Panasonic®



OPERATING INSTRUCTIONS

Personal Computer Model No. CF-SX2 series

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For further information about the computer, you can refer to the on-screen

To access the on-screen manual → page 15 "On-screen Manual"

Introduction

Thank you for purchasing this Panasonic product. For optimum performance and safety, please read these instructions carefully.

■ Terms and illustrations in these instructions

CAUTION: Conditions that may result in minor or moderate injury.

NOTE: Useful and helpful information.

Enter: Press [Enter] key.

Fn + F5 : Press and hold [Fn] key, and then press [F5] key. (Start) - [All Programs]: Click (Start), and then click [All Programs].

Page in these Operating Instructions or in the Reference Manual.

Reference to the on-screen manuals.

- Some illustrations are simplified to help your understanding and may look different from the actual unit.
- If you do not log on as an administrator, you cannot use some functions or cannot display some screens.
- Refer for the latest information about optional products to the catalogs, etc.
- In these instructions, the names and terms are referred as follows.
 - "Genuine Windows® 7 Professional 32-bit Service Pack 1" and "Genuine Windows® 7 Professional 64-bit Service Pack 1" as "Windows" or "Windows 7"
 - · DVD MULTI drive as "CD/DVD drive"
 - · Circular media including DVD-ROM and CD-ROM as "discs"

Disclaimer

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Read Me First

Information to the User / Informations destinées aux utilisateurs

<Only for model with wireless LAN /Bluetooth>

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 are float the consumers.

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.

26-M-1

Uniquement les modèles avec réseau local sans fil et/ou Bluetooth>

Ce produit et votre santé

Ce produit, comme tout autre appareil radio, émet de l'énergie radioélectrique. Toutefois, la quantité d'énergie émise par ce produit est beaucoup moins importante que l'énergie radioélectrique émise par des appareils sans fil tels que les téléphones portables. L'utilisation de ce produit ne comporte aucun risque pour le consommateur du fait que cet appareil opère dans les limites des directives concernant les normes et les recommandations de sécurité sur les fréquences radio. Ces normes et recommandations reflètent le consensus de la communauté scientifique et résultent de délibérations de jurys et comités de scientifiques qui examinent et interprètent continuellement les nouveautés de la vaste littérature sur les recherches effectuées. Dans certaines situations ou environnements, l'utilisation de ce produit peut être restreinte par le propriétaire du bâtiment ou par les représentants responsables de l'organisation. Ces situations peuvent être les suivantes par exemple :

- A bord d'un avion, ou
- Dans tout autre environnement où les risques d'interférence sur d'autres appareils ou services sont perçus ou identifiables comme dangereux.

Si vous n'êtes pas sûr de la réglementation applicable à l'utilisation d'appareils sans fil dans une organisation ou un environnement spécifique, (par exemple dans un aéroport) nous vous invitons àdemander l'autorisation d'utiliser ce produit avant sa mise en marche.

Informations concernant la réglementation

Nous déclinons toute responsabilité pour toute interférence radio ou télévision causée par des modifications non autorisées apportées à ce produit. La correction d'interférences causées par de telles modifications non autorisées sera la seule responsabilité de son utilisateur. Nousmêmes, les revendeurs officiels et les distributeurs ne sommes pas responsable de tout dégât ou de toute violation des règlements de l'État pouvant découler du non-respect de ces directives.

26-F-1

Lithium Battery / Pile au lithium

Lithium Battery!

This computer contains a lithium battery to enable the date, time, and other data to be stored. The battery should only be exchanged by authorized service personnel. Warning! A risk of explosion from incorrect installation or misapplication may possibly occur.

15-E-1

Pile au lithium!

Le micro-ordinateur renferme une pile au lithium qui permet de sauvegarder certaines données, notamment la date et l'heure. La pile ne doit être remplacée que par un technicien qualifié. Danger! Risque d'explosion en cas de non respect de cette mise en garde!

15-F-1

CD/DVD Drive Caution/ Précautions pour le lecteur CD/DVD

CAUTION!

THIS PRODUCT UTILIZES A LASER.

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

12-E-1

AVERTISSEMENT!

CET APPAREIL UTILISE UN LASER.

L'UTILISATION DE COMMANDES OU DE RÉGLAGES OU L'EXÉ-CUTION DE PROCÉDURES AUTRES QUE CELLES SPÉCIFIÉES ICI PEUVENT PROVOQUER UNE EXPOSITION À DES RADIA-TIONS DANGEREUSES.

NE PAS OUVRIR LES COUVERCLES NI ESSAYER DE RÉPARER SOIMÊME.

CONFIER TOUT TRAVAIL D'ENTRETIEN À UN PERSONNEL QUALIFIÉ.

12-F-1

The following label is put on the bottom of the computer. L'étiquette suivant est placé à l'arrière de l'ordinateur.



Information for Users on Collection and Disposal of Old Equipment and used Batteries





These symbols are only valid in the European Union. If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.

53-M-1

Safety Precautions

<Only for model with wireless WAN>

The following safety precautions must be observed during all phases of the operation, usage, service or repair of any Personal Computer or Handheld Computer incorporating wireless WAN modem. Manufacturers of the cellular terminal are advised to convey the following safety information to users and operating personnel and to incorporate these guidelines into all manuals supplied with the product. Failure to comply with these precautions violates safety standards of design, manufacture and intended use of the product. Panasonic assumes no liability for customer failure to comply with these precautions.



When in a hospital or other health care facility, observe the restrictions on the use of mobiles. Switch Personal Computer or Handheld Computer incorporating wireless WAN modem off, if instructed to do so by the guidelines posted in sensitive areas. Medical equipment may be sensitive to RF energy. The operation of cardiac pacemakers, other implanted medical equipment and hearing aids can be affected by interference from Personal Computer or Handheld Computer incorporating wireless WAN modem placed close to the device. If in doubt about potential danger, contact the physician or the manufacturer of the device to verify that the equipment is properly shielded. Pacemaker patients are advised to keep their Personal Computer or Handheld Computer incorporating wireless WAN modem away from the pacemaker, while it is on.



Switch off Personal Computer or Handheld Computer incorporating wireless WAN modem before boarding an aircraft. Make sure it cannot be switched on inadvertently. The operation of wireless appliances in an aircraft is forbidden to prevent interference with communications systems. Failure to observe these instructions may lead to the suspension or denial of cellular services to the offender, legal action, or both.

For details on usage of this unit in aircrafts please consult and follow instruction provided by the airline.



Do not operate Personal Computer or Handheld Computer incorporating wireless WAN modem in the presence of flammable gases or fumes. Switch off the cellular terminal when you are near petrol stations, fuel depots, chemical plants or where blasting operations are in progress. Operation of any electrical equipment in potentially explosive atmospheres can constitute a safety hazard.



Your Personal Computer or Handheld Computer incorporating wireless WAN modem receives and transmits radio frequency energy while switched on. Remember that interference can occur if it is used close to TV sets, radios, computers or inadequately shielded equipment. Follow any special regulations and always switch off Personal Computer or Handheld Computer incorporating wireless WAN modem wherever forbidden, or when you suspect that it may cause interference or danger.



Road safety comes first! Do not use a Personal Computer or Handheld Computer incorporating wireless WAN modem while driving a vehicle. Do not place the computer with wireless WAN modem in an area where it could cause personal injury to the driver or passengers. It is recommended to stow the unit in the boot or secure stowage area while driving. Do not place the computer with wireless WAN modem in an area over an air bag or in the vicinity where an air bag may deploy.

Air bags inflate with great force and if the computer with wireless WAN modem is placed in the air bag deployment area may be propelled with great force and cause serious injury to occupants of the vehicle.



IMPORTANT!

Personal Computer or Handheld Computer incorporating wireless WAN modem operate using radio signals and cellular networks cannot be guaranteed to connect in all conditions. Therefore, you should never rely solely upon any wireless device for essential communications, for example emergency calls. Remember, in order to make or receive calls, Personal Computer or Handheld Computer incorporating wireless WAN modem must be switched on and in a coverage area with adequate cellular signal strength.

Some networks do not allow for emergency calls if certain network services or phone features are in use (e.g. lock functions, fixed dialing etc.). You may need to deactivate those features before you can make an emergency call.

Some networks require that a valid SIM card be properly inserted in Personal Computer or Handheld Computer incorporating wireless WAN modem.

Models for U.S.A.

Federal Communications Commission Radio Frequency Interference Statement

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the Panasonic Service Center or an experienced radio/TV technician for help.

Warning

To assure continued compliance, use only shielded interface cables when connecting to a computer or peripheral. Also, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

FCC RF Exposure Warning:

<Only for model with wireless LAN/wireless WAN/Blue-tooth>

- This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
- This equipment has been approved for mobile operation, and unless otherwise advised in separate supplemental instructions for individual wireless transmitter(s), requires minimum 20cm 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 not be co-located or operated with any other antenna or transmitter.

25-M-6

<Only for model with wireless LAN>

This product is restricted to indoor use due to its operation in the 5.15 to 5.25 GHz frequency range.

FCC requires this product to be used indoors for the frequency range 5.15 to 5.25 GHz to reduce the potential for harmful interference to co-channel Mobile Satellite systems. High power radars are allocated as primary users of the 5.25 to 5.35 GHz and 5.65 to 5.85 GHz bands. These radar stations can cause interference with and/or damage this product.

25-M-W-6

Responsible Party: Panasonic Corporation of North America One Panasonic Way Secaucus, NJ 07094

Tel No:1-800-LAPTOP5 (1-800-527-8675)

6-M-1

USA Only: Disposal may be regulated in your community due to environmental considerations. For disposal or recycling information, please visit Panasonic website: http://www.panasonic.com/environmental or call 1-888-769-0149

65-M-2

For U.S.A.-California Only

This product contains a CR Coin Cell Lithium Battery which contains Perchlorate Material – special handling may apply.

See www.dtsc.ca.gov/hazardouswaste/perchlorate/

38-M-1

Models for Canada

Canadian ICES-003

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

7-M-2

<Only for model with wireless LAN/Bluetooth/GPS>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.

<Ne s'applique qu'aux modèles avec technologie Bluetooth/LAN sans fil/GPS>

Industrie Canada

Cet équipement est conforme à la norme CNR-210 d'Industrie Canada. Son fonctionnement estsoumis aux deux conditions suivantes :

- (1) ce dispositif ne peut produire de brouillage, et
- (2) ce dispositif doit accepter le brouillage, y compris le brouillage pouvant entraîner le fonctionnement non désiré de l'appareil.

30-Ca-1-1

<Only for model with wireless LAN>

This product (local network devices) for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to co-channel Mobile Satellite systems. High power radars are allocated as primary users (meaning they have priority) of 5250-5350 MHz and 5650-5850 MHz and these radars could cause interference and/or damage to LELAN devices.

<Ne s'applique qu'aux modèles avec technologie LAN sans fil>

Cet appareil (pour réseaux locaux radioélectriques) dans les bandes de fréquences 5150-5250 MHz est réservé à une utilisation à l'intérieur afin de réduire le risque d'interférence avec les systèmes satellites mobiles bicanaux. Les radars forte puissance sont désignés comme étant les premiers utilisateurs (c'est-à-dire qu'ils ont la priorité) des bandes de fréquences 5250-5350 MHz et 5650-5850 MHz. Ces stations radarspeuvent provoquer des interférences et/ou des dommages à ce périphérique.

30-Ca-2-1

<Only for model with wireless LAN/wireless WAN/Blue-tooth>

- * This equipment complies with Industry Canada radiation exposure limits set forth for an uncontrolled environment.
- * This equipment has been approved for mobile operation, and unless otherwise advised in separate supplemental instructions for individual wireless transmitter(s), requires minimum 20 cm spacing be provided between antenna(s) and all person's body (excluding extremities of hands, wrist and feet) during wireless modes of operation.

