

**Panasonic<sup>®</sup>**



# OPERATING INSTRUCTIONS

## Personal Computer

Model No. **CF-U1** series

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**For further information about the computer, you can refer to the on-screen manual.**  
**To access the on-screen manual → page 29 “On-screen Manual”**

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

Getting Started

Useful Information

Troubleshooting

Appendix

# Introduction

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

In these instructions, the names are referred as follows.

## Windows Vista

- “Windows Vista® Business” as “Windows” or “Windows Vista”

## Windows XP

- “Microsoft® Windows® XP Professional Service Pack 2 with Advanced Security Technologies” as “Windows”, “Windows XP”

## ■ Terms and illustrations in these instructions

→ : Page in these Operating Instructions or in the Reference Manual.



: Reference to the on-screen manuals.

### CAUTION

: Conditions that may result in minor or moderate injury.

### NOTE

: Useful and helpful information.



: Press [↵] (Enter) key.

**Fn + U (F2)**: Press and hold [Fn] key, and then press [U] (F2) key.

**Click** : Touch the screen with the stylus.

**Right-click** : **Windows Vista**  
Touch and hold with the stylus, or touch and select the right button of “touch pointer”.

### Windows XP

① Click  on the notification area.

② Click the object you want to right-click.

### Windows Vista



(Start) - [All Programs] :

Click  (Start), and then click [All Programs].

### Windows XP

[start] - [All Programs] :

Click [start], and then click [All Programs].

You may need to double-click in some cases.

- 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.

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# Read Me First

## 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.

FCC RF Exposure Warning:  
<Only for model with wireless LAN/  
wireless WAN/Bluetooth>

- This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
- This equipment has been approved for portable operation, and does not require any minimum spacing be provided between antennas and all person's body.
- This equipment may not be co-located or operated with any other antenna or transmitter.

### < Optional Car Mounter / Port Replicator >

- This equipment is provided with external antenna connector(s) for connection to optional Cradle for mobile external mounted antenna(s). External antenna(s) must be professionally installed and cannot exceed recommended maximum antenna gain as described in individual provided supplement instructions for wireless transmitters. Also, user must maintain minimum 20 cm spacing between external antenna(s) and all person's body (excluding extremities of hands, wrist and feet) during wireless modes of operation.

25-M-1-3

<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-1

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

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

Responsible Party:

Panasonic Corporation of North America  
One Panasonic Way  
Secaucus, NJ 07094  
Tel No:1-800-LAPTOP5 (1-800-527-8675)

6-M-1

#### **NOTICE for the products using LCD**

This product has a fluorescent lamp that contains mercury. Disposal may be regulated in your community due to environmental considerations.

For disposal or recycling information, please contact your local authorities, or the Electronic Industries Alliance:  
<<http://www.eiae.org/>>

24-M-2

Getting Started

## **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>

### **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.

30-Ca-1-1

<Only for model with wireless LAN>

This product (local network devices) for the band 5150-5250 MHz is only 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.

30-Ca-2-1

This device has been designed to operate with an antenna having a maximum gain of 2.82 dBi. Antenna having a higher gain is strictly prohibited per regulations of Industry Canada. The Required antenna impedance is 50 ohms.

# Read Me First

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (EIRP) is not more than that required for successful communication.

25-Ca-1-1

## Information to the User

### Getting Started

<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 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

## Informations destinées aux utilisateurs

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

### Ce produit et votre santé

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 à demander 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. Nous-mêmes, les revendeurs officiels et les distributeurs ne sommes pas responsables de tout dégât ou de toute violation des règlements de l'État pouvant découler du non-respect de ces directives.

26-F-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\*1.

# Read Me First



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.

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.



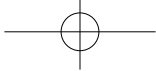
Your Personal Computer or Handheld Computer incorporating wireless WAN modem receives and transmits radio frequency energy while switched on. Remember that interference can occur if it is used close to TV sets, radios, computers or inadequately shielded equipment. Follow any special regulations and always 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 service 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.

27-1-2

- \*1 In locations where the use of wireless devices is prohibited, please turn your Wireless Switch off, or check to make sure that your Wireless Ready Indicator is off. Please note that in some cases, wireless devices may be operating even in Sleep/Standby modes.

## 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.

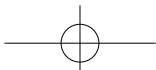
15-E-1

### 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



# Read Me First

## For Used in Motor Vehicle /Pour L'utilisation Dans Un Véhicule Motorisé

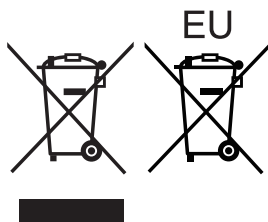
### Getting Started

Warning: Notebook Computer may be installed in a motor vehicle and visible to the driver only if used to support vehicle related functions such as vehicle information, system control, rear or side observation and navigation. If used for entertainment purpose, such as television reception or video play, it must be installed to the rear of the driver's seat where it will not be visible, directly or indirectly, to the operator of the motor vehicle. Check with individual state/provincial laws to determine lawful use of this product while operating within a motor vehicle.

Avertissement : L'ordinateur bloc-notes peut être installé dans un véhicule motorisé et dans le champ de vision du conducteur uniquement en tant que dispositif d'aide aux fonctions du véhicule, comme par exemple pour fournir des informations sur le véhicule, comme dispositif de contrôle de système, pour l'observation à l'arrière ou sur les côtés du véhicule, ainsi que pour fournir de l'information routière. Pour toute utilisation à fin de divertissement, comme par exemple pour regarder la télévision ou jouer à des jeux vidéo, il doit être installé à l'arrière du siège du conducteur, en un emplacement où il ne sera pas visible, ni directement ni indirectement, pour le conducteur du véhicule motorisé. Vérifiez les lois fédérales et nationales qui régissent l'utilisation légale de cet appareil à l'intérieur d'un véhicule motorisé.

35-M-1

## Information on Disposal in other Countries outside the European Union



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

## Precautions

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<sup>2</sup>. PANASONIC WILL NOT BE RESPONSIBLE FOR ANY LIABILITY RESULTING FROM THE USE OF THIS PRODUCT ARISING OUT OF THE FOREGOING USES.

<sup>2</sup> 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.

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

39-E-1

Getting Started

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.

The CF-U1 was developed based on thorough research into the real-world portable computing environments. Exhaustive pursuit of usability and reliability under harsh conditions led to innovations such as the magnesium alloy exterior, vibration damped flash memory disk drive, flexible internal connections. The CF-U1's outstanding engineering has been tested using the strict MIL-STD-810F (for vibration and shock) and IP (for dust and water) based procedures. As with any portable computer device precautions should be taken to avoid any damage. The following usage and handling procedures are recommended.

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

### **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 occurs, immediately turn the power off and unplug the AC plug, and then remove the battery pack. Then, contact your technical support office.

### **Do Not Touch This Product and Cable When It Starts Thundering**

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.

# Read Me First

## **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.

## **Close the Connector Cover Tightly When Using This Product Where Is a Lot of Water, Moisture, Steam, Dust, Oily Vapors, etc.**

The entry of foreign matter may cause a fire or electric shocks.

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

## **Do Not Disassemble This Product**

There are high-voltage areas inside which may give you an electric shock if you should touch them. Do not touch the pins and circuit boards inside, and do not allow foreign matter to enter inside.

Also, remodeling or disassembly may cause 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 Surface**

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 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.

## **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 (attached to your product or supplied by Panasonic) may result in a fire.

## **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 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 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 place the computer near a television or radio receiver.
- Keep the computer away from magnets. Data stored on the hard disk may be lost.

## **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 (CF-VZSU53W) 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).

- 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.

# Read Me First

- Should the battery leak and the fluid get into your eyes, do not rub your eyes. Immediately flush your eyes with clear water and see a doctor for medical treatment as soon as possible.

## NOTE

- The battery pack may become warm during recharging or normal use. This is completely normal.
- Recharging will not commence if internal temperature of the battery pack is outside of the allowable temperature range (0 °C to 50 °C {32°F to 122 °F}). (→  *Reference Manual* “Battery Power”) Once the allowable range requirement is satisfied, charging begins automatically. Note that the recharging time varies based on the usage conditions. (Recharging takes longer than usual when the temperature is 10 °C {50 °F} or below.)
- In high-temperature environments, the battery takes longer to fully recharge and the operating time is shorter. Only use the computer within the allowable temperature range.
- This computer has a high temperature mode function that prevents the degradation of the battery in high temperature environments. (→  *Reference Manual* “Battery Power”) A level corresponding to a 100% charge for high temperature 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.



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: LCD

→ *Reference Manual*  
"Touchscreen"

## B: Scroll Button

You can scroll the screen, etc. This works as a mouse wheel.

