

Panasonic[®]

OPERATING INSTRUCTIONS

Personal Computer

Model No. **UT-MB5000** series

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Read Me First

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Getting Started

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Troubleshooting

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Appendix

Safety Precautions

To reduce the risk of injury, loss of life, electric shock, fire, malfunction, and damage to equipment or property, always observe the following safety precautions.

Explanation of symbol word panels

The following symbol word panels are used to classify and describe the level of hazard, injury, and property damage caused when the denotation is disregarded and improper use is performed.

DANGER

Denotes a potential hazard that will result in serious injury or death.

WARNING

Denotes a potential hazard that could result in serious injury or death.


CAUTION


Denotes a hazard that could result in minor injury.

NOTICE

Denotes a hazard that could result in property damage.

The following symbols are used to classify and describe the type of instructions to be observed.

 This symbol is used to alert users to a specific operating procedure that must not be performed.

 This symbol is used to alert users to a specific operating procedure that must be followed in order to operate the unit safely.



DANGER

Precautions on the Built-in Battery
(for disposal)

When disposing the battery, generation of heat, ignition or rupture of the Built-in Battery may result.



Handling This Computer

- Do Not Disassemble the Computer Except When Disposing

Handling the Built-in Battery

- Do Not Short the Positive (+) and Negative (-) Contacts
- Do Not Throw the Battery into a Fire or Expose It to Excessive Heat
- Do Not Apply Shocks to the Built-in Battery by Dropping It, Applying Strong Pressure to It, etc.
- Do Not Charge
- Do Not Use with Any Other Product
- Do Not Insert Sharp Objects Into the Battery, Disassemble, or Modify It



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



WARNING

Generation of heat, ignition or rupture of the Built-in Battery may result.



- Do Not Throw This Product Into a Fire or Expose It to Excessive Heat

- Do Not Insert Sharp Objects Into This Product, Disassemble, or Modify It

- Do Not Apply Shocks to the Product by Dropping It, Applying Strong Pressure to It, etc.

- Do Not Charge the Battery Using Methods Other Than Those Specified



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

- When the Battery Has Deteriorated, Contact Your Technical Support Office to Replace the Battery

WARNING

Fire or electric shock may result.



- **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.
 - ⇒ Do not continue to use a damaged AC cord, AC plug and AC adaptor.
 - Contact your technical support office for repair.
- **Do Not Connect the AC Adaptor to a Power Source Other Than a Standard Household AC Outlet**
 - ⇒ Connecting to a DC/AC converter (inverter) may damage the AC adaptor. On an airplane, only connect the AC adaptor/charger to an AC outlet specifically approved for such use.
- **Do Not Pull or Insert the AC Plug If Your Hands Are Wet**
- **Do Not Disassemble This Product**
- **Do Not Touch This Product In a Thunderstorm If Connected with the AC Cable or Any Other Cables**
- **Do Not Place Containers of Liquid or Metal Objects on Top of This Product**
 - ⇒ If foreign matter has found its way inside, immediately turn the power off and unplug the AC plug and remove the battery pack. Then contact your technical support office.



- **If a Malfunction or Trouble Occurs, Immediately Stop Use**
If the Following Malfunction Occurs, Immediately Unplug the AC Plug
 - This product is damaged
 - Foreign object inside this product
 - Smoke emitted
 - Unusual smell emitted
 - Unusually hot
 - ⇒ After the above procedure, contact your technical support office for repair.
- **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.
- **Insert the AC Plug Completely**
 - ⇒ Do not use a damaged plug or loose AC outlet.

Burns or low-temperature burns may result.



- **Do Not Use This Product in Close Contact With Your Body For a Long Period of Time**
 - Do not use this product with its heat-emitting parts in close contact with your body for long periods of time.
 - Low-temperature burns may result.



- **Do Not Touch The Surface of The AC Adaptor Continuously While Using/Charging**
 - Burns may result.



- **Do Not Expose Yourself or Other Persons to the Hot Wind from the Ventilation Hole (Exhaust) For a Long Period of Time**
 - Depending on the direction of the computer or the way you hold the computer, your hands and body will be more exposed to the hot wind.
 - Covering the ventilation hole (exhaust) with your hand or other object can cause heat to build up inside, possibly resulting in burns.

Detrimental health effects on your body may result.



- **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.

CAUTION

Fire or electric shock may result.



- **Do Not Move This Product While the AC Plug Is Connected**
 - ⇒ If the AC cord is damaged, unplug the AC plug immediately.
- **Do Not Subject the AC Adaptor To Any Strong Impact**
 - ⇒ Do not continue to use the AC adaptor after a strong impact such as being dropped.
 - ⇒ Contact your technical support office for repair.
- **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.
- **Do Not Block the Ventilation Hole (Exhaust/Intake)**
 - ⇒ Do not use this product wrapped in cloth or on top of bedding or a blanket.
- **Do Not Keep This Product Wherever There is a Lot of Water, Moisture, Steam, Dust, Oily Vapors, etc.**

Fire or electric shock may result.



- **Hold the Plug When Unplugging the AC Plug**
- **Use Only the Specified AC Adaptor With This Product**
 - ⇒ Do not use an AC adaptor other than the one supplied (supplied with the unit or one sold separately as an accessory).

Safety Precautions

This product may fall over or drop, resulting in an injury.



- Do Not Place This Product on Unstable Surfaces
- Avoid Stacking

Detrimental health effects on your body may result.



- 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.

NOTICE

- Do not place the computer near a television or radio receiver.
- Keep the computer away from magnets. Data stored on the flash memory may be lost.
- This computer is not intended for the display of images for use in medical diagnosis.
- This computer is not intended for a use with connection of medical equipment for the purpose of medical diagnosis.
- Panasonic shall not be liable for loss of data or other incidental or consequential damages resulting from the use of this product.
- If this computer will not be used for a long period of time (a month or more), charge or discharge (use) the battery until the remaining battery level becomes 30% to 40% and store the product in a cool, dry place.
- This computer prevents overcharging of the battery by recharging only when the remaining power is less than approx. 95% (when Economy Mode (ECO) is enabled: 75%) of capacity.
- The battery is not charged when this computer is first purchased. Be sure to charge it before using it for the first time. When the AC adaptor is connected to this computer, charging begins automatically.
- Should the battery leak and the fluid get into your eyes, do not rub your eyes. Immediately flush your eyes with clear water and see a doctor for medical treatment as soon as possible.

NOTE

- The battery may become warm during recharging or normal use. This is completely normal.
- Recharging will not commence if internal temperature of the battery is outside of the allowable temperature range (0 °C to 50 °C). (→ 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 or below.)
- If the temperature is low, the operating time is shortened. Only use the computer within the allowable temperature range.

- The battery is a consumable item. If the amount of time the computer can be run by using a particular battery becomes dramatically shorter and repeated recharging does not restore its performance, the battery should be replaced with a new one. Contact your technical support office.
- 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.

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

^{*1} AIRCRAFT COCKPIT EQUIPMENT/SYSTEMS include Class2 Electronic Flight Bag (EFB) Systems and Class1 EFB Systems when used during critical phases of flight (e.g., during take-off and landing) and/or mounted on to the aircraft. Class1 EFB Systems and 2 EFB Systems are defined by FAA: AC (Advisory Circular) 120-76A or JAA: JAA TGL (Temporary Guidance Leaflets) No.36.

^{*2} As defined by the European Medical Device Directive (MDD) 93/42/EEC.

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

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

This computer has been designed so as to minimize shock to the LCD, the leakage of liquid (e.g., water) on to the buttons, etc., but no warranty is provided against such trouble. Therefore, as a precision instrument, be extremely careful in the handling.

Regulatory Information

Information to the User / Informations destinées aux utilisateurs

<Only for model with wireless LAN/Bluetooth>

This product and your Health

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

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

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

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

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

Regulatory Information

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

26-M-1

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

Ce produit et votre santé

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

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

Si vous n'êtes pas sûr de la réglementation applicable à l'utilisation d'appareils sans fil dans une organisation ou un environnement spécifique, (par exemple dans un aéroport) nous vous invitons 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 responsable de tout dégât ou de toute violation des règlements de l'État pouvant découler du non-respect de ces directives.

26-F-1

Lithium Battery / Pile au lithium

Lithium Battery!

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

Warning!