Read Me First

<Ne s'applique qu'aux modèles avec technologie Bluetooth/LAN sans fil/WAN sans fil>

- * Cet équipement est conforme aux limites d'exposition aux rayonnements d'Industrie Canada établies pour un environnement non contrôlé.
- * Cet équipement a été approuvé à des fins d'opération mobile et, sauf indication contraire, dans une notice supplémentaire concernant les émetteurs sans fil individuels, doit être utilisé en veillant qu'il y ait une distance d'au moins 20 cm entre son(ses) antenne(s) et le corps de l'utilisateur (sauf les extrémités : mains, poignets et pieds) dans les modes d'opération sans fil. 25-Ca-1

FOR USE WITH MODEL NO.: CF-AA6503A POUR UTILISER AVEC MODÈLE: CF-AA6503A

20-Ca-1

India Only



For the purpose of recycling to facilitate effective utilization of resources, please return this product to a nearby authorized collection center, registered dismantler or recycler, or Panasonic service center when disposing of this product.

Please see the Panasonic website for further information on collection centers, etc. http://www.panasonic.co.in/wps/portal/home

68-M-1

Precautions

THIS PRODUCT IS NOT INTENDED FOR USE AS, OR AS PART OF, NUCLEAR EQUIPMENT/SYSTEMS, AIR TRAFFIC CONTROL EQUIPMENT/SYSTEMS, AIRCRAFT COCKPIT EQUIPMENT/SYSTEMS *1, MEDICAL DEVICES OR ACCESSORIES*2, LIFE SUPPORT SYSTEMS OR OTHER EQUIPMENTS/DEVICES/SYSTEMS THAT ARE INVOLVED WITH ENSURING HUMAN LIFE OR SAFETY. PANASONIC WILL NOT BE RESPONSIBLE FOR ANY LIABILITY RESULTING FROM THE USE OF THIS PRODUCT ARISING OUT OF THE FOREGOING USES.

- AIRCRAFT COCKPIT EQUIPMENT/SYSTEMS include Class2 Electrical Flight Bag (EFB) Systems and Class1 EFB Systems when used during critical phases of flight (e.g., during take-off and landing) and/or mounted on to the aircraft. Class1 EFB Systems and 2 EFB Systems are defined by FAA: AC (Advisory Circular) 120-76A or JAA: JAA TGL (Temporary Guidance Leaflets) No.36.
- *2 As defined by the European Medical Device Directive (MDD) 93/42/EEC.

Panasonic cannot guarantee any specifications, technologies, reliability, safety (e.g. Flammability/Smoke/Toxicity/Radio Frequency Emission, etc) requirements related to aviation standards and medical equipment standards that differ from the specifications of our COTS (Commercial-Off-The-Shelf) products.

This computer is not intended for use in medical equipment including life-support systems, air traffic control systems, or other equipment, devices or systems that are involved with ensuring human life or safety. Panasonic cannot be held responsible in any way for any damages or loss resulting from the use of this unit in these types of equipment, devices or systems, etc.

If a Malfunction or Trouble Occurs, Immediately Stop Use

If a Malfunction Occurs, Immediately Unplug the AC Plug and the Battery Pack

- This product is damaged
- · Foreign object inside this product
- Smoke emitted
- · Unusual smell emitted
- Unusually hot

Continuing to use this product while any of the above conditions are present may result in fire or electric shock.

 If a malfunction or trouble occurs, immediately turn the power off and unplug the AC plug, and then remove the battery pack.
 Then contact your technical support office for repair.

Do Not Touch This Product In a Thunderstorm If Connected with the AC Cable or Any Other Cables

Electric shock may result.

Do Not Connect the AC Adaptor to a Power Source Other Than a Standard Household AC Outlet

Otherwise, a fire due to overheating may result. Connecting to a DC/AC converter (inverter) may damage the AC adaptor. On an airplane, only connect the AC adaptor/charger to an AC outlet specifically approved for such use.

Do Not Do Anything That May Damage the AC Cord, the AC Plug, or the AC Adaptor

Do not damage or modify the cord, place it near hot tools, bend, twist, or pull it forcefully, place heavy objects on it, or bundle it tightly.

Continuing to use a damaged cord may result in fire, short circuit, or electric shock.

Do Not Pull or Insert the AC Plug If Your Hands Are Wet Electric shock may result.

Clean Dust and Other Debris of the AC Plug Regularly

If dust or other debris accumulates on the plug, humidity, etc. may cause a defect in the insulation, which may result in a fire.

Pull the plug, and wipe it with a dry cloth.
 Pull the plug if the computer is not being used for a long period of time.

Insert the AC Plug Completely

If the plug is not inserted completely, fire due to overheating or electric shock may result.

Do not use a damaged plug or loose AC outlet.

Do Not Place Containers of Liquid or Metal Objects on Top of This Product

If water or other liquid spills, or if paper clips, coins, or foreign matter get inside this product, fire or electric shock may result.

 If foreign matter has found its way inside, immediately turn the power off and unplug the AC plug and remove the battery pack. Then contact your technical support office.

Do Not Disassemble This Product

The high-voltage areas inside may give you an electric shock, or foreign matter may enter and result in a fire.

Keep SD Memory Cards Away from Infants and Small Children

Accidental swallowing will result in bodily injury.

In the event of accidental swallowing, see a doctor immediately.

Do Not Place This Product on Unstable Surfaces

If balance is lost, this product may fall over or drop, resulting in an injury.

Avoid Stacking

If balance is lost, this product may fall over or drop, resulting in an injury.

Do Not Keep This Product Wherever There is a Lot of Water, Moisture, Steam, Dust, Oily Vapors, etc.

Otherwise, possibly resulting in fire or electric shock.

Do Not Leave This Product in High Temperature Environment for a Long Period of Time

Leaving this product where it will be exposed to extremely high temperatures such as near fire or in direct sunlight may deform the cabinet and/or cause trouble in the internal parts. Continued use in such a resulting condition may lead to short-circuiting or insulation defects, etc. which may in turn lead to a fire or electric shocks.

Do Not Block the Ventilation Hole (Exhaust)

Using this product wrapped in cloth or on top of bedding or a blanket can block the ventilation hole and cause heat to build up inside, possibly resulting in a fire.

Hold the Plug When Unplugging the AC Plug

Pulling on the cord may damage the cord, resulting in a fire or electric shock.

Do Not Move This Product While the AC Plug Is Connected

The AC cord may be damaged, resulting in fire or electric shock.

If the AC cord is damaged, unplug the AC plug immediately.

Use Only the Specified AC Adaptor With This Product

Using an AC adaptor other than the one supplied (supplied with the unit or one sold separately as an accessory) may result in a fire.

Read Me First

Do Not Subject the AC Adaptor to Any Strong Impact

Using the AC adaptor after a strong impact such as being dropped may result in electric shock, short circuit, or fire.

Take a Break of 10-15 Minutes Every Hour

Using this product for long periods of time may have detrimental health effects on the eyes or hands.

Do Not Look into the CD/DVD Drive

Looking directly at the internal laser light source may result in damage to eyesight.

Do Not Use Discs That Are Cracked or Deformed

Because the discs rotate at high speeds, damaged discs may break apart causing injury.

 Discs that are not round and discs that have been repaired using adhesives are similarly dangerous, and so should not be used.

Do Not Turn the Volume Up to Loud When Using Headphones

Listening at high volumes that overstimulate the ear for long periods of time may result in loss of hearing.

Do Not Connect a Telephone Line, or a Network Cable Other Than the One Specified, into the LAN Port

If the LAN port is connected to a network such as the ones listed below, a fire or electric shock may result.

- Networks other than 1000BASE-T, 100BASE-TX or 10BASE-T
- Phone lines (IP phone (Internet Protocol Telephone), Telephone lines, internal phone lines (on-premise switches), digital public phones, etc.)

Do Not Use With Exposing the Skin to This Product For a Long Period of Time

Using this product with exposing the skin to the heat source of this product or AC adaptor for a long period of time can cause a low-temperature burn.

Do not expose yourself to the hot wind from the ventilation hole (exhaust) for a long period of time.

Low-temperature burns may result.

Covering the ventilation hole (exhaust) with your hand or other object can cause heat to build up inside, possibly resulting in burns.

- Do not place the computer near a television or radio receiver.
- Keep the computer away from magnets. Data stored on the hard disk may be lost.
- This computer is not intended for the display of images for use in medical diagnosis.
- This computer is not intended for a use with connection of medical equipment for the purpose of medical diagnosis.
- Panasonic shall not be liable for loss of data or other incidental or consequential damages resulting from the use of this product.

Precautions (Battery Pack)

Do Not Use With Any Other Product

The battery pack is rechargeable and was intended for the specified product. If it is used with a product other than the one for which it was designed, electrolyte leakage, generation of heat, ignition or rupture may result.

Do Not Charge the Battery Using Methods Other Than Those Specified

If the battery is not charged using one of the specified methods, electrolyte leakage, generation of heat, ignition or rupture may result.

Do Not Throw the Battery Pack into a Fire or Expose It to Excessive Heat

Generation of heat, ignition or rupture may result.

Avoid Extreme Heat (Near the Fire, in Direct Sunlight, for Example)

Electrolyte leakage, generation of heat, ignition or rupture may result.

Do Not Insert Sharp Objects into the Battery Pack, Expose It to Bumps or Shocks, Disassemble, or Modify It

Electrolyte leakage, generation of heat, ignition or rupture may result.

 If this product is subjected to a strong impact, stop using it immediately.

Do Not Short the Positive (+) and Negative (-) Contacts

Generation of heat, ignition or rupture may result.

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

Do Not Use This Product With a Battery Pack Other Than the One Specified

Use only the specified battery pack (→ page 12) with your product. Use of battery packs other than those manufactured and supplied by Panasonic may present a safety hazard (generation of heat, ignition or rupture).

When The Battery Pack Has Deteriorated, Replace It With a New One

Continued use of a damaged battery pack may result in heat generation, ignition or battery rupture.

CAUTION:

Risk of Explosion if Battery is replaced by an Incorrect Type. Dispose of Used Batteries According to the Instructions.

58-E-1

ATTENTION:

Il y a risque d'explosion si la batterie est remplacée par une batterie de type incorrect.

Mettre au rebut les batteries usagées conformément aux instructions.

58-F-1

- 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 55 °C {32 °F to 131 °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 below.)
- 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 tempera
 - ture environments. (Reference Manual "Battery Power") A level corresponding to a 100% charge for high temperature mode 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 by using a particular
 battery pack becomes dramatically shorter and
 repeated recharging does not restore its performance,
 the battery pack should be replaced with a new one.
- When transporting a spare battery inside a package, briefcase, etc., it is recommended that it be placed in a plastic bag so that its contacts are protected.
- Always power off the computer when it is not in use.
 Leaving the computer on when the AC adaptor is not connected will exhaust the remaining battery capacity
 - (→ Paragraphy Reference Manual "LAN").



A lithium ion battery that is recyclable powers the product you have purchased.

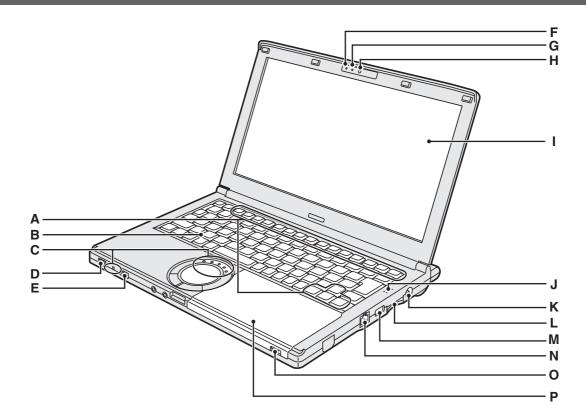
Please call 1-800-8-BATTERY for information on how to recycle this battery.

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.

48-M-1

Description of Parts



A: Function key

→ Paragraph → Reference Manual "Key Combinations"

B: Keyboard

C: LED indicator

: Battery status

→ Paragraph Reference Manual "Battery Power"

A : Caps lock

1 : Numeric key (NumLk)

1 : Scroll lock (ScrLk)

: Drive status

SD: SD Memory Card status (Blinking: During access)

→ Paragraph Reference Manual "SD Memory Card"

D: Power switch

Power status indicator

· Off: Power off/Hibernation

· Green: Power on

Blinking green: Sleep

E: Wireless switch

→ W Reference Manual "Disabling/Enabling Wireless Communication"

→ Æ Reference Manual "Wireless LAN"

→ W Reference Manual "Bluetooth"

F: Camera status indicator

Lights when the built-in camera is operating.