→ *Reference Manual*  
"Hardware Button Setting"

## C: LED Indicator

: Wireless ready  
This indicator lights when Wireless LAN, Bluetooth, and/or Wireless WAN are connected and ready. It does not necessarily indicate the On/Off condition of the wireless connection.

→ *Reference Manual*  
"Disabling/Enabling Wireless Communication"

: Wireless WAN status  
<Only for model with wireless WAN>

→ Refer to the instruction manual of the wireless device.

: Battery 1 status

→ *Reference Manual*  
"Battery Power"

## D: Zoom Button

→ *Reference Manual*  
"Zoom Function"

## E: Keyboard

## F: Power Switch

## G: Application Buttons

You can register your favorite application files to 4 buttons respectively.

→ *Reference Manual*  
"Hardware Button Setting"

## H: LED Indicator

: Power status

- Off: Power off/Hibernation
- Green: Power on
- Blinking green

: Sleep

: Standby

: Flash memory status

: Battery 2 status

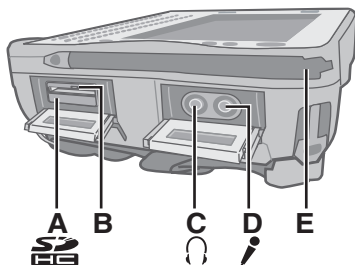
→ *Reference Manual*  
"Battery Power"

## I: Function Key

→ *Reference Manual*  
"Key Combinations"

# Description of Parts

## Right side



Getting Started

### A: SD Memory Card Slot

→ *Reference Manual*  
"SD Memory Card"

### B: SD Memory Card Indicator

(Blinking: During access)  
→ *Reference Manual*  
"SD Memory Card"

### C: Headphone Jack

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

### D: 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.

- When recording in stereo using a stereo microphone:

#### Windows Vista

Click (Start) - [Control Panel] - [Hardware and Sound] - [Sound] - [Recording] - [Microphone] - [Properties], and then add a check mark for [No Audio enhancements] in [Microphone Enhancements].

#### Windows XP

Click [start] - [All Programs] - [SoundMAX] - [Control Panel] and select [Microphone], and then add a check mark for [No Filtering] in [Microphone Enhancements].

- When using a monaural microphone with a 2-terminal plug:

#### Windows Vista

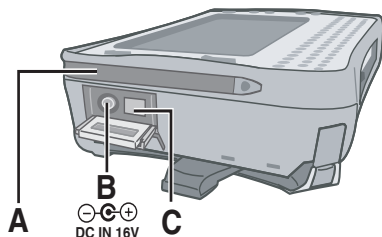
Click (Start) - [Control Panel] - [Hardware and Sound] - [Sound] - [Recording] - [Microphone] - [Properties], and then add a check mark for [Voice enhancements] in [Microphone Enhancements]. Otherwise, only audio on the left track will be recorded.

#### Windows XP

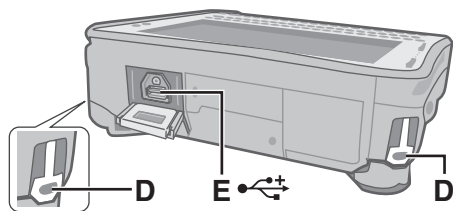
Click [start] - [All Programs] - [SoundMAX] - [Control Panel] and select [Microphone], and then add a check mark for [Voice Recording] in [Microphone Enhancements]. Otherwise, only audio on the left track will be recorded.

### E: Stylus Holder (right side)

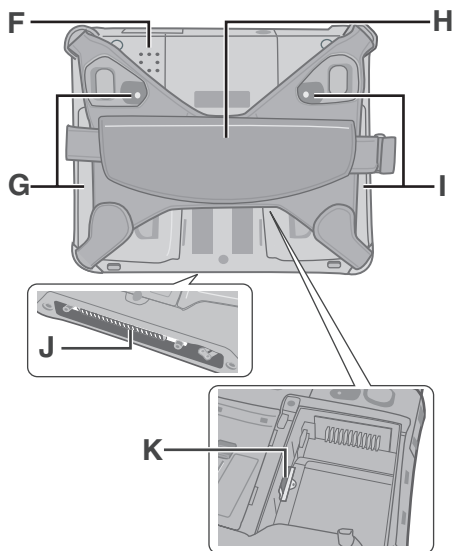
## Left side



## Top



## Rear and Bottom



**A: Stylus Holder (left side)**

**B: DC-IN Jack**

**C: Wireless Switch**

→ *Reference Manual*  
"Disabling/Enabling Wireless Communication"

**D: Security Lock (2 holes)**

A Kensington cable can be connected.  
For further information, read the manual that comes with the cable.

**E: USB Port**

→ *Reference Manual* "USB Devices"

**F: Speaker**

→ *Reference Manual*  
"Key Combinations"

**G: Battery 2 case/indicator**

→ *Reference Manual* "Battery Power"

**H: Hand strap**

**I: Battery 1 case/indicator**

→ *Reference Manual* "Battery Power"

**J: Expansion Bus Connector**

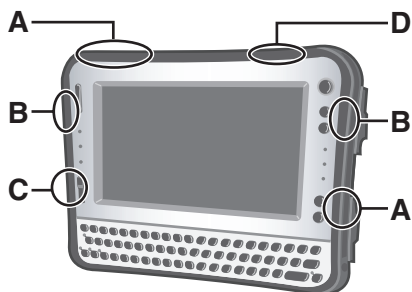
→ *Reference Manual* "Cradle / Mini Dock"

**K: SIM card slot**

To open the battery cover → page 19 "Inserting the Battery Packs".

# Description of Parts

## Inside



### A: Wireless WAN antenna

<Only for model with wireless WAN>

### B: Wireless LAN antenna

<Only for model with wireless LAN>

→ *Reference Manual*  
"Wireless LAN"

### C: Bluetooth antenna

<Only for model with Bluetooth>

→ *Reference Manual*  
"Bluetooth"

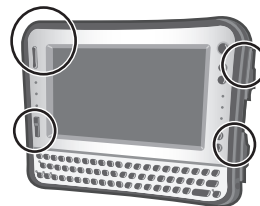
### D: GPS antenna

<Only for model with GPS>

Getting Started

## NOTE

- This computer contains a magnet and magnetic products at the locations circled in the illustration. The battery cover also has the magnet on the back side. Avoid leaving metallic object or magnetic media in contact with these areas.



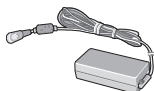
# Preparation

## ■ Confirmation

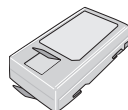
- ① Check and identify the supplied accessories.

If you do not find the described accessories, contact Panasonic Technical Support (→ page 54).

• **AC Adaptor** . . . . . 1      • **AC Cord** . . . . . 1      • **Battery Packs** . . . 2



Model No: CF-AA1633A



Model No: CF-VZSU53W

• **Stylus** . . . . . 1      • **Tether** . . . . . 1



• **Operating Instructions (This book)** . . . . . 1

• **Product Recovery DVD-ROM Windows Vista® Business SP1** . . . . . 1

**Windows XP**

• **Product Recovery DVD-ROM Windows XP Professional SP2** . . . . . 1

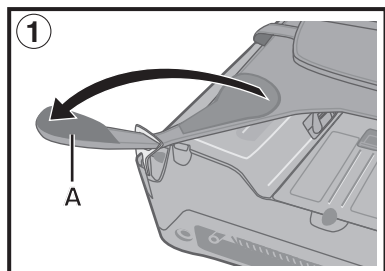
The stylus and tether has already been attached to the computer at the time of purchase.

- ② Read the LIMITED USE LICENSE AGREEMENT before breaking the seal on the computer's packaging (→ page 44).

## ■ Inserting the Battery Packs

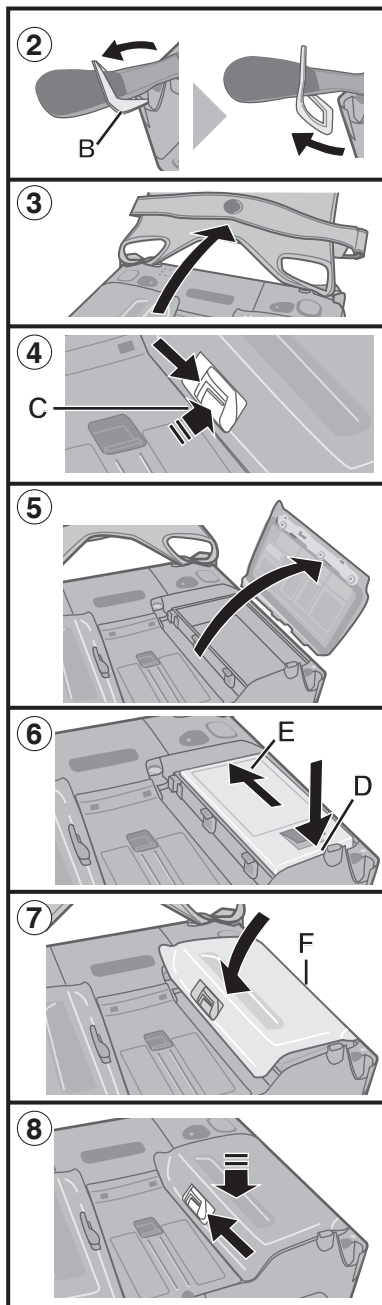
Insert the battery pack to 2 battery cases.