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

15-E-1

Pile au lithium!

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

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

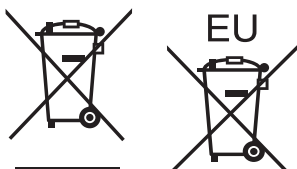
15-F-1

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

These symbols are only valid in the European Union.

If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.

53-M-1



Regulatory Information

CAUTION:

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

58-E-1

ATTENTION:

Il y a risque d'explosion si la batterie est remplacée par une batterie de type incorrect.
Mettre au rebut les batteries usagées conformément aux instructions.

58-F-1

For U.S.A.

Federal Communications Commission Radio Frequency Interference Statement

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

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

Warning

To assure continued compliance, use only shielded interface cables when connecting to a computer or peripheral. Also, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

FCC RF Exposure Warning:

- This equipment is provided with PC Card slot that could be used with wireless transmitters, which will be specifically recommended when they become available. Other third-party wireless transmitters have not been RF exposure evaluated for use with this computer and may not comply with FCC RF exposure requirements.

<Only for model with wireless LAN/Bluetooth>

- This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
- This equipment may not be co-located or operated with any other antenna or transmitter.

- This device meets the government's requirements for exposure to radio waves. This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.
- The exposure standard for wireless device employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg.
 - * Tests for SAR are conducted using standard operating positions accepted by the FCC with the device transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. This is because the device is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

<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
Two Riverfront Plaza,
Newark NJ 07102
Tel No: 1-800-LAPTOP5 (1-800-527-8675)

6-M-1

USA Only: Disposal may be regulated in your community due to environmental considerations. For disposal or recycling information, please visit Panasonic website: <http://www.panasonic.com/environmental> or call 1-888-769-0149
65-M-2

<For USA-California Only>

This product contains a CR Coin Cell Lithium Battery which contains Perchlorate Material - special handling may apply. See www.dtsc.ca.gov/hazardouswaste/perchlorate/
38-M-1

<For USA and Canada>



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

For Canada / Pour le Canada

Canadian ICES-003

CAN ICES-003(B) / NMB-003(B)

7-M-3

<Only for model with wireless LAN/Bluetooth>

Industry Canada

This product complies with RSS210 Industry Canada. Operation is subject to the following two conditions;

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

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

Industrie Canada

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

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

30-Ca-1-1

<Only for model with wireless LAN>

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

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

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

30-Ca-2-1

<Only for model with wireless LAN/Bluetooth>

- This computer complies with Industry Canada radiation exposure limits set forth for an uncontrolled environment.
- This PC with WLAN and/or Bluetooth transmitters installed, has been approved for portable operation and does not require any minimum spacing be provided between antennas and all person's body.

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

- Cet équipement est conforme aux limites d'exposition aux rayonnements d'Industrie Canada établies pour un environnement non contrôlé.
- Ce PC avec émetteurs WLAN et/ou Bluetooth a été approuvé à des fins d'opération mobile; aucun espace minimum entre les antennes et le corps de l'utilisateur n'est requis.

FOR USE WITH MODEL NO. : CF-AA5713A
POUR UTILISER AVEC MODÈLE : CF-AA5713A

20-Ca-1

For India



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





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

68-M-1

Introduction

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

■ Terms and illustrations in these instructions

CAUTION :	Conditions that may result in minor or moderate injury.
NOTE :	Useful and helpful information.
 :	Page in these Operating Instructions or in the Reference Manual.
 :	Reference to the on-screen manuals.
Display “Charm”	Flick from right side to inside of the screen.
Touch  :	Touch  (Settings) in the Charm menu.

- Some illustrations are simplified to help your understanding and may look different from the actual unit.
- If you do not log on as an administrator, you cannot use some functions or cannot display some screens.
- Refer for the latest information about optional products to the catalogs, etc.
- In these instructions, the names and terms are referred as follows.
 - “Windows® 8.1 Pro 64-bit” as “Windows” or “Windows 8.1”
 - DVD MULTI drive as “DVD drive”
- Screen messages are explained in [English (United States)].
(Depending on the language preference, some screen messages in these instructions are different from the actual screen messages. For example, [Flight mode] may be displayed instead of [Airplane mode] in some language preference)

■ Disclaimer

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

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SDXC Logo is a trademark of SD-3C, LLC.



Bluetooth® is a registered trademark owned by Bluetooth SIG, Inc., U.S.A. and licensed to Panasonic Corporation. NVIDIA, the NVIDIA logo and GeForce are trademarks and/or registered trademarks of NVIDIA Corporation in the U.S. and/or other countries.

Names of products, brands, etc., appearing in this manual are trademarks or registered trademarks of their respective own companies.

■ On-screen Manual

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

● Reference Manual

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

● Important Battery Tips

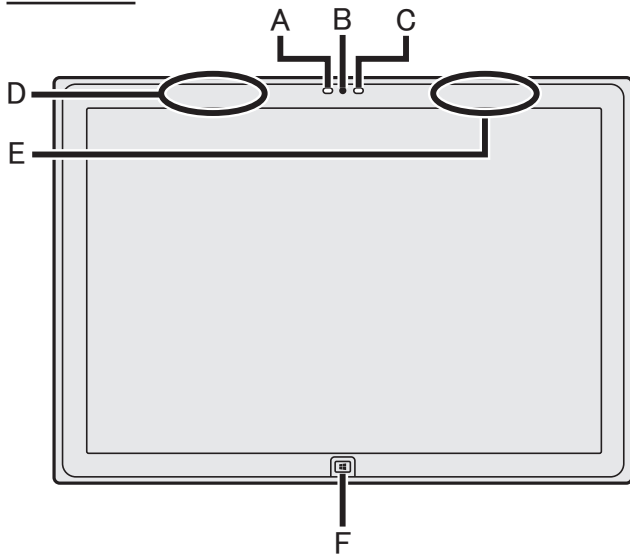
The Important Battery Tips will provide you with the battery information so that you can use the built-in battery in the optimum condition to obtain longer operation time.

To access the on-screen manuals, follow the steps below.

On the Start screen, touch the [Manual Selector] tile, and select the on-screen manual.

Description of Parts

Front side



Camera

→ *Reference Manual* “Camera”

A: Camera Indicator

B: Camera Lens

C: Ambient Light Sensor

The ambient light sensor is equipped with an automatic brightness adjustment function that adjusts the display screen.

(→ page 16)

D: Wireless LAN Antenna / Bluetooth Antenna

<Only for model with wireless LAN>

<Only for model with Bluetooth>

→ *Reference Manual* “Wireless LAN” “Bluetooth”

E: Wireless LAN Antenna

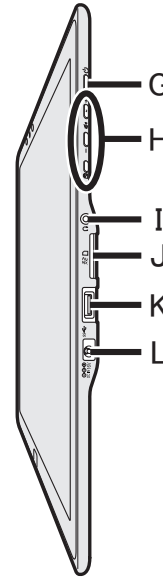
<Only for model with wireless LAN>

→ *Reference Manual* “Wireless LAN”

F: Windows Button

→ *Reference Manual* “Hardware Buttons”

Right side



G: Power Switch

H: Hardware Buttons

→ *Reference Manual* “Hardware Buttons”

I: Headphone Jack

A headphone can be connected.