G : Microphone Inputs audio.

H: Camera

→ Æ Reference Manual "Camera"

I: LCD

J: Speaker

→ The Reference Manual "Key Combinations"

K: DC-IN jack

L: SD Memory Card slot

→ Paragraph Reference Manual "SD Memory Card"

M: USB 2.0 port

→ W Reference Manual "USB Devices"

N: LAN port

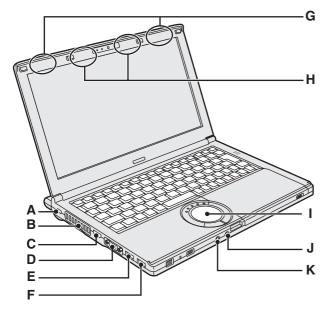
→ W Reference Manual "LAN"

O: Drive open switch

To open the disc cover, slide this switch to the right after Windows has started up.

P: CD/DVD drive

→ ₩ Reference Manual "CD/DVD Drive"



A: Security lock

A Kensington cable can be connected.

For further information, read the manual that comes with the cable.

The security lock and cable is a theft prevention device. Panasonic Corporation will bear no responsibility in the event of theft.

B: Ventilation hole (Exhaust)

C: HDMI port

→ Paragram Reference Manual "External Display"

D: VGA Port

→ Paragraphical Reference Manual "External Display"

E: USB 3.0 port (with continuous charging function)

→ Paragraph Reference Manual "USB Devices"

F: USB 3.0 port

→ Paragraph Reference Manual "USB Devices"

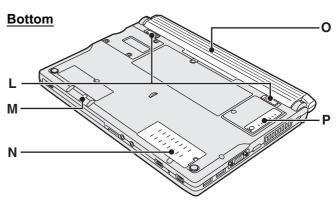
G : Wireless WAN antenna

<Only for model with Wireless WAN>

→ Reference Manual "Wireless WAN"

H: Wireless LAN antenna / Bluetooth antenna

- → Reference Manual "Wireless LAN"
- → Reference Manual "Bluetooth"



I: Touch pad

J: Microphone jack

A condenser microphone can be used. If other types of microphones are used, audio input may not be possible, or malfunctions may occur as a result.

K: Headphone jack

You can connect headphones or amplified speakers. When they are connected, audio from the internal speakers is not heard.

L: Battery latch

Automatically locked when the battery pack is correctly secured. To unlock, slide the latches to the unlocked position .

M : Emergency hole

→ Property Reference Manual "CD/DVD Drive"

N: RAM module slot

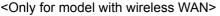
→ Reference Manual "RAM Module"

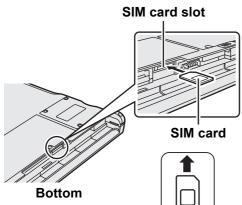
O: Battery pack

→ page 12

P: Dust cover

→ "Handling and Maintenance" (→ page 18)





SIM card slot is located in the battery compartment on the bottom of the computer. Remove the battery pack to insert the SIM card.

Insert the SIM card into the SIM card slot with the contact side facing upward and with the cut corner oriented as shown in the illustration.

Do not insert the SIM card upside down.

First-time Operation

■ Preparation

① Check and identify the supplied accessories.

If you do not find the described accessories, contact Panasonic Technical Support (→ pages 32-36).

• AC Cord 1

• Battery Pack 1



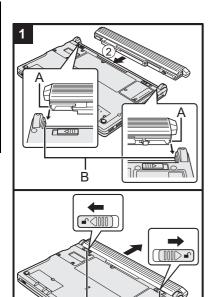




Model No: CF-VZSU76W

Model No: CF-AA6503A

② Read the LIMITED USE LICENSE AGREEMENT before breaking the seal on the computer's packaging (→ page 26).



1 Insert the battery pack.

- ① Turn the computer over.
- 2 Slide the battery pack in parallel with the arrow direction.
- ③ Attach the battery pack so that the left and right projections (A) on the battery pack match the dents (B) of the computer.

To remove the battery pack

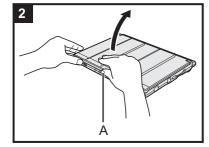
While sliding the left and right latches (C) to the unlocked position \blacksquare , push out the battery pack in parallel with the computer.

CAUTION

- Make sure the battery pack is securely locked. If not, the battery pack may fall when you carry the computer.
- Do not touch the terminals of the battery pack and the computer. Doing so can
 make the terminals dirty or damaged, and may cause malfunction of the battery
 pack and the computer.

NOTE

- Note that the computer consumes electricity even when the computer power is off. If the battery pack is fully charged, the battery will fully discharge in the following period of time:
 - In sleep: Approx. 7 days^{*1} (Approx: 5 days^{*1} with Wake Up from wired LAN function activated)
 - If the battery is exhausted while the computer is in sleep mode, all unsaved data will be lost.
 - In hibernation: Approx. 40 days*1 (Approx. 10 days*1 with Wake Up from wired LAN function activated)
 - When power is off: Approx. 40 days^{*1} (Approx. 10 days^{*1} with Wake Up from wired LAN function activated)
- While the USB port continuous charging function is not used
- When the DC plug is not connected to the computer, disconnect the AC cord from your AC wall outlet. Power is consumed simply by having the AC adaptor plugged into an electrical outlet.

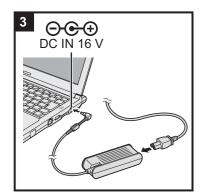


2 Open the display.

Hold the side of the computer with either of your hands and then hold and lift the (A) part to open the display.

CAUTION

 Do not open the display wider than necessary (180° or more), and do not apply excessive pressure to the LCD. Do not open or close the display holding the edge of the LCD segment.



3 Connect your computer to a power outlet.

The battery charging starts automatically.

CAUTION

- Do not disconnect the AC adaptor and do not switch the wireless switch to on until the first-time operation procedure is completed.
- When using the computer for the first time, do not connect any peripheral device except the battery pack and AC adaptor.
- Handling the AC adaptor

Problems such as sudden voltage drops may arise during periods of thunder and lightning. Since this could adversely affect your computer, an uninterruptible power source (UPS) is highly recommended unless running from the battery pack alone.

4 Turn on the computer.

① Open the display, and slide and hold the power switch (→ page 10) until the power status indicator (→ page 10) lights.

CAUTION

- Do not press the power switch repeatedly.
- The computer will be forcibly turned off if you press and hold the power switch for four seconds or longer.
- Once you turn off the computer, wait for ten seconds or more before you turn on the computer again.
- Do not perform the following operation until the drive indicator 😝 turns off.
 - · Connecting or disconnecting the AC adaptor
 - Sliding the power switch or CD/DVD drive open switch
 - Touching the keyboard, touch pad, or external mouse
 - Closing the display
 - · Turn on/off the wireless switch

5 Setup Windows.

- 1) Follow the on-screen instructions.
- After the computer is turned on, the screen remains black or unchanged for a while, but this is not a malfunction. Wait for a moment until the Windows setup screen appears.
- During setup of Windows, use the touch pad and clicking to move the cursor and to click an item.
- Setup of Windows will take approximately 20 minutes.
 Go to the next step, confirming each message on the display.
- "Join a wireless network" screen may not appear.
 You can set the Wireless Network after the setup of Windows is complete.

CAUTION

- Wait until the drive indicator has turned off.
- You can change the user name, password, image and security setting after setup of Windows.
- Remember your password. If you forget the password, you cannot use the Windows. Creating a password reset disk beforehand is recommended.
- Do not use the following words and characters for user name: CON, PRN, AUX, CLOCK\$, NUL, COM1 to COM9, LPT1 to LPT9, @, &, space. In particular, if you create a user name (account name) that includes the "@" mark, a password will be requested at the log-on screen, even if no password has been set. If you try to log on without entering a password, "The user name or password is incorrect." may be displayed and you will not be able to log on to Windows (→ page 23).

First-time Operation

Use standard characters as a computer name: numbers 0 through 9, uppercase
and lowercase letters from A to Z, and the hyphen (-) character. If the error message "The computer name is not valid" appears, check if characters other than the
above are not entered. If the error message still remains on the display, set the key
entry mode to English ("EN") and enter characters.

NOTE

PC Information Viewer

This computer periodically records the management information of the hard disk, etc. The maximum data volume for each record is 1024 bytes.

This information is only used for estimating the cause when the hard disk goes down by any possibility. They are never sent to outside via network nor used for any other purpose except for the purpose described the above.

To disable the function, add the check mark for [Disable the automatic save function for management information history] in [Hard Disk Status] of PC Information Viewer, and click [OK].

(→ Page Reference Manual "Check the Computer's Usage Status")

■ When Starting Up/Shutting Down

Do not do the following

- · Connecting or disconnecting the AC adaptor
- · Sliding the power switch
- · Touching the keyboard, or external mouse
- Closing the display
- · Turn on/off the wireless switch

NOTE

- To conserve power, the following power saving methods are set at the time of purchase.
 - The screen automatically turns off after 10 minutes of inactivity.
 - The computer automatically enters sleep*2 after 20 minutes of inactivity.
- *2 Refer to The Reference Manual "Sleep and Hibernation Functions" about resuming from sleep.

■ To change the partition structure

You can shrink a part of an existing partition to create unallocated disk space, from which you can create a new partition. This computer has a single partition as default setting.

- ① Click (Start) and right-click [Computer], then click [Manage].
 - A standard user needs to enter an administrator password.
- ② Click [Disk Management].
- ③ Right-click the partition for Windows ("c" drive in the default setting), and click [Shrink Volume].
 - The partition size depends on the computer specifications.
- 4 Input the size in [Enter the amount of space to shrink in MB] and click [Shrink].
 - You cannot input a larger number than the displayed size.
 - To select [Reinstall to the first 3 partitions.] in reinstalling Windows 7 (→ page 20), 30000 MB or more is necessary for [Total size after shrink in MB].
- S Right-click [Unallocated] (the shrunk space in the step (4) and click [New Simple Volume].
- ⑥ Follow the on-screen instructions to make the settings, and click [Finish]. Wait until formatting is completed.

NOTE

- You can create an additional partition using remaining unallocated space or newly creating unallocated space.
- To delete a partition, right-click the partition and click [Delete Volume] in the step ③.

■ To turn on the CD/DVD drive

The CD/DVD drive power is set to off at the time of purchase, and the CD/DVD drive is not shown when you click

(Start) - [Computer].

Proceed as follows to turn on the CD/DVD drive.

- ① Click on the notification area and click
- ② Click [The optical disc driver's power], and click [On].

On-screen Manual

You can access the following manuals on the computer screen.

■ Reference Manual



The Reference Manual contains the practical information to help you fully enjoy the computer's performance.

To access the Reference Manual:

Double-click on the desktop.

• Alternatively click (Start) - [All Programs] - [Panasonic] - [On-Line Manuals] - [Reference Manual].

Important Tips

The Important Tips will provide you with the battery information so that you can use the battery pack in the optimum condition to obtain longer operation time.

To access the Important Tips:

Double-click on the desktop.

• Alternatively click (Start) - [All Programs] - [Panasonic] - [On-Line Manuals] - [Important Tips].

■ Hard Disk Handling The Hard Disk Handling will provide you with the helpful information on how to use the hard disk.

To access the Hard Disk Handling:

Click (5) (Start) - [All Programs] - [Panasonic] - [On-Line Manuals] - [Hard Disk Handling].

Handling and Maintenance

Operation Environment

 Place the computer on a flat stable surface not subject to shock, vibration, and danger of dropping. Do not place the computer upright or turn it over. If the computer is exposed to an extremely strong impact, it may become damaged.

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

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

Humidity: Operation : 30% to 80% RH (No condensation) Storage : 30% to 90% RH (No condensation)

Even within the above temperature/humidity ranges, operation for a long time in extreme environments, smoking nearby, or operation in places where oil is used or where there is a lot of dust will result in the product deterioration and will shorten the product life.

