

**Panasonic®**

**Personal Computer**

# OPERATING INSTRUCTIONS

Model No. **CF-18 Series**

**TOUGHBOOK**

**Tablet PC**

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Getting Started

Operation

Troubleshooting

Appendix

**[Additional Manual]**

**Reference Manual**

This manual can be accessed on your computer. Refer to page 24 on how to access the Reference Manual.

## Customer's Record

Model No.*	Dealer's Name
Serial No.	
or	
Code No.	Dealer's Address
Date of Purchase	

\* For the Model No., insert the 12 digit number (for example, CF-18DDAZXMM) located on the bottom of the computer.

### Introduction

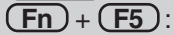
Thank you for purchasing the Panasonic computer. Read the operating instructions thoroughly for proper operation of your new computer.

### Illustrations and Terminology in this Manual

**NOTE:**

**CAUTION:**

 :

 :

[start]-[Run]:

 :

 Reference Manual :

**NOTE** provides a useful fact or helpful information.

**CAUTION** indicates a condition that may result in minor or moderate injury.

This illustration means to press the [Enter] key.

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

This illustration means to click [start], then to click [Run].

(For some applications, you may need to double-click.)

Where to go for referred information.

This illustration means to refer to the Reference Manual, which is available on your computer. Refer to page 24 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.
- The “CD/DVD drive” is a description about drives, such as DVD-ROM, CD-ROM, CD-R/RW, and DVD-ROM & CD-R/RW drives.
- In this manual, descriptions are given using illustrations not featuring the hand strap for convenience of explanation.
- If the user has logged on without administrator authority, some functions may not be executable, and some screens may be not displayed as shown in this manual. If this happens, log on with the administrator authority to enable these functions.
- Confirm the latest information on optional products in catalogs, etc.
- In this manual, “Microsoft® Windows® XP Tablet PC Edition” is indicated as “Windows” or “Windows XP”.

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

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### Disclaimer

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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 equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
- This equipment has been approved for portable operation, and unless otherwise advised in separate supplemental instructions for individual wireless transmitter(s), requires minimum 1.5 cm spacing be provided between antenna(s) and all person's body (excluding extremities of hands, wrist and feet) during wireless modes of operation.
- This equipment may use multiple installed transmitters, which may be capable of simultaneous transmission.
- This equipment is provided with PC Card slot that could be used with wireless transmitters, which will be specifically recommended when they become available.  
Other third-party wireless transmitters have not been RF exposure evaluated for use with this computer and may not comply with FCC RF exposure requirements.
- This equipment is provided with external antenna connector(s) for connection to optional Car Mounter or Port Replicator for mobile external mounted antenna(s). External antenna(s) must be professionally installed and cannot exceed recommended maximum antenna gain as described in individual provided supplement instructions for wireless transmitters. Also, user must maintain minimum 20 cm spacing between external antenna(s) and all person's body (excluding extremities of hands, wrist and feet) during wireless modes of operation.

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. T60M283.\*\* (\*\* = numbers or alphabet letters)

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

1. This equipment complies with CFR47 Part 68 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 advance that temporary discontinuance of service may be required. But if advance 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 its 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.
8. 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.

# Read Me First

10. According to the FCC's electrical safety advisory, we recommend that you may install an AC surge arrester 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: <<http://www.eiae.org/>>

## 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.”

REN: See bottom of the computer

### Industry Canada

This product complies with RSS210 Industry Canada.

Operation is subject to the following two conditions;

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

### 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 tous les dispositifs n'excède pas 5.”

IES: Voir sous le fond de l'ordinateur

## For Europe



### Declaration of Conformity (DoC)

“Hereby, we and Panasonic Service Europe GmbH (PSE), declares that this Personal Computer is in compliance with the essential requirements and other relevant provisions of the Directive 1999/5/EC.”

Hint:

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

Network connection.

The terminal equipment is intended for connection to the following public network;

In all the countries of European Economical Area;

- Public Switched Telephony Networks

Technical Features.

The terminal equipment includes the following features;

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

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

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### Compliance Notice - CE Mark

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

73/23/EEC Low Voltage Directive with amendment 93/68/EEC

89/336/EEC EMC Directive with amendments 92/31/EEC and 93/68/EEC

1999/5/EC

---



# Read Me First

## 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.

SAVE THESE INSTRUCTIONS

Certaines mesures de sécurité doivent être prises pendant l'utilisation de matériel 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

## Precautions

The CF-18 was developed based on thorough research into the real-world portable computing environments. Exhaustive pursuit of usability and reliability under harsh conditions led to innovations such as the magnesium alloy exterior, vibration damped hard disk drive and floppy disk drive, flexible internal connections. The CF-18's outstanding engineering has been tested using the stiff MIL-STD- 810F (for vibration and shock) and IP (for dust and water) based procedures.

As with any portable computer device precautions should be taken to avoid any damage. The following usage and handling procedures are recommended.

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



### Avoid Radio Frequency Interference

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



### Avoid Magnetic Fields

Keep the computer away from magnets. Data stored on the hard disk may be lost.



### 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.



### 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.

## Information to the User

### This product and your Health

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

Because this product operates within the guidelines found in radio frequency safety standards and recommendations, we believe this product is safe for use by consumers. These standards and recommendations reflect the consensus of the scientific community and result from deliberations of panels and committees of scientists who continually review and interpret the extensive research literature.

In some situations or environments, the use of this product may be restricted by the proprietor of the building or responsible representatives of the organization. These situations may for example include:

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

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

### Regulatory Information

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

## Lithium Battery

### Lithium Battery!

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

Warning! A risk of explosion from incorrect installation or mis-application may possibly occur.

### Pile au lithium!

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

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

## Precautions ( Battery Pack )

- Care should be exercised with regard to the following in order to avoid the possibility of overheating, fire or damage.



#### Avoid Heat

Do not throw the battery pack into a fire or expose it to excessive heat.



#### Keep Articles Away

Do not place the battery pack together with articles such as necklaces or hairpins when carrying or storing.



#### Do Not Disassemble

Do not insert sharp objects into the battery pack, expose it to bumps or shocks, deform, disassemble, or modify it.



#### Do Not Short

Do not short the positive (+) and negative (-) contacts.



#### Avoid Extreme Heat, Cold and Direct Sunlight

Do not charge, use or leave the battery pack for extended periods where it will be exposed to direct sunlight, in a hot place (in an automobile on a sunny day, for example), or in a cold place.



#### Do Not Use With Any Other Computer

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



#### Do Not Put into a Microwave

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





#### Stop Using

Should the battery emit an abnormal odor, become hot to the touch, become discolored, change shape, or become in any way different from normal, remove it from the computer or charger and stop using it.

- Do not touch the terminals on the battery pack. The battery pack may no longer function properly if the contacts are dirty or damaged.
- Do not expose the battery pack to water, or allow it to become wet.

- If the battery pack will not be used for a long period of time (a month or more), charge or discharge (use) the battery pack until the remaining battery level becomes 30% to 40% and store it in a cool, dry place.
- This computer prevents overcharging of the battery by recharging only when the remaining power is less than approx. 95% of capacity.
- The battery pack is not charged when the computer is first purchased. Be sure to charge it before using it for the first time. When the AC adaptor is connected to the computer, charging begins automatically.
- Should the battery leak and the fluid get into your eyes, do not rub your eyes. Immediately flush your eyes with clear water and see a doctor for medical treatment as soon as possible.

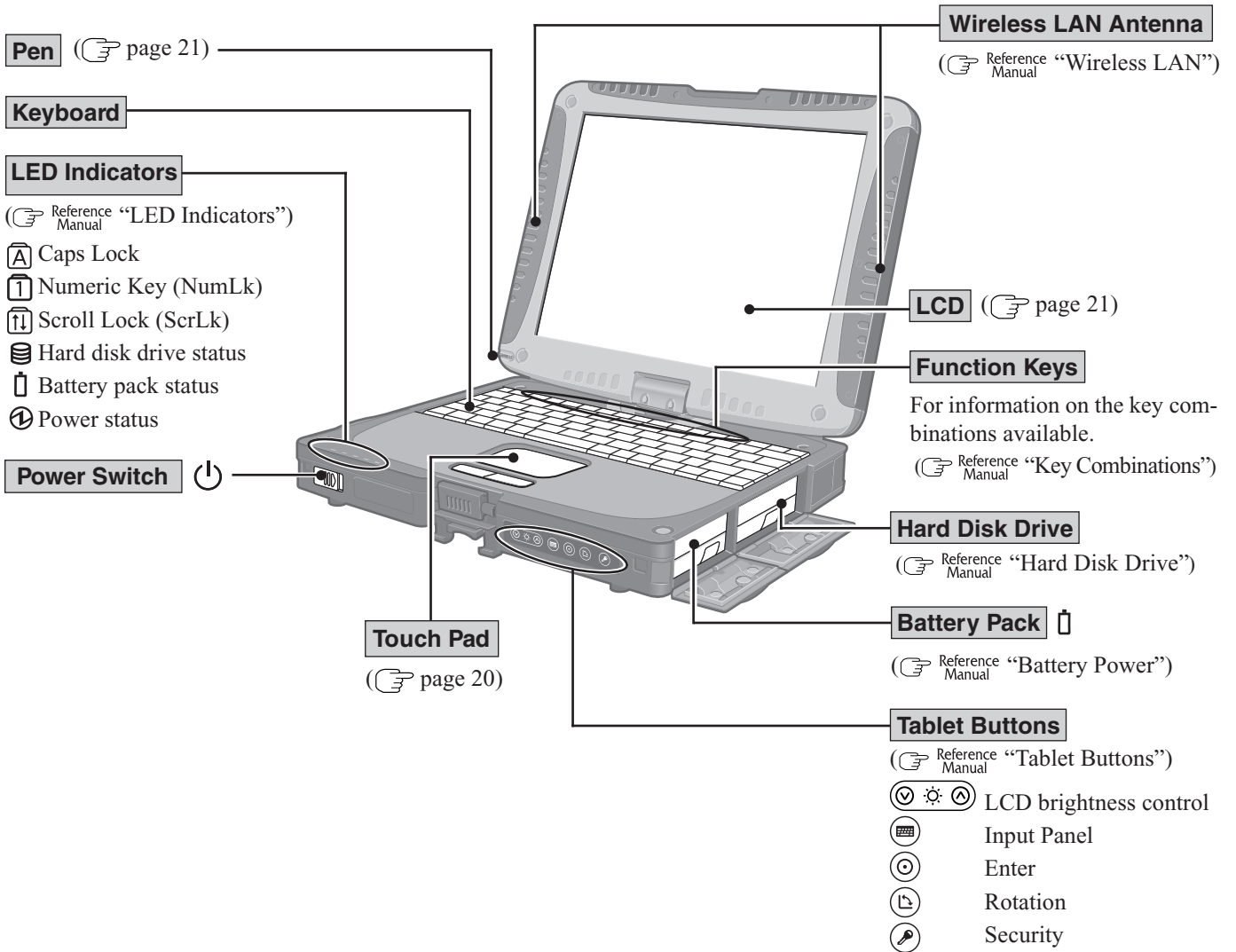
### NOTE

- The battery pack may become warm during recharging or normal use. This is completely normal.
- Recharging will not commence if internal temperature of the battery pack is outside of the allowable temperature range (0 °C to 50 °C {32°F to 122 °F})  Reference Manual "Battery Power". Once the allowable range requirement is satisfied, charging begins automatically. Note that the recharging time varies based on the usage conditions. (Recharging takes longer than usual when the temperature is 10 °C {50 °F} or less.)
- If the temperature is low, the operating time is shortened. Only use the computer within the allowable temperature range.
- This computer has a high temperature mode function that prevents the degradation of the battery in high temperature environments. ( Reference Manual "Battery Power") A level corresponding to a 100% charge for high temperature is approximately equivalent to an 80% charge level for normal temperature mode.
- 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 rechargings do not restore its performance, the battery pack should be replaced with a new one.
- When transporting a spare battery inside a package, briefcase, etc., it is recommended that it be placed in a plastic bag so that its contacts are protected.
- Always power off the computer when it is not in use. Leaving the computer on when the AC adaptor is not connected will exhaust the remaining battery capacity.