J: SD Memory Card Slot

<Only for model with SD memory card slot>

→ *Reference Manual* “SD Memory Card”

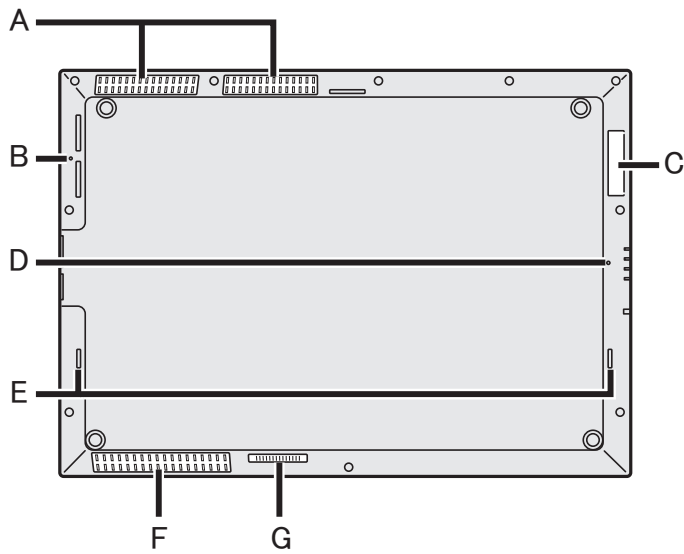
K: USB3.0 Port

→ *Reference Manual* “USB Devices”

L: DC-IN jack

Description of Parts

Rear side



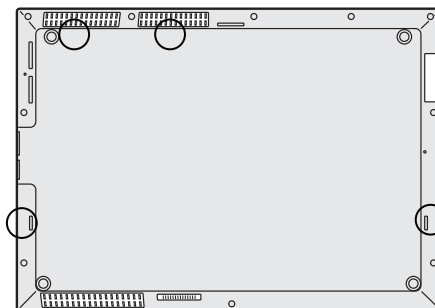
- A: Ventilation Hole (Exhaust)**
- B: Reset Button (For servicing by Panasonic)**
- C: Smart Card Slot**
 <Only for model with Smart Card Slot>
 → Reference Manual "Smart Card"
- D: Microphone**
- E: Speaker**
- F: Ventilation Hole (Intake)**
- G: Expansion Bus Connector**
 → Reference Manual "Cradle"

Left side



- H: LED Indicator**
 - : Power Indicator
 Off: Power off/Hibernation, Green: Power on, Blinking green: Sleep
 - : Drive status
 - : SD Memory Card status
 (Blinking: During access or a password is requested)
 → Reference Manual "SD Memory Card"
 - : Battery status
 → page 15 "When the battery indicator does not light on"
 → Reference Manual "Battery Power"
- I: Security Hook**
 Pull out the security hook when passing through a security cable. Store the security hook during normal use.
 (The insulation coating has been applied to the metal part.)
 For further information, read the manual that comes with the cable.

This computer contains a magnet and magnetic products at the locations circled in the illustration at right. Avoid leaving metallic object or magnetic media in contact with these areas.



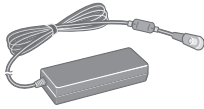
First-time Operation

■ Preparation


① Check and identify the supplied accessories.

If you do not find the described accessories, contact Panasonic Technical Support.

- AC Adaptor . . . 1
- AC Cord 1
- Soft Cloth 1

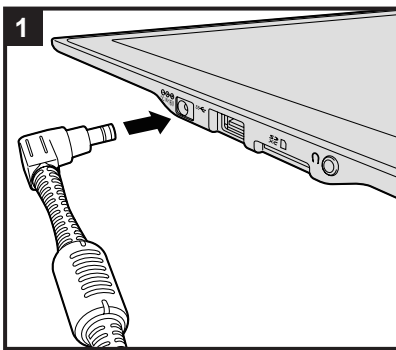


Model No: CF-AA5713A

→  Reference Manual "Screen Input Operation"

- **OPERATING INSTRUCTIONS (This book)** 1

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





1 Connect your computer to a power outlet.

The battery charging starts automatically.

- CAUTION**
- Do not disconnect the AC adaptor until the first-time operation procedure is completed.
 - When using the computer for the first time, do not connect any peripheral device except 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 built-in battery alone.

2 Turn on the computer.

Press and hold the power switch  (→ page 9) until the power indicator  (→ page 10) lights.


- CAUTION**
- Do not press the power switch repeatedly or do not hold the power switch for four seconds or longer.

3 Select language.

Select language and click [Next].
Follow the on-screen instructions.

4 Setup Windows.

Follow the on-screen instructions.

- The computer restarts several times. Wait until the drive indicator  has turned off.
- After the computer is turned on, the screen remains black or unchanged for a while, but this is not a malfunction. Wait for a moment until the Windows setup screen appears.
- Setup of Windows will take approximately 5 minutes. Go to the next step, confirming each message on the display.
- If “Get online” is displayed, select “Skip this step”. You can set the Wireless Network after the setup of Windows is complete.

CAUTION


- 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 Windows. Creating a password reset disk beforehand is recommended.
- Do not use the following words for user name: CON, PRN, AUX, CLOCK\$, NUL, COM1 to COM9, LPT1 to LPT9, @, &, space. In particular, if you create a user name (account name) that includes the “@” mark, a password will be requested at the log-on screen, even if no password has been set. If you try to log on without entering a password, “The user name or password is incorrect.” may be displayed and you will not be able to sign in (→ page 24).

5 Set the time zone, and then set the date and time.

- ① Flick from the middle of the Start screen to the top, and then touch [Control Panel] under “Windows System”.
- ② Touch [Clock, Language, and Region] - [Date and Time].
- ③ Touch [Change time zone...].
- ④ Select the time zone, then touch [OK].
- ⑤ Touch [Change date and time...], then set the date and time.

6 Create the recovery disc.

A recovery disc allows you to install OS and restore its factory default condition, in case, for example, the recovery partition of the flash memory is damaged. We recommend creating a recovery disc before you begin using the computer.

Refer to →  *Reference Manual* “Recovery Disc Creation Utility” about creating the disc.

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 touch [OK].


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

In the default settings, a shortcut icon for Korean language is on the Desktop screen. You may delete the icon if not necessary.

- Note that the computer consumes electricity even when the computer power is off. If the built-in battery is fully charged, the battery will fully discharge in the following period of time:

Status	Discharge period
When power is off	Approx. 4 weeks
In sleep	Approx. 3 days
In hibernation	Approx. 4 weeks

■ Before using wireless function

- ① Display “Charm” and touch  - [Change PC Settings] - [Network] - [Airplane mode^{*1}].
Set [Airplane mode^{*1}] to [Off], and then;
set [Wi-Fi] to [On] (for wireless LAN).
set [Bluetooth] to [On] (for Bluetooth).

^{*1}: Screen messages are explained in [English (United States)].

(Depending on the language preference, some screen messages in these instructions are different from the actual screen messages. For example, [Flight mode] may be displayed instead of [Airplane mode] in some language preference.)

■ To change the partition structure

You can shrink a part of an existing partition to create unallocated disk space, from which you can create a new partition. In the default setting, you can use a single partition.

- ① Proceed as follows on the Start screen.
 1. Flick from the middle of the screen to the top, and then long touch [This PC] under “Windows System”.
 2. Touch [Manage] on app bar.
- ② Touch [Disk Management].
- ③ Long touch the partition for Windows (“c” drive in the default setting), and touch [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 touch [Shrink].
 - You cannot input a larger number than the displayed size.
 - To select [Reinstall to the OS related partitions.] in installing OS (→ page 21), 70 GB or more is necessary for [Total size after shrink in MB].
- ⑤ Long touch [Unallocated] (the shrunk space in the step ④) and touch [New Simple Volume].
- ⑥ Follow the on-screen instructions to make the settings, and touch [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, long touch the partition and touch [Delete Volume] in the step ③.



■ To select language

To select a language other than the one you have selected during the first-time operation, follow the steps below.


- ① Flick from the middle of the Start screen to the top, and then touch [Control Panel] under “Windows System”.
- ② Touch [Clock, Language, and Region] - [Language] - [Add a language].
- ③ Select a language, and then touch [Add].
Depending on the region, two or more languages are selectable. Touch [Open] and select the desired language, and then touch [Add].
- ④ Touch [Option] for the language you want to use.
- ⑤ Touch [Make this the primary language].
- ⑥ Touch [Log off now].
- ⑦ Sign in to the Windows.

Turning On / Turning Off


Turning On

Press and hold the power switch  (→ page 9) until the power indicator  (→ page 10) lights.


NOTE

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

Turning Off

- ① Shut down the computer.
 1. Display “Charm” and touch .
 2. Touch [Power] - [Shut down].

NOTE


- To turn off the computer completely, proceed as follows.
 - ① Display “Charm” and touch  - [Change PC settings] - [Update and recovery] - [Recovery].
 - ② Touch [Restart now] under “Advanced startup”.
 - ③ Touch [Turn off your PC].