- Be sure to use the computer in an environment with sufficient heat ventilation.
 - Avoid using the computer on a highly heat retentive surfaces (e.g., rubber pads and blankets). If possible, use the computer on surfaces that can dissipate heat, such as a steel desk.
 - Do not cover the computer with towels, keyboard covers, etc., as this prevents heat dissipation.
- When using the computer, always keep the display open. (Note, however, that closing the display while the computer is in use does not cause generation of heat, ignition, or other malfunctions.)
- Do not place the computer in the following areas, otherwise the computer may be damaged.
 - · Near electronic equipment. Image distortion or noise may occur.
 - In extremely high or low temperature.
- As the computer can become hot during operation, keep it away from items that are sensitive to heat.

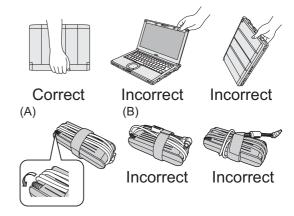
Handling Cautions

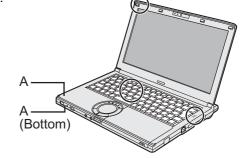
This computer is designed to minimize shock to parts such as the LCD and the hard disk drive and equipped with a drip-proof keyboard, but no warranty is provided against any trouble caused by shock. Be extremely careful when handling the computer.

- When carrying the computer:
 - Turn off the computer.
 - Remove all external devices, cables, and other protruding objects.
 - · Remove a disc in the CD/DVD drive.
 - Do not drop or hit the computer against solid objects.
 - · Do not leave the display open.
 - · Do not pick up or hold the computer by the display part.
 - Do not put anything (e.g., a piece of paper) between the display and keyboard.
- When you carry the AC adaptor with the cord rolled up, roll it up as shown in (A).

Do not roll up the cord in the opposite direction or crossed direction as shown in (B).

- · Be sure not to roll up the cord around the AC adaptor in use.
- Pull out the AC cord. Also, do not roll up the AC cord.
- When flying on an airplane:
 - · Carry the computer with you, and never put it in checked baggage.
 - Obey the airline's instructions when using the computer on the airplane.
- When carrying a spare battery, put it in a plastic bag to protect its terminals.
- This computer contains a magnet and magnetic products at the locations circled in the illustration at the right. Avoid leaving metallic object or magnetic media in contact with these areas.
- Do not place an object containing magnetic power to the (A) portions. Doing so may cause the computer to detect mistakenly that the display is closed, and as a result, the display may go out and the computer may enter sleep.
- The touch pad is designed to be used by finger tip. Do not place any object on its surface and do not press down strongly with sharp-pointed or hard objects that may leave marks (e.g., nails, pencils and ball point pens).
- Avoid any harmful substances such as oil from getting into the touch pad.
 The cursor may not work correctly.
- If the computer is being carried in a soft bag with the battery pack removed, avoid undue pressure on the body of the computer in a crowded place, etc., as this may result in damage to the LCD.





■ When the battery indicator does not light on

The AC adaptor's protection function may be working when the battery indicator does not light on even if the AC adaptor and the battery pack are correctly connected with the computer.

- Pull out the AC cord and wait for more than 1 minute to reconnect the AC cord.
- If the problem persists, contact your technical support office.

■ If the computer becomes warm during usage

- When the screen is displayed on the External Display using Intel[®] Wireless Display Software, click on the notification area, click and click [Panasonic Power management (Better Heat Dispersion)].
 - When changing to [Panasonic Power management (Better Heat Dispersion)], the following settings will change.
 - Change to [High Speed] from [Standard] in [Fan control mode].
 Rotation of the cooling fan will become faster and the computer can be cooled down. Note that the battery operating time will be shorter.
 - Switch the screen saver to [Prohibited].
 - Other setting changes such as the lowering of the internal LCD brightness.
 - When you do not frequently use CPU or the rotation noise of the fan bothers you, set [Standard] or [Low Speed] in [Fan control mode].
- If you are not using a wireless LAN, turn the wireless LAN off.
- Use recommended RAM module products. Non-recommended RAM modules may not operate properly, and may cause damage to your computer.
- Clean the inside of the dust cover once a month. (→ page 18)

■ When using peripheral devices

Follow these instructions and the Reference Manual to avoid any damage to the devices. Carefully read the instruction manuals of the peripheral devices.

- Use the peripheral devices conforming to the computer's specifications.
- Connect to the connectors in the correct direction.
- If it is hard to insert, do not try forcibly but check the connector's shape, direction, alignment of pins, etc.
- If screws are included, fasten them securely.
- Remove the cables when you carry the computer. Do not pull the cables forcibly.

■ Preventing your computer from unauthorized use via wireless LAN/Bluetooth/Wireless WAN

Before using wireless LAN/Bluetooth/Wireless WAN, make the appropriate security settings such as data encryption.

Battery Recalibration

- The battery recalibration may take a long time due to the large battery capacity. This is not a malfunction.
 <When performing "Battery Recalibration" after shutting down Windows>
 - Full charge: Approximately 5 hours (max.)
 - Complete discharge: Approximately 7 hours (max.)

When performing "Battery Recalibration" without shutting down Windows, it may take more time to charge / discharge.

Maintenance

If drops of water or other stains get on the surface of the LCD panel, wipe them off immediately. Failure to do so may result in staining.

To clean the LCD panel and touch pad

Wipe lightly with a gauze or other dry, soft cloth.

To clean areas other than the LCD panel and touch pad

Wet a soft cloth with water or a diluted kitchen cleanser (neutral), wring the cloth out thoroughly, and wipe the dirty area gently. Using a detergent other than a neutral kitchen cleanser (e.g., a weak alkali cleanser) may adversely affect painted surfaces.

CAUTION

Do not use benzene, thinner, or rubbing alcohol since it may adversely affect the surface causing discoloration, etc.
 Do not use commercially-available household cleaners and cosmetics, as they may contain components harmful to the surface.

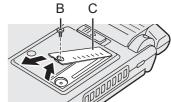
Handling and Maintenance

 Do not apply water or detergent directly to the computer, since liquid may enter inside of the computer and cause malfunction or damage.

To clean the inside of the dust cover

Clean the inside of the dust cover once a month.

- ① Turn off the computer, and disconnect the AC adaptor.
- ② Close the display, and turn the computer over.
- 3 Remove the battery pack.
- (a) Remove the screw (B), and remove the dust cover (C) in the direction of the arrow.
- ⑤ Clean the inside of the dust cover.



CAUTION

- If dust is piled up inside the dust cover and hard to remove, use an electric cleaner. Be careful not to inhale dust.
- Make sure no water or other liquid spills inside the dust cover, and pay attention not to drop the screw inside the dust cover.

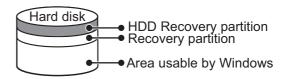
Reinstalling Software

Reinstalling software will return the computer to the default condition. When you reinstall the software, the hard disk data will be erased.

Back up important data to other media or an external hard disk before reinstallation.

CAUTION

Do not delete the recovery partition on the hard disk.
 The disk space in the partition is not available to store data.



■ Hard Disk Recovery

Preparation

- Remove all peripherals.
- Connect the AC adaptor and do not remove it until reinstallation is complete.
- 1 Turn on the computer, and press **F2** or **Del** while [Panasonic] boot screen is displayed. The Setup Utility starts up.
 - If the [Panasonic] boot screen is not displayed, turn on the computer while holding down **F2** or **De1**.
 - If the password is requested, enter the Supervisor Password.
- 2 Write down all of the contents of the Setup Utility and press **F9**.

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

3 Press **F10**.

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

4 Press **F2** or **Del** while [Panasonic] boot screen is displayed.

The Setup Utility starts up.

- If the [Panasonic] boot screen is not displayed, turn on the computer while holding down **F2** or **De1**.
- If the password is requested, enter the Supervisor Password.
- 5 Select the [Exit] menu, then select [Recovery Partition] and press Enter.
- 6 Click [Reinstall Windows] and click [Next].

The License Agreement screen appears.

- 7 Click [Yes, I agree to the provisions above and wish to continue!] and click [Next].
- 8 Select the settings and click [Next].
 - [Reinstall Windows to the whole Hard Disk to factory default.]

 Select this option when you want to reinstall Windows to the factory default. After reinstallation, you can create a new partition. For how to create a new partition, refer to "To change the partition structure" (→ page 14)
 - [Reinstall to the System and OS partitions.]*1
 Select this option when the hard disk has already been divided into several partitions. For how to create a new partition, refer to "To change the partition structure" (→ page 14).
 You can keep the partition structure.
 - ^{*1} This does not appear if Windows cannot be reinstalled to the partition containing boot files and the area usable by Windows.
- 9 At the confirmation massage, click [YES].
- 10 Select OS (32bit or 64bit) and click [OK].
- 11 At the confirmation message, click [OK].

Reinstallation starts according to the instructions on the screen.

- Do not interrupt reinstallation, for example by turning off the computer. Otherwise reinstallation may become unavailable as Windows may not start up or the data may be corrupted.
- 12 When "Ending process." is displayed, click [OK] to turn off the computer.
- 13 Turn on the computer.
 - If the password is requested, enter the Supervisor Password.
- 14 Perform the "First-time Operation" (→ page 13).
- 15 Start the Setup Utility and change the settings as necessary.
- 16 Perform Windows Update.

Reinstalling Software

■ Using Recovery Disc

Use the Recovery Disc for reinstallation in the following conditions.

- · You have forgotten the administrator password.
- Reinstallation is not complete. The recovery partition may be broken.

NOTE

• To change OS from 32-bit to 64-bit, or vice versa, reinstall OS using the recovery partition in the hard disk.

Preparation

- Prepare the Recovery Disc (→ \(\mathbb{P}\) Reference Manual "Recovery Disc Creation Utility")
- Remove all peripherals.
- Connect the AC adaptor and do not remove it until reinstallation is complete.
- 1 Turn on the computer, and press **F2** or **DeI** while [Panasonic] boot screen is displayed. The Setup Utility starts up.
 - If the [Panasonic] boot screen is not displayed, turn on the computer while holding down **F2** or **De1**.
 - If the password is requested, enter the Supervisor Password.
- 2 Write down all of the contents of the Setup Utility and press F9.

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

- 3 Select the [Main] menu, then select [Optical Drive Power] and press **Enter**.
- 4 Select [On] and press **Enter**.
- 5 Press **F10**.

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

The computer will restart.

Press **F2** or **Del** while [Panasonic] boot screen is displayed.

The Setup Utility starts up.

- If the [Panasonic] boot screen is not displayed, turn on the computer while holding down **F2** or **De1**.
- If the password is requested, enter the Supervisor Password.
- 7 Set the Recovery Disc into the CD/DVD drive.
- 8 Select the [Exit] menu, then select [SlimtypeXXXX] or [MATSHITA XXXXX] in [Boot Override].
- 9 Press Enter.

The computer will restart.

10 Click [Reinstall Windows] and click [Next].

The License Agreement screen appears.

- 11 Click [Yes, I agree to the provisions above and wish to continue!] and click [Next].
- 12 Select the settings and click [Next].
 - [Reinstall Windows to the whole Hard Disk to factory default.

 Select this option when you want to reinstall Windows to the factory default. After reinstallation, you can create a new partition. For how to create a new partition, refer to "To change the partition structure" (→ page 14)
 - [Reinstall to the first 3 partitions.]^{*2}

Select this option when the hard disk has already been divided into several partitions. For how to create a new partition, refer to "To change the partition structure" (>> page 14).

You can keep the partition structure.

*2 This does not appear if Windows cannot be reinstalled to the partition containing boot files and the area usable by Windows.

13 At the confirmation message, click [YES].

Reinstallation starts. (It will take approximately 70 minutes.)

According to the screen, replace the Recovery Disc.

- Do not interrupt reinstallation, for example by turning off the computer. Otherwise reinstallation may become unavailable as Windows may not start up or the data may be corrupted.
- 14 When "Ending process." is displayed, remove the Recovery Disc, and then click [OK] to turn off the computer.
- 15 Turn on the computer.
 - If the password is requested, enter the Supervisor Password.