# Names and Functions of Parts

The illustrations shown may differ from the actual physical appearances.

Getting Started



## CAUTION

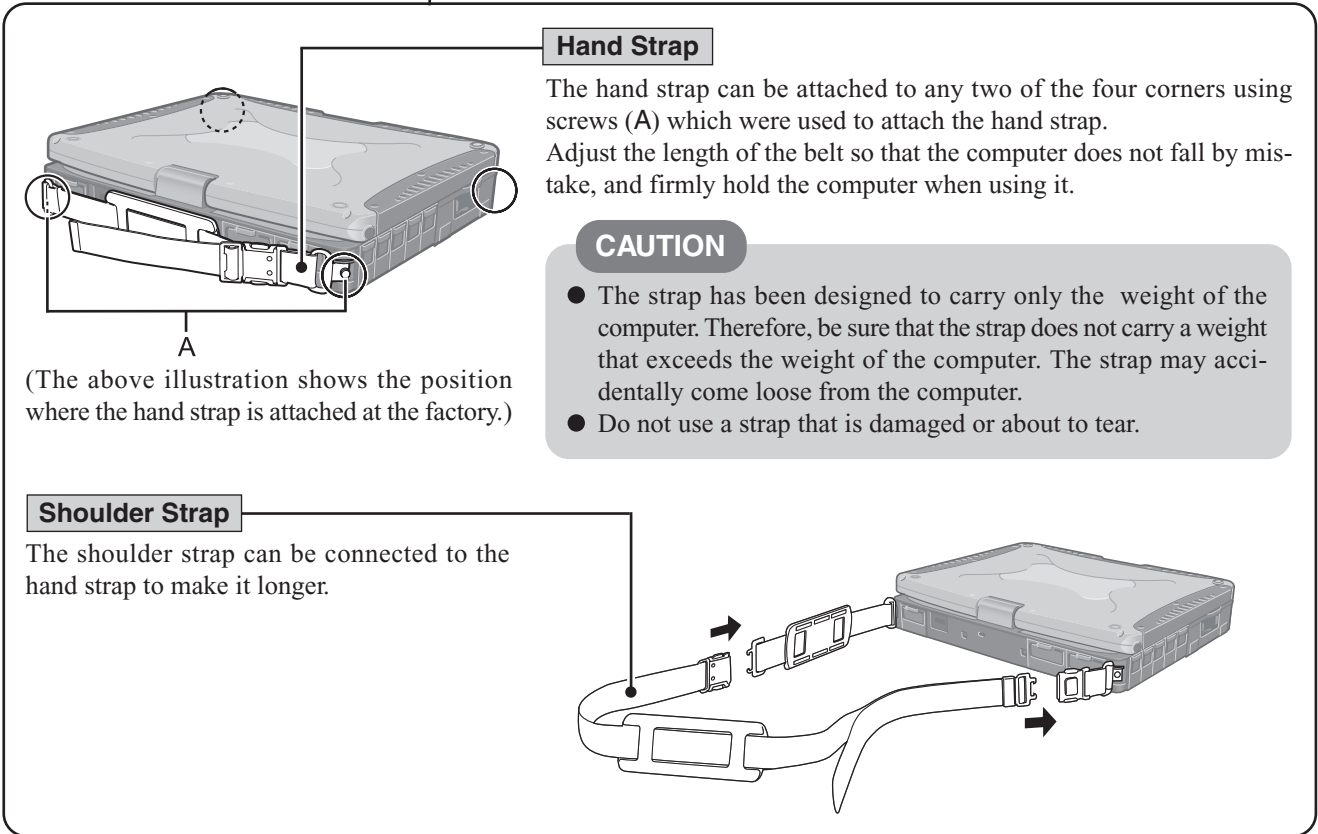
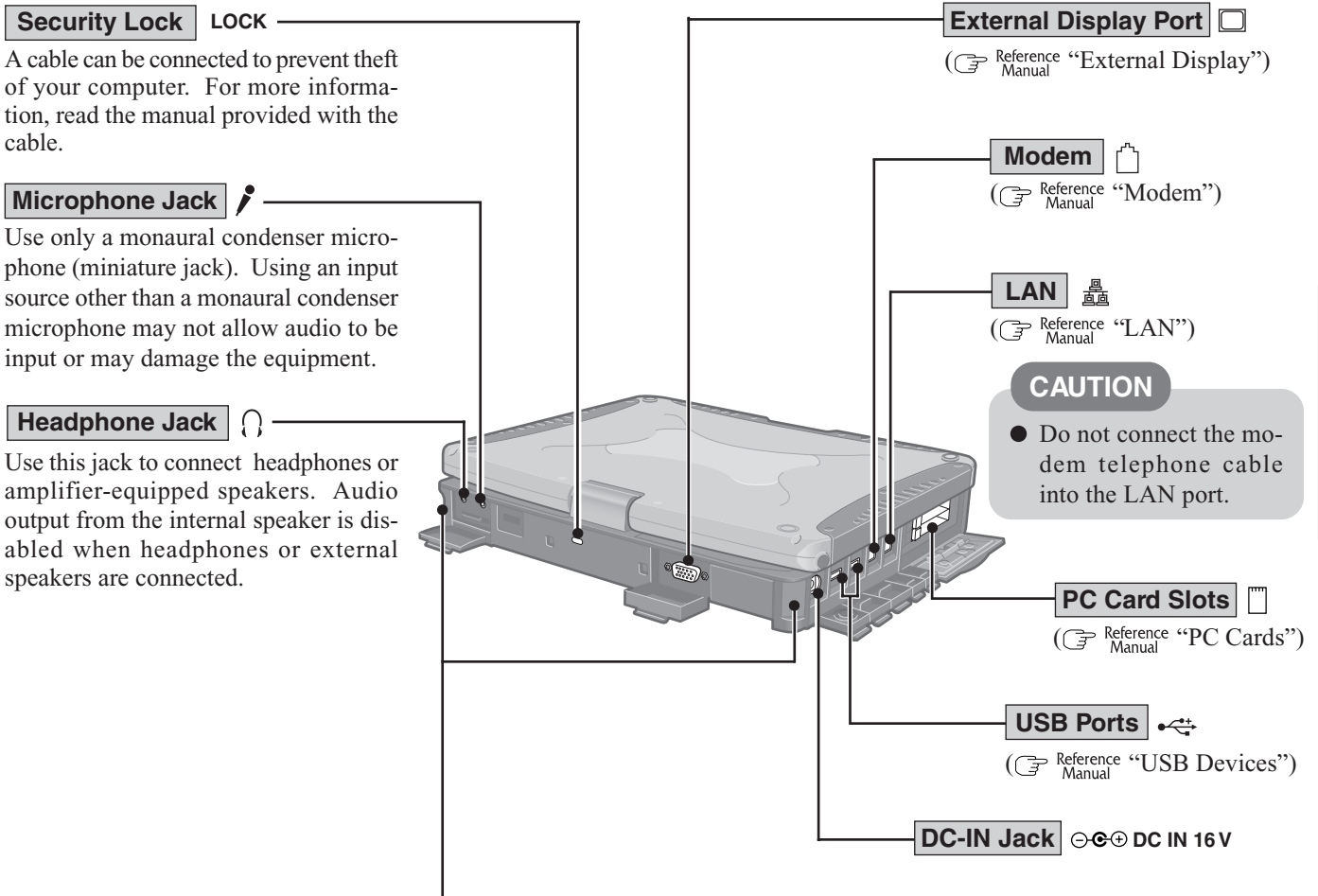
- Do not cover the computer with a thick cloth, such as a blanket.



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

L'appareil que vous vous êtes procuré est alimenté par une batterie au lithium-ion. Pour des renseignements sur le recyclage de la batterie, veuillez composer le 1-800-8-BATTERY.





# Names and Functions of Parts

## External Antenna Connectors

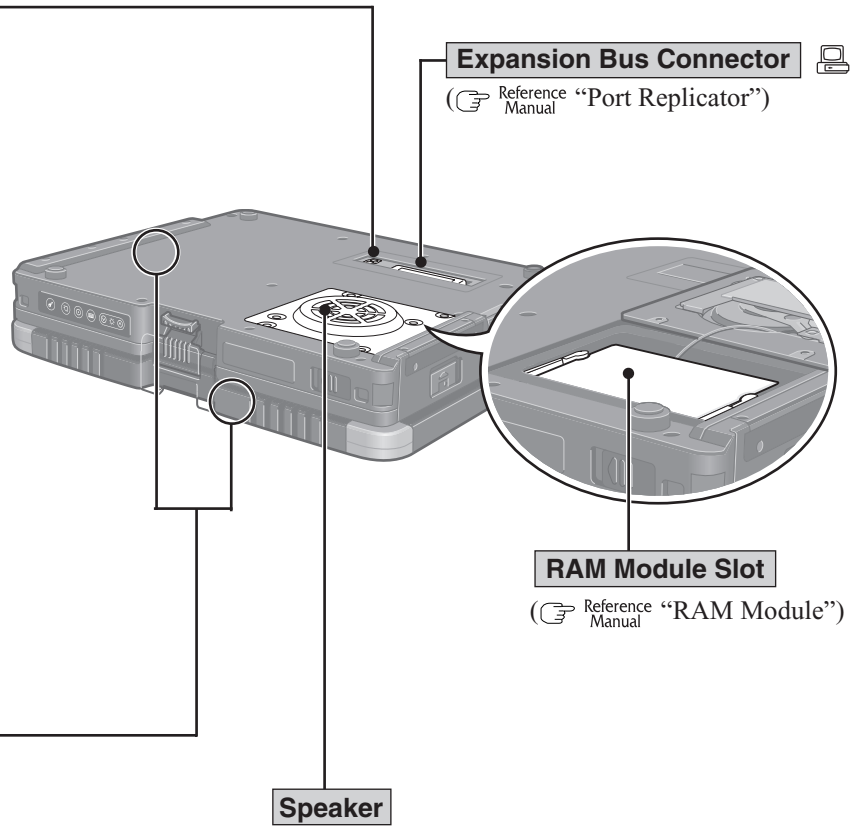
The external antenna connector is for use as an extension in the future.

### CAUTION

- **FCC RF Exposure Warning:**  
This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter. Optional Port Replicator contains TNC connector for external mounted antenna. Employed antenna cannot exceed 7 dBi antenna gain and must be professionally installed. Also, must maintain minimum 20 cm spacing between external antenna and all person's body during wireless mode of operation.

### CAUTION

- Do not allow metallic objects or magnetic media to come near these areas.