Place the computer on a soft cloth with the panel side down.



- ① Remove the edge (A) of hand strap passing through the clip. (The illustration shows the left side of hand strap as an example.)

# Preparation



② Tip the clip (B) front to pull it out of the computer. (Do the same for the right side of hand strap.)

③ Open up the whole hand strap.

④ Press and hold (C) and slide the latch to unlock the battery cover. (The illustration shows Battery 1 as an example.)

⑤ Remove the battery cover.

⑥ Insert the battery pack matching with (D) side.

Then, slide down the battery pack (E).

⑦ Attach the battery cover.

Insert the claw (F) of the cover matching the dent of computer, and press down the latch side of cover to close.

- Make sure the latch is on the "OPEN" side.

- If the cover does not close firmly, insert the claw again. If the problem persists, check if the battery is inserted properly.

⑧ Press and hold the battery cover and slide the latch to fix.

(Take the steps ④ to ⑧ for Battery 2 as well.)

⑨ Attach the hand strap back to the original form.

Take the steps ① and ② in the reverse order.

## CAUTION

- The computer does not operate without the battery cover attached.
- Make sure the latch is securely locked. Otherwise 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.

## About the battery for this computer

This computer uses 2 battery packs.

The battery is charged (→ page 24) and power is consumed only on either battery pack. Those operations switch to the other battery pack automatically.

- When the computer is connected to the Cradle (optional: CF-VEBU11U), the battery pack is charged when the AC adaptor is connected to the Cradle.
- With the battery charger (CF-VCBU11U) sold separately, you can remove the empty battery pack and charge it while using the computer.
- You can insert or remove the battery pack while the computer is ON. Be sure not to remove the battery pack being used by mistake. (Refer to  *Reference Manual* “Battery Power” )

### NOTE

- To conserve power, the following power saving methods are set at the time of purchase.

- The screen automatically turns off after 15 minutes of inactivity.

#### Windows Vista

- The computer automatically enters sleep<sup>\*1</sup> after 20 minutes of inactivity.

<sup>\*1</sup> Refer to  *Reference Manual* “Sleep and Hibernation Functions” about resuming from sleep.

#### Windows XP

- The computer automatically enters standby<sup>\*2</sup> after 20 minutes of inactivity.

<sup>\*2</sup> Refer to  *Reference Manual* “Standby and Hibernation Functions” about resuming from standby.

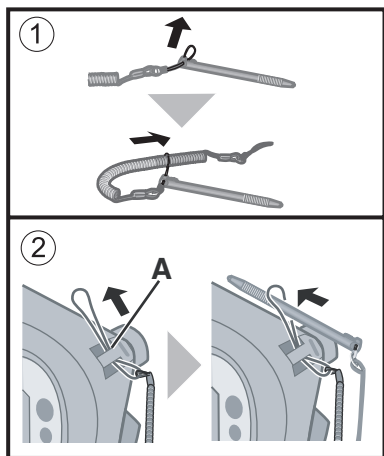
- Note that the computer consumes electricity even when the computer power is off. If the battery pack is fully charged, the battery will fully discharge in the following period of time:
  - When power is off: Approx. 7 weeks
  - In sleep ( **Windows Vista** ) / standby ( **Windows XP** ) : Approx. 2 days
  - In hibernation: Approx. 3 days
- 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.

Power consumption in each mode is as follows. (When AC adaptor is connected)

- When the screen is off: Approx. 6.7 W
- In sleep ( **Windows Vista** ) / standby ( **Windows XP** ) : Approx. 1 W
- The battery pack is fully charged (or not being charged) and the computer is off: Approx. 0.9 W

# Preparation

## ■ Attaching the stylus to the computer

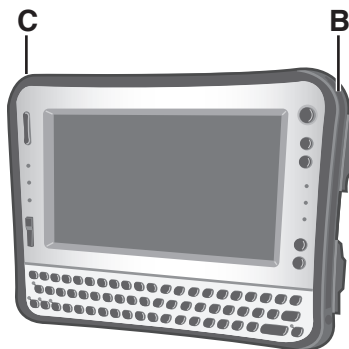


Getting Started

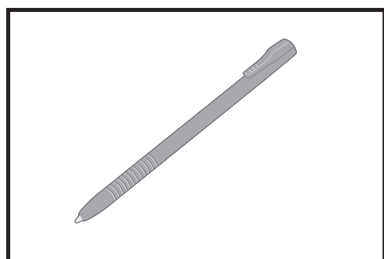
The stylus has already been attached to the computer at the time of purchase. Use the computer with the stylus attached not to lose it. If the stylus is removed for its position change or replacement, attach it according to the instruction below.

- ① Attach the tether to the stylus.
- ② Insert the tether to (A) of computer and pass the stylus to fix.

You can store the stylus at (B) or (C) of the computer.



## ■ Using the stylus



You can use the touchscreen function to perform the same operation as the mouse. Touch the screen surface with the stylus (included).

### To right-click

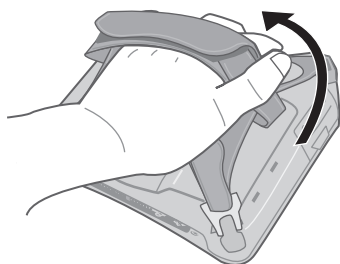
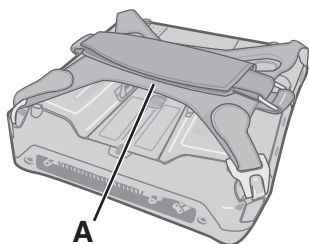
#### Windows Vista

Touch and hold with the stylus, or touch and select the right button of “touch pointer”.

#### Windows XP

- ① Click  on the notification area.
- ② Click the object you want to right-click.

## ■ Using the hand strap



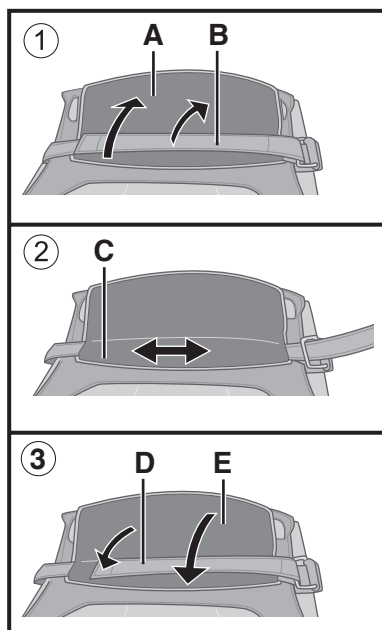
When using the computer holding with hand, insert your hand to (A) part of the hand strap. Fix the hand strap firmly so that the computer does not come off, and then turn it over.

- When the hand strap is too loose or too tight, you can adjust the hand strap according to the instructions below.

### CAUTION

- If the hand is not securely fixed to the hand strap, the computer may drop.

## ■ Adjusting the hand strap



Adjust the fastening strength of hand strap as below.

- ① Remove (A) from the strap joint and next remove (B).
- ② Adjust the position (C).
- ③ Attach (D), then (E) to the joint.  
Attach the hand strap firmly so that the strap does not come off.

### CAUTION

- If the hand strap loosens, the computer may fall down.
- Do not use the strap if it becomes worn or damaged.

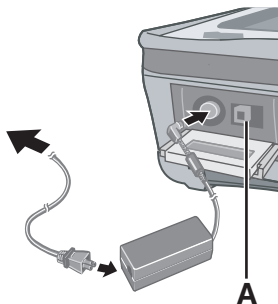
# First-time Operation

## ■ Setting up the computer

### NOTE

- Be sure the Wireless switch (A) is ON before setting. The computer may not be set properly if the switch is OFF.

Getting Started



### 1 Connect your computer to a power outlet.

The battery charging starts automatically. (→ page 21).