- 16 Perform the "First-time Operation" (→ page 13).
- 17 Start the Setup Utility and change the settings as necessary.
- 18 Perform Windows Update.

Troubleshooting (Basic)

Follow the instructions below when a problem has occurred. There is also an advanced troubleshooting guide in the "Reference Manual". For a software problem, refer to the software's instruction manual. If the problem persists, contact Panasonic Technical Support (→ pages 32-36). You can also check the computer's status in the PC Information Viewer

(→ ☐ Reference Manual "Check the Computer's Usage Status").

Starting Up

- Starting Op		
The computer does not power on / The power status indicator or battery indicator is not lit.	 Connect the AC adaptor. Insert a fully charged battery. Remove the battery pack and the AC adaptor, then connect them again. If an additional RAM module has been inserted, remove the RAM module and check to see if the RAM module is the recommended one. When the CPU temperature is high, the computer may not start up to prevent overheating of the CPU. Wait until the computer cools down, and then turn the power on again. If the computer does not power on even after cooling down, contact your technical support office. Pull out the AC cord and wait for more than 1 minute to reconnect the AC cord. 	
Windows does not start up.	 Remove all peripheral devices (e.g. USB memory). If the power status indicator is lit, slide the power switch for four seconds or longer to turn off, then turn on again. Using the following procedure, start up in Safe Mode, and check the error details. ① Turn on the computer, and when the [Panasonic] boot screen disappears (after entering the password*¹ if one is set) hold down F8. ② Release your finger when [Windows Advanced Options Menu] is displayed, and with nor , select [Safe Mode], then press FITEF. Follow the on-screen instructions. *¹ Supervisor Password or User Password set with the Setup Utility Press F9 in the Setup Utility to return the Setup Utility settings (excluding the passwords) to the default values. Start the Setup Utility and make the settings again. 	
After adding or changing the RAM module, the power is turned on but nothing is displayed on the screen.	Turn off the computer and remove the RAM module, then confirm whether the RAM module has conformed to specification. When the RAM module has conformed to specification, install it again.	
Cannot boot from internal CD/DVD drive.	 Make sure that the bootable CD/DVD is set properly. Start the Setup Utility, and confirm the following settings. [Optical Drive] is set to [Enabled] in the [Advanced] menu. [Optical Drive Power] is set to [On] in the [Main] menu. [Boot Option #1] is set to [CD/DVD Drive] in the [Boot] menu. When an external CD/DVD drive is connected, you cannot boot from the internal CD/DVD drive. 	
You have forgotten the password.	 Supervisor Password or User Password: Contact Panasonic Technical Support (→ pages 32-36). Administrator password: If you have another account with Administrator authority, log-on with it, then delete the password for the problem account. If you have a password reset disk, click [Reset password] displayed after the password input error, then follow the on-screen instructions and set a new password. If you cannot do either of the above, you will need to reinstall (→ page 19) and setup Windows. 	
"Remove disks or other media. Press any key to restart" or a similar message appears.	 A floppy disk in the drive or USB memory is connected, and it does not contain system startup information. Remove the floppy disk and USB memory, then press any key. If a device is connected to the USB port, disconnect the device, or set [USB Port] or [Legacy USB Support] to [Disabled] in the [Advanced] menu of the Setup Utility. If the problem persists after removing the disk, it may be a hard disk failure. Perform the reinstallation and return the hard disk to its condition at the time of purchase. (→ page 19) If the problem persists even after the reinstallation, contact Panasonic Technical Support. (→ pages 32-36). 	

■ Starting Up

The date and time are incorrect.	 Make the correct settings. Click (Start) - [Control Panel] - [Clock, Language, and Region] - [Date and Time]. If the problem persists, the internal clock battery may need to be replaced. Contact Panasonic Technical Support (→ pages 32-36). When the computer is connected to LAN, check the date and time of the server. The 2100 A.D. or later year will not be correctly recognized on this computer. 		
[Executing Battery Recalibration] screen appears.	The Battery Recalibration was canceled before Windows was shut down last time. To start up Windows, turn off the computer by the power switch, and then turn on.		
[Enter Password] does not appear when resuming from sleep / hibernation.	 Select [Enabled] in [Password On Resume] in the [Security] menu of the Setup Utility (Password Setup Utility (Password Setup Utility (Password Setup Utility Setup Utility Setup Utility Setup Utility Setup Utility. Click (Start) - [Control Panel] - [User Accounts and Family Safety] - [Add or remove user accounts] and select the account, and set the password. Click (Start) - [Control Panel] - [System and Security] - [Power Options] - [Require a password on wakeup] and add a check mark for [Require a password]. 		
The computer will not automatically enter sleep or hibernation.	 If you connect to a network using wireless LAN function, perform access point setting (→ ♀ Reference Manual "Wireless LAN") If you do not use wireless LAN function, turn off wireless LAN function. (→ ♀ Reference Manual "Disabling/Enabling Wireless Communication") Make sure that you are not using any software that regularly accesses the hard disk. 		
When logging on (e.g., resuming the computer), audio is distorted.	 Perform the following steps to change the audio settings to prevent audio output. ① Right-click the desktop and click [Personalize] - [Sounds]. ② Remove the check mark from [Play Windows Startup sound], and click [OK]. 		
Cannot resume.	 One of the following operations may have been carried out. In sleep mode, the AC adaptor or battery pack was disconnected, or a peripheral was connected or disconnected. The power switch was slid for four seconds or longer to forcibly turn off the computer. Slide the power switch to turn on the computer. Data not saved will be lost. 		
Other startup problems.	 Check to see if there was a disk error. ① Remove all peripheral devices including an external display. ② Click (Start) - [Computer] and right-click [Local Disk (C:)], and click [Properties]. ③ Click [Tools] - [Check Now]. A standard user needs to enter an administrator password. ④ Select the option in [Check disk options] and click [Start]. ⑤ Click [Schedule disk check] and restart the computer. Start the computer in Safe Mode and check the error details. (→ page 22 "Windows does not start up".) 		

■ Entering Password

Even after entering the password, password input screen is displayed again.	 The computer may be in ten-key mode. If the NumLk indicator 1 lights, press NumLk to disable the ten-key mode, and then input. The computer may be in Caps Lock mode. If the Caps Lock indicator A lights, press Caps Lock to disable the Caps Lock mode, and then input.
Cannot log on to Windows. ("The user name or pass- word is incorrect" is dis- played.)	 The user name (account name) includes an "@" mark. If another user account exists: Log on to Windows using another user account, and delete the account that includes "@". Then create a new account. If no other account exists: You need to reinstall Windows (→ page 19).

Troubleshooting (Basic)

■ Shutting down

Windows does not shut	Remove all peripheral devices.
down.	Wait one or two minutes. It is not a malfunction.

■ Display

When the screen becomes black for a moment.	 When you set [Display power saving function] of Power Plan Extension Utility to [Enabled], if you do the following operations, the screen becomes black for a moment, but this is not a malfunction. You can use it. Adjust the brightness of the screen with Fn + F1 / Fn + F2. Remove and insert the AC adaptor. While you are using motion video playback software, benchmark software for graphic, if error screen is displayed or application software does not function normally, set [Display power saving function] to [Disabled].
No display.	 The external display is selected. Press
The screen is disordered.	 Changing the number of display colors and resolution may affect the screen. Restart the computer. The refresh rate of the internal LCD may be 40 Hz. Change the refresh rate of the internal LCD. ① Right-click on the desktop, and click [Graphics Properties]. ② Click [OK]. ③ If [Refresh Rate] of the Notebook is [40 Hz], change to [60 Hz] and click [OK].
The external display does not work normally.	 If the external display does not support the power saving function, it may not work normally when the computer enters the power saving mode. Turn off the external display.

■ Battery

The battery indicator lights red.	 The battery level is very low (the charge is approx. 9% or less). Connect the AC adaptor. You can use the computer when the indicator light is orange. If you do not have an AC adaptor, save your data and power off your computer. After replacing the battery pack with a fully charged one, turn your computer on again.
The battery indicator is blinking.	 If blinking red: 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 (→ pages 32-36). The battery pack or charging circuit may be defective. If blinking orange: Battery cannot be recharged temporarily because the internal temperature of the battery pack is outside the acceptable temperature range for recharging. Your computer can be used normally in this state. Once the range requirement is satisfied, charging begins automatically. Software applications and peripheral devices (USB devices, etc.) are consuming too much power. Exit the software applications currently running, and remove all peripherals. Once the range requirement is satisfied, charging begins automatically.
The battery indicator is flashing.	The battery is recharging. If [Battery Charging Indicator] in [Main] menu of the Setup Utility is set to [Flashing], the indicator will alternately become lighter and darker.

■ Touch Pad

The cursor does not work.	 When using the external mouse, connect it correctly. Restart the computer using the keyboard. Press and press twice, and press to select [Restart] and press timer. If the computer does not respond to keyboard commands, read "No response" (→ below). 	
Cannot input using the touch pad.	 Set [Touch Pad] to [Enabled] in the [Main] menu of the Setup Utility. The drivers for some mice may disable the touch pad. Check your mouse's operating instructions. 	

■ On-screen Document

The document of PDF for-	Install Adobe Reader.	
mat is not displayed.	① Log on to Windows as an administrator.	
	② Click 🚱 (Start) and input "c:\uti <u>l\reade</u> r\AdbeRdr1001_en_US.exe" in [Search	
	programs and files] then press Enter .	
	③ Update Adobe Reader to its latest version.	
	If your computer is connected to the internet, start up Adobe Reader and click	
	[Help] - [Check for Updates].	

■ Others

No response.	 Press Ctrl+Shift+Esc to open Task Manager and close the software application that is not responding. An input screen (e.g., password input screen at startup) may be hidden behind another window. Press Alt+Tab to check. Press the power switch for four seconds or longer to shut down the computer, and then press the power switch to turn it on. If the application program does not work normally, uninstall and reinstall the program. To uninstall, click (Start) - [Control Panel] - [Uninstall a program].
The computer does not recognize the CD/DVD drive.	 Turn on the CD/DVD drive (→ page 14).

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Specifications

This page provides the specifications for the basic model. The model number is different according to the unit configuration.

- To check the model number:
 Check the bottom of the computer or the box the computer came in at the time of purchase.
- To check CPU speed, memory size and the hard disk drive (HDD) size:
 Run the Setup Utility (→ Parameter Manual "Setup Utility") and select [Information] menu.
 [Processor Speed]: CPU speed, [Memory Size]: Memory size, [Hard Disk]: Hard disk drive size