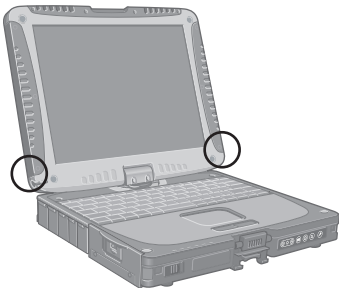
## Speaker

- To adjust the volume: **Fn** + **F5** / **Fn** + **F6**
- Speaker on/off: **Fn** + **F4**

### CAUTION

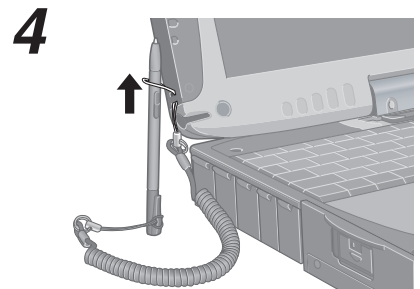
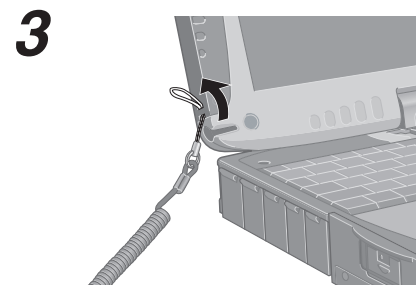
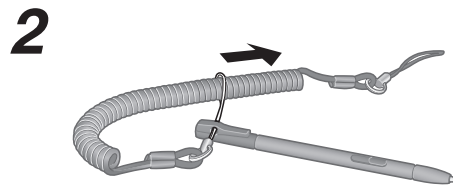
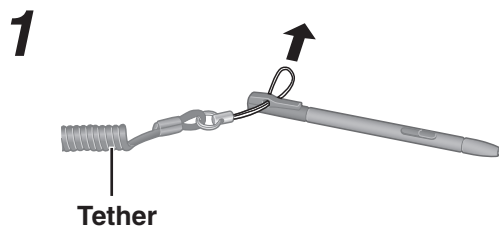
- Do not allow metallic objects or magnetic media to come near the speaker on the bottom surface of the computer.
  - Because the speaker contains a magnet, metal objects may become attached to the bottom surface of the computer. This may cause the computer to be unstable, or may mark the surface of the desk on which it is sitting.
  - If floppy disks, magnetic memory cards, or other magnetic media approach the speaker, there is a risk that data will be destroyed.

## Using the Tether



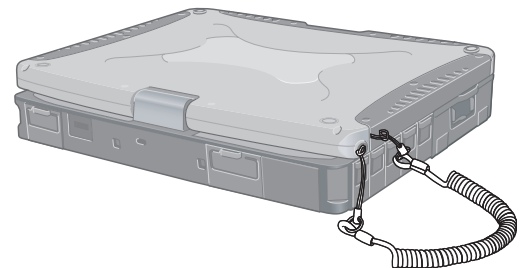
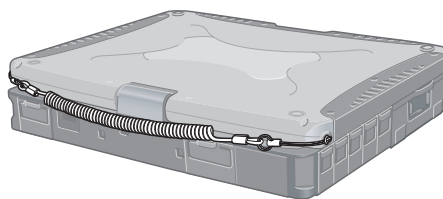
The tether can be attached to the bottom right or bottom left corner of the display. It prevents the pen (included) from falling accidentally.

### Attaching the Tether



#### CAUTION

- When closing the display, be careful not to catch the tether between the display and main part of the computer. (See the figure below.)

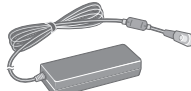

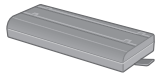
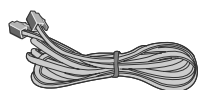



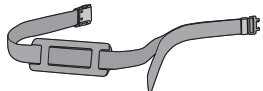


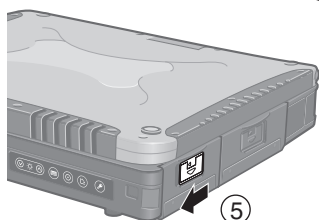
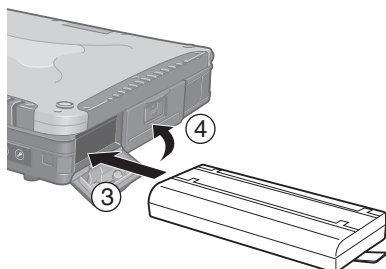
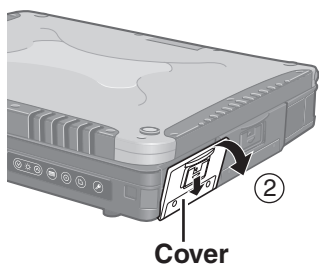
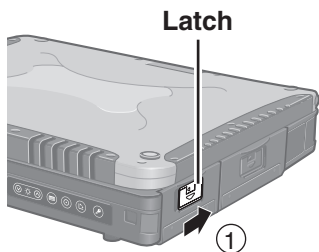
# First-time Operation

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

## 1 Confirm the inclusion of all parts.

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

<b>AC adaptor ..... 1</b>  Model No : CF-AA1623A	<b>AC Cord ..... 1</b> 	<b>Battery Pack ..... 1</b>  Model No :CF-VZSU30
<b>Modem Telephone Cable ..... 1</b> 	<b>Soft Cloth ..... 1</b> 	<b>Pen ..... 1</b>  <small>(☞ Reference "Digitizer" Manual)</small>
<b>Tether ..... 1</b>  <small>(☞ page 11)</small>	<b>Shoulder Strap ..... 1</b>  <small>(☞ page 9)</small>	<b>Operating Instructions (This book) ..... 1</b> <b>Windows® Book .... 1</b> <b>Product Recovery CD-ROM ..... 4</b>



## 2 Read the LIMITED USE LICENSE AGREEMENT. (☞ page 36)

Be sure to read the LIMITED USE LICENSE AGREEMENT before breaking the seal on the computer's packaging.

## 3 Insert the battery pack.

- ① Unlock the cover by sliding the latch to the right.
- ② Slide the latch down, and then without releasing it, open the cover as illustrated.
- ③ Slide the battery pack inward until it is firmly in place.

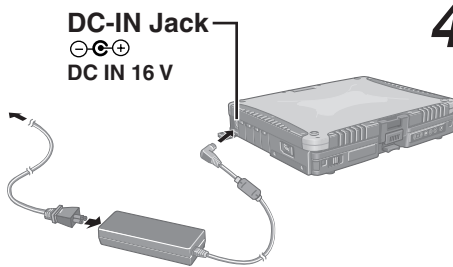
### CAUTION

- Do not touch the terminals on the battery pack and the computer. The battery pack may no longer function properly if the contacts are dirty or damaged. Also, the computer may not operate properly.
- Be sure to insert the battery pack as illustrated.

- ④ Close the cover until it clicks into place.
- ⑤ Lock the cover by sliding the latch to the left.

### CAUTION

- Confirm that the latch lock is correctly in place. If you carry your computer without the latch lock in place, the battery pack may fall out.
- Before using the battery pack, carefully read "Precautions (Battery Pack)" (☞ page 7).



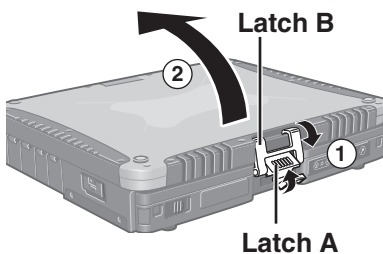
## 4 Connect your computer to a power outlet.

### CAUTION

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

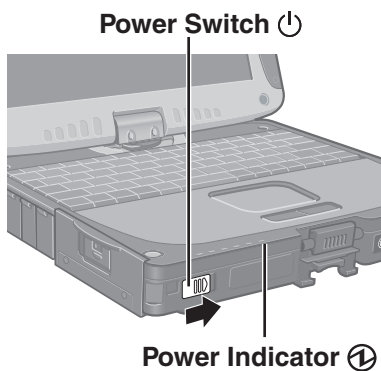
### Handling the AC adaptor

- 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 the battery pack is installed.



## 5 Open the display.

- ① Pull up on the latch A and release the latch B.
- ② Lift open the display.



## 6 Turn your computer on.

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

### CAUTION

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

## 7 Setup Windows.

Moving the cursor (⌨) or clicking buttons can be performed with the touch pad (☞ page 20).

### CAUTION

- Do not press any keys or touch the touch pad until [Windows XP Professional Setup] is displayed.
- The digitizer function will not operate during Windows setup. Use the touch pad or the keyboard to perform the following procedure.

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

### NOTE

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

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



# First-time Operation

- Enter your computer name and administrator password and then select [Next].


## CAUTION

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

- Enter the correct date, time and time zone, then select [Next].  
The computer will restart.

## NOTE

- It will take some time before the computer restarts and the screen of step 7 is displayed. Wait, and do not press any keys, or touch the touch pad, etc.

- Enter your administrator password and select .
- At [Welcome to Tablet Computing], you can learn the basic operations for Microsoft® Windows® XP Tablet PC Edition.


If the cursor can not be pointed correctly with the pen, perform [Calibration] in [start] - [Control Panel] - [Printers and Other Hardware] - [Tablet and Pen Settings]. When you perform the calibration, hold the pen at the same angle as you would when actually using it.

Perform the calibration separately for [Landscape] and [Portrait].


## 8 Create a new account.

- Select [start] - [Control Panel] - [User Accounts] - [Create a new account].
- Enter a name for the new account, then select [Next].
- Select [Computer administrator], then select [Create Account].
- <When you want to create a password for the new account>  
Select the new account you have created and select [Create a password].  
Follow the instructions on the screen to create a password.
- Select [start] - [Turn Off Computer] - [Restart] to restart the computer.

## CAUTION

- Remember this password! If the password is forgotten, Windows cannot be operated. You can create a password reset disk beforehand ( page 16).


## NOTE

- When creating a new user account:**
  - If you make mail settings, create password reset disks ( page 16), or conduct other related operations before creating the user account, you will be unable to use any previous mail history or settings.
  - When you create the first new account, you can only select [Computer administrator].  
Once a “Computer Administrator” account has been created, you can create additional limited user accounts.  
Note also that only the added user account will be displayed in the Welcome screen. The account for the administrator created during Windows setup will not be displayed.
- If the characters or icons on the screen are too small and difficult to see, after completing step 8, select [start] - [All Programs] - [Panasonic], and select [Icon Enlarger]. This will allow you to magnify the display of characters and icons on the screen.
- The [Icon Enlarger] can be set separately for each account.

## 9 Start up Windows Media Player.

Log on with the administrator authority, and select  on the screen.

After this, start up the application following the instructions on the screen.

- During this process, you will be required to agree to the license agreement. For Windows Media Player, it is necessary to agree to the license agreement for each account created.
- If [I Decline] is selected or a window is closed without any decision being made in the license agreement, no icons on the desktop may be selected. In this case, restart the computer.
- After completing the settings, select  on the screen, and close the Windows Media Player.

### NOTE

- If you use the wireless LAN, be sure to refer to the Reference Manual's "Wireless LAN".

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

# First-time Operation

## Information for Windows XP

- Depending on the Windows settings, installed applications, and drivers, menus and other displays may differ, or some functions (such as use of the password reset disk) may be inoperable. Check with your system administrator for details.
- 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** Connect the USB floppy disk drive (optional: CF-VFUDU03) to your computer.

**2** Select [start] - [Control Panel] - [User Accounts] and select the account you used to logon.

**3** Select [Prevent a forgotten password] from the [Related Tasks] menu of the account you have logged on to, and create a password reset disk following the on-screen instructions.

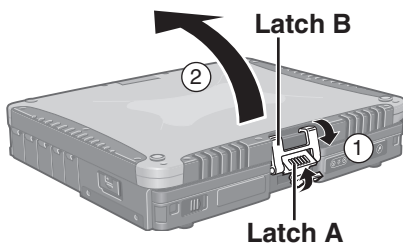
Store the password reset disk in a safe place.

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

The password set in the Setup Utility cannot be reset. (☞ Reference Manual “Setup Utility”)

# Starting Up/Shutting Down

## Starting Up

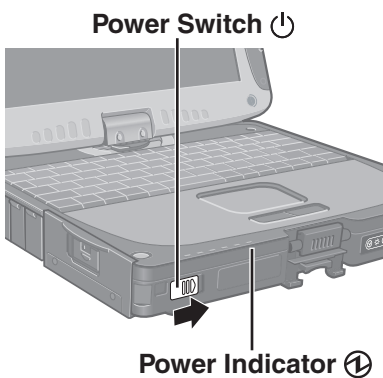


### 1 Open the display.

- ① Pull up on the latch A and release the latch B.
- ② Lift open the display.