### CAUTION

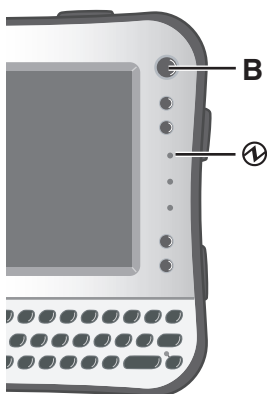
- Do not disconnect the AC adaptor until the “Setting up the computer” procedure is completed.
- When using the computer for the first time, do not connect any peripheral device except the battery pack and AC adaptor.
- **Handling the AC adaptor**
  - Problems such as sudden voltage drops may arise during 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.

### 2 Turn on the computer.

- ① Press the power switch (B).  
The power indicator  lights.

### CAUTION

- Do not press the power switch repeatedly.
- The computer will forcibly be turned off if you press and hold the power switch for 4 seconds or longer.
- Once you turn off the computer, wait for 10 seconds or more before you turn on the computer again.
- Do not perform the following operation until the flash memory drive indicator  turns off.
  - Connecting or disconnecting the AC adaptor
  - Pressing the power switch
  - Touching the keyboard, touchscreen or external



- mouse
  - Turn on/off the wireless switch
- 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 Panasonic Technical Support (➔ page 54).
- Any changes from the default setting of the Setup Utility must not be made until the “Setting up the computer” procedure is completed.

### 3 Setup Windows.

During setup of Windows, use the stylus to move the cursor and to click an item. (➔ page 22)

① Follow the on-screen instructions.

#### Windows Vista

- After turning on the computer, “Please wait while windows sets up your computer .....” appears, and then a small circle circulates on the screen. This will take a few minutes.
- Setup of Windows will take approximately 20 minutes. Go to the next step, confirming each message on the display.

#### CAUTION

#### Windows Vista

- You cannot choose the following words for user name and password: CON, PRN, AUX, CLOCK\$, NUL, COM1 to COM9, LPT1 to LPT9.
- 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.
- The wallpaper for the first logon user has already been set on “3 Setup Windows.” .  
When using this computer under the sun, the screen becomes easily viewable by changing the wallpaper to the white wallpaper.

# First-time Operation

- ① Right-click on the desktop, and click [Personalize] - [Background].
- ② Select [Solid Colors] at [Location].
- ③ Select the white wallpaper and click [OK].

## Windows XP

- When you set date/time/time zone and click [Next], the screen may not go to the next step for a few minutes. Do not touch the keyboard, and wait until the screen changes.
- If “An unexpected error has occurred...” (or a similar message) is displayed, click [OK]. This is not a malfunction.
- Wait until the flash memory drive indicator  has turned off.

## 4 Perform the touchscreen calibration.

### Windows Vista

At first, log on to Windows as an administrator, and perform this calibration.

- ① Click  (Start) - [Control Panel] - [Additional Options] - [Tablet Calibration].
- ② Using the stylus, touch each of the 9 “+” target marks one by one.

Perform the following calibration for each user.

- ① Click  (Start) - [Control Panel] - [Mobile PC] - [Tablet PC Settings].
- ② Click [Calibrate].
- ③ Using the stylus, touch each of the 4 “+” target marks one by one, and then click [OK].

### Windows XP

- ① Click [start] - [Control Panel] - [Other Control Panel Options] - [Touch Panel].
- ② Select [Calibration] in [Touch Panel Settings].
- ③ Select [9 point], [12 point] or [20 point] in [Accuracy required], and click [Apply].
- ④ Click [Calibrate Now] in [Calibration].
- ⑤ Using the stylus, touch each of the “+” target marks one by one until it blinks, and then press  (Enter).

- ⑥ Click [Update] in [Calibration].
- ⑦ Click [OK].

#### Windows XP

### 5 Create a new account.

- ① Click [start] - [Control Panel] - [User Accounts] - [Create a new account].

#### CAUTION

- Remember your password. If you forget the password, you cannot use the Windows operation system. Creating a password reset disk beforehand is recommended.

Getting Started

#### NOTE

#### ● PC Information Viewer

This computer periodically records the management information of the flash memory, etc. The maximum data volume for each record is 1024 bytes. This information is only used for estimating the cause when the flash memory 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].

(→  *Reference Manual* “Checking the Computer’s Usage Status”)

#### ■ Precaution against Starting Up/Shutting Down

- Do not do the following
  - Connecting or disconnecting the AC adaptor
  - Pressing the power switch
  - Touching the keyboard, touchscreen or external mouse
  - Turn on/off the wireless switch

#### Windows Vista

#### ■ To change the partition structure

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

- ① Click  (Start) and right-click [Computer], then click [Manage].
  - A standard user needs to enter an administrator password.

# First-time Operation

- 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.
- ⑤ 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.

# On-screen Manual

You can access the Reference Manual and the Important Tips on the computer screen. When you access the Reference Manual and the Important Tips for the first time, the License Agreement of the Adobe Reader may be displayed. Read it carefully and select [Accept] to proceed.

## ■ Reference Manual

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

### To access the Reference Manual:

#### Windows Vista

- ① Double-click  on the desktop.
  - Alternatively click  (Start) - [All Programs] - [Panasonic] - [On-Line Manuals] - [Reference Manual].

#### Windows XP

- ① Click [start] - [Reference Manual].

## ■ Important Tips

#### Windows Vista

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.

#### Windows XP

The Important Tips will provide you with the helpful information about the battery and touchscreen. Read to use the battery pack in the optimum condition to obtain longer operation time.

### To access the Important Tips:

#### Windows Vista

- ① Double-click  on the desktop.
  - Alternatively click  (Start) - [All Programs] - [Panasonic] - [On-Line Manuals] - [Important Tips].

#### Windows XP

- ① Double-click  on the desktop.
  - Alternatively click [start] - [All Programs] - [Panasonic] - [Battery] - [Important Tips] or click [start] - [All Programs] - [Panasonic] - [On-Line Manuals] - [Important Tips].

#### NOTE

- When Adobe Reader update notice is displayed, we recommend you follow the on-screen procedure and update.  
See <http://www.adobe.com/> for the latest version of Adobe Reader.

# Handling and Maintenance

## Operation environment

- 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, using for a long time in an extreme environment will result in the product deterioration and will shorten the product life.

- 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 flash memory 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 things and then close all terminal covers.
  - Do not drop or hit the computer against solid objects.
  - Do not grip the display part.
- When you board an airplane, take the computer with you and never put it in your checked luggage. When using the computer on airplane, follow the airline's instructions.
- When carrying a spare battery, put it in a plastic bag to protect its terminals.
- Be careful of computer drop resulting from the hand strap damage.
- Use only the included stylus to touch the screen. 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).
- Do not use the stylus when dust or dirt (e.g., oil) is on the screen. Otherwise foreign particles on the screen/stylus can scratch the screen surface or obstruct the stylus operation.
- Use the stylus only for touching the screen. Using it for any other purpose may damage the stylus and result in scratches on the screen.

### ■ 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

<Only for model with wireless LAN/Bluetooth/Wireless WAN>

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

### ■ Computrace® Software

Computrace® software tracks your stolen computer.

- Computrace® software is not included or installed in this computer.
- Consult Absolute Software Corp. before disposal.
- Refer to the following URL for Computrace® software for installation and available service regions. Note that this service is only available in certain regions.  
<http://www.absolute.com>

## Maintenance

Wipe with a soft dry cloth such as gauze.

### To clean areas other than the LCD panel

Wipe with a soft dry cloth such as gauze. When using detergent, dip a soft cloth in water-diluted detergent and wring it thoroughly.

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

# Reinstalling Software

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

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

## Preparation

- Prepare the following items:
  - The Product Recovery DVD-ROM (included)
    - Windows Vista**  
Product Recovery DVD-ROM Windows Vista® Business SP1
    - Windows XP**  
Product Recovery DVD-ROM Windows XP Professional SP2
  - Panasonic USB CD/DVD drive (optional) (refer to recent catalogs and other sources for information about the products available)
- Remove all peripherals (except for the CD/DVD drive).
- Connect the AC adaptor and do not remove it until reinstallation is complete.

- 1 Turn off the computer and connect the CD/DVD drive to the USB port (→ page 17).**
- 2 Turn on the computer, and press  $\overline{Fn} + \overline{U}$  (F2) or  $\overline{Fn} + \overline{\Delta}$  (Del) while [Panasonic] boot screen is displayed.**  
The Setup Utility starts up.
  - If the password is requested, enter the Supervisor Password.
- 3 Write down all of the contents of the Setup Utility and press  $\overline{Fn} + \overline{\square}$  (F9).**  
At the confirmation message, select [Yes] and press  $\overline{\Delta}$  (Enter).
- 4 Press  $\overline{Fn} + \overline{B}$  (F10).**  
At the confirmation message, select [Yes] and press  $\overline{\Delta}$  (Enter).  
The computer will restart.
- 5 Press  $\overline{Fn} + \overline{U}$  (F2) or  $\overline{Fn} + \overline{\Delta}$  (Del) while [Panasonic] boot screen is displayed.**  
The Setup Utility starts up.
  - If the password is requested, enter the Supervisor Password.
- 6 Set the Product Recovery DVD-ROM into the CD/DVD drive.**
- 7 Select the [Exit] menu, then select your CD/DVD drive in [Boot Override].**

**8 Press  (Enter).**

The computer will restart.