Precaution against Starting Up/Shutting Down

- Do not do the following
 - Connecting or disconnecting the AC adaptor
 - Pressing the power switch
 - Touching the screen or external mouse/keyboard

NOTE

- To conserve power, the following power saving methods are set at the time of purchase.
 - The screen automatically turns off after:
 - 10 minutes (when AC adaptor is connected) of inactivity
 - 5 minutes (when operating on battery power) of inactivity
 - The computer automatically enters sleep^{*1} after:
 - 20 minutes (when AC adaptor is connected) of inactivity
 - 15 minutes (when operating on battery power) of inactivity

^{*1} Refer to  *Reference Manual* “Sleep or Hibernation Functions” about resuming from sleep.


Handling and Maintenance

Operation environment

- Place the computer on a flat stable surface not subject to shock, vibration, and danger of dropping. Do not place the computer upright or turn it over. If the computer is exposed to an extremely strong impact, it may become damaged.
- Operating 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, operation for a long time in extreme environments, smoking nearby, or operation in places where oil is used or where there is a lot of dust will result in the product deterioration and will shorten the product life.
- 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 drive, 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, Smart Cards and other protruding objects.
 - 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.
 - To use airplane mode^{*1}:
 1. Display "Charm" and touch  - [Change PC Settings] - [Network] - [Airplane mode^{*1}].
 2. Set [Airplane mode^{*1}] to [On].
 3. Confirm that all wireless devices are set to [Off].

^{*1}: Screen messages are explained in [English (United States)].
(Depending on the language preference, some screen messages in these instructions are different from the actual screen messages. For example, [Flight mode] may be displayed instead of [Airplane mode] in some language preference.)
- Avoid any harmful substances such as oil from getting into the touchscreen. The pointer may not work correctly.
- Be careful not to get injured by dropping or getting hit when carrying the computer.

■ When the battery indicator does not light on

The battery indicator may not light on even if the AC adaptor is correctly connected to the computer, due to the following reasons.

- The AC adaptor's protection function may be working. In this case, pull out the AC cord and wait for more than 1 minute before reconnecting the AC cord.

■ 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

<Only for model with wireless LAN/Bluetooth>

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

Handling and Maintenance

■ Battery Recalibration

- The battery recalibration may take a long time due to the large battery capacity. This is not a malfunction.
<When performing “Battery Recalibration” after shutting down Windows>
 - Full charge: Approximately 2 hours
 - Complete discharge: Approximately 1 hourWhen performing “Battery Recalibration” without shutting down Windows, it may take more time to charge / discharge.

■ Sensors


This computer is equipped with four sensors (acceleration sensor, gyro sensor, magnetic sensor, ambient light sensor), and you can use these sensors with any software that is compatible.

As the accuracy of each sensor output is dependent on the operating environment and other conditions, the results should only be used as a reference.

The acceleration sensor, gyro sensor, and magnetic sensor are located at the bottom left of the LCD. The detection results of each sensor may vary depending on how you are holding the computer, the application software you are using, and other factors.

● Automatic brightness adjustment

The computer is equipped with an automatic brightness adjustment function that adjusts the display screen based on the ambient light sensor. You can configure the automatic adjustment function as follows.

- Display “Charm” and touch  - [Change PC Settings] - [PC and devices] - [Power and sleep], then set [Adjust my screen brightness automatically] to [On].

The ambient light sensor is located at the top of LCD.

The ambient light cannot be detected properly if this area is obstructed or dirty.

● Magnetic sensor

The magnetic sensor on the computer operates by detecting geomagnetism. Therefore, the magnetic sensor may not function properly and its readings may be inaccurate, especially in the following environments.

- Inside or near steel structures such as buildings or bridges
- Inside or near automobiles, or near train power lines
- Near metallic furniture or appliances
- When the AC adaptor or other peripheral devices are brought closer to the computer
- Near magnets, speakers, or other objects with strong magnetic fields

The magnetic directions indicated by the magnetic sensor may not be accurate immediately after purchase or in environments with poor magnetic fields.

In such cases, turn on the computer and move it as follows.

- ① Hold the computer so that its screen side is facing upward and level.
- ② While keeping the computer level, rotate it 90 degrees or more clockwise.
- ③ Return the computer to position ①, and rotate it 90 degrees or more counterclockwise.
- ④ Return the computer to position ①.
- ⑤ Tilt the computer 90 degrees or more to the left so that the left side of the computer tilts down.
- ⑥ Return the computer to position ①, and tilt it 90 degrees or more to the right so that the right side of the computer tilts down.


CAUTION

- Hold the computer firmly when moving it. Strong shocks from dropping the computer may result in damage.

Maintenance

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

To clean the LCD panel

Use the soft cloth included with the computer. (For further information, refer to “Suggestions About Cleaning the LCD Surface” →  *Reference Manual* “Screen Input Operation”.)

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.

Dispose of Computer

<For Europe and U.S.A./Canada>


Attention Customers

Don't remove the battery by yourself. The battery must be removed by qualified professionals.
When disposing of this product, be sure to contact qualified professionals to remove the battery.

Attention Qualified professionals to remove the battery



Dispose of this product correctly in accordance with the local regulations after removing the battery as shown in the following procedure.

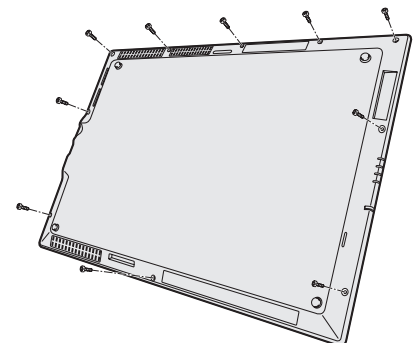
■ Preparation

- Remove all peripherals (SD memory card, etc.).
- Erase the stored data. (→  *Reference Manual* "Erasing Flash Memory Data")

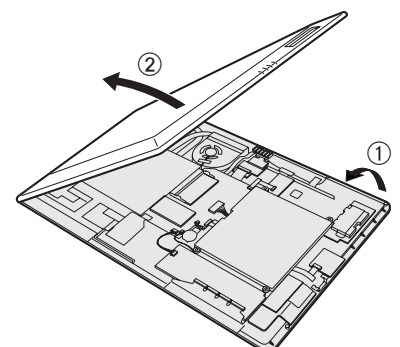
CAUTION

- Never disassemble the computer except before disposal.
- Refer to "Safety Precautions and Regulatory Information" for precautions when disposing of the computer.

1. Turn off the computer completely. (→ page 14)
 - Do not use sleep/hibernation.
2. While connecting the AC adaptor, press both volume buttons ( + and - ) at the same time for more than ten seconds.
The built-in battery's power output stops.
 - Disconnect the AC adaptor, and press the power button for 1 second or longer and confirm the computer does not start up.
3. Turn over the computer, and remove the screws (10).

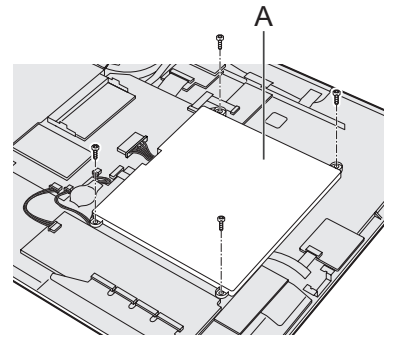


4. Unhook the claws on the upper part of the cover (①), and open the cover from the right side (②).
 - The left side of the cover is connected to the computer with the cord. Do not pull the cord.

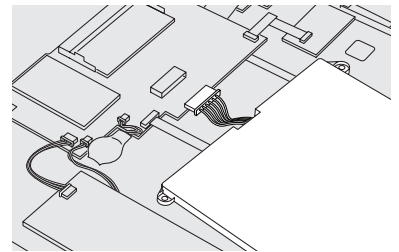


Handling and Maintenance

5. Remove the screws (4) that secures the built-in battery (A), and move the built-in battery (A) as shown in the illustration.



6. Disconnect the connector, and remove the built-in battery. Insulate the connectors on the built-in battery by covering them with plastic tape, for example.



Installing Software






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

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

CAUTION

- Do not delete the Recovery Partition on the flash memory. The Recovery Partition is not available to store data. To check the Recovery Partition, perform the following methods.
 - ① Flick from the middle of the Start screen to the top, and then long touch [This PC] under “Windows System”.
 - ② Touch [Manage] on app bar.
 - ③ Touch [Disk Management].

NOTE

- You can use the following buttons instead of the keyboard.
 -  : ↓ key
 -  +  : ↑ key
 -  : Enter key
 -  : F2 key (Default setting)
- Connect the AC adaptor and do not remove it until installation is complete.