### 2 Turn your computer on.

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



#### CAUTION

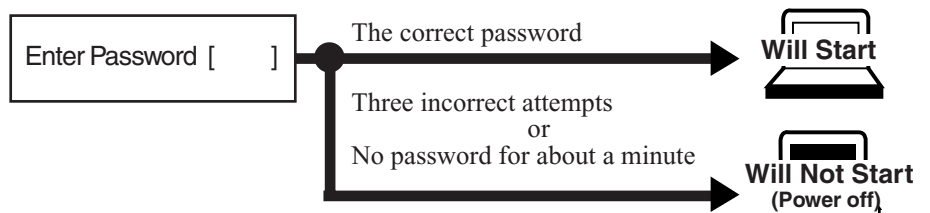
- While booting, avoid the following until the hard disk drive indicator ( ) has turned off.
  - Connecting or disconnecting the AC adaptor.
  - Touching the power switch or the tablet buttons.
  - Performing any keyboard, touch pad, digitizer (or external mouse) operations.
  - Closing the display.
- Once the computer is powered off, you must wait at least ten seconds before powering it on again.
- When using this computer with the battery pack only, it may take some time for the power to turn on after sliding the power switch. In this case, slide the power switch and hold it for more than one second. This phenomenon occurs because the standby power is minimized while the power is turned off; it is not a malfunction.
- 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

- When the power is turned on, sometimes the message “Warming up the system. Please wait...” (up to 25 minutes) is displayed or the battery indicator alternately blinks green and orange. This function is designed to prevent hard disk drive malfunctions that may occur at low temperatures. Wait for the computer to start up.

### ● If [Enter Password] is displayed,


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



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

# Starting Up/Shutting Down

## 3 Log on to Windows.

After confirming that the hard disk drive indicator (HDD) has turned off, select the user and input the password, then select . Until the correct password 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, the tablet button, the digitizer 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, the digitizer or an external mouse (when one is connected) is used or a key or the tablet button 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. The computer will resume by sliding the power switch. (☞  
Reference Manual “Standby/Hibernation Functions”)



## Shutting Down (power off your computer)


- 1 Save important data and close each application.**
- 2 Select [start] - [Turn Off Computer].**
- 3 Select [Turn Off].**

Your computer will power off automatically.

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

Select [Restart].



### ● To shut down using the keyboard;

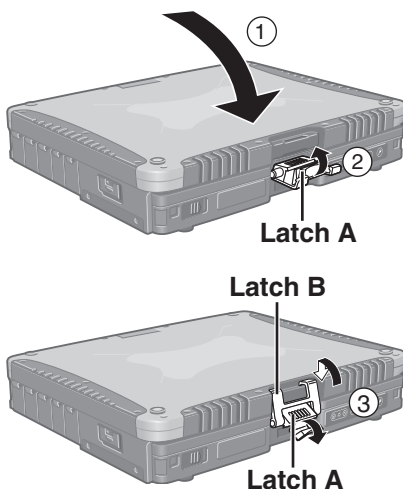
Press , **U**, and select [Turn Off] with **U**.

### 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, digitizer, tablet buttons, or external mouse operations.
  - Closing the display.

### NOTE

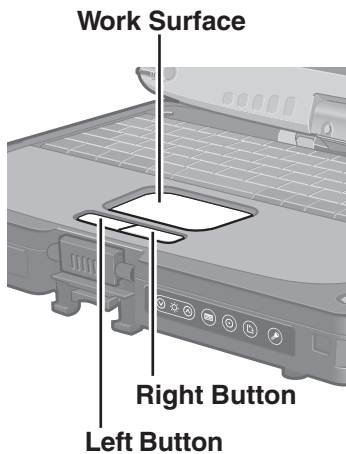
- **To quickly resume computer operation after shutting down,**  
The standby or hibernation function is available ( Reference Manual “Standby/Hibernation Functions”).
- **When you leave the computer or interrupt your work...**  
If you use the “Standby” or “Hibernation” function, then when you turn on the power next time, the application software and files you were using before will be displayed, and you can restart the same operations immediately ( Reference Manual “Standby/Hibernation Functions”).



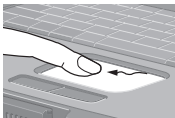
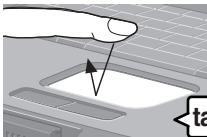
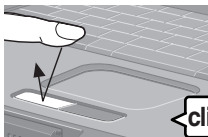
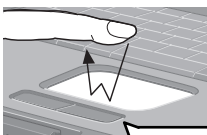
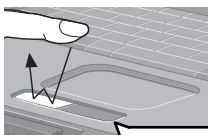
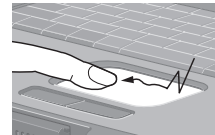
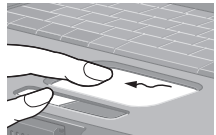
## 4 Close the display.

- ① Close the display.
- ② Pull up on the latch A.
- ③ Position the latch B on the display side, then bring the latch A down to fix the display in place.

# Touch Pad (Basic Operation)



Use the touch pad to move the cursor on the display and perform normal computer operations. For instructions on how to operate, refer to <sup>Reference Manual</sup> “Touch Pad”.

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

## Handling the Touch Pad

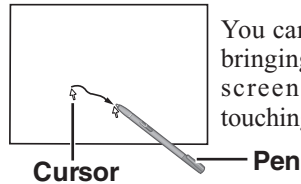
- By design the touch pad is to be used with a finger tip only. Do not place any object on the work surface or press down forcefully with sharp-pointed objects (e.g., nails) or hard objects that can leave marks (e.g., pencils and ball point pen).
- Try to avoid having any harmful substances such as oil, come in contact with the touch pad. The cursor may not work properly in such cases.
- **When the touch pad becomes dirty:**  
Wipe to remove dirt by using a dry soft cloth such as gauze or a soft cloth first applied with detergent diluted with water and then thoroughly wrung.  
Do not use benzene, thinner, or rubbing alcohol. Doing so may adversely affect the surface, e.g., discoloration. In addition, do not use commercially-available household cleaners and cosmetics, as they may contain components harmful to the surface.

# Digitizer (Basic Operation)

Your computer is equipped with a digitizer function allowing you to perform the same operations as the touch pad or mouse by touching the surface of the display with the pen (included). (The following explanation gives one example (for the default settings).)

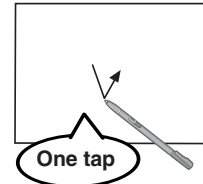
The operation settings can be changed. For detailed information, refer to Reference Manual “Digitizer”.

## ● Moving the cursor

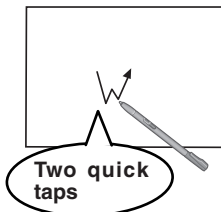


You can move the cursor by bringing the pen close to the screen, without actually touching the screen's surface.

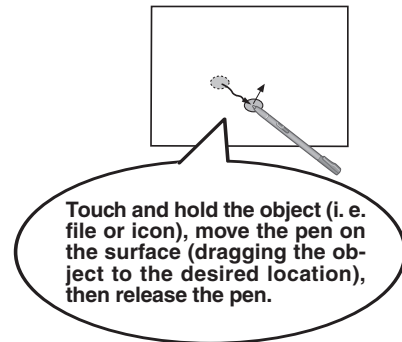
## ● Clicking



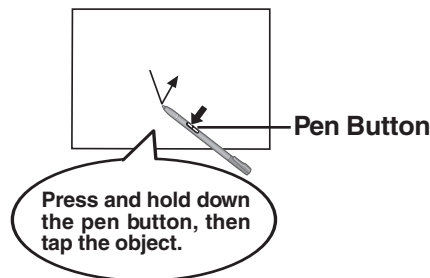
## ● Double-clicking



## ● Dragging



## ● Right-clicking



## Handling the Digitizer

- Use the pen included with the computer. You cannot use an implement other than the pen that comes with the computer.
- Do not place any object on the surface or press down forcefully with sharp-pointed objects (e.g., nails), or hard objects that can leave marks (e.g., pencils and ball point pens).
- Do not operate the computer when such things as dust are on the screen. Do not allow contact with substances that could dirty the screen, such as oil.
- **When the screen becomes dirty:**  
Wipe to remove dirt by using a dry soft cloth included with the computer.  
Do not use benzene or thinner, or rubbing alcohol.  
For more information, refer to “Suggestions About Cleaning the LCD Surface” that comes with the soft cloth.
- Because the digitizer uses electromagnetic induction, it may malfunction in locations such as the following, where strong electrical fields or magnetic fields occur:
  - Near AM radio base station or relay station antennas
  - Near some CRT displays that generate strong electromagnetic field noiseEven if the digitizer does malfunction, it will return to normal operations when the computer is no longer in close proximity to the locations described above.

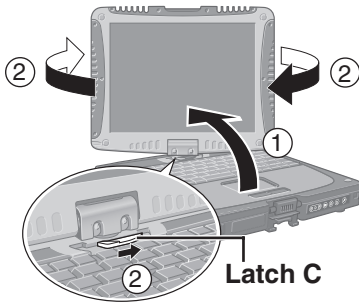
## Handling the Pen

- The pen has a built-in pressure sensor to detect the touch of the pen tip. Avoid strong shocks (such as dropping the pen), excessive pressure on the pen tip, or allowing the pen to become wet. These may result in malfunctions or damage to the pen.
- Clean the pen tip and screen prior to operation. Foreign particles can scratch the screen and impede the operation of the pen.
- Use the pen only for the computer screen. Using it for any other purpose may damage the pen and scratch the screen.
- Do not move the pen too quickly. If the pen moves too quickly, the cursor may be unable to follow its movement.

# Operating in Tablet Mode

In addition to being used as a regular notebook computer (Laptop mode), this computer can also be operated in Tablet mode. Simply turn the display around 180°, and close the computer with the display facing up. In Tablet mode, the computer can be operated using the digitizer (☞ page 21), the Input Panel and the tablet buttons (☞ Reference Manual “Tablet Buttons”), instead of the internal keyboard and the touch pad.

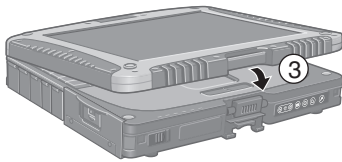
Set the computer in Tablet mode using the following procedure.



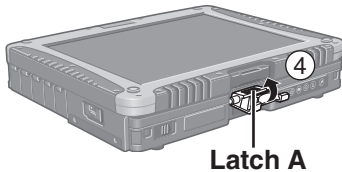
- ① Open the display so that it is perpendicular with the body of the computer.
- ② Slide the latch C to the right, and then without releasing it, turn the display clockwise by 180°.

## CAUTION

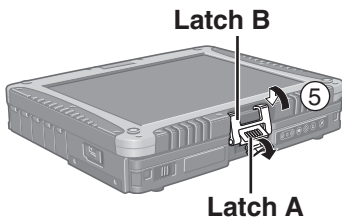
- Do not rotate the display more than 180°, or attempt to rotate the display counter-clockwise.



- ③ Close the computer with the display facing up.



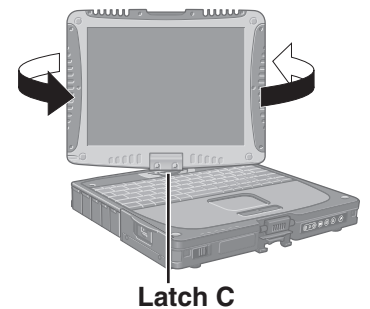
- ④ Pull up on the latch A.