**Windows Vista**

**9 Click [Reinstall Windows] and click [Next].**

The License Agreement screen appears.

**10 Click [Yes, I agree to the provisions above and wish to continue!] and click [Next].**

**11 Select the settings and click [Next].**

- [Reinstall Windows to the whole Hard Disk to factory default.]  
You will have a single partition.
- [Reinstall Windows to the operating system partition.]  
You can keep the partition structure.

**12 At the confirmation message, click [YES].**

Reinstallation starts automatically. (It will take approximately 30 minutes.)

- Do not interrupt reinstallation, for example by turning off the computer or pressing **Ctrl**, **Alt** and **Fn** +  (Del). Otherwise reinstallation may become unavailable as Windows may not start up or the data may be corrupted.

**13 Remove the Product Recovery DVD-ROM, and then click [OK] to turn off the computer, then remove the CD/DVD drive.**

**14 Turn on the computer.**

- If the password is requested, enter the Supervisor Password.

**15 Perform the steps 3 and 4 for setting up the computer (→ pages 25 to 26).**

**16 Start the Setup Utility and change the settings as necessary.**

**17 Perform Windows Update.**

**Windows XP**

**9 Press  to execute [1. [Recovery]].**

The License Agreement screen appears.

- To cancel partway, press .

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

# Reinstalling Software

## 11 Select the settings.

- [2]: Enter the size of operating system partition and press Enter.  
(The size of data partition will be determined by subtracting the operating system partition size from the maximum size.)
- [3]: Windows will be installed in the first partition.  
(The size of the first partition must be XX GB or more. If smaller, installation will not be possible.)

At the confirmation message, press Y or 2.

Reinstallation starts automatically. (It will take approximately 30 - 75 minutes.)

- Do not interrupt reinstallation, for example by turning off the computer or pressing Ctrl, Alt and Fn + ← (Del). Otherwise reinstallation may become unavailable as Windows may not start up or the data may be corrupted.

## 12 Remove the Product Recovery DVD-ROM, and then press any key to turn off the computer.

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

## 13 Turn on the computer.

- If the password is requested, enter the Supervisor Password.

## 14 Perform the steps 3, 4 and 5 for setting up the computer (→ pages 25 to 27).

## 15 Start the Setup Utility and change the settings as necessary.

### Windows XP

## Installing Windows Vista

### NOTE

- This computer is provided the license of Microsoft® Windows Vista® Business (including a downgrade right to Microsoft® Windows® XP Professional).

Follow the steps below to install Windows Vista.

## 1 Reinstall Windows XP to the whole flash memory drive to factory default (→ page 32).

- 2 When the message [[Recovery] is complete.] appears, remove the Product Recovery DVD-ROM for Windows XP, and set the Product Recovery DVD-ROM for Windows Vista.**
- 3 Press any key to turn off the computer.**

If you turn off the computer without replacing the Product Recovery DVD-ROM or performing setting up the computer for Windows XP, refer to step 1-6 "Reinstalling Software" (→ page 32), and boot the computer from the Product Recovery DVD-ROM for Windows Vista.
- 4 Turn on the computer.**
- 5 Perform the reinstallation for Windows Vista from step 7 (→ page 32).**
  - Select [Reinstall Windows to the whole Hard Disk to factory default.] in the step 11 (→ page 33).

---

**NOTE**

- The information about Windows Vista on the Panasonic personal computer Visit the following web site:  
<https://eww.pavc.panasonic.co.jp/pc/itn/support/vistaxpdwg1.html>
-

# 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 (→ page 54). You can also check the computer’s status in the PC Information Viewer (→  *Reference Manual* “Checking the Computer’s Usage Status”).

## ■ Starting Up

|                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cannot start up.<br>The power indicator or battery indicator is not lit.                                                                                                           | <ul style="list-style-type: none"> <li>● Connect the AC adaptor.</li> <li>● Insert a fully charged battery.</li> <li>● Remove the battery pack and the AC adaptor, then connect them again.</li> <li>● If a device is connected to the USB port, disconnect the device, or set [Legacy USB Support] to [Disabled] in the [Advanced] menu of the Setup Utility. (→  <i>Reference Manual</i> “Setup Utility”)</li> </ul>                                                            |
| Cannot turn on the computer.<br>The computer does not resume from sleep ( <b>Windows Vista</b> ) /standby ( <b>Windows XP</b> ).<br>(The power indicator blinks quickly in green.) | <ul style="list-style-type: none"> <li>● Leave it in an environment of 5 °C {41 °F} or higher temperature for about an hour, then turn on the power again.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                               |
| You have forgotten the password.                                                                                                                                                   | <ul style="list-style-type: none"> <li>● Supervisor Password or User Password: Contact Panasonic Technical Support (→ page 54).</li> <li>● Administrator password:               <ul style="list-style-type: none"> <li>• If you have a password reset disk, you can reset the administrator password. Set the disk and enter any wrong password, then follow the on-screen instructions and set a new password.</li> <li>• If you do not have a password reset disk, reinstall (→ page 32) and set up Windows, and then set a new password.</li> </ul> </li> </ul> |

## ■ Starting Up

|                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>“Remove disks or other media. Press any key to restart” or a similar message appears.</p> | <ul style="list-style-type: none"> <li>● A floppy disk is in the drive and it does not contain system startup information. Remove the floppy disk and press any key.</li> <li>● If a device is connected to the USB port, disconnect the device, or set [Legacy USB Support] to [Disabled] in the [Advanced] menu of the Setup Utility. (→  <i>Reference Manual</i> “Setup Utility”)</li> <li>● If the problem persists after having tried the above solutions, it may be a flash memory failure. Contact Panasonic Technical Support (→ page 54).</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <p>Windows startup and operation is slow.</p>                                                | <ul style="list-style-type: none"> <li>● Press <b>Fn</b> + <b>F9</b> (F9) in the Setup Utility (→  <i>Reference Manual</i> “Setup Utility”) to return the Setup Utility settings (excluding the passwords) to the default values. Start the Setup Utility and make the settings again. (Note that the processing speed depends on the application software, so this procedure may not make Windows faster.)</li> <li>● If you installed a resident software after purchase, turn off the residence.</li> </ul> <p><b>Windows Vista</b></p> <ul style="list-style-type: none"> <li>● Disable the pop-up menu and Input Panel Tab.             <ol style="list-style-type: none"> <li>① Open the Input Panel, and click [Tools] - [Options] - [Opening].</li> <li>② Remove the check mark of [Show the Input Panel tab] and click [OK].</li> </ol> </li> </ul> <p><b>Windows XP</b></p> <ul style="list-style-type: none"> <li>● Disable Indexing Service in the following menu. Click [start] - [Search] - [Change preferences] - [With Indexing Service (for faster local service)].</li> </ul> |

# Troubleshooting (Basic)

## ■ Starting Up

|                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>The date and time are incorrect.</p>                                                                                              | <ul style="list-style-type: none"> <li>● Make the correct settings.                             <div> <b>Windows Vista</b><br/> Click  (Start) - [Control Panel] - [Clock, Language, and Region] - [Date and Time]. </div> <div> <b>Windows XP</b><br/> Click [start] - [Control Panel] - [Date, Time, Language, and Regional Options] - [Date and Time]. </div> </li> <li>● If the problem persists, the internal clock battery may need to be replaced. Contact Panasonic Technical Support (→ page 54).</li> <li>● When the computer is connected to LAN, check the date and time of the server.</li> <li>● The 2100 A.D. or later year will not be correctly recognized on this computer.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <p>[Executing Battery Recalibration] screen appears.</p>                                                                             | <ul style="list-style-type: none"> <li>● 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.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <p>[Enter Password] does not appear when resuming from sleep (<b>Windows Vista</b>) /standby (<b>Windows XP</b>) or hibernation.</p> | <div> <b>Windows Vista</b> </div> <ul style="list-style-type: none"> <li>● The password you have set in the Setup Utility is not requested at resuming. To use the password security at resuming, set the Windows password.                             <ol style="list-style-type: none"> <li>① Click  (Start) - [Control Panel] - [Add or remove user accounts] and select the account, and set the password.</li> <li>② Click  (Start) - [Control Panel] - [System and Maintenance] - [Require a password when the computer wakes] and add a check mark for [Require a password].</li> </ol> </li> </ul> <div> <b>Windows XP</b> </div> <ul style="list-style-type: none"> <li>● Set the Windows password. The password you have set in the Setup Utility is not requested at resuming.                             <ol style="list-style-type: none"> <li>① Click [start] - [Control Panel] - [User Accounts] and select the account, and set the password.</li> <li>② Click [start] - [Control Panel] - [Performance and Maintenance] - [Power Options] - [Advanced] and add a check mark for [Prompt for password when computer resumes from standby].</li> </ol> </li> </ul> |