■ Remove everything and reinstall Windows

You can reinstall the OS that was pre-installed at the time of purchase (Windows 8.1).

Preparation

- <Only for model with TPM> Connect the external keyboard.
- Remove all peripherals.

1 Perform “Remove everything and reinstall Windows”.

- ① Display “Charm” and touch  - [Change PC settings] - [Update and recovery] - [Recovery].
- ② Touch [Get Started] under “Remove everything and reinstall Windows”.
- ③ Touch [Next].
- ④ Select the option.

- Just remove my files

Perform the reinstallation of the Windows in a few moments (Approximately 20 minutes).

- Fully clean the drive

By fully cleaning, the deleted files can not be recovered easily and the security level will be increased. The processing time will be longer (Approximately 140 minutes).

Follow the on-screen instructions.

After the reinstallation, the computer will restart.

- Do not interrupt installation, for example by turning off the computer or performing other operation. Otherwise installation may become unavailable as Windows may not start up or the data may be corrupted.

2 Perform the “First-time Operation” (→ page 12).

NOTE

- The date and time, and the time zone may not be correct. Be sure to set them correctly.

3 Perform Windows Update.

4 <Only for model with TPM> Clear TPM.

- ① Flick from the middle of the Start screen to the top.
- ② Touch [Run] under “Windows System”, input [tpm.msc] and touch [OK].
- ③ Touch [Clear TPM ...] under “Actions” on the right of the “TPM Manager on Local Computer” screen.
- ④ Touch [Restart] of the “Manage the TPM security hardware” screen.
The computer will restart.
- ⑤ When “TPM configuration change was requested to ...” is displayed, press **F12**.
- ⑥ Touch the Desktop tile, and when “TPM is ready” appears, touch [Close].

Installing Software


■ Flash memory Recovery

If the problem persists after performing “Remove everything and reinstall Windows”, follow the instructions below.

Preparation

- <Only for model with TPM> Connect the external keyboard.
- Remove all peripherals.

1 Start the Setup Utility.

- ① Display “Charm” and touch  - [Change PC settings] - [Update and recovery] - [Recovery].
 - ② Touch [Restart now] under “Advanced startup”.
 - ③ Touch [Troubleshoot] - [Advanced options] - [UEFI Firmware Settings] - [Restart].
- If the password is requested, enter the Supervisor Password.

2 Write down all of the contents of the Setup Utility and touch [Exit] and double-touch [Load Default Values].

At the confirmation message, touch [Yes].

3 Check the [UEFI Boot] setting of the Setup Utility.

When installing Windows 8.1: [Enabled]

4 Touch [Exit] and double-touch [Save Values and Reboot].

At the confirmation message, touch [Yes].

The computer will restart.

5 Press (Rotation lock) button while [Panasonic] boot screen is displayed.

The Setup Utility starts up.

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

6 Touch [Exit] and double-touch [Recovery Partition].

7 Touch [Next].

8 Touch [YES].

9 At the License Agreement screen, touch [Yes, I agree to the provisions above and wish to continue!] and touch [Next].

10 Touch [Next].

If the option is displayed, select the setting and touch [Next].

[Reinstall Windows to the whole Disk to factory default.]

Select this option when you want to install Windows to the factory default. After installation, you can create a new partition. For how to create a new partition, refer to “To change the partition structure” (→ page 13).

11 At the confirmation message, touch [YES].

Installation starts according to the instructions on the screen. (It will take approximately 20 minutes.)

- Do not interrupt installation, for example by turning off the computer or other operation. Otherwise installation may become unavailable as Windows may not start up or the data may be corrupted.

12 When Ending process screen is displayed, touch [OK] to turn off the computer.

13 Turn on the computer.

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

14 Perform the “First-time Operation” (→ page 12).

NOTE

- The date and time, and the time zone may not be correct. Be sure to set them correctly.

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

16 Perform Windows Update.


17 <Only for model with TPM> Clear TPM (→ page 19).

■ Using Recovery Disc

Use the Recovery Disc in the following conditions.


- You have forgotten the administrator password.
- Installation is not complete. The recovery partition in the flash memory may be broken.

Preparation

- Prepare the following items:
 - Recovery Disc (→  *Reference Manual* “Recovery Disc Creation Utility”)
 - USB DVD drive (optional) (refer to recent catalogs and other sources for information about the products available)
 - <Only for model with TPM> Connect the external keyboard.
- Remove all peripherals (except for the USB DVD drive).

1 Connect the DVD drive to the USB port.

2 Start the Setup Utility.

- ① Display “Charm” and touch  - [Change PC settings] - [Update and recovery] - [Recovery].
 - ② Touch [Restart now] under “Advanced startup”.
 - ③ Touch [Troubleshoot] - [Advanced options] - [UEFI Firmware Settings] - [Restart].
- If the password is requested, enter the Supervisor Password.

3 Write down all of the contents of the Setup Utility and touch [Exit] and double-touch [Load Default Values].

At the confirmation message, touch [Yes].

4 Check the [UEFI Boot] setting of the Setup Utility.

When the recovery disc for Windows 8.1 is used: [Enabled]

5 Set the Recovery Disc into the DVD drive.

6 Touch [Exit] and double-touch [Save Values and Reboot].

At the confirmation message, touch [Yes].

The computer will restart.

7 Press (Rotation lock) button while [Panasonic] boot screen is displayed.

The Setup Utility starts up.

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

8 Touch [Exit], then double-touch your DVD drive in [Boot Override].

The computer will restart.

9 Touch [Reinstall Windows] and touch [Next].

10 Touch [YES].

11 At the License Agreement screen, touch [Yes, I agree to the provisions above and wish to continue!] and touch [Next].

12 Touch [Next].

If the option is displayed, select the setting and touch [Next].

- [Reinstall Windows to the System Disk to factory default.]
Select this option when you want to install Windows to the factory default. After installation, you can create a new partition. For how to create a new partition, refer to “To change the partition structure” (→ page 13).
- [Reinstall to the OS related partitions.]^{*1}
Select this option when the flash memory has already been divided into several partitions. For how to create a new partition, refer to “To change the partition structure” (→ page 13).
You can keep the partition structure.

^{*1} This does not appear if Windows cannot be installed to the recovery partition and the area usable by Windows.

13 At the confirmation message, touch [YES].

Installation starts according to the instructions on the screen. (It will take approximately 30 - 45 minutes.)

- Do not interrupt installation, for example by turning off the computer.
Otherwise installation may become unavailable as Windows may not start up or the data may be corrupted.

Installing Software

- 14 When Ending process screen is displayed, remove the Recovery Disc and DVD Drive and then touch [OK].**

Follow the on-screen instructions.

Some models may take approximately 40 minutes.

- 15 Perform the “First-time Operation” (→ page 12).**

NOTE


- The date and time, and the time zone may not be correct. Be sure to set them correctly.
-

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




- 17 Perform Windows Update.**

- 18 <Only for model with TPM> Clear TPM (→ page 19).**

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. You can also check the computer's status in the PC Information Viewer (→  Reference Manual "Troubleshooting (Advanced)").