- ⑤ Position the latch B on the display side, then bring the latch A down to fix the display in place.

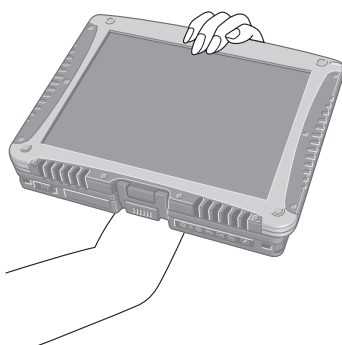
## NOTE

- To return to Laptop mode:  
Perform the steps for changing the computer into Tablet mode, only in reverse order.  
**1** Pull up on latch A and release the latch B.  
**2** Open the display.  
**3** Slide the latch C to the right, and then without releasing it, turn the display counter-clockwise by 180°.

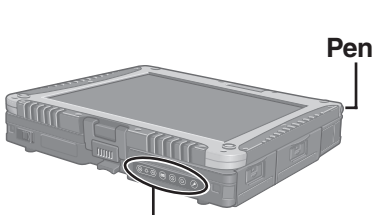


## Usage Example

In Tablet Mode, the computer can be operated while holding the body as shown in the figure.



## Changing the Display Settings



### Tablet Buttons

- LCD brightness control
- Input Panel
- Enter
- Rotation
- Security

### ● To rotate the display

Press the rotation button until the display is set at the angle that is most comfortable for you.

For detailed information, refer to “Display Rotation”

#### NOTE

- You can set the computer so that the display automatically rotates to your preferred angle when changing from Laptop Mode to Tablet Mode or vice versa. Reference Manual “Display Rotation”

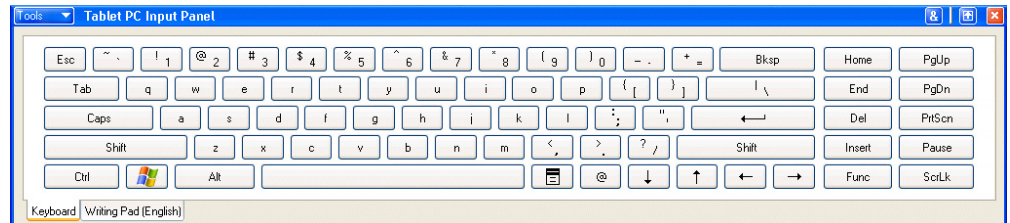
### ● To adjust the brightness of LCD

Press the LCD brightness control buttons .

## Inputting Characters

Press the input panel button or select on the taskbar.

[Tablet PC Input Panel] shown below will appear, and characters can be input with the pen (included). For detailed information, refer to Windows help.



#### NOTE

- When using the digitizer function, use only the pen included with the computer.



# Reference Manual

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

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

## Opening the Reference Manual or Important Battery Tips

### ● Reference Manual

Select [Reference Manual] in [start].

### ● Important Battery Tips

Select  on the desktop.

Important Battery Tips can also be accessed from the following menu.

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

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

Refer to Acrobat Reader Help to use the Acrobat Reader.

#### NOTE

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

# Useful Information

## Usage Environment

### ● Environment

- 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)

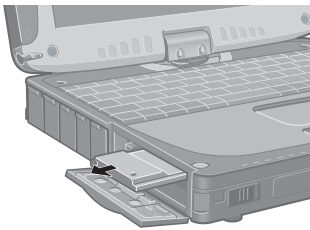
### NOTE

- Only use the computer within the allowable temperature range.  
When the computer is left powered on in a low temperature environment, set [Turn off hard disks] to [Never] in the following menu to avoid damage to the hard disk drive.  
[start] - [Control Panel] - [Performance and Maintenance] - [Power Options] - [Power Schemes]

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

## Handling

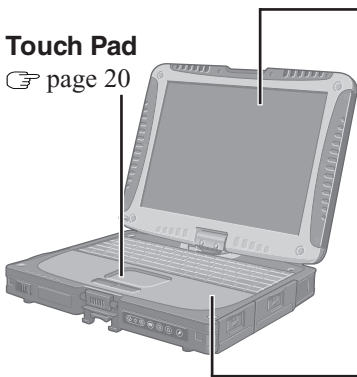


- This computer has been designed so as to minimize shock to the LCD and hard disk drive, the leakage of liquid (e.g., water) on to the keyboard, etc., but no warranty is provided against such trouble. Therefore, as a precision instrument, be extremely careful in the handling.
- Do not drop or hit your computer against solid objects.
- Do not carry your computer when it is on.
- Remove all external devices and 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 spare batteries 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.

# Useful Information

## Maintenance

Touch Pad  
☞ page 20



### Display

Use the Soft Cloth included with the computer. (For more information, refer to “Suggestions About Cleaning the LCD Surface” that comes with the Soft Cloth.)

If the Protective Film becomes dirty or damaged, it may be time to replace your Protective Film. The Protective Film is a disposable item. To find out the model number of your Protective Film, contact Panasonic Technical Support. (For more information, refer to the “Operating Instructions” that come with the Protective Film.)

### CAUTION

- Do not touch the screen before you re-attach a Protective Film, as you may leave a mark or a scratch on the screen.

### 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.

## 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 (LED) 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 Manual “Security Measures”)

### 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 Manual “Security Measures”)

## 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 Using Peripheral Devices

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

- Use only peripheral devices that conform to the computer's specifications.
- Connect the devices properly, paying close attention to the condition and position of the connectors.
- If a connection cannot be made easily, do not apply undue force; check once more to confirm the condition and position of the connector (alignment of pins, etc.) .
- If the connector has holding screws, fasten the screws firmly.
- Do not carry the computer with cables attached, and do not pull on the cables forcefully.

## Wireless LAN

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

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

## Windows Update

You can use the latest patches and service packs for Windows with the following menus.

**Do not apply "Driver Updates" even if a message to update a driver appears. If a driver update is required, contact to Panasonic Technical Support.**

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

## When Changing Hard Disk Partitions

When using the hard disk backup function (☞ page 38), do not divide up the hard disk before creating a backup region. If you do this, the backup region cannot be created. Divide into the partition when the backup region is created.

## When Disposing of or Transferring Ownership of This Device

When disposing of or transferring ownership of this device, erase all data on the hard disk in order to prevent the theft of hard disk data. Even if you delete data or initialize the hard disk through normal Windows commands, data can still be read using special software. In order to erase all data, either have the data erased by a specialist (at a charge) or use the hard disk data erase utility (included) (☞ page 42). (Note that this hard disk data erase utility does not guarantee that data will be completely erased.)

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

# List of Error Codes

When turning on the computer, if one of the following error codes or messages is displayed, follow the instructions shown below. If the problem persists, or if the error code or message displayed is not shown here, contact Panasonic Technical Support.

Error Code/Message	Action
<b>0211: Keyboard error</b>	<ul style="list-style-type: none"> <li>● If an external keyboard or mouse is connected, disconnect these devices.</li> </ul>
<b>0251: System CMOS checksum bad - Default configuration used</b>	<p>An error has occurred in the memory that stores the Setup Utility settings. This error occurs when the memory content is changed through some inadvertent operation by a program or other function.</p> <ul style="list-style-type: none"> <li>● Run the Setup Utility and load the default values, then change the settings to the appropriate values as needed.</li> <li>● If the problem persists, the internal clock battery may need to be replaced. Contact Panasonic Technical Support.</li> </ul>
<b>0271: Check date and time settings</b>	<p>The data and time setting are incorrect.</p> <ul style="list-style-type: none"> <li>● Run the Setup Utility and set the date and time correctly.</li> <li>● If the problem persists, the internal clock battery may need to be replaced. Contact Panasonic Technical Support.</li> </ul>
<b>0280: Previous boot incomplete - Default configuration used</b>	<p>Startup has failed repeatedly, so the Setup Utility settings have been returned to their default values, and the computer has been restarted.</p> <ul style="list-style-type: none"> <li>● Run the Setup Utility and load the default values, then change the settings to the appropriate values as needed.</li> </ul>
<b>Press &lt;F1&gt; to resume, &lt;F2&gt; to Setup</b>	<ul style="list-style-type: none"> <li>● Write down the error details and press <b>(F2)</b> to run the Setup Utility. Confirm the settings, and change the settings to the appropriate values as needed.</li> </ul>
<b>Operating System not found</b>	<p>The OS is not properly installed on the floppy disk or the hard disk that you are trying to boot from.</p> <ul style="list-style-type: none"> <li>● If the computer cannot be booted from the floppy disk, check the floppy disk drive to ensure that the disk is in fact bootable, and change it to another if not.</li> <li>● If the computer cannot be booted from the hard disk, confirm whether the hard disk is properly recognized in [Information] menu of the Setup Utility. If the hard disk is recognized, perform the reinstallation procedure. If not, contact Panasonic Technical Support.</li> <li>● If a device is connected to the USB port, disconnect the device, or run the Setup Utility and set [Legacy USB Support] in [Advanced] menu to [Disable].</li> </ul>

## ● To run the Setup Utility

- 1 Restart the computer.
- 2 Press **(F2)** while [Panasonic] boot screen is displayed soon after the computer begins the startup procedure.

# 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. You can use the PC Information Viewer to check the computer’s usage status. (☞ Reference Manual “Dealing with Problems (Advanced)”)

## ● Starting Up

<b>The power indicator or battery indicator is not lit</b>	<ul style="list-style-type: none"> <li>● Check the cable connection for the AC adaptor.</li> <li>● Check to see if a fully charged battery is properly installed.</li> <li>● Remove the battery pack and disconnect the AC adaptor, then connect them again.</li> </ul>
<b>The computer does not operate when a USB device is connected</b>	<ul style="list-style-type: none"> <li>● The computer may not operate when certain USB devices are connected. Disconnect the USB device, or set [Legacy USB Support] to [Disable] in [Advanced] menu of the Setup Utility.</li> </ul>
<b>[Enter Password] is displayed</b>	<ul style="list-style-type: none"> <li>● Input your Supervisor Password or User Password. If you have forgotten it, contact Panasonic Technical Support.</li> </ul>
<b>POST Startup Error(s) is displayed</b>	☞ page 28
<b>Windows startup, or an operation is extremely slow</b>	<ul style="list-style-type: none"> <li>● Press <b>(F9)</b> in the Setup Utility (☞ <small>Reference Manual</small> “Setup Utility”). This will restore the Setup Utility’s settings to their default values (except the password settings). Then, the Setup Utility must be run once again for you to input the appropriate operating environment settings. (The processing speed depends on the application software used, so this operation may not cause the processing speed to increase.)</li> <li>● Disable any resident software.</li> </ul>
<b>The date and time are incorrect</b>	<ul style="list-style-type: none"> <li>● You can set the date and time using the following menu. [start] - [Control Panel] - [Date, Time, Language, and Regional Options] - [Date and Time]</li> <li>● When the computer is connected to a LAN, confirm the date and time of the server.</li> <li>● If you continue to experience problems, the internal battery maintaining the clock may need to be replaced. Contact Panasonic Technical Support.</li> <li>● This computer will not correctly recognize the date and time starting from the year 2100 A.D.</li> </ul>
<b>When resuming from the standby or hibernation mode, [Enter Password] does not appear even if a password has been set in the Setup Utility</b>	<ul style="list-style-type: none"> <li>● Even when a password has been set in the Setup Utility, [Enter Password] does not appear when the computer resumes from the standby or hibernation mode. If you want to use the security function when using the standby or hibernation mode, use the Windows password as follows:             <ol style="list-style-type: none"> <li>1 Select the account to change in [start] - [Control Panel] - [User Accounts] and set the password.</li> <li>2 Add the check mark for [Prompt for password when computer resumes from standby] in [Control Panel] - [Performance and Maintenance] - [Power Options] - [Advanced].</li> </ol> </li> </ul>
<b>When the administrator password is forgotten</b>	<ul style="list-style-type: none"> <li>● Set the password again in the following procedure. If you have created a password reset disk (☞ page 16), a message is displayed when you fail to correctly enter the password. Follow the message’s instructions and set the password again by using the password reset disk. If you have not created a password reset disk, after reinstalling, setup Windows and then set the password again.</li> </ul>
<b>When “Remove disks or other media. Press any key to restart” (or a similar message) is displayed</b>	<ul style="list-style-type: none"> <li>● This means a floppy disk that does not contain system startup information has been left in the floppy disk drive. Remove the floppy disk, and press any key.</li> <li>● This message may appear when certain USB devices are connected. Remove the USB device, or set [Legacy USB Support] in [Advanced] menu of the Setup Utility to [Disable].</li> <li>● If the message still appears even after trying the above two measures, this may be an indication that some type of hard disk failure has occurred. Contact Panasonic Technical Support.</li> </ul>