## ■ Starting Up

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cannot resume.          | <ul style="list-style-type: none"> <li>● An error may occur when the computer automatically enters the sleep (<b>Windows Vista</b>) / standby (<b>Windows XP</b>) or hibernation mode while the screensaver is active. In this case, turn off the screensaver or change the pattern of the screensaver.</li> <li>● If you press and hold the power switch for 4 seconds or longer, the power will be turned off forcibly and the computer will not resume. In this case, all unsaved data will be lost.</li> <li>● You disconnected the AC adaptor and the battery pack while the computer was in sleep (<b>Windows Vista</b>) / standby (<b>Windows XP</b>). If the computer's power supply is disconnected in sleep (<b>Windows Vista</b>) / standby (<b>Windows XP</b>), unsaved data will be lost and the computer will not resume.</li> <li>● The battery is exhausted. Sleep (<b>Windows Vista</b>) / standby (<b>Windows XP</b>) and hibernation consume some power.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Other startup problems. | <ul style="list-style-type: none"> <li>● Press <b>Fn</b> + <b>F9</b> (F9) in the Setup Utility (➔  <i>Reference Manual</i> "Setup Utility") to return the Setup Utility settings (excluding the passwords) to the default values. Start the Setup Utility and make the settings again.</li> <li>● Remove all peripheral devices.</li> <li>● Check to see if there was a disk error. <ul style="list-style-type: none"> <li><b>Windows Vista</b> <ol style="list-style-type: none"> <li>① Remove all peripheral devices including an external display.</li> <li>② Click  (Start) - [Computer] and right-click [Local Disk (C:)], and click [Properties].</li> <li>③ Click [Tools] - [Check Now]. <ul style="list-style-type: none"> <li>• A standard user needs to enter an administrator password.</li> </ul> </li> <li>④ Select the option in [Check disk options] and click [Start].</li> <li>⑤ Click [Schedule disk check] and restart the computer.</li> </ol> </li> <li><b>Windows XP</b> <ol style="list-style-type: none"> <li>① Click [start] - [My Computer] and right-click [Local Disk(C:)], and click [Properties].</li> <li>② Click [Tools] - [Check Now].</li> <li>③ Select the option in [Check disk options] and click [Start].</li> </ol> </li> </ul> </li> </ul> |

# Troubleshooting (Basic)

## ■ Starting Up

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Other startup problems.<br>(continued) | <ul style="list-style-type: none"> <li>Start the computer in Safe Mode and check the error details. When the [Panasonic] boot screen disappears*1 at startup, press and hold <b>Fn</b> + <b>F8</b> (F8) until the Windows Advanced Options Menu is displayed.</li> </ul> <p>*1 When [Password on boot] is set to [Enabled] in the [Security] menu of the Setup Utility, [Enter Password] appears after the [Panasonic] boot screen disappears. As soon as you enter the password and press <b>Enter</b> (Enter), press and hold <b>Fn</b> + <b>F8</b> (F8).</p> |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## ■ Shutting down

|                             |                                                                                                                                     |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Windows does not shut down. | <ul style="list-style-type: none"> <li>Remove the USB device.</li> <li>Wait one or two minutes. It is not a malfunction.</li> </ul> |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------|

## ■ Display

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No display.         | <ul style="list-style-type: none"> <li>The external display is selected. Press <b>Fn</b> + <b>F8</b> (□/□) to switch the display. Wait until the display has been switched completely before pressing <b>Fn</b> + <b>F8</b> (□/□) again.</li> <li>When using an external display, <ul style="list-style-type: none"> <li>Check the cable connection.</li> <li>Turn on the display.</li> <li>Check the settings of external display.</li> </ul> </li> <li>The display is turned off by the power-saving function. To resume, do not press the direct selection keys, but press any other key like <b>Ctrl</b>.</li> <li>The computer entered sleep (<b>Windows Vista</b>) / standby (<b>Windows XP</b>) or hibernation by the power-saving function. To resume, press the power switch.</li> </ul> <p><b>Windows XP</b></p> <ul style="list-style-type: none"> <li>The screen may not be displayed even after the computer resumed from standby or hibernation. In this case, press <b>Fn</b> + <b>F7</b> (zzz) to enter standby and resume the computer again.</li> </ul> |
| The screen is dark. | <ul style="list-style-type: none"> <li>The screen is darker when the AC adaptor is not connected. Press <b>Fn</b> + <b>F5</b> (☀▲) and adjust the brightness. As you increase the brightness, battery consumption increases. You can separately set the brightness for when the AC adaptor is connected and when not connected.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## ■ Display

|                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Windows XP</b><br>The LCD brightness changes a number of times when the AC adaptor is disconnected. | <ul style="list-style-type: none"> <li>● Intel(R) Display Power Saving Technology is active and automatically changes the LCD brightness. This is not a malfunction.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| The screen is disordered.                                                                              | <ul style="list-style-type: none"> <li>● Changing the number of display colors and resolution may affect the screen. Restart the computer.</li> <li>● Connecting/disconnecting an external display may affect the screen. Restart the computer.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                             |
| During Simultaneous display, one of the screens becomes disordered.                                    | <ul style="list-style-type: none"> <li>● Simultaneous display cannot be used until Windows startup is complete (during Setup Utility, etc.).</li> </ul> <b>Windows Vista</b> <ul style="list-style-type: none"> <li>● When using the Extended Desktop, use the same display colors for the external display as those used by the LCD.</li> <li>● If you continue to experience problems, try changing the display.<br/>Right-click on the desktop, and click [Graphics Properties] - [Display Devices].</li> </ul> <b>Windows XP</b> <ul style="list-style-type: none"> <li>● If the [Command Prompt] is displayed in full-screen, reduce the display size.</li> </ul> |
| The external display does not work normally.                                                           | <ul style="list-style-type: none"> <li>● 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.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                        |

# Troubleshooting (Basic)

## ■ Display

### Windows Vista

<Only for model with GPS>

The cursor cannot be controlled properly.

- Operate the following steps.
  - ① Set [GPS] to [Disabled] in the [Advanced - Serial Port Configuration] of the Setup Utility.
  - ② Press **Fn** + **B** (F10) and select [Yes] at the confirmation message, and press **↵** (Enter).  
The computer will restart.
  - ③ Log on to Windows as an administrator.
  - ④ Click  (Start) and input "c:\util\drivers\gps\GPSVista.reg" in [Start Search], and press **↵** (Enter).
  - ⑤ Click [Yes] and click [OK].  
The computer will restart.
  - ⑥ Press **Fn** + **U** (F2) while [Panasonic] boot screen is displayed.
  - ⑦ Set [GPS] to [Enabled] in the [Advanced - Serial Port Configuration].
  - ⑧ Press **Fn** + **B** (F10) and select [Yes] at the confirmation message, and press **↵** (Enter).

## ■ Touchscreen

The cursor does not work.

- When using the external mouse, connect it correctly.
- Restart the computer using the keyboard.

### Windows Vista

Press **⌘** (Windows) and press **→** three times, and press **↑** to select [Restart] and press **↵** (Enter).

### Windows XP

Press **⌘** (Windows), **U** and **R** to select [Restart].

- If the computer does not respond to keyboard commands, read "No response." (→ page 43).

Cannot input using the touchscreen.

- Set [Touchscreen Mode] to [Auto] or [Tablet] in the [Main] menu of the Setup Utility.

Cannot point the correct position using the included stylus.

- Perform the touchscreen calibration (→ pages 26).

## ■ Reference Manual

The Reference Manual is not displayed.

- Install Adobe Reader.
  - ① Log on to Windows as an administrator.
  - ② **Windows Vista**  
Click  (Start) and input "c:\util\reader\setup.exe" in [Start Search] then press  (Enter).
  - Windows XP**  
Click [start] - [Run], input "c:\util\reader\setup.exe", then click [OK].  
Follow the on-screen instructions.
  - 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 Ctr~~i~~, Sh~~i~~ft, Fn and Tab (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 4 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:
  - Windows Vista**  
Click  (Start) - [Control Panel] - [Uninstall a program].
  - Windows XP**  
Click [start] - [Control Panel] - [Add or Remove Programs].