■ Starting Up

<p>Cannot start up. The power indicator or battery indicator is not lit.</p>	<ul style="list-style-type: none"> ● Connect the AC adaptor. ● Remove the AC adaptor, and then connect it again. ● If a device is connected to the USB port, disconnect the device, or set [USB Port] or [Legacy USB Support] to [Disabled] in the [Advanced] menu of the Setup Utility. ● Check the [UEFI Boot] setting of the Setup Utility. [UEFI Boot] should be set to [Enabled].
<p>You have forgotten the password.</p>	<ul style="list-style-type: none"> ● Supervisor Password or User Password: Contact Panasonic Technical Support. ● Administrator password: <ul style="list-style-type: none"> • 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. • If you do not have a password reset disk, install (→ page 19) and set up Windows, and then set a new password.
<p>"Remove disks or other media. Press any key to restart" or a similar message appears.</p>	<ul style="list-style-type: none"> ● A floppy disk is in the drive and it does not contain system startup information. Remove the floppy disk and press any key. ● If a device is connected to the USB port, disconnect the device, or set [USB Port] or [Legacy USB Support] to [Disabled] in the [Advanced] menu of the Setup Utility. ● If the problem persists after removing the disk, it may be a flash memory failure. Contact Panasonic Technical Support.
<p>Windows startup and operation is slow.</p>	<ul style="list-style-type: none"> ● Start the Setup Utility (→  Reference Manual "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.) ● If you installed a resident software after purchase, turn off the residence.
<p>The date and time are incorrect.</p>	<ul style="list-style-type: none"> ● Make the correct settings. <ol style="list-style-type: none"> ① Open the Control Panel. ② Touch [Clock, Language, and Region] - [Date and Time]. ③ Touch [Change time zone...]. ④ Select the time zone, then touch [OK]. ⑤ Touch [Change date and time...], then set the date and time. ● If the problem persists, the internal clock battery may need to be replaced. Contact Panasonic Technical Support. ● <Only when connected to Cradle> When the computer is connected to LAN, check the date and time of the server. ● The 2100 A.D. or later year will not be correctly recognized on this computer.
<p>[Executing Battery Recalibration] screen appears.</p>	<ul style="list-style-type: none"> ● 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.
<p>[Enter Password] does not appear when resuming from sleep/hibernation.</p>	<ul style="list-style-type: none"> ● Select [Enabled] in [Password On Resume] in the [Security] menu of the Setup Utility (→  Reference Manual "Setup Utility"). ● The Windows password can be used instead of the password set in the Setup Utility. <ol style="list-style-type: none"> ① Add a password. <ol style="list-style-type: none"> 1. Display "Charm" and touch  - [Change PC settings] - [Accounts]. 2. Touch [Sign-in options], and touch [Add] under "Password". ② Open the Control Panel, touch [System and Security] - [Power Options] - [Require a password on wakeup] and add a check mark for [Require a password].
<p>Cannot resume.</p>	<ul style="list-style-type: none"> ● One of the following operations may have been carried out. Press the power switch to turn on the computer. Data not saved will be lost. <ul style="list-style-type: none"> • In sleep mode, the AC adaptor was disconnected, or a peripheral was connected or disconnected. • The power switch was pressed for four seconds or longer to forcibly turn off the computer. ● An error may occur when the computer automatically enters the sleep or hibernation mode while the screensaver is active. In this case, turn off the screensaver or change the pattern of the screensaver.

Troubleshooting (Basic)

■ Starting Up

Other startup problems.	<ul style="list-style-type: none"> ● Start 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. ● Remove all peripheral devices. ● Check to see if there was a disk error. <ol style="list-style-type: none"> ① Remove all peripheral devices including an external display. ② Open "This PC". <ol style="list-style-type: none"> 1. Flick from the middle of the Start screen to the top. 2. Touch [This PC] under "Windows System". ③ Long touch [Windows (C:)], and touch [Properties]. ④ Touch [Tools] - [Check]. <ul style="list-style-type: none"> • A standard user needs to enter an administrator password. ⑤ Touch [Scan drive]. <p>Follow the on-screen instructions.</p>
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■ Entering Password

Even after entering the password, password input screen is displayed again.	<p><Only if the external keyboard is connected></p> <ul style="list-style-type: none"> ● The computer may be in ten-key mode. Disable the ten-key mode, and then input. ● The computer may be in Caps Lock mode. Disable the Caps Lock mode, and then input.
Cannot log on to Windows. ("The user name or password is incorrect." is displayed.)	<ul style="list-style-type: none"> ● The user name (account name) includes an "@" mark. <ul style="list-style-type: none"> - If another user account name exists: Log on to Windows using another user account name, and delete the account name that includes "@". Then create a new account name. - If no other account name exists: You need to reinstall Windows (→ page 19).

■ Shutting down

Windows does not shut down.	<ul style="list-style-type: none"> ● Remove the USB devices. ● Wait one or two minutes. It is not a malfunction.
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■ Display

No display.	<ul style="list-style-type: none"> ● <Only when connected to Cradle> The external display may be selected. Operate on the external display by using the external keyboard/mouse. <ol style="list-style-type: none"> ① Display "Charm" and touch [Devices] - [Project]. ② Touch and select the display mode. ● <Only when connected to Cradle> When using an external display, <ul style="list-style-type: none"> • Check the cable connection. • Turn on the display. • Check the settings of external display. ● The display is turned off by the power-saving function. Touch the screen. ● The computer entered sleep or hibernation by the power-saving function. To resume, press the power switch.
The screen is dark.	<ul style="list-style-type: none"> ● The screen is darker when the AC adaptor is not connected. Open the Dashboard for Panasonic PC 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. ● Under factory default settings, the brightness of the display screen will adjust automatically based on the ambient light detected by the ambient light sensor. You can adjust the settings for this sensor (→ page 16).

■ Display

The screen is disordered.	<ul style="list-style-type: none"> ● Changing the number of display colors and resolution may affect the screen. Restart the computer. ● <Only when connected to Cradle> Connecting/disconnecting an external display may affect the screen. Restart the computer.
The external display does not work normally.	<ul style="list-style-type: none"> ● <Only when connected to Cradle> 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.
Cannot rotate the display.	<ul style="list-style-type: none"> ● The application program currently running may not support the image rotation. Quit the program, and then try to rotate the image. This can ameliorate the status. ● When the automatic rotation is off, screen display does not rotate automatically. ● <Only when connected to Cradle> When an external display is connected to the computer and the computer is rotated while in the [Extend] mode: The screen display on the external display does not rotate. The screen display on the internal LCD remains landscape, and does not rotate.


■ Screen

The pointer does not work.	<ul style="list-style-type: none"> ● When using the external mouse, connect it correctly. ● Restart the computer using the external keyboard/mouse. ● If the computer does not respond to external keyboard/mouse commands, read “No response” (→ page 25).
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■ On-screen Manual

“This page cannot be displayed” or “Script Error” displayed.	<ul style="list-style-type: none"> ● Touch other page in on-screen manual. ● Quit and restart the on-screen manual.
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■ Others

No response.	<ul style="list-style-type: none"> ● 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. Touch the application icons at the bottom of the screen to check. ● Press the power switch for four seconds or longer to shut down the computer, and then press the power switch to turn it on. If the application program does not work normally, uninstall and reinstall the program. To uninstall, <ol style="list-style-type: none"> ① Open the Control Panel. <ol style="list-style-type: none"> 1. Flick from the middle of the Start screen to the top. 2. Touch [Control Panel] under “Windows System”. ② Touch [Programs] - [Uninstall a program]. ● <Only when connected to Cradle> When connecting a peripheral device to use with this computer for the first time, updating the driver may take a few minutes. Please wait it is completed.
Cannot connect to a network.	<ul style="list-style-type: none"> ● Set the device ([Wireless LAN] / [Bluetooth] of [Wireless Configuration]) to [Enabled] in the [Advanced] menu of the Setup Utility (Wireless Configuration). ● Display “Charm” and touch  - [Change PC Settings] - [Network] - [Airplane mode^{*1}]. Set [Airplane mode^{*1}] to [Off], and then; set [Wi-Fi] in “Wireless device” to [On] (for wireless LAN). set [Bluetooth] in “Wireless device” to [On] (for Bluetooth). ^{*1} : Screen messages are explained in [English (United States)]. (Depending on the language preference, some screen messages in these instructions are different from the actual screen messages. For example, [Flight mode] may be displayed instead of [Airplane mode] in some language preference.)