# Dealing with Problems (Summary)

## Starting Up (continued)

When the previous item is not the cause	<ul style="list-style-type: none"> <li>● Press <b>(F9)</b> in the Setup Utility (☞ <small>Reference Manual</small> “Setup Utility”). This will restore the Setup Utility’s settings to their default values (except the password settings).</li> <li>● Try removing all peripheral devices.</li> <li>● Check a disk error using the following procedure.             <ol style="list-style-type: none"> <li>1 Select [Local Disk(C:)] with the right button in [start] - [My Computer], and select [Properties].</li> <li>2 Select [Tools] - [Check Now].</li> <li>3 Select [Start] after selecting required items in [Check disk options].</li> </ol> </li> <li>● At startup, hold down <b>(F8)</b> when the [Panasonic] boot screen disappears*<sup>1</sup>, and release your finger when the Windows Advanced Options Menu is displayed. Start the computer in Safe Mode, and confirm the details of the error.</li> </ul> <p><small>*<sup>1</sup> When [Password on boot] is set to [Enable], [Enter Password] appears after the [Panasonic] boot screen disappears. Hold down <b>(F8)</b> soon after inputting the password and pressing <b>(Enter)</b>.</small></p>
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## Display

No display after powering on	<ul style="list-style-type: none"> <li>● When there is no display to an external display,             <ul style="list-style-type: none"> <li>• Check your cable connection to the external display.</li> <li>• Confirm your display is powered on.</li> <li>• Check the settings for your external display.</li> </ul> </li> <li>● The display destination may be set to the external display. Try changing the display destination by pressing <b>(Fn) + (F3)</b>. If you want to switch the display destination repeatedly by pressing <b>(Fn) + (F3)</b>, make sure that the display destination has switched completely each time before pressing <b>(Fn) + (F3)</b> again.</li> <li>● Press <b>(Fn) + (F2)</b> and adjust the brightness.</li> </ul>
The power has not been turned off, but after a certain period of time, there is no display	<ul style="list-style-type: none"> <li>● Has the computer been set to the power-saving mode? To resume operation of your computer from the condition the power of the display is off (for energy conservation purposes), press any key unrelated to the direct triggering of a selection, like <b>(Ctrl)</b>.</li> <li>● To save power, your computer may have automatically entered the standby mode (power indicator blinks green) or hibernation mode (power indicator turns off). In such cases, slide the power switch.</li> </ul>
When the battery pack is used, the screen is darker than when the AC adaptor is connected	<ul style="list-style-type: none"> <li>● Press <b>(Fn) + (F2)</b> and adjust the brightness. Note, however, that when the brightness is increased, the battery running time will become shorter. Brightness can be set to separate levels for when the AC adaptor is connected and when it is disconnected.</li> </ul>
An afterimage appears (e.g., green, red, and blue dots remain on the display) or there are dots not displaying the correct colors	<ul style="list-style-type: none"> <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	<ul style="list-style-type: none"> <li>● When an external display not compatible with the power saving mode is used with the computer, the display may not function correctly when the computer enters the power saving mode. In such cases, turn off the power to the external display.</li> </ul>
When you want to display the fonts or icons at a larger size	<ul style="list-style-type: none"> <li>● Change the size of the icons, etc. using “Icon Enlarger” (☞ <small>Reference Manual</small> “Icon Enlarger”).</li> </ul>

## ● Display (continued)

<p><b>During simultaneous display, one of the screens becomes disordered</b></p>	<ul style="list-style-type: none"> <li>● Try changing the display by pressing <b>(Fn) + (F3)</b>.</li> <li>● If you continue to experience problems, try changing the display destination in the following menu. [start] - [Control Panel] - [Other Control Panel Options] - [Intel(R) Extreme Graphics 2 M] - [Devices]</li> <li>● When the [Command Prompt] is set to “Full Screen” by pressing <b>(Alt) + (Enter)</b>, the picture is displayed on one of the screens only. When the window display is restored by pressing <b>(Alt) + (Enter)</b>, the picture is displayed on both screens.</li> </ul>
<p><b>When an a moving picture such as an MPEG file is being played with Media Player, the display destination cannot be switched using <b>(Fn) + (F3)</b></b></p>	<ul style="list-style-type: none"> <li>● The display destination cannot be switched while a moving picture such as an MPEG file is playing. Stop playing the moving picture before switching the display destination.</li> </ul>

## ● Shutting down





<p><b>Windows cannot be shut down or restarted</b></p>	<p>If a USB device is connected, try removing it.</p>
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## ● Battery Indicator


<p><b>The red indicator lights</b></p>	<ul style="list-style-type: none"> <li>● The battery level is very low (the charge is approx. 9% or less). Connect the AC adaptor. You can use the computer when the battery indicator light is orange. If you do not have an AC adaptor, save your data and power off your computer. After replacing the battery pack with a fully charged one, turn your computer on.</li> </ul>
<p><b>The red indicator blinks</b></p>	<ul style="list-style-type: none"> <li>● Quickly save your data and power off your computer. Remove the battery pack and disconnect the AC adaptor, then connect them again. If the problem persists, contact Panasonic Technical Support. Possible failure in the battery pack or charging circuit.</li> </ul>
<p><b>The orange indicator blinks</b></p>	<ul style="list-style-type: none"> <li>● Battery cannot be recharged temporarily because the internal temperature of the battery pack is outside of the acceptable temperature range for recharging. Once the allowable range requirement is satisfied, charging begins automatically. Your computer can be used normally in this state.</li> </ul>
<p><b>The green indicator blinks</b></p>	<ul style="list-style-type: none"> <li>● In high temperature mode, the battery is discharging to the level that corresponds to an 80%*<sup>1</sup> charge for normal temperature mode. (☞ <small>Reference Manual</small> “Battery Power”) Do not remove the battery pack while the battery indicator is blinking green or the power will be turned off forcibly. *<sup>1</sup> In high temperature mode, the level that corresponds to an 80% charge for normal temperature mode is displayed as [100%].</li> </ul>
<p><b>The battery indicator blinks green and orange alternately</b></p>	<ul style="list-style-type: none"> <li>● Warming up the system to prevent hard disk drive malfunctions at low temperature. Leave your computer as is. Once the allowable temperature range requirement is satisfied, your computer will start automatically.</li> </ul>

# Dealing with Problems (Summary)

## ● Touch Pad / Digitizer

<p>The cursor cannot be controlled properly</p>	<ul style="list-style-type: none"> <li>● If you are using an external mouse, ensure that the external mouse has been connected correctly.</li> <li>● Restart the computer by using the keyboard (Press , , and select [Restart] with ).</li> <li>● Be sure to use the Display Rotation Tool to rotate the display.</li> <li>● If the computer does not respond to keyboard commands, read “No response” ( page 33).</li> </ul>
<p>The cursor does not move in scrolling area of the touch pad</p>	<ul style="list-style-type: none"> <li>● When the Microsoft® IntelliMouse™ Wheel mode or the original mode is set for the touch pad, only scroll operations are possible for the right part or bottom part of the touch pad. In this case, cursor operations are possible by using the work surface excluding the right part or bottom part. When no mode is set, the entire surface of the touch pad can be used for cursor operations.</li> </ul>
<p>Unable to input using the touch pad</p>	<ul style="list-style-type: none"> <li>● Has the Setup Utility been used to set [Touch Pad] to [Enable]?</li> <li>● When external mouse drivers are installed (e.g., Intellimouse), the touch pad may not be used.</li> <li>● Has the touch pad driver been properly installed?</li> </ul>
<p>Unable to use the digitizer function</p>	<ul style="list-style-type: none"> <li>● Has the Setup Utility been used to set [Digitizer] to [Enable]?</li> <li>● You can use only the pen included with the computer to use the digitizer function.</li> <li>● It is necessary to perform [Calibration] to point correctly with the pen included with the computer.</li> </ul>

## ● Display Rotation

<p>The display is not rotated automatically by switching from Laptop mode to Tablet mode, or vice versa</p>	<ul style="list-style-type: none"> <li>● Confirm that the default angle of each mode is correctly set. ( <small>Reference Manual</small> “Display Rotation”)</li> <li>● Do not switch from Laptop mode to Tablet mode, or vice versa, while Windows is in the process of switching users with the Fast User Switching function.</li> </ul>
<p>When the screensaver starts while the display is rotated, nothing is displayed on the screen</p>	<ul style="list-style-type: none"> <li>● Some screensaver types do not display anything on the screen for the first minute or so. Try changing the screensaver type.</li> </ul>

## ● Reference Manual

<p>The Reference Manual is not displayed</p>	<ul style="list-style-type: none"> <li>● Is Acrobat Reader installed? If Acrobat Reader is not installed, run [c:\util\reader\acroreader51_enu_full.exe] in [start] - [Run] to reinstall the program. When installing the program, do not change the installation destination folder. If the destination folder is changed, the Reference Manual cannot be opened from the [start] menu.</li> </ul>
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## ● Fast User Switching Function

<p>Some applications may not work properly</p>	<ul style="list-style-type: none"> <li>● When switching to a different user with the Fast User Switching function, the following problems may occur.             <ul style="list-style-type: none"> <li>• Some applications may not work properly.</li> <li>• Key combinations with the Fn key may not work.</li> <li>• It may not be possible to set the settings of the display.</li> <li>• Wireless LAN may not work.</li> </ul> </li> </ul> <p>In this case, log off all users without using Fast User Switching function, and try the operation once more. If the problem persists, restart the computer.</p>
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## ● Others

<p>No response</p>	<ul style="list-style-type: none"> <li>● Press <b>(Ctrl) + (Shift) + (Esc)</b> to open Task Manager and close the software application which is not responding.</li> <li>● After shutting down by sliding the power switch for more than four seconds, slide the power switch to power on and open the application again. If the program no longer works normally, delete the program using the following menu. Then reinstall the program. [start] - [Control Panel] - [Add or Remove Programs]</li> </ul>
<p>When trying to play back video files using Windows® Media Player, the message [Codec required] appears, and the file cannot be played back</p>	<ul style="list-style-type: none"> <li>● Some video files use a Codec that is not installed as a standard. In these cases, if you play back the video file after connecting to the Internet, the Codec may be downloaded automatically, allowing you to play back the file.</li> </ul>
<p>The shortcut icon for the Windows® Media Player is not displayed on the desktop</p>	<ul style="list-style-type: none"> <li>● Start up Windows® Media Player from [start] - [All Programs]. Also, you can copy the icon from [All Programs] list to the desktop and use this icon to start Windows® Media Player.</li> </ul>
<p>Two shortcut icons for the Windows® Media Player are displayed on the desktop</p>	<ul style="list-style-type: none"> <li>● Did the user who first accepted the Windows® Media Player license agreement have the administrator authority? Two icons will be displayed until someone with the administrator authority accepts the license agreement, but either icon can be used to start the program.</li> </ul>

# Reinstalling Software

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

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

Even if a hard disk backup area has been created, this backup area will be erased, and all the backed up data will be lost.