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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 flash memory disk drive (HDD) size:  
Run the Setup Utility (→  *Reference Manual* “Setup Utility”) and select [Information] menu.  
[Processor Speed]: CPU speed, [Memory Size]: Memory size, [Hard Disk]: Flash memory drive size

## ■ Main Specifications

| Model No.                      |                                  | CF-U1AQBXZJM                                                                                                                                                                                                                               | CF-U1AQBXZAM |
|--------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| CPU/<br>Secondary cache memory |                                  | Intel® Atom™ Processor Z530 (1.60 GHz, 512 KB <sup>1</sup> cache, 533 MHz FSB)                                                                                                                                                             |              |
| Chipset                        |                                  | Intel® System Controller Hub                                                                                                                                                                                                               |              |
| Main Memory <sup>2</sup>       |                                  | 2GB <sup>1</sup> DDR2 SDRAM (2 GB <sup>1</sup> Max.)                                                                                                                                                                                       |              |
| Video Memory                   |                                  | 256 MB <sup>1</sup> Max. <sup>3</sup>                                                                                                                                                                                                      |              |
| Flash Memory Drive             |                                  | 32GB <sup>4</sup>                                                                                                                                                                                                                          |              |
| Display Method                 |                                  | 5.6 WSVGA type (TFT) (1024 × 600 dots)                                                                                                                                                                                                     |              |
| Internal LCD                   |                                  | 65,536/16,777,216 colors (800 × 600 dots/1024 × 600 dots/1024 × 768 dots) <sup>5</sup>                                                                                                                                                     |              |
| Wireless LAN                   |                                  | Intel® WiFi Link 5100 (→ page 50 “Wireless LAN”)                                                                                                                                                                                           |              |
| Bluetooth™                     |                                  | (→ page 50 “Bluetooth™”)                                                                                                                                                                                                                   |              |
| Sound                          |                                  | WAVE and MIDI playback, Monaural speaker, Intel® High Definition Audio subsystem support                                                                                                                                                   |              |
| Card Slot                      | SD Memory Card Slot <sup>6</sup> | x 1                                                                                                                                                                                                                                        |              |
| Interface                      |                                  | USB port (4-pin, USB 2.0) <sup>7</sup> x 1, Microphone Jack (Miniature jack, 3.5 DIA, Stereo), Headphone Jack (Miniature jack, 3.5 DIA, Impedance 32 Ω, Output Power 4 mW x 2, Stereo), Expansion Bus Connector (Dedicated 19-pin female), |              |
| Keyboard / Pointing Device     |                                  | 61 keys US or UK English Mini Qwerty Keyboard / Touchscreen                                                                                                                                                                                |              |
| Button                         |                                  | Scroll (up/down), Zoom (up/down) Application× 4                                                                                                                                                                                            |              |
| Power Supply                   |                                  | AC adaptor or Battery pack                                                                                                                                                                                                                 |              |
| AC Adaptor <sup>8</sup>        |                                  | Input: 100 V to 240 V AC, 50 Hz/60 Hz, Output: 16.0 V DC, 3.75 A                                                                                                                                                                           |              |

## ■ Main Specifications

| Model No                                                      | CF-U1AQBZXJM                                                                                | CF-U1AQBZXAM     |
|---------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------------|
| Battery Pack                                                  | Li-ion 7.2 V, 2900 mAh x 2 packs                                                            |                  |
| Operating Time <sup>*9</sup>                                  | Approx. 9 hours                                                                             |                  |
| Charging Time <sup>*10</sup>                                  | Power on                                                                                    | Approx. 10 hours |
|                                                               | Power off                                                                                   | Approx. 7 hours  |
| Clock Battery                                                 | Coin type lithium battery 3.0 V                                                             |                  |
| Power Consumption <sup>*11</sup>                              | Approx. 12 W <sup>*12</sup> / Approx. 20 W (Maximum when re-charging in the ON state)       |                  |
| Physical Dimensions (W × D × H)<br>(excluding the hand strap) | 184 mm × 151 mm × 57 mm {7.24" × 5.94" × 2.24"}                                             |                  |
| Weight<br>(including the hand strap)                          | Approx. 1.06 kg {Approx. 2.34 lb.}                                                          |                  |
| Operation Environment                                         | Temperature: 5 °C to 35 °C {41 °F to 95 °F}<br>Humidity: 30% to 80% RH (No condensation)    |                  |
| Storage Environment                                           | Temperature: -20 °C to 60 °C {-4 °F to 140 °F}<br>Humidity: 30% to 90% RH (No condensation) |                  |

## ■ Software

| Model No                        | CF-U1AQBZXJM                                                                                                                                                                                                                                                       | CF-U1AQBZXAM                                                                           |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Operating System <sup>*13</sup> | Windows Vista® Business Service Pack 1                                                                                                                                                                                                                             | Microsoft® Windows® XP Professional Service Pack 2 with Advanced Security Technologies |
| Utility Programs                | Adobe Reader 8, PC Information Viewer, Full Screen Zoom, Keyboard Button Manager, Intel® PROSet/Wireless WiFi Connection Utility, Bluetooth™ Stack for Windows® by TOSHIBA, Wireless Switch Utility, Hotkey Settings, Battery Recalibration Utility, Setup Utility |                                                                                        |

# Specifications

## ■ Wireless LAN <Only for model with wireless LAN>

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Data Transfer Rates    | IEEE802.11a: 54/48/36/24/18/12/9/6 Mbps (automatically switched) <sup>*14</sup><br>IEEE802.11b: 11/5.5/2/1 Mbps (automatically switched) <sup>*14</sup><br>IEEE802.11g: 54/48/36/24/18/12/9/6 Mbps (automatically switched) <sup>*14</sup><br>IEEE802.11n:<br>(HT20) 144.4/130/117/115.6/104/86.7/78/65/58.5/57.8/52/43.3/39/28.9/26/19.5/14.4/13/6.5 Mbps (automatically switched) <sup>*14</sup><br>(HT40) 300/270/243/240/216/180/162/130/120/117/108/104/90/81/78/60/54/52/39/30/27/26/13 Mbps (automatically switched) <sup>*14</sup> |
| Standards Supported    | IEEE802.11a/IEEE802.11b/IEEE802.11g/IEEE802.11n (Draft 2.0)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Transmission method    | OFDM system, DS-SS system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Wireless Channels Used | IEEE802.11a: Channels 36/40/44/48/52/56/60/64/100/104/108/112/116/132/136/140/149/153/157/161/165<br>IEEE802.11b/IEEE802.11g: Channels 1-11<br>IEEE802.11n: Channels 1-11 /36/40/44/48/52/56/60/64/100/104/108/112/116/132/136/140/149/153/157/161/165                                                                                                                                                                                                                                                                                     |
| RF Frequency Band      | IEEE802.11a: 5.18 GHz - 5.32 GHz, 5.5 GHz - 5.58 GHz, 5.66 GHz - 5.7 GHz, 5.745 GHz - 5.825 GHz<br>IEEE802.11b/IEEE802.11g: 2.412 GHz - 2.462 GHz<br>IEEE802.11n: 2.412 GHz - 2.462 GHz, 5.15 GHz - 5.35 GHz, 5.5 GHz - 5.58 GHz, 5.66 GHz - 5.7 GHz, 5.745 GHz - 5.825 GHz                                                                                                                                                                                                                                                                |

## ■ Bluetooth™ <Only for model with Bluetooth>

|                        |                     |
|------------------------|---------------------|
| Bluetooth Version      | 2.1 + EDR           |
| Transmission method    | FHSS system         |
| Wireless Channels Used | Channels 1 to 79    |
| RF Frequency Band      | 2.402GHz - 2.48 GHz |

<sup>\*1</sup> 1 KB = 1,024 bytes / 1 MB = 1,048,576 bytes / 1 GB = 1,073,741,824 bytes

<sup>\*2</sup> You can physically expand the memory up to 4 GB, but the total amount of usable memory available will be less depending on the actual system configuration.

<sup>\*3</sup> A segment of the main memory is allotted automatically depending on the computer's operating status. The size of the Video Memory cannot be set by the user. The size of Video memory is allotted depending on the operating system.

<sup>\*4</sup> 1 GB = 1,000,000,000 bytes. Your operating system or some application software will report as fewer GB.

<sup>\*5</sup> A 16,777,216 color display is achieved by using the dithering function.