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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 drive 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.		UT-MB5025SEM
CPU		Intel® Core™ i5-3437U vPro™ Processor (3 MB ¹¹ cache, up to 2.90 GHz) with Intel® Turbo Boost Technology
Chipset		Mobile Intel® QM77 Express Chip set
Video controller		NVIDIA® GeForce® 745M
Memory ¹²		8 GB
Video Memory ¹³		2 GB dedicated VRAM
Storage ⁴		Flash memory drive: 256 GB
		Approx. 12 GB is used as a partition with flash memory recovery tools. (Users cannot use this partition.)
		Approx. 1 GB is used as a partition with system tools. (Users cannot use this partition.)
Display Method		20" IPSα, 230ppi, Aspect ratio 15:10
Internal LCD		16,777,216 colors (3840 × 2560 dots)
External Display (HDMI) ⁵		65,536/16,777,216 colors (1920 x 1200 dots Max.)
Wireless LAN		Intel® Centrino® Advanced-N 6235 (a/b/g/n) (→ page 29)
Bluetooth ⁶		→ page 29
Sound	Speaker	WAVE and MIDI playback, Intel® High Definition Audio subsystem support, Stereo speaker
	Microphone	Internal mic for camera
Security Chip		TPM (TCG V1.2 compliant) ⁷
Camera		1280 × 720 dots, 30 fps (Video)
Sensor	Ambient light sensor	Equipped
	Magnetic sensor	
	Gyro sensor	
	Acceleration sensor	
Card Slot	Smart Card ⁸	x 1
	SD Memory Card ⁹	x 1
Interface		USB port 3.0 x 1 ¹⁰ , Expansion Bus Connector, Headphone (Miniature jack, 3.5 DIA / Impedance 32 Ω, Output Power 4 mW × 2, Stereo)
Pointing Device		Capacitive Multi touch screen (up to 10 touch) / Electronic Touch Pen (optional)
Power Supply		AC adaptor or internal battery
AC Adaptor ¹¹		Input: 100 V to 240 V AC, 50 Hz/60 Hz, Output: 15.6 V DC, 7.05 A
Internal Battery		Li-ion 11.1 V, 3180 mAh (typ.), 3060 mAh (min.) (Not replaceable by user)
Operating Time ¹²		Approx. 2 hours
Charging Time ¹³	Power on	Approx. 2 hours
	Power off	Approx. 2 hours
Power Consumption ¹⁴		Approx. 65 W ¹⁵ / Approx. 100 W (maximum when recharging in the ON state)

■ Main Specifications

Model No.		UT-MB5025SEM	
Physical Dimensions (W × D × H)		475 mm × 334 mm × 12.5 mm {18.7 " × 13.1 " × 0.49 "} (without protruding parts)	
Weight		Approx. 2.39 kg {5.27 lb.}	
Environment	Operating	Temperature	5 °C to 35 °C {41 °F to 95 °F}
		Humidity	30% to 80% RH (No condensation)
	Storage	Temperature	-20 °C to 60 °C {-4 °F to 140 °F}
		Humidity	30% to 90% RH (No condensation)

■ Software

Base OS	Windows® 8.1 Pro 64-bit
Installed OS ^{*16}	Windows® 8.1 Pro 64-bit
Pre-installed Software ^{*16}	PC Information Viewer, Battery Recalibration Utility, Hand Writing Utility, Infineon TPM Professional Package ^{*7, *17} , Dashboard for Panasonic PC, Recovery Disc Creation Utility, Power Plan Extension Utility, Camera Utility, Manual Selector, Wireless Toolbox, Intel® PROSet/Wireless Software, Intel® PROSet/Wireless Software for Bluetooth® Technology Aptio Setup Utility ^{*18} , PC-Diagnostic Utility, Hard Disk Data Erase Utility ^{*19}

■ Wireless LAN

Data Transfer Rates	IEEE802.11a: 54/48/36/24/18/12/9/6 Mbps (automatically switched) ^{*20} IEEE802.11b: 11/5.5/2/1 Mbps (automatically switched) ^{*20} IEEE802.11g: 54/48/36/24/18/12/9/6 Mbps (automatically switched) ^{*20} IEEE802.11n ^{*21} : (HT20) GI ^{*22} = 400ns: 150/130/115/86/72/65/57/43/28/21/14/7 Mbps (automatically switched) ^{*20} GI ^{*22} = 800ns: 130/117/104/78/65/58/52/39/26/19/13/6 Mbps (automatically switched) ^{*20} (HT40) GI ^{*22} = 400ns: 300/270/240/180/150/135/120/90/60/45/30/15 Mbps (automatically switched) ^{*20} GI ^{*22} = 800ns: 270/243/216/162/135/121/108/81/54/40/27/13 Mbps (automatically switched) ^{*20}
Standards Supported	IEEE802.11a / IEEE802.11b / IEEE802.11g / IEEE802.11n
Transmission method	OFDM system, DSSS system
Wireless Channels Used	IEEE802.11a : Channels 36/40/44/48/52/56/60/64/100/104/108/112/116/120/124/128/132/136/140/149/153/157/161/165 IEEE802.11b / IEEE802.11g : Channels 1 to 11 IEEE802.11n : Channels 1-11/36/40/44/48/52/56/60/64/100/104/108/112/116/120/124/128/132/136/140/149/153/157/161/165
RF Frequency Band	IEEE802.11a : 5.18 GHz - 5.32 GHz, 5.5 GHz - 5.7 GHz, 5.745 GHz - 5.825 GHz IEEE802.11b / IEEE802.11g : 2.412 GHz - 2.462 GHz IEEE802.11n : 2.412 GHz - 2.462 GHz, 5.18 GHz - 5.32 GHz, 5.5 GHz - 5.7 GHz, 5.745 GHz - 5.825 GHz

■ Bluetooth^{*6}

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

Specifications

- *1 1 MB = 1,048,576 bytes/1 GB = 1,073,741,824 bytes
- *2 Memory size of the factory default depends on the model.
- *3 A segment of the main memory is allotted automatically depending on the computer's operating status. The size of the Video Memory cannot be set by the user.
- *4 1 MB = 1,000,000 bytes / 1 GB = 1,000,000,000 bytes. Your operating system or some application software will report as fewer GB.
- *5 Only when connected to Cradle (optional). Selectable resolution depends on the specifications of the external display. Display may be impossible using some connected external displays.
- *6 Does not guarantee operation of all Bluetooth peripherals.
- *7 For information on TPM, touch the [Manual Selector] tile on the Start screen, and select "Installation Manual for Trusted Platform Module (TPM)".
- *8 Only for model with Smart Card slot.
- *9 Operation has been tested and confirmed using Panasonic SD Memory Card with a capacity of up to 2 GB, Panasonic SDHC Memory Card with a capacity of up to 32 GB, and Panasonic SDXC Memory Card with a capacity of up to 64 GB. Operation on other SD equipment is not guaranteed.
- *10 Does not guarantee operation of all USB-compatible peripherals.
- *11 The AC adaptor is compatible with power sources up to 240 V AC adaptor.
The unit for North America (identified by the suffix 'M' on the model number) is supplied with a 125 V AC compatible AC cord.
20-M-1-1
- *12 Measured at LCD brightness: 60 cd/m²
Varies depending on the usage conditions, or when an optional device is attached.
- *13 Varies depending on the usage conditions.
- *14 Approx. 0.5 W when the battery is fully charged (or not being charged) and the computer is OFF.
Even when the AC adaptor is not connected to the computer, power is consumed (Max. 0.3 W) simply by having the AC adaptor plugged into an AC outlet.
- *15 Rated power consumption 23-E-1
- *16 Operations of this computer are not guaranteed except for the pre-installed OS and the OS which is installed by using the flash memory recovery and the recovery disc.
- *17 Must be installed before use.
- *18 In this manual, the "Aptio Setup Utility" is referred to as "Setup Utility".
- *19 Perform on the recovery disc.
- *20 It does not correspond to IEEE802.11a+b+g+n standards.
Actual speeds may differ.
- *21 Available when set to "WPA-PSK", "WPA2-PSK" or "none".
- *22 Only available when HT40 enabled by the computer and access point which associated supports HT40.

LIMITED WARRANTY

For U.S.A.

Panasonic System Communications Company of North America (PSCNA)
Computer Products - Worldwide Warranties

Section 1: Limited Warranty - Hardware

PSCNA, referred hereafter as "Panasonic" will repair the products listed below with new or rebuilt parts, free of charge in a Global Panasonic designated service location for the period specified below from the date of original purchase in the event of a defect in materials or workmanship. These warranties are extended solely to the original purchaser. A purchase receipt or other proof of date of original purchase will be required before warranty performance is rendered.