(This is not the case when Windows is reinstalled in the first partition.)

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

## Before Reinstallation

### ● Preparing

- Product Recovery CD-ROM (included)
- Panasonic USB CD/DVD drive (optional: CF-VDRRT1M or CF-VDRRT2W )

### ● Important

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

## Reinstalling

1 Turn off the computer and connect the CD/DVD drive to the USB port.

2 Turn the computer on, and press **(F2)** while [Panasonic] boot screen is displayed.

The Setup Utility will start up.

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

3 Write down all of the contents of the Setup Utility and then press **(F9)**.

At the confirmation message, select [Yes] and press

**(Enter)**.

4 Select [Boot] menu, then select [USB CD/DVD Drive] and press **(F6)** until [USB CD/DVD Drive] is at the top of the [Boot] menu.

5 Place disc number one of the recovery CDs into the CD/DVD drive.

6 Press **(F10)**.

At the confirmation message, select [Yes] and press **(Enter)**. The computer will restart.

<When the hard disk backup function has been enabled>

When the message [The Backup function has been enabled. If [Recovery] or [Erase HDD] is executed, the Backup function will be disabled, and your Backup data will be lost.] appears, press **(Y)**.

7 Press **(1)** to execute [1.[Recovery]].

(You can cancel this operation by pressing **(0)**.)

The License Agreement screen should appear.

8 Press **(1)** to select [1. Yes, I agree to the provisions above and wish to continue!].

This screen should appear.

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

Reinstalling : Windows(R) XP Tablet PC Edition

1. Reinstall Windows to the whole HDD to factory default.
2. Make two partitions, for the operating system and data. And reinstall Windows to the operating system partition.  
(All existing partitions on HDD will be lost.)
3. Reinstall Windows to the first partition.

0. Cancel  
-----

9 Make a selection from the menu.

### NOTE

- When [2] is selected, the hard disk backup function cannot be enabled because the hard disk has been divided into partitions.

- When selecting [2], enter the basic partition size for the operating system installation and press **(Enter)**.

(The data partition size is the remainder after subtracting the basic partition size.)

- To select [3], the initial partition size must be 6 GB or more of the hard disk size. Reinstallation cannot be performed with a small partition size.

<When the hard disk backup function has been enabled>  
If you select [1] or [2], the message [The Backup function has been enabled. If [Recovery] is executed, the Backup function will be disabled, and your Backup data will be lost.] appears. In this case, press **(Y)**.

If the message [Computer must be rebooted in order to execute [Recovery.]] appears, press **(R)**.

- 10** At the confirmation message, press **(Y)**.  
The operation of reinstallation for the hard disk starts automatically. (The operations take about 20 minutes.)

**CAUTION**

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

- 11** After the reinstallation procedure completes, this screen should appear.  
Remove the recovery CD, and then press any key.  
The computer will be shut down.

```

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

```

- 12** Remove the CD/DVD drive.
- 13** Turn on the computer, and press **(F2)** while [Panasonic] boot screen is displayed.  
The Setup Utility will start up.  
If the password has been set, enter the Supervisor Password.

- 14** Press **(F9)**.  
At the confirmation message, select [Yes] and press **(Enter)**. (The Setup Utility settings will return to their default values. Even the security settings with the exception of the password(s) will return to their default values.)

- 15** Select [Exit] and then select [Save Current Values], then press **(Enter)**.  
At the confirmation message, select [Yes] and press **(Enter)**.

- 16** Turn the computer off by sliding the power switch.

**NOTE**

- If additional instructions are included with the computer, be sure to read them. It may be necessary to perform additional operations during the following procedures.

- 17** Perform the first-time use operation (☞ page 13 step 6 - page 15 step 9).
- 18** Run the Setup Utility and change the settings where necessary.



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# Hard Disk Backup Function

The hard disk backup function creates a backup area (storage area) on the hard disk. This area is to back up (store) hard disk contents or restore backed up contents to their original locations.

By backing up the data on your hard disk to a backup area, you can protect your data from loss or damage resulting from operational errors or other factors. Also, you can back up or restore hard disk contents using this computer alone, without having to use other media or peripheral devices.

At the time of purchase, the hard disk backup function is disabled. If you follow the procedure below to create a backup area, the hard disk backup function will be enabled, and you will be able to back up your data. Note, that once the backup function has been enabled, you will have to perform the reinstallation procedure to disable it again (☞ page 34).

The hard disk backup function cannot back up or restore data properly if there is a problem with the hard disk when the data is backed up or restored. Note that if an error occurs while data is being restored, whether as a result of an unexpected malfunction, incorrect operation, or other reason, the data in the hard disk (data before restoration) may be lost.

Matsushita Electric Industrial Co., Ltd. will bear no responsibility for any damages suffered by the user (including loss of data) as a result of the use of this function.

## Preparing

- Product Recovery CD-ROM (included)
- Panasonic USB CD/DVD drive (optional: CF-VDRRT1M or CF-VDRRT2W )

## Before Using a Hard Disk Backup Function

- Disconnect or remove all peripheral devices (except for the CD/DVD drive), as the backup area may not be created properly while these devices are connected.
- Be sure the AC adaptor is connected to the computer.
- A backup area cannot be created if the hard disk is already divided into several partitions. Return the computer to its condition at the time of purchase (one partition only), and create the backup area.
- To divide the partition, make the selection when the backup area is created (☞ page 39 step 8).
- If the partition configuration is changed (partitions created, size changed, etc.) after the backup area has been created, it will no longer be possible to execute the backup function. To change the configuration, it is necessary to return the computer to its condition at the time of purchase, and then create the backup area again.
- The hard disk backup function will only work for the internal hard disk. This function does not work with an external hard disk.
- Backup and restore functions will not operate if the hard disk has been damaged.
- Do not use the NTFS file system compression function, as this may result in insufficient capacity of the backup area.
- If the hard disk malfunctions, it will be impossible to read the data stored on it. We recommend that you also back up important data to a location other than the hard disk (an external hard disk or other media).
- Execute a disk error check using the following procedure.
  - 1 Select [Local Disk(C:)] with the right button in [start] - [My Computer], and select [Properties].
  - 2 Select [Check Now] from [Tools].
  - 3 In [Check Disk], select [Start] without adding a check mark beside any of the items.  
If a message is displayed indicating that there is an error in the disk, display [Check Disk], and add a check mark for [Automatically fix file system errors] and [Scan for and attempt recovery of bad sectors], select [Start], and check for disk errors again.
- The hard disk backup function does not accommodate dynamic disks. Do not convert the hard disk to a dynamic disk.

### NOTE

- Regarding backup area
  - Requires availability of at least half of the entire hard disk. Without sufficient space available, the backup area cannot be created.
  - When the backup area is created, the usable hard disk capacity will be reduced to less than half.
  - The backup area cannot be accessed from Windows. For this reason, backed up data cannot be copied to CD-R or other removable disk media.
  - When the hard disk backup function is executed, data in the backup area will be overwritten. If newly created or edited data is backed up later, data stored previously in the backup area will be lost.

## Create a Backup Area

- 1 Turn off the computer and connect the CD/DVD drive to the USB port.
- 2 Turn on the computer, and press **(F2)** while [Panasonic] boot screen is displayed. The Setup Utility will then start.  
If a password has been set, enter the Supervisor Password. You cannot register [Boot] menu with a User Password.
- 3 Select [Boot] menu, then select [USB CD/DVD Drive] and press **(F6)** until [USB CD/DVD Drive] is at the top of the [Boot] menu.
- 4 Place disc number one of the recovery CDs into the CD/DVD drive.
- 5 Press **(F10)**.  
At the confirmation message, select [Yes] and press **(Enter)**.  
The computer will restart. If [Enter Password] is displayed during the following procedures, input the Supervisor Password or the User Password.  
This screen should appear.

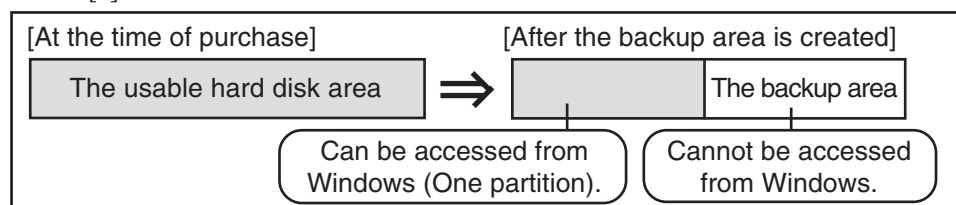
```
-----  
Select a number  
-----  
1. [ Recovery ] Reinstall Windows.  
2. [ Erase HDD ] Erase the whole data on HDD for security.  
3. [ Backup   ] Enable the Backup function.  
  
0. [ Cancel   ] Cancel.  
-----
```

- 6 Press **(3)** to execute [3.[Backup]].

### CAUTION

- When dividing the hard disk into partitions  
Do not execute [1. Recovery] to divide the hard disk into partitions. The hard disk backup function cannot be enabled after the hard disk has been partitioned. Use procedure 8 to divide the hard disk.

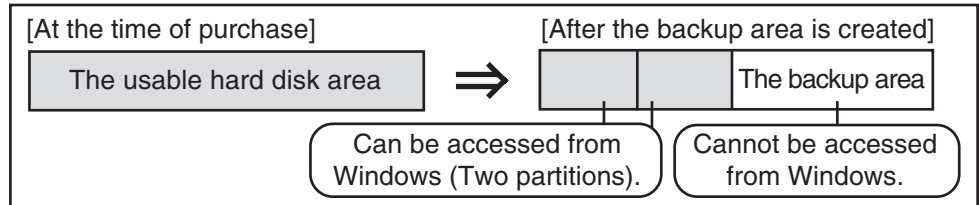
- 7 At the confirmation message, press **(Y)**.
- 8 Select how to divide the hard disk from the menu.  
<To create a backup area and enable the backup function without dividing the hard disk>  
Select [1].



# Hard Disk Backup Function

<To create a backup area and divide hard disk into two partitions, for OS and data>  
Select [2], enter the partition size (GB), and press **Enter**.

- You can cancel this operation by pressing **0**.
- The data partition size will be the maximum settable size less the number entered above. The maximum settable size will differ depending on models.



- 9 When the confirmation message is displayed, press **Y**.  
The backup area is then created.
- 10 When the message [You must reboot in order to enable the Backup function] appears, remove the recovery CD, and press any key to restart the computer. The computer is restarted, then the backup process will begin.
- 11 When the message [[Backup] is complete] appears, press **Ctrl** + **Alt** + **Del** to restart the computer.

## CAUTION

- Do not press **Ctrl** + **Alt** + **Del** until the message is displayed.

- 12 A message will appear advising that a new device has been installed and that the computer must be restarted to enable the settings. Select [Yes] to restart the computer.

## NOTE

- The [Boot] menu in the Setup Utility is set to start up from the CD/DVD drive. Change this setting if necessary.
- The next time the backup or restore functions are executed, follow the procedure for [Backing Up and Restoring Data] (☞ below).

## Backing Up and Restoring Data

### CAUTION

- Before executing the backup function, execute a disk error check (☞ page 38).
- Do not interrupt the backup or restore functions before completion, for example by turning off the power or pressing **Ctrl** + **Alt** + **Del**, as this may prevent Windows from starting up, or may cause data to be lost so that the backup and restore functions cannot be executed.