- 
- <sup>6</sup> This slot is compatible with High-Speed Mode. Operation has been tested and confirmed using Panasonic SD/SDHC Memory Cards with a capacity of up to 8 GB. Operation on other SD equipment is not guaranteed.
- <sup>\*7</sup> Does not guarantee operation of all USB-compatible peripherals.
- <sup>\*8</sup> <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-2-1
- <sup>\*9</sup> Measured at (LCD brightness: 60 cd/m<sup>2</sup>)  
Varies depending on the usage conditions, or when an external device is attached.
- <sup>\*10</sup> Varies depending on the usage conditions.
- <sup>\*11</sup> Approx. 0.9 W when the battery pack is fully charged (or not being charged) and the computer is OFF.
- <sup>\*12</sup> Rated power consumption 23-E-1
- <sup>\*13</sup> Operations of this computer are not guaranteed except for the pre-installed OS and the OS which is installed by using the Product Recovery DVD-ROM provided by Panasonic.
- <sup>\*14</sup> These are speeds specified in IEEE802.11a+b+g+n standards. Actual speeds may differ.

# LIMITED WARRANTY

## For U.S.A.

### Panasonic Computer Solutions Company - Worldwide Product Warranties

#### **Section 1 - Limited Warranty - Hardware**

Panasonic Computer Solutions Company (referred to as “Panasonic”) will repair the products listed below with new or rebuilt parts, free of charge in the U.S.A. or other Panasonic approved 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 Computers – 3 Years
- PDRC - LCD and Keyboard Assemblies – 3 Years
- MDWD – Mobile Computer and Wireless Display Assemblies (CF-07/CF-08) - 3 Years
- Hand-held Computers (CF-P1/CF-P2) – 1 Year
- Arbitrator Video Camera – 1 Year
- Arbitrator Recorder Unit – 1 Year
- Arbitrator Remote Control Panel – 1 Year
- Arbitrator Wireless Receiver Unit – 1 Year
- Arbitrator P2 Card(s) (All Sizes) – 1 Year
- Arbitrator Wireless Microphone(s) / Transmitter – 90 Days
- Arbitrator System Component Interconnect Cables – 90 Days

#### **Main Battery**

The battery supplied with the product is 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 battery furnished under the warranty is covered for the remaining period of the one year warranty on the original or purchased battery.

#### **Options and Accessories**

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 Card (Panasonic Brand) – 3 Years
- Car Mount Docking Station PCB or Complete Vehicle Docking Station – 3 Years
- Port Replicator / I-O Box / Device Cradle (like CF-08) – 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 WAN, Media Bay Drives (Floppy, CD/DVD), GPS, Bluetooth, Smartcard Reader, and Fingerprint readers – 3 Years or assumes warranty period of the unit in which it is installed provided the integration was performed by Panasonic or an Authorized Options Integrator.
- Hard Drive (separately purchased) – 1 Year
- External USB Drives (CD / DVD / Floppy / Hard Drive) – 1 Year
- Optional Battery – 1 Year
- Battery Charger – 1 Year
- Standard or Digitizer Stylus Pens – 90 Days (physical damage excluded)

## **Section 2 - Limited Warranty - Software**

Panasonic Computer Solutions Company (referred to as “Panasonic”) warrants to you only that the disk(s) or other media on which the Programs are furnished will be free from defects in 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. The customer is responsible for ensuring that all data is backed up and made secure during normal use and before sending a unit for service.

## **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 image, software setup, software program, virus, other program(s) or file(s) on the hard 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
- 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

# LIMITED WARRANTY

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 integration by any company other than Panasonic Configuration and Integration Centers.
- 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 warranty only covers failures due to defects in materials or workmanship which occur during normal use.

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<sup>\*1</sup>. PANASONIC WILL NOT BE RESPONSIBLE FOR ANY LIABILITY RESULTING FROM THE USE OF THIS PRODUCT ARISING OUT OF THE FOREGOING USES.

<sup>\*1</sup> 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

**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 24 hours hotline at 1-800-LAPTOP5.

DIAL TOLL FREE: 1-800-LAPTOP5 (1-800-527-8675)  
Web Site : [www.panasonic.com/toughbook](http://www.panasonic.com/toughbook)

## For Canada

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

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

| Scope of Coverage                                                                                                                                                                                                                                                                                                                                                               | Period of Coverage                                                | Type of Failure Coverage           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------|
| <ul style="list-style-type: none"> <li>Laptop Computers (except Battery) and AC Adaptor</li> <li>Factory/PCI installed options including Wireless WAN, GPS, Bluetooth, Fingerprint reader, Backlit keyboard, Memory Card and Media Bay Drives (Floppy, CD/DVD)</li> <li>Mobile Wireless Display</li> <li>PDRC – LCD and Keyboard Assemblies</li> <li>Port Replicator</li> </ul> | Three (3) Years from Date of Original End User Customer Purchase  | Defective Materials or Workmanship |
| <ul style="list-style-type: none"> <li>Hand-held Computers</li> <li>Battery</li> <li>Battery charger</li> <li>Auto Adaptor</li> <li>External USB Drives</li> </ul>                                                                                                                                                                                                              | One (1) Year from Date of Original End User Customer Purchase     | Defective Materials or Workmanship |
| <ul style="list-style-type: none"> <li>Standard or Digitizer Stylus Pen</li> </ul>                                                                                                                                                                                                                                                                                              | Ninety (90) Days from Date of Original End User Customer Purchase | Defective Materials or Workmanship |
| <ul style="list-style-type: none"> <li>All consumable items including protection film, cleaning cloth, carry case, tether and harness</li> </ul>                                                                                                                                                                                                                                | 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<sup>2</sup>. PANASONIC WILL NOT BE RESPONSIBLE FOR ANY LIABILITY RESULTING FROM THE USE OF THIS PRODUCT ARISING OUT OF THE FOREGOING USES.

# LIMITED WARRANTY

- <sup>2</sup> 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

**Coverage** – 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.

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

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

## GENERAL

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

NO LIABILITY FOR CONSEQUENTIAL DAMAGES – IN NO EVENT SHALL PCI BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES ARISING FROM ANY BREACH OF THE LIMITED WARRANTIES SET OUT IN THIS DOCUMENT, OR FROM THE USE OF THE COMPUTER PRODUCT, INCLUDING, WITHOUT LIMITATION, LOSS OF DATA, BUSINESS, PROFIT OR GOODWILL. IN ANY EVENT, PCI'S MAXIMUM LIABILITY FOR ANY BREACH SHALL NOT EXCEED THE AMOUNT ACTUALLY PAID BY YOU FOR THE COMPUTER PRODUCT. NO ACTION, REGARDLESS OF ITS BASIS, MAY BE BEGUN AGAINST PCI MORE THAN TWO (2) YEARS AFTER THE CAUSE OF ACTION AROSE.

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

# GARANTIE LIMITÉE

## Pour le Canada

### **GARANTIE LIMITÉE – ORDINATEURS ET PÉRIPHÉRIQUES PANASONIC**

**Couverture** – 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                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------|
| <ul style="list-style-type: none"><li>• Ordinateurs blocs-notes (sauf batteries) et adaptateur secteur</li><li>• 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)</li><li>• Écran mobile sans fil</li><li>• Ensembles PDRC – ACL et clavier</li><li>• Duplicateur de port</li></ul> | Trois (3) ans à partir de la date d'achat original.               | Défauts de pièces et de fabrication |
| <ul style="list-style-type: none"><li>• Ordinateurs de poche</li><li>• Batterie</li><li>• Chargeur de batterie</li><li>• Adaptateur pour voiture</li><li>• Périphériques USB</li></ul>                                                                                                                                                                                                                               | Un (1) an à partir de la date d'achat original.                   | Défauts de pièces et de fabrication |
| <ul style="list-style-type: none"><li>• Stylo pointe standard ou pour numériseur graphique</li></ul>                                                                                                                                                                                                                                                                                                                 | Quatre-vingt-dix (90) jours à partir de la date d'achat original. | Défauts de pièces et de fabrication |
| <ul style="list-style-type: none"><li>• Tous les articles consommables incluant les pellicules protectrices, chiffons de nettoyage, étuis de transport, langes et sangles</li></ul>                                                                                                                                                                                                                                  | 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

# GARANTIE LIMITÉE

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 DU TRAFFIC AÉRIEN OU SYSTÈME/ÉQUIPEMENT DE POSTE DE PILOTAGE D'AVION<sup>3</sup>. PANASONIC DÉCLINE TOUTE RESPONSABILITÉ CONCERNANT L'UTILISATION DE CE PRODUIT DANS LES CAS SUSMENTIONNÉS.

<sup>3</sup> 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 feuillet n° 36 JAA: JAA TGL (Temporary Guidance Leaflets) No 36.

## EXPÉDITION DU PRODUIT POUR SERVICE SOUS GARANTIE

Emballer 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.

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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.

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