■ Main Specifications

- Main Opeci			
Model No.		CF-SX2JDAZDM CF-SX2JDAZ1M CF-SX2JDBZDM	CF-SX2JDBEDM
CPU/Secondary cache memory		Intel [®] Core [™] i5-3320M Processor (3 MB ^{*1} cache, up to 3.30 GHz) with Intel [®] Turbo Boost Technology	
Chip Set		Mobile Intel [®] QM77 Express Chipset	
Video controller		Built-in Chip Set	
Main Memory*2		4 GB ^{*1} , DDR3L SDRAM (8 GB ^{*1} Max.)	
Video Memory		UMA (<32-bit> 1551 MB*1 Max., <64-bit> 1696	MB ^{*1} Max.) ^{*3}
Hard Disk Drive		320 GB ^{*4} Approx. 15 GB ^{*4} (HDD Recovery partition) and Approx. 300 MB ^{*4} (Recovery partition) are used as recovery partitions. (Users cannot use these partitions.)	
CD/DVD drive		DVD MULTI Drive built-in, Buffer underrun error	r prevention function: Supported
Continuous Data Transfer Speed*5*6	Reading*7	●DVD-RAM*8: 5X (Max.) ●DVD-R*9: 8X (Max.) ●DVD-R DL: 8X (Max.) ●DVD-RW: 8X (Max.) ●DVD-ROM: 8X (Max.) ●+R: 8X (Max.) ●+R DL: 8X (Max.) ●+RW: 8X (Max.) ●High Speed +RW: 8X (Max.) ●CD-ROM: 24X (Max.) ●CD-R: 24X (Max.) ●CD-RW: 24X (Max.) ●High-Speed CD-RW: 24X (Max.) ●Ultra-Speed CD-RW: 24X (Max.)	
	Writing*10	•DVD-RAM*8: 5X (Max.) •DVD-R*9: 8X (Max.) •DVD-R DL: 6X (Max.) •DVD-RW: 6X (Max.) •+R: 8X (Max.) •+R DL: 6X (Max.) •+RW: 4X (Max.) •High Speed +RW: 8X (Max.) •CD-R: 24X (Max.) •CD-RW: 4X •High-Speed CD-RW: 10X •Ultra-Speed CD-RW: 16X (Max.)	
Supported Reading Discs/ Format		●DVD-ROM (Single Layer, Dual Layer) ●DVD-Video ●DVD-R*9 (1.4 GB, 2.8 GB, 4.7 GB)*4 ●DVD-R DL (8.5 GB)*4 ●DVD-RW (Ver.1.1/1.2 1.4 GB, 2.8 GB, 4.7 GB, 9.4 GB)*4 ●DVD-RAM*8 (1.4 GB, 2.8 GB, 4.7 GB, 9.4 GB)*4 ●+R (4.7 GB)*4 ●+R DL (8.5 GB)*4 ●+RW (4.7 GB)*4 ●High Speed +RW (4.7 GB)*4 ●CD-Audio ●CD-ROM (XA compatible) ●CD-R ●Photo CD (multiple session compatible) ●Video CD ●CD-EXTRA ●CD-RW ●CD-TEXT ●High-Speed CD-RW ●Ultra-Speed CD-RW	
	Writing	●DVD-RAM*8 (1.4 GB, 2.8 GB, 4.7 GB, 9.4 GB)*4 ●DVD-R*9 (1.4 GB, 2.8 GB, 4.7 GB for General)*4 ●DVD-R DL (8.5 GB)*4 ●DVD-RW (Ver.1.1/1.2 1.4 GB, 2.8 GB, 4.7 GB, 9.4 GB)*4 ●+R (4.7 GB)*4 ●+R DL (8.5 GB)*4 ●+RW (4.7 GB)*4 ●High Speed +RW (4.7 GB)*4 ●CD-RW ●High-Speed CD-RW ●Ultra-Speed CD-RW	
Display Method		12.1 type (TFT) (1600 × 900 dots)	
Internal LCD		65,536/16,777,216 colors (1600 × 900 dots)*11	
External Display*12		65,536/16,777,216 colors (800 × 600 dots/1024 × 768 dots/1280 × 720 dots/1280 × 768 dots/ 1280 × 1024 dots/1360 × 768 dots/1366 × 768 dots/1400 × 1050 dots/1600 × 900 dots/ 1600 × 1200 dots/1680 × 1050 dots/1920 × 1080 dots/1920 × 1200 dots)	
Simultaneous Display on LCD + External Display*12		65,536/16,777,216 colors (800 × 600 dots/1024 × 768 dots/1280 × 720 dots/1280 × 768 dots/ 1360 × 768 dots/1366 × 768 dots/1600 × 900 dots)*11	
Wireless LAN		Intel [®] Centrino [®] Advanced-N 6205 (→ page 30)	
Bluetooth		→ page 30	
Wireless WAN*13		Not equipped	Equipped
LAN		IEEE 802.3 10Base-T / IEEE 802.3u 100BASE-TX / IEEE 802.3ab 1000BASE-T	
Sound		WAVE and MIDI playback, Intel [®] High Definition Audio subsystem support	
Security Chip		TPM (TCG V1.2 compliant) ^{*14}	
		Trivi (100 v 1.2 compilant)	

■ Main Specifications

Model No.			CF-SX2JDAZDM CF-SX2JDAZ1M CF-SX2JDBZDM	CF-SX2JDBEDM	
Card Slots	SD Me Slot*15	mory Card	x 1		
	SIM Ca	ard Slot ^{*13}	x 1		
RAM Mo	dule Slo	t	x 1, DDR3L SDRAM, 204-pin, 1.35 V, SO-DIMM, PC3-10600 Compliant		
Interface	:		USB 3.0 Ports × 2 (left side)*16 / USB 2.0 Port x 1 (right side)*17 / LAN Port (RJ-45) × 1 / Exter-		
			nal Display Port (VGA) (Mini Dsub 15-pin female) / HDMI Port (Type A)*18 / Microphone Jack (Miniature jack, 3.5 DIA) / Headphone Jack (Miniature jack, 3.5 DIA)		
Keyboard	d / Point	ing Device	84 keys / Touch Pad		
Camera		Resolution	High Definition 720P		
Effective number of pixels		number of	Max. 1280 x 720		
		Microphone	Built-in		
Power Supply			AC adaptor or Battery pack		
AC Adap	AC Adaptor*19 Input: 100 V - 240 V AC, 50 Hz/60 Hz, Output: 16 V DC, 5 A		16 V DC, 5 A		
Battery F	Battery Pack Li-ion 7.2 V, Typical 13600 mAh / Minimum 12800 mAh		00 mAh		
Operating Time*20		*20	Approx. 14.5 hours (Economy Mode (ECO) - Disable)	Approx. 13.5 hours (Economy Mode (ECO) - Disable)	
Chargir	ng Time [*]	21	Approx. 4 hours (Power off)/Approx. 5 hours (Power on)		
Power C	onsump	tion ^{*22}	Approx. 25 W ^{*23} / Approx. 65 W (maximum when recharging in the ON state)		
Physical Dimensions (W × D × H)		ions	295 mm × 216.2 mm × 25.4 mm {11.6" × 8.5" × 1.0"}		
Weight *24			Approx. 1.42 kg {Approx. 3.13 lb.}	Approx. 1.43 kg {Approx. 3.15 lb.}	
Envi-	Oper-	Temperature	5 °C to 35 °C {41 °F to 95 °F}		
ronment	ating	Humidity	30% to 80% RH (No condensation)		
	Stor-	Temperature	-20 °C to 60 °C {-4 °F to 140 °F}		
age		Humidity	30% to 90% RH (No condensation)		

■ Software

Installed OS*25	Genuine Windows [®] 7 Professional 32-bit Service Pack 1 / Genuine Windows [®] 7 Professional 64-bit Service Pack 1
Pre-installed Software	Adobe Reader, PC Information Viewer, Intel [®] PROSet/Wireless Software, Bluetooth Stack for Windows [®] by TOSHIBA, Wireless Switch Utility, Wireless Connection Disable Utility *13 *26, Hotkey Settings, Battery Recalibration Utility, Infineon TPM Professional Package*14 *26, Aptio Setup Utility, PC-Diagnostic Utility, Roxio Creator LJB, CyberLink PowerDVD 10, Wireless Manager Mobile Edition 5.5f*26 *27, Hard Disk Data Erase Utility*28, Recovery Disc Creation Utility, Dashboard for Panasonic PC, Quick Boot Manager, Power Plan Extension Utility, Camera Utility, USB Charge Setting Utility, PC Information Popup, Touchpad Utility

Specifications

Wireless LAN

Data Transfer Rates	IEEE802.11a : 54/48/36/24/18/12/9/6 Mbps (automatically switched)*29 IEEE802.11b : 11/5.5/2/1 Mbps (automatically switched)*29 IEEE802.11g : 54/48/36/24/18/12/9/6 Mbps (automatically switched)*29 IEEE802.11n*30 : (HT20) GI*31 = 400ns: 150/130/115/86/72/65/57/43/39/28/21/14/7 Mbps (automatically switched)*29 GI*31 = 800ns: 130/117/104/78/65/58/52/39/26/19/13/6 Mbps (automatically switched)*29 (HT40) GI*31 = 400ns: 300/270/240/180/150/135/120/90/60/45/30/15 Mbps (automatically switched)*29 GI*31 = 800ns: 270/243/216/162/135/121/108/81/54/40/27/13 Mbps (automatically switched)*29		
Standards Supported	IEEE802.11a / IEEE802.11b / IEEE802.11g / IEEE802.11n		
Transmission Method	OFDM system, DS-SS system		
Wireless Channels Used	IEEE802.11a: Channels 36/40/44/48/52/56/60/64/100/104/108/112/116/120/124/128/132/136/ 140/149/153/157/161/165 IEEE802.11b/IEEE802.11g: Channels 1 to 11 IEEE802.11n: Channels 1-11/36/40/44/48/52/56/60/64/100/104/108/112/116/120/124/128/132/ 136/140/149/153/157/161/165		
RF Frequency Band	IEEE802.11a : 5.18 GHz - 5.32 GHz, 5.5 GHz - 5.7 GHz, 5.745 GHz - 5.825 GHz IEEE802.11b/IEEE802.11g : 2.412 GHz - 2.462 GHz IEEE802.11n : 2.412 GHz - 2.462 GHz, 5.18 GHz - 5.32 GHz, 5.5 GHz - 5.7 GHz, 5.745 GHz - 5.825 GHz		

Bluetooth

Bluetooth Version	4.0
	Classic mode / Low Energy mode
Transmission Method	FHSS system
Wireless Channels Used	Channel 1 to 79 / Channel 0 to 39
RF Frequency Band	2.402 GHz - 2.480 GHz

- *1 1 MB = 1,048,576 bytes / 1 GB = 1,073,741,824 bytes
- For 32-bit OS, the usable memory available will be less depending on the specifications (3.4 GB to 3.5 GB).
- *3 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. The size of Video memory is allotted depending on the operating system.
- *4 1 MB = 1,000,000 bytes / 1 GB = 1,000,000,000 bytes. Your operating system or some application software will report as fewer GB.
- Data transfer speeds indicate values measured by Panasonic Corporation. The data transfer rate of DVD per 1X speed is 1,350 KB/s. The data transfer rate of CD per 1X speed is 150 KB/s.
- Performance of CD-R, CD-RW, DVD-RAM, DVD-R, DVD-R DL, DVD-RW, +R, +R DL, and +RW cannot be guaranteed depending on writing status and recording format. Also, some data cannot be played back depending on the disc, settings, and environment being used. Does not support writing to DVD-R DL/+R DL (dual layer discs) and Ultra-Speed CD-RW.
- If an unbalanced disc (e.g., a disc with which the balance has been displaced from the center) is inserted, the speed may become slower if there are large vibrations while the disc is rotating.
- *8 Only non-cartridge type or removable cartridge type can be used.

- DVD-R is compatible with 4.7 GB (for General) playback. DVD-R (for Authoring) playback is compatible with discs recorded using Disc-at-Once recording.
- *10 Depending on the disc, the writing speed may become slower.
- *11 A 16,777,216 color display is achieved by using the dithering function.
- *12 Display may be impossible using some connected external displays.
- *13 Only for model with wireless WAN. The specification may differ depending on models.
- *14 Only for model with TPM.
 For information on TPM, refer to the Installation Manual of "Trusted Platform Module (TPM)" by the following procedure.
 Click (Start) and input "c:\util\drivers\tpm\index.hta" in [Search programs and files] and press Enter.
- *15 This slot is compatible with High-Speed Mode. Operation has been tested and confirmed using Panasonic SD/SDHC/ SDXC Memory Cards with a capacity of up to 64 GB. Operation on other SD equipment is not guaranteed.
- *16 Compatible with USB 1.1/2.0/3.0. Does not guarantee operation of all USB-compatible peripherals.
- *17 Compatible with USB 1.1/2.0. Does not guarantee operation of all USB-compatible peripherals.
- *18 Does not guarantee operation of all HDMI-compatible peripherals.

- *19 <Only for North America>
 - The AC adaptor is compatible with power sources up to 240 V AC adaptor. This computer is supplied with a 125 V AC compatible AC cord. 20-M-
- *20 Measured with LCD brightness : 60 cd/m² Varies depending on the usage conditions, or when an optional device is attached.
- *21 Varies depending on the usage conditions, CPU speed, etc.
- *22 Approx. 0.5 W when the battery pack is fully charged (or not being charged) and the computer is off.

<When using with 115 V AC>

Even when the AC adaptor is not connected to the computer, power is consumed (Max. $0.2~\mathrm{W}$) simply by having the AC adaptor plugged into an AC outlet.

<When using with 240 V AC>

Even when the AC adaptor is not connected to the computer, power is consumed (Max. 0.4 W) simply by having the AC adaptor plugged into an AC outlet.