- 1 Turn the computer on, and press **F2** while [Panasonic] boot screen is displayed. The Setup Utility will start up.  
If a password has been set, enter the Supervisor Password or the User Password.
- 2 Select [Exit] menu, then select [Hard Disk Backup / Restore] and press **Enter**.  
At the confirmation message, select [Yes] and press **Enter**.

**3** Select the operation to be executed from the menu.

<To back up hard disk contents to the backup area>

① Press **(1)** to execute [1. [Backup]].

(When dividing the hard disk into two partitions, select the backup method at next screen.)

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

The backup process will begin.

<To restore backed up contents to the hard disk>

① Press **(2)** to execute [2. [Restore]].

(When data is backed up in two partitions, select the restore method at next screen.)

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

The restore process will begin.

**NOTE**

- The time required to complete the backup or restore process differs depending on the data volume.

**4** When the message [[Backup] is complete] or [[Restore] is complete] is displayed, press

**(Ctrl) + (Alt) + (Del)** to restart the computer.

- If the backup or restore process was interrupted before completion, for example if the power was turned off, execute the process again.
- When a new device is installed and a message appears advising that the computer must be restarted to enable the settings, select [Yes] to restart the computer.

**CAUTION**

- When the hard disk backup function has been enabled, even if a commercial data erasing utility or similar software is used to erase all data from user-accessible area, the backed up data will not be erased. You can use the hard disk data erase utility included in this computer (☞ page 42) to erase all data on the hard disk, including backed up data. Use this hard disk data erase utility before disposing of or transferring ownership of this computer.
- Occasionally, the message [#1805 cannot write image file] will be displayed, and the backup function will be interrupted. If this error occurs, execute the backup function again. After this, if the backup function is completed properly, then there is no problem in the hard disk.
- To disable the hard disk backup function  
Perform the reinstallation procedure. All data in the backup area and the hard disk will be erased.  
Conduct steps **1-8** for [Reinstalling Software] (☞ page 34). Select [1] or [2] to execute the reinstallation at the screen for executing the reinstallation.
  - When [1] is selected, the hard disk backup function can be disabled.
  - When [2] is selected, the hard disk backup function can be disabled, but in this case, because the hard disk has been divided into partitions, the hard disk backup function cannot be re-enabled (☞ page 27).
  - When [3] is selected, the hard disk backup function cannot be disabled.



# Hard Disk Data Erase Utility

This computer is equipped with a utility for erasing hard disk data.

When disposing of or transferring ownership of this device, erase all data on the hard disk in order to prevent the theft of hard disk data following the steps below.

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

## Preparing

- Product Recovery CD-ROM (included)
- Panasonic USB CD/DVD drive (optional: USB CD/DVD drive (optional: CF-VDRRT1M or CF-VDRRT2W )

### 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.
- The backup area and the data in the backup area will be erased.

## Procedure

- 1 Turn off the computer and connect the CD/DVD drive to the USB port.
- 2 Turn the computer on, and press **(F2)** while [Panasonic] boot screen is displayed.  
The Setup Utility will start up.  
If the password has been set, enter the Supervisor Password.
- 3 Select [Boot] menu, then select [USB CD/DVD Drive] and press **(F6)** until [USB CD/DVD Drive] is at the top of the [Boot] menu.
- 4 Place disc number one of the recovery CDs into the CD/DVD drive.
- 5 Press **(F10)**. At the confirmation message, select [Yes] and press **(Enter)**. The computer will restart.  
<When the hard disk backup function has been enabled>  
When the message [The Backup function has been enabled. If [Recovery] or [Erase HDD] is executed, the Backup function will be disabled, and your Backup data will be lost.] appears, press **(Y)**.
- 6 Press **(2)** to execute [2. [Erase HDD]].  
(You can cancel this operation by pressing **(0)**.)  
<When the hard disk backup function has been enabled>  
When the message [The Backup function has been enabled. If [Erase HDD] is executed, the Backup function will be disabled, and your Backup data will be lost.] appears, press **(Y)**.  
When the message [Computer must be rebooted in order to execute [Erase HDD.]] appears, press **(R)**.
- 7 At the confirmation message, press **(Y)**.
- 8 When [Start Menu] is displayed, press **(Enter)**.
- 9 The approximate time required for erasing data will be displayed.  
Press **(Space)**.
- 10 At the confirmation message, press **(Enter)**.  
The operation of erasing the hard disk starts.  
(If necessary, the “hard disk data erase” operation can be cancelled after it has begun by pressing **(Ctrl) + (C)**.  
If the operation is cancelled before being completed, a part of the data will not be erased.)
- 11 After the operation is complete:  
Under normal conditions, the message [Hard disk data has been deleted.] will be displayed.  
If a problem occurred during the operation, an error message will be displayed.
- 12 Remove the Product Recovery CD-ROM and the CD/DVD drive.

# Specifications

## ● Main Specifications

<b>Model No.</b>		CF-18DDAZXMM	
<b>CPU</b>		Intel® Pentium M processor 1.1 GHz ULV	
<b>L2 (Second) Cache Memory</b>		1 MB*1	
<b>Memory</b>		256 MB*1 (768 MB*1 Max.)	
<b>Video Memory</b>		UMA (64 MB*1 Max.)*2	
<b>LCD</b>	<b>Type</b>	10.4 type (TFT)	
	<b>Displayed Colors*3</b>	65536/Approx. 16,000,000 colors (800 x 600 dots/1024 x 768 dots)	
<b>External Display</b>		65536/Approx. 16,000,000 colors (800 x 600 dots/1024 x 768 dots/1280 x 1024 dots)*4	
<b>Hard Disk Drive</b>		40 GB*5	
<b>Keyboard</b>		Windows keyboard (82 keys)	
<b>Pointing Device</b>		Touch Pad Digitizer (Anti-Reflection)	
<b>PC Card Slot</b>		Two Type I or Type II, or one Type III	
<b>Allowable current (total for two slots)</b>		3.3 V: 400 mA, 5 V: 400 mA	
<b>RAM Module Slot*6</b>		200-pin, 2.5 V, SO-DIMM, DDR-SDRAM, PC2100 Compliant	
<b>Interface</b>	<b>Microphone Jack*7</b>	Miniature jack, 3.5 DIA	
	<b>Headphone Jack</b>	Miniature jack, 3.5 DIA	
	<b>USB Port</b>	4-pin x 2, USB2.0	
	<b>Modem</b>	RJ-11 Data:56 kbps (V.92 & K56flex*8) FAX:14.4 kbps	
	<b>LAN</b>	RJ 45 IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX	
	<b>Wireless LAN</b>	IEEE 802.11b/g compliant Frequency 2.4 GHz band	
	<b>Expansion Bus Connector</b>	Dedicated 100-pin female	
	<b>External Antenna Connector</b>	Dedicated 50 Ω coaxial connector x 2	
<b>Speaker</b>		Monaural Speaker	
<b>Sound</b>		AC '97 2.1 Compatible, 18 bits full duplex stereo	
<b>Battery Pack</b>		Li-ion 7.4 V, 6.6 Ah	
	<b>Operating Time*9</b>		Approx. 4.5 hours - 8 hours*10 (Approx. 6 hours*11)
	<b>Charging Time*9</b>	<b>Power On</b>	Approx. 7 h
		<b>Power Off</b>	Approx. 3.5 h
	<b>Clock Battery</b>		Coin type lithium battery 3.0 V
<b>AC Adaptor*12</b>		Input : 100 V - 240 V AC, 50 Hz / 60 Hz    Output : 16.0 V DC, 2.5 A	
<b>Power Consumption*13</b>		Approx. 18 W*14 / Approx. 41 W (maximum when recharging in the ON state)	
<b>Environment</b>	<b>In use</b>	<b>Temperature</b>	5 °C to 35 °C {41 °F to 95 °F}
		<b>Humidity</b>	30% to 80% RH (No condensation)
	<b>Not in use</b>	<b>Temperature</b>	-20 °C to 60 °C {-4 °F to 140 °F}
		<b>Humidity</b>	30% to 90% RH (No condensation)
<b>Physical Dimensions*15 (W X H X D)</b>		271 mm X 49 mm X 216 mm {10.7 " X 1.93 " X 8.5 "}	
<b>Weight*15</b>		Approx. 2.1 kg {Approx. 4.5 lb.}	

\*1 1 MB = 1,048,576 bytes

\*2 A segment of the main memory is allotted automatically depending on the computer's operating status. The size of the Video Memory cannot be set by the user.

\*3 A 16,000,000 color display is achieved by using the dithering function.

\*4 Maximum resolution depends on the specifications of the external display.

\*5 1 GB = 1,000,000,000 bytes. Your operating system or some application software will report as fewer GB.

\*6 Only a RAM card designed for PC2100 can be added.

\*7 Use only a monaural condenser microphone.

\*8 The settings for the K56flex modem need to be changed according to the AT command.

\*9 Varies depending on the usage conditions, CPU speed, etc.

\*10 Measured using BatteryMark™ Version 4.0.1 (LCD brightness: Maximum - Minimum)

\*11 Measured using MobileMark™ 2002 (LCD brightness: 60 cd/m<sup>2</sup>)

\*12 <Only for North America>

The AC adaptor is compatible with power sources up to 240 V AC adaptor. The computer is supplied with a 125 V AC compatible AC cord.

\*13 Approx. 0.7 W when the battery pack is fully charged (or not being charged) and the computer is off.

Approx. 1.5 W when the Wake up from LAN function has been enabled.

\*14 Rated power consumption.

\*15 The dimensions and weight do not include the hand strap.

# Specifications

## ● Software

<b>Operating System</b>	Microsoft® Windows® XP Tablet PC Edition with Service Pack1a (NTFS File System)
<b>Utility Programs</b>	Setup Utility DMI Viewer Adobe® Acrobat® Reader Display Rotation Tool PC Information Viewer Hard Disk Backup Utility* <sup>16</sup> Hard Disk Data Erase Utility* <sup>16</sup> Intel® PROSet Icon Enlarger

\*<sup>16</sup> The Product Recovery CD-ROM is required.

# LIMITED WARRANTY

**For U.S.A.**

## PANASONIC PERSONAL COMPUTER AND PERIPHERALS LIMITED WARRANTY

Panasonic Computer Solutions Company (referred to as "Panasonic") will repair this product (other than software, which is covered by a separate warranty) with new or rebuilt parts, free of charge in the U.S.A. for 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.

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

## SOFTWARE LIMITED WARRANTY

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

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

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

Anything in the foregoing to the contrary notwithstanding, Panasonic shall have no obligation for any defects in the disk(s) or other media on which the Programs are furnished resulting from your storage thereof, or for defects that have been caused by operation of the disk(s) or other media otherwise than on the Product or in environmental conditions other than those specified by 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, NEGLIGENCE OR ANY OTHER LEGAL THEORY, INCLUDING, WITHOUT LIMITATION LOSS OF GOODWILL, PROFITS OR REVENUE, LOSS OF USE OF THE PROGRAMS OR PRODUCTS OR ANY ASSOCIATED EQUIPMENT, COST OF CAPITAL, COST OF ANY SUBSTITUTE EQUIPMENT, FACILITIES, SERVICES, DOWNTIME COSTS, OR CLAIMS OF ANY PARTY DEALING WITH YOU FOR SUCH DAMAGES.

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

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

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

\* \* \*

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

**DIAL TOLL FREE: 1-800-LAPTOP5**

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

# LIMITED WARRANTY

## For Canada

### PANASONIC COMPUTER AND PERIPHERALS LIMITED WARRANTY

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

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

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

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

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

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

### SOFTWARE MEDIA LIMITED WARRANTY

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

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

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

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

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

### GENERAL

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

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

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

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

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

# Memo





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

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

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

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