- Laptop PC (CF-##) – 3 Years
- Ultra-Mobile (CF-U#/CF-H# Series) – 3 Years
- Tablet PC (FZ-##) – 3 Years
- PDRC - LCD & Keyboard Assembly – 3 Years

Battery Warranty

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

Optional: Panasonic "Protection Plus" Warranty

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

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

Wireless Module Warranty

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

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

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

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

Options and Accessories Warranties

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

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

LIMITED WARRANTY

Section 2 - Limited Warranty - Software

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

This is the only warranty Panasonic makes to you. Panasonic does not warrant that the functions contained in the Programs will meet your requirements or that the operation of the Programs will be uninterrupted or error free. Panasonic shall have no obligation for any defects in the disk(s) or other media on which the Programs are furnished resulting from your storage thereof, or for defects that have been caused by operation of the disk(s) or other media

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

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

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

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

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

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

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

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

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

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

DIAL TOLL FREE: 1-855-PSC-TECH (855-772-8324)
Web Site : www.panasonic.com/toughbook

LIMITED WARRANTY (GARANTIE LIMITÉE)

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"> Laptop Computers (except Battery) and AC Adaptor Factory/PCI installed options including Wireless WAN, GPS, Bluetooth, Finger print reader, Backlit keyboard, Memory Card and Media Bay Drives (Floppy, CD/DVD) Mobile Wireless Display PDRC – LCD and Keyboard Assemblies Port Replicator 	Three (3) Years from Date of Original End User Customer Purchase	Defective Materials or Workmanship
<ul style="list-style-type: none"> Hand-held Computers Battery Battery charger Auto Adaptor External USB Drives 	One (1) Year from Date of Original End User Customer Purchase	Defective Materials or Workmanship
<ul style="list-style-type: none"> Digitizer pen or stylus 	Ninety (90) Days from Date of Original End User Customer Purchase	Defective Materials or Workmanship
<ul style="list-style-type: none"> All consumable items including protection film, cleaning cloth, carry case, tether and harness 	No Coverage	

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

No Coverage – This Limited Warranty does not cover products purchased outside Canada. Neither does it cover damage to, failure of, or defects in a product or accessory through mishandling, improper installation, abnormal use, misuse, neglect, accident, introduction of liquid or other foreign matter into the product, alteration or servicing by anyone not authorized by PCI, or act of God. THIS PRODUCT IS NOT INTENDED FOR USE AS, OR AS PART OF, NUCLEAR EQUIPMENT/SYSTEMS, AIR TRAFFIC CONTROL EQUIPMENT/SYSTEMS, OR AIRCRAFT COCKPIT EQUIPMENT/SYSTEMS². PANASONIC WILL NOT BE RESPONSIBLE FOR ANY LIABILITY RESULTING FROM THE USE OF THIS PRODUCT ARISING OUT OF THE FOREGOING USES.

² 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) day 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.

LIMITED WARRANTY (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"> • Ordinateurs blocs-notes (sauf batteries) et adaptateur secteur • Options installées en usine/par PCI incluant : WAN sans fil, GPS, Bluetooth, lecteur d'empreintes digitales, clavier rétroéclairé, carte mémoire et lecteurs (disquettes, CD/DVD) • Écran mobile sans fil • Ensembles PDRC – ACL et clavier • Duplicateur de port 	Trois (3) ans à partir de la date d'achat original.	Défauts de pièces et de fabrication
<ul style="list-style-type: none"> • Ordinateurs de poche • Batterie • Chargeur de batterie • Adaptateur pour voiture • Périphériques USB 	Un (1) an à partir de la date d'achat original.	Défauts de pièces et de fabrication
<ul style="list-style-type: none"> • Stylo pointeur standard ou pour numériseur graphique 	Quatre-vingt-dix (90) jours à partir de la date d'achat original.	Défauts de pièces et de fabrication
<ul style="list-style-type: none"> • Tous les articles consommables incluant les pellicules protectrices, chiffons de nettoyage, étuis de transport, longes et sangles 	Aucune couverture	

Recours – Pour obtenir des informations sur la marche à suivre dans le cas où une réclamation en vertu de la garantie deviendrait nécessaire, communiquez par téléphone avec un représentant de PCI au 1-800-668-8386, entre 9h00 et 17h00 (heure de l'Est) du lundi au vendredi (sauf les jours fériés), avant l'échéance de la garantie applicable, en prenant soin d'identifier la nature de la défaillance.

Un reçu ou toute autre pièce justificative de la date d'achat original sera exigé avant toute réparation. Toute pièce défectueuse couverte par la présente garantie limitée sera réparée ou remplacée par une pièce neuve ou remise à neuf. Le remplacement ou la réparation sera fait conformément aux modalités de la présente garantie limitée pendant la durée restante de la période originale de la garantie.

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

CE PRODUIT N'EST PAS DESTINÉ À ÊTRE UTILISÉ, EN TOUT OU EN PARTIE, COMME SYSTÈME/ÉQUIPEMENT NUCLÉAIRE, SYSTÈME/ÉQUIPEMENT DE CONTRÔLE DU TRAFFIC AÉRIEN OU SYSTÈME/ÉQUIPEMENT DE POSTE DE PILOTAGE D'AVION³. PANASONIC DÉCLINE TOUTE RESPONSABILITÉ CONCERNANT L'UTILISATION DE CE PRODUIT DANS LES CAS SUSMENTIONNÉS.

³ 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.

GÉNÉRALITÉS

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

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

DANS TOUS LES CAS, LA RESPONSABILITÉ MAXIMALE DE PCI POUR TOUT MANQUEMENT NE POURRA EXCÉDER LE PRIX DE VENTE DU PRODUIT INFORMATIQUE.

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

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

For Australia

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

1. Subject to the conditions of this warranty Panasonic or its Authorised Service Centre will perform necessary service on the product without charge for parts or labour, if in the opinion of Panasonic, the product is found to be faulty within the warranty period.
2. This warranty only applies to Panasonic products purchased in Australia and sold by Panasonic Australia or its Authorised Distributors or Dealers and only where the products are used and serviced within Australia or its territories. Warranty cover only applies to service carried out by a Panasonic Authorised Service Centre and only if valid proof of purchase is presented when warranty service is requested.
3. This warranty only applies if the product has been installed and used in accordance with the manufacturer's recommendations (as noted in the operating instructions) under normal use and reasonable care (in the opinion of Panasonic). The warranty covers normal domestic use only and does not cover damage, malfunction or failure resulting from use of incorrect voltages, incorrect installation, accident, misuse, neglect, build-up of dirt or dust, abuse, maladjustment of customer controls, mains supply problems, thunderstorm activity, infestation by insects or vermin, tampering or repair by unauthorised persons (including unauthorised alterations), exposure to abnormally corrosive conditions or any foreign object or matter having entered the product.
4. This warranty does not cover the following items unless the fault or defect existed at the time of purchase: Software
5. Warranty on Toughbook accessories (stylus, pens, AC charger, combo drive, etc) is 12 Months from the date of purchase & 3 months for batteries.
6. To claim warranty service, when required, you should:
Check the Panasonic web site for latest warranty contact <http://www.panasonic.com.au/toughbook>, use the Service Centre Locator and call the National Service Centre number indicated.
Prepare purchase receipt as proof of purchase date and system serial number which will be required by the Authorised Service Centre.
7. The Warranty excludes 3 or less faulty pixels on screen.
8. The Warranty includes the repair or exchange of faulty parts within the product with items that are functionally equivalent to that as originally supplied or better – including new or refurbished parts or units – solely at Panasonic's discretion.
9. It is the customer's responsibility to backup all data from the hard disk drive before sending equipment for repair. If a problem is related to the hard disk drive, or the hard disk drive has to be replaced, Panasonic will only reload the factory pre-installed software for the product onto the replacement drive.
10. Panasonic will arrange free pick up and return for approved warranty repairs within 50 km of capital city locations. Please ensure your unit is properly packed for return to the service location.
11. The warranties hereby conferred do not extend to, and exclude, any costs associated with the installation, de-installation or re-installation of a product, including costs related to the mounting, demounting or remounting of any screen, (and any other ancillary activities), delivery, handling, freighting, transportation or insurance of the product or any part thereof or replacement of and do not extend to, and exclude, any damage or loss occurring by reason of, during, associated with, or related to such installation, de-installation, re-installation or transit.

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

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

THIS PRODUCT IS NOT INTENDED FOR USE AS OR AS PART OF NUCLEAR EQUIPMENT/SYSTEMS, AIR TRAFFIC CONTROL EQUIPMENT/SYSTEMS, OR AIRCRAFT COCKPIT EQUIPMENT/SYSTEMS⁴. PANASONIC WILL NOT BE RESPONSIBLE FOR ANY LIABILITY RESULTING FROM THE USE OF THIS PRODUCT ARISING OUT OF THE FOREGOING USES.

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

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

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

Panasonic Australia Pty. Limited

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