- *23 Rated power consumption.
- *24 Average value. May differ depending on models.
- *25 Operations of this computer are not guaranteed except for the pre-installed OS and the OS which is installed by using the Recovery disc. Some parts of the software in the Recovery disc may not be installed depending on a model.

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- *26 Must be installed before use.
- *27 For information on Wireless Manager, refer to the "Supplementary Instructions for Wireless Manager mobile edition 5.5" by the following procedure.
 - Click (Start) and input "c:\util\wlprjct\Supplementary Instructions.pdf" in [Search programs and files] and press **Enter**.
- *28 Perform on the recovery partition. (If this software can not be performed on the recovery partition, perform from the recovery disc)
- *29 These are speeds specified in IEEE802.11a+b+g+n standards. Actual speeds may differ.
- *30 Available when set to "WPA-PSK", "WPA2-PSK" or "none".
- *31 Only available when HT40 enabled by the computer.

LIMITED WARRANTY

For U.S.A.

Panasonic System Communications Company of North America (PSCNA)

<u>Computer Products - Worldwide Warranties</u>

Section 1: Limited Warranty - Hardware

PSCNA, referred hereafter as "Panasonic" will repair the products listed below with new or rebuilt parts, free of charge in a Global Panasonic designated service location for the period specified below from the date of original purchase in the event of a defect in materials or workmanship. These warranties are 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.

Laptop PC (CF-##) – 3 Years

Ultra-Mobile (CF-U#/CF-H# Series) – 3 Years

• Tablet PC (FZ-A#) - 3 Years

• PDRC - LCD & Keyboard Assembly - 3 Years

Battery Warranty

Batteries supplied with the product are covered under the warranty for one (1) year from date of purchase, except as excluded in Section 3. Batteries purchased separately are covered under the warranty for one (1) year from the date of purchase. A replacement battery furnished under the product warranty is covered for the remaining period of the one year warranty on the original or purchased battery.

Optional: Panasonic "Protection Plus" Warranty

Any unit for which the Panasonic "Protection Plus" warranty has been purchased will receive additional coverage for any failure that occurs due to accidental damage. All other terms and conditions of the standard warranty apply and this additional coverage will exist for the duration of the standard warranty period of the unit. If an extended Protection Plus warranty program is purchased, coverage is extended to the end of the last year of extended coverage purchased.

This warranty does not cover failures or defects that are caused by fire, intentional acts, loss, theft, improper maintenance, modification or service by anyone other than the Panasonic National Service Center or a Panasonic Authorized Service Provider, or damage that is attributable to acts of God. Cosmetic damage that does not affect functionality is not covered. Cosmetic damage on units with hardware failures will be repaired in accordance with the warranty terms. This warranty is extended solely to the original purchaser on the unit serial number for which it was purchased. Complete unit replacement fulfills the full obligation and is at the discretion of Panasonic and is limited to once during the coverage term. Maximum benefit is limited to one replacement per coverage year of the Motherboard, LCD, Storage Drive, and Keyboard.

Wireless Module Warranty

Panasonic approved wireless modems installed in Panasonic brand computers and integrated by Panasonic or an Authorized Panasonic Wireless Integrator are covered under the warranty for the remaining warranty period of the device in which the modem is installed. For devices with less than three (3) months remaining on the unit warranty, the wireless modem will be covered for a period of three (3) months from the date of installation of the modem, covering only modem replacement or modem installation related issues.

All modems must be approved by the wireless carrier prior to use. Any use or attempted use of a wireless modem not approved and activated by the carrier for use on their network is strictly prohibited and is not sanctioned or warranted by Panasonic and may result in legal action. In addition, all modems must be approved by Panasonic as compatible with the device hardware before installation or use.

Panasonic's sole responsibility for the warranty or technical support of the software required to install or operate the modem is defined in Section 2 (Limited Software Warranty). Any attempted software installation by anyone other than a Panasonic Authorized Wireless Integrator is not covered under warranty and may result in service charges to re-image or replace the hard drive.

Installation or attempted installation by any party other than Panasonic or an Authorized Panasonic Wireless Integrator is strictly not covered under the warranty and may void the computer warranty if damage results.

Options and Accessories Warranties

The below listed Panasonic brand or supplied options and accessories are covered under this limited warranty for the period specified from the date of purchase or as specifically stated:

- · AC Adaptor / Power Cord 3 Years
- Memory Expansion Card (Panasonic Brand) 3 Years
- Car Mount Docking Station PCB or Vehicle Docking Station 3 Years
- Desktop Port Replicator, I-O Box, Docking Cradle (like CF-U1) 3 Years
- Antenna Pass-through Cable 3 Years
- Backlit or Full-sized keyboard 3 Years or assumes warranty of the unit in which it is installed
- Integrated Panasonic supplied options and kits including, but not limited to Wireless Modems, Media Bay Drives (Floppy, CD, DVD, Combo), Camera, GPS, Bluetooth, Smartcard Reader, Magnetic Card Reader, Barcode Scanner, and Fingerprint Reader 3 Years or assumes warranty period of the unit in which it is installed provided the integration was performed by Panasonic or an Authorized Integrator.
- · Hard Drive / Solid State Drive (Internal) 3 Years
- · Separately purchased 2nd Hard Drive 1 Year
- External USB Drives (CD / DVD / Floppy / Hard Drive) 1 Year
- Optional Battery 1 Year
- Battery Charger / Multi-Bay Battery Charger 1 Year
- Stylus Pens, Digitizer & Standard 90 Days (physical damage excluded)

Section 2 - Limited Warranty - Software

Panasonic warrants to you only that the disk(s) or other media on which the Programs are furnished will be free from defects in material 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 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

Panasonic's entire liability and your exclusive remedy under this warranty shall be limited to the replacement, in the United States or other Panasonic designated location, 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.

Section 3 - Limited Warranty Exclusions - Specifically excluded from the warranty are:

- All consumable items; such as screen protection films, logo badges, labels, cleaning cloths, carry cases, manuals, cables, straps, belts, holsters, tethers, and harnesses and any other options and accessories not listed above or covered under a separate warranty.
- Failures related to the product operating system, hard drive or solid state drive image, software setup, software program, virus, other program(s) or file(s) on any drive or in any computer memory location.
- · Failures due to BIOS settings or changes, as well as any cosmetic or physical damage to the unit.
- Any unit or device with a missing or altered model number or serial number label
- · Cosmetic damage or any damage which occurs in shipment
- Failures which are caused by products not supplied by Panasonic
- 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 or modification, use not in accordance with product use instructions
- · Failures due to service by anyone other than a Panasonic Authorized Service Provider
- Failures caused by improper installation of options or accessories or due to integration by any company other than Panasonic or a Panasonic Authorized Integrator
- · Damage, failure, or loss due to the unit being stolen, lost, misplaced, or used by anyone other than the original purchaser
- · Damage that is attributable to acts of God

This limited warranty only covers failures due to defects in materials or workmanship which occur during normal use. If a unit is sent to a Panasonic Authorized Service Center and no hardware failure is found, the customer will be billed for labor to correct a software issue or reimage the hard drive plus shipping and applicable administrative fees at the current rates set by the service provider.

THIS PRODUCT IS NOT INTENDED FOR USE AS OR PART OF NUCLEAR EQUIPMENT/SYSTEMS, AIR TRAFFIC CONTROL EQUIPMENT/SYSTEMS, OR AIRCRAFT COCKPIT EQUIPMENT/SYSTEMS^{*1}. PANASONIC WILL NOT BE RESPONSIBLE FOR ANY LIABILITY RESULTING FROM THE USE OF THIS PRODUCT ARISING OUT OF THE FOREGOING USES.

*1 AIRCRAFT COCKPIT EQUIPMENT/SYSTEMS include class 2 Electronic Flight Bag (EFB) Systems and Class 1 EFB Systems when used during critical phases of flight (e.g., during take-off and landing) and/or mounted onto the aircraft. Class 1 EFB Systems and 2 EFB Systems are defined by FAA: AC (Advisory Circular) 120-76A or JAA: JAA TGL (Temporary Guidance Leaflets) No. 36.

Other Limits and Exclusions: There are no other express warranties except as listed above.

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

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

For technical support or to arrange for service on your Panasonic computer product, call our toll-free hotline at 1-855-PSC-TECH (855-772-8324).

DIAL TOLL FREE: 1-855-PSC-TECH (1-855-772-8324)

Web Site: www.panasonic.com/toughbook

LIMITED WARRANTY

For Canada

PANASONIC COMPUTER AND PERIPHERALS LIMITED WARRANTY

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

Scope of Coverage	Period of Coverage	Type of Failure Coverage
Laptop Computers (except Battery) and AC Adaptor Factory/PCI installed options including Wireless WAN, GPS, Bluetooth, Finger print reader, Backlit keyboard, Memory Card and Media Bay Drives (Floppy, CD/DVD) Mobile Wireless Display PDRC – LCD and Keyboard Assemblies Port Replicator	Three (3) Years from Date of Original End User Customer Purchase	Defective Materials or Work- manship
 Hand-held Computers Battery Battery charger Auto Adaptor External USB Drives 	One (1) Year from Date of Original End User Customer Purchase	Defective Materials or Work- manship
• Stylus	Ninety (90) Days from Date of Original End User Customer Purchase	Defective Materials or Work- manship
All consumable items including protection film, cleaning cloth, carry case, tether and harness	No Coverage	

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. THIS PRODUCT IS NOT INTENDED FOR USE AS, OR AS PART OF, NUCLEAR EQUIPMENT/SYSTEMS, AIR TRAFFIC CONTROL EQUIPMENT/SYSTEMS, OR AIRCRAFT COCKPIT EQUIPMENT/SYSTEMS. PANASONIC WILL NOT BE RESPONSIBLE FOR ANY LIABILITY RESULTING FROM THE USE OF THIS PRODUCT ARISING OUT OF THE FOREGOING USES.

AIRCRAFT COCKPIT EQUIPMENT/SYSTEMS include Class2 Electrical Flight Bag (EFB) Systems and Class1 EFB Systems when used during critical phases of flight (e.g., during take-off and landing) and/or mounted on to the aircraft. Class1 EFB Systems and 2 EFB Systems are defined by FAA: AC (Advisory Circular) 120-76A or JAA: JAA TGL (Temporary Guidance Leaflets) No.36

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

<u>Coverage</u> – 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) days warranty period, and you return it, transportation costs prepaid, to Panasonic Canada Inc., Computer Products Marketing, 5770 Ambler Drive, Mississauga, Ontario L4W 2T3, 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.

sauga, Ontario L4W 2T3, 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

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.

LIMITED WARRANTY (GARANTIE LIMITÉE)

Pour le Canada

GARANTIE LIMITÉE - ORDINATEURS ET PÉRIPHÉRIQUES PANASONIC

<u>Couverture</u> – Panasonic Canada Inc. (« PCI ») garantit à l'acheteur original que ce produit informatique (à l'exclusion des supports des logiciels) est, au moment de sa vente par PCI ou d'un revendeur agréé par PCI, exempt de défauts de pièces et de fabrication dans les conditions normales d'utilisation, et ce, pendant la période de couverture de la garantie, sous réserve des modalités décrites ci-dessous.

