.

\*2 Maximum resolution depends on the specifications of the external display. Windows XP : 256 color depth and the resolution of 640x480 are not supported.

Windows 2000 : Setting 256 color depth or the resolution of 640 x 480 is not recommended.

\*3 1GB = 10<sup>9</sup> bytes

#### Other Specifications

Keyboard		87 keys				
Floppy Disk Drive		720 KB/1.44 MB (two	-mode)			
Optical Disc	CD-ROM Drive*1	CD-ROM read		24	24X speed (Max.)	
	DVD-ROM Drive*1	CD-ROM read		24X speed (Max.)		
		DVD-ROM read		8X	8X speed (Max.)	
	CD-R/RW Drive	CD-ROM read*1		24X speed (Max.)		
	[	CD-R write*2		4X speed, 8X speed, 16X speed (Max.), 24X speed (Max.)		
		CD-RW write		4X speed, 8X speed, 10X speed		
	DVD-ROM &	CD-ROM read*1		24X speed (Max.)		
	CD-R/RW Drive	DVD-ROM read*1		8X speed (Max.)		
	Ì	CD-R write*2		4X speed, 8X speed, 16X speed (Max.), 24X speed (Max.)		
		CD-RW write		4X speed, 8X speed, 10X speed		
Slots		PC Card Slots		Tw	Two Type I or Type II, or one Type III	
				Allowable current 3.3 V: 400 mA, 5 V: 400 mA		
				(total for two slots)		
		RAM Module Slot*3		20	200-pin, SO-DIMM, DDR-SDRAM,	
				PC2100 Compliant		
Interface	······································	Parallel Port		Ds	ub 25-pin female	
		External Display Port		Mir	Mini Dsub 15-pin female	
			Serial Port		Dsub 9-pin male	
		Microphone Jack*4		Miniature jack, 3.5 DIA		
		Headphone Jack		Miniature jack, 3.5 DIA		
				Impedance 32 $\Omega$ , Output Power 4 mW x 2		
		External Keyboard/Mouse Port		Mini DIN 6-pin female		
		Expansion Bus Connector		Dedicated 100-pin female		
		USB Port		4-pin x 2		
		Modem		RJ-11 Data: 56 kbps (V.90 & K56flex) FAX:14.4 kbps		
		LAN		RJ-45 IEEE 802.3 10Base-T		
				IEEE 802.3u 100Base-TX		
		IEEE1394 Interface Connector		4-pin x 1		
<b>Pointing Device</b>	9	Touch Pad				
Speaker	······································	Stereo Speaker				
<b>Utility Program</b>	s	Setup Utility, DMI Viewer, Acrobat Reader, Hard disk data erase utility				
Sound		WAVE and MIDI playback				
Battery	Battery Pack	Li-ion 11.1 V, 6.3 Ah				
		Operating Time*5	Approx. 1	1.5 h	ours - 3.5 hours	
		Charging Time*5	Power Or	n	Approx. 6 hours	
			Power Of	ff	Approx. 3.5 hours	
	Clock Battery	Coin type lithium batt				
AC adaptor*6	·	Input 100 V - 240 V AC, 50 Hz/60 Hz Output 15.6 V DC, 5.0 A				
Power Consumption*7		Approx. 70 W*8 / Approx. 90 W (maximum when recharging in the ON state)				
Environment		In use Temperat		ure 5 °C to 35 °C {41 °F to 95 °F}		
		In use	Temperat			
		In use	Humidity		30% to 80% RH (No condensation)	
		In use Not in use			30% to 80% RH (No condensation)	
		Not in use	Humidity Temperat Humidity	ture	30% to 80% RH (No condensation)           -20 °C to 60 °C {-4 °F to 140 °F}           30% to 90% RH (No condensation)	
Environment	nsions (W X H X D)		Humidity Temperat Humidity 78 mm {12.1	ture	30% to 80% RH (No condensation)           -20 °C to 60 °C {-4 °F to 140 °F}           30% to 90% RH (No condensation)	

\*1 If an unbalanced disc (e.g., a disc with which the balance has been displaced from the center) is inserted, the speed may become slower if there are large vibrations while the disc is rotating.

\*2 Depending on the disc, the writing speed may become slower.

\*3 Only a RAM card designed for PC2100 can be added.

\*4 Use only a monaural condenser microphone.

\*5 Varies depending on the usage conditions.

- The AC adaptor is compatible with power sources up to 240 V AC adaptor. This computer is supplied with a 125 V AC compatible AC cord. Approx. 0.9 W when the battery pack is fully charged (or not being charged) and the computer is OFF. \*6
- \*7 Approx. 1.5 W when the Wake up from LAN function has been enabled.

\*8 Rated power consumption.

# 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.

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

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

#### Limits and Exclusions:

There are no other express warranties except as listed below.

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

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

#### SOFTWARE LIMITED WARRANTY

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

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

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

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

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

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

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

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

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

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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

## For Canada

#### PANASONIC COMPUTER AND PERIPHERALS LIMITED WARRANTY

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

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

<u>Remedy</u> – 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.

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

#### IF YOU SHIP THE PRODUCT FOR WARRANTY SERVICE

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

#### SOFTWARE MEDIA LIMITED WARRANTY

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

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

<u>Claim Procedure</u> – 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.

<u>Remedy</u> – 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.

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

#### GENERAL

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

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

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

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

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

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Appendix



As an ENERGY STAR<sup>®</sup> Partner, Matsushita Electric Industrial Co., Ltd. has determined that this product meets the ENERGY STAR<sup>®</sup> 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.

Panasonic Computer Solution Company 50 Meadowlands Parkway, Panazip 2F-5, Secaucus, NJ 07094 Panasonic Canada Inc. 5770 Ambler Drive Mississauga, Ontario L4W 2T3