Éléments couverts	Durée de couverture	Type de couverture
 Ordinateurs blocs-notes (sauf batteries) et adaptateur secteur Options installées en usine/par PCI incluant: WAN sans fil, GPS, Bluetooth, lecteur d'empreintes digitales, clavier rétroéclairé, carte mémoire et lecteurs (disquettes, CD/DVD) Écran mobile sans fil Ensembles PDRC – ACL et clavier Duplicateur de port 	Trois (3) ans à partir de la date d'achat original.	Défauts de pièces et de fabrication
 Ordinateurs de poche Batterie Chargeur de batterie Adaptateur pour voiture Périphériques USB 	Un (1) an à partir de la date d'achat original.	Défauts de pièces et de fabrication
Stylo pointeur standard ou pour numériseur graphique	Quatre-vingt-dix (90) jours à partir de la date d'achat original.	Défauts de pièces et de fabrication
Tous les articles consommables incluant les pellicules protectrices, chiffons de nettoyage, étuis de transport, longes et sangles	Aucune couverture	

Recours – Pour obtenir des informations sur la marche à suivre dans le cas où une réclamation en vertu de la garantie deviendrait nécessaire, communiquez par téléphone avec un représentant de PCI au 1-800-668-8386, entre 9h00 et 17h00 (heure de l'Est) du lundi au vendredi (sauf les jours fériés), avant l'échéance de la garantie applicable, en prenant soin d'identifier la nature de la défaillance. Un reçu ou toute autre pièce justificative de la date d'achat original sera exigé avant toute réparation. Toute pièce défectueuse couverte par la présente garantie limitée sera réparée ou remplacée par une pièce neuve ou remise à neuf. Le remplacement ou la réparation sera fait conformément aux modalités de la présente garantie limitée pendant la durée restante de la période originale de la garantie.

Produits non couverts – La présente garantie limitée ne couvre pas les produits achetés à l'extérieur du Canada. Elle ne couvre pas non plus les dommages, la défaillance ou les défauts attribuables à une manutention inadéquate, une mauvaise installation, une utilisation anormale ou abusive, de la négligence, un accident, un déversement ou la pénétration d'un objet étranger, une modification, un cas fortuit ou une réparation effectuée par une personne non agréée par PCI.

CE PRODUIT N'EST PAS DESTINÉ À ÊTRE UTILISÉ, EN TOUT OU EN PARTIE, COMME SYSTÈME/ÉQUIPEMENT NUCLÉAIRE, SYSTÈME/ÉQUIPEMENT DE CONTRÔLE D'AVION^{*3}. PANASONIC DÉCLINE

TOUTE RESPONSABILITÉ CONCERNANT L'UTILISATION DE CE PRODUIT DANS LES CAS SUSMENTIONNÉS.

Les SYSTÈMES/ÉQUIPEMENTS DE POSTE DE PILOTAGE D'AVION sont dotés de systèmes OEPP (organiseur électronique de poste de pilotage) de classe 2 et de classe 1 utilisés pendant des phases critiques de vol (par exemple, pendant le décollage et l'atterrissage) et(ou) montés sur l'avion. Les systèmes OEPP de classe 1 et de classe 2 sont définis par le circulaire d'information FAA: AC (Advisory Circular) 120-76A ou le feuilet n° 36 JAA: JAA TGL (Temporary Guidance Leaflets) No 36.

EXPÉDITION DU PRODUIT POUR SERVICE SOUS GARANTIE

Emballez soigneusement le produit, de préférence dans son emballage d'origine. Joignez une description de la défaillance de même qu'une pièce justificative de la date d'achat. Panasonic Canada Inc. ne peut être tenue responsable pour tout dommage ou perte subi pendant le transport si vous avez choisi le transporteur.

GARANTIE LIMITÉE - SUPPORTS DES LOGICIELS

Couverture — Panasonic Canada Inc. (« PCI ») garantit à l'acheteur original que la ou les disquettes ou tout autre support sur lequel le ou les programmes sont fournis sont exempts de défauts de pièces et de fabrication dans des conditions normales d'utilisation au Canada, et ce, pour une période de soixante (60) jours suivant la date de réception indiquée sur la preuve d'achat.

LA PRÉSENTE GARANTIE EST LA SEULE OFFERTE PAR PCI COUVRANT LES SUPPORTS DE LOGICIELS. PCI ne garantit pas les logiciels. Reportez-vous à la garantie écrite du concédant de licence d'utilisation du logiciel (qui accompagne la copie du logiciel) pour toute réclamation en vertu de la garantie.

Réclamation - marche à suivre - Panasonic Canada Inc. remplacera toute disquette ou support défectueux si l'article en question est retourné, port payé, à son service de Marketing - produits informatiques, 5770 Ambler Drive, Mississauga (Ontario) L4W 2T3, dans les soixante (60) jours suivant la date d'achat original. Joignez à votre envoi une pièce justificative de votre achat et une description du problème.

Recours – La responsabilité de PCI - et votre seul recours - dans le cas de toute défaillance couverte par la garantie sur ce support de logiciel est limitée au seul remplacement du support. Elle ne couvre aucun autre dommage, y compris, mais non exclusivement, la perte d'usage ou de profits, ni aucun dommage spécial, indirect ou consécutif, ni aucune autre réclamation de nature similaire ou autre. Produits non couverts – La présente garantie limitée ne s'applique pas si la ou les disquettes ou autre support ont été utilisés dans un produit d'une marque autre que Panasonic ou dans des conditions environnementales autres que celles spécifiées par PCI ou le fabricant, ou soumis à une mauvaise utilisation, à la négligence, à une manutention inadéquate ou encore si le programme a été modifié ou subi une tentative de modification ou des dommages attribuables à un accident ou à un cas fortuit. De plus, PCI n'assume aucune responsabilité pour toute perte de, ou tout dommage à, un programme, des données ou un support de sauvegarde amovible.

<u>GÉNÉRALITÉS</u>

PCI NE RECONNAÎT AUCUNE AUTRE GARANTIE, EXPLICITE OU IMPLICITE, Y COMPRIS, MAIS NON EXCLUSIVEMENT, LES GARANTIES IMPLICITES DE VALEUR COMMERCIALE ET D'UTILITÉ À UNE FIN QUELCONQUE, À L'ÉGARD DU LOGICIEL, SUPPORTS DE LOGICIELS, PRODUITS INFORMATIQUES, PÉRIPHÉRIQUES ET ACCESSOIRES.

SOUS AUCUNE CIRCONSTANCE PCI NE POURRA ÊTRE TENUE RESPONSABLE DES DOMMAGES SPÉCIAUX, INDIRECTS OU CONSÉCUTIFS ATTRIBUABLES À UN MANQUEMENT AUX GARANTIES LIMITÉES DÉCRITES DANS LE PRÉSENT DOCUMENT OU À L'UTILISATION DU PRODUIT INFORMATIQUE, Y COMPRIS, SANS RESTRICTION, LA PERTE DE DONNÉES, D'AFFAIRES, D'ACHALANDAGE OU DE PROFIT. DANS TOUS LES CAS, LA RESPONSABILITÉ MAXIMALE DE PCI POUR TOUT MANQUEMENT NE POURRA EXCÉDER LE PRIX DE VENTE DU PRODUIT INFORMATIQUE.

AUCUNE RÉCLAMATION, SANS ÉGARD À SES MOTIFS, NE POURRA ÊTRE FAITE AUPRÈS DE PCI PLUS DE DEUX (2) ANS APRÈS LES FAITS INVOQUÉS À LA BASE D'UNE TELLE RÉCLAMATION.

Garantie statutaires - Certaines juridictions interdisent de telles limitations ou exclusions; aussi, pourraient-elles ne pas s'appliquer.

LIMITED WARRANTY

For Australia

Personal / Notebook Computers - 36 Month Warranty from Date of Purchase

- 1. Subject to the conditions of this warranty Panasonic or it's Authorised Service Centre will perform necessary service on the product without charge for parts or labour, if in the opinion of Panasonic, the product is found to be faulty within the warranty period.
- 2. This warranty only applies to Panasonic products purchased in Australia and sold by Panasonic Australia or its Authorised Distributors or Dealers and only where the products are used and serviced within Australia or it's territories. Warranty cover only applies to service carried out by a Panasonic Authorised Service Centre and only if valid proof of purchase is presented when warranty service is requested.
- 3. This warranty only applies if the product has been installed and used in accordance with the manufacturer's recommendations (as noted in the operating instructions) under normal use and reasonable care (in the opinion of Panasonic). The warranty covers normal domestic use only and does not cover damage, malfunction or failure resulting from use of incorrect voltages, incorrect installation, accident, misuse, neglect, build-up of dirt or dust, abuse, maladjustment of customer controls, mains supply problems, thunderstorm activity, infestation by insects or vermin, tampering or repair by unauthorised persons (including unauthorised alterations), exposure to abnormally corrosive conditions or any foreign object or matter having entered the product.
- 4. This warranty does not cover the following items unless the fault or defect existed at the time of purchase: Software
- 5. Warranty on Toughbook accessories (stylus, pens, AC charger, combo drive, etc) is 12 Months from the date of purchase & 3 months for batteries.
- 6. To claim warranty service, when required, you should:

 Check the Panasonic web site for latest warranty contact http://www.panasonic.com.au/toughbook, use the Service Centre Locator and call the National Service Centre number indicated.
 - Prepare purchase receipt as proof of purchase date and system serial number which will be required by the Authorised Service Centre.
- 7. The Warranty excludes 3 or less faulty pixels on screen.
- 8. The Warranty includes the repair or exchange of faulty parts within the product with items that are functionally equivalent to that as originally supplied or better including new or refurbished parts or units solely at Panasonic's discretion.
- 9. It is the customer's responsibility to backup all data from the hard disk drive before sending equipment for repair. If a problem is related to the hard disk drive, or the hard disk drive has to be replaced, Panasonic will only reload the factory pre-installed software for the product onto the replacement drive.
- 10. Panasonic will arrange free pick up and return for approved warranty repairs within 50km of capital city locations. Please ensure your unit is properly packed for return to the service location.
- 11. The warranties hereby conferred do not extend to, and exclude, any costs associated with the installation, de-installation or re-installation of a product, including costs related to the mounting, demounting or remounting of any screen, (and any other ancillary activities), delivery, handling, freighting, transportation or insurance of the product or any part thereof or replacement of and do not extend to, and exclude, any damage or loss occurring by reason of, during, associated with, or related to such installation, de-installation, re-installation or transit.

In addition to your rights under this warranty, Panasonic products come with consumer guarantees that cannot be excluded under the Australian Consumer Law. If there is a major failure with the product, you can reject the product and elect to have a refund or to have the product replaced or if you wish you may elect to keep the goods and be compensated for the drop in value of the goods. You are also entitled to have the product repaired or replaced if the product fails to be of acceptable quality and the failure does not amount to a major failure.

If there is a major failure in regard to the product which cannot be remedied then you must notify us within a reasonable period by contacting the Panasonic Customer Care Centre. If the failure in the product is not a major failure then Panasonic may choose to repair or replace the product and will do so in a reasonable period of time from receiving notice from you.

THIS PRODUCT IS NOT INTENDED FOR USE AS OR AS PART OF NUCLEAR EQUIPMENT/SYSTEMS, AIR TRAFFIC CONTROL EQUIPMENT/SYSTEMS, OR AIRCRAFT COCKPIT EQUIPMENT/SYSTEMS^{*4}. PANASONIC WILL NOT BE RESPONSIBLE FOR ANY LIABILITY RESULTING FROM THE USE OF THIS PRODUCT ARISING OUT OF THE FOREGOING USES.

^{*4} AIRCRAFT COCKPIT EQUIPMENT/SYSTEMS include Class 2 Electronic Flight Bag (EFB) Systems and Class 1 EFB Systems when used during critical phases of flight (e.g., during take-off and landing) and/or mounted onto the aircraft. Class 1 EFB Systems and 2 EFB Systems are defined by FAA: AC (Advisory Circular) 120-76A or JAA: JAA TGL (Temporary Guidance Leaflets) No.36.

THIS WARRANTY CARD AND THE PURCHASE DOCKET (OR SIMILAR PROOF OF PURCHASE)
SHOULD BE RETAINED BY THE CUSTOMER AT ALL TIMES

If you require assistance regarding warranty conditions or any other enquiries, please visit the **Panasonic Australia** website **www.panasonic.com.au/toughbook** or contact by phone on **1300 132 463**

Panasonic Australia Pty. Limited

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As an ENERGY STAR® Partner, Panasonic Corporation has determined that this product meets ENERGY STAR® guidelines for energy efficiency. By enabling available power management settings, Panasonic computers enter a low-power sleep mode after a period of inactivity, saving the user energy.

<Only for U.S.A.>

To learn more about power management, please visit the web site: www.energystar.gov/index.cfm?c=power mgt.pr power management

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. <Only for U.S.A.>

For information about ENERGY STAR®, refer to the following web site: http://www.energystar.gov

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