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

🚫 These symbols are 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 safety.

⚠️ DANGER
Electrolyte leakage, generation of heat, ignition or rupture of the Battery Pack may result.

🚫 Do Not Throw the Battery Pack into a Fire or Expose It to Excessive Heat
🚫 Do Not Insert Sharp Objects Into the Battery Pack, Disassemble, or Modify It
🚫 Do Not Short the Positive (+) and Negative (-) Contacts
  ➔ Do not place the battery pack together with articles such as necklaces or hairpins when carrying or storing.
🚫 Do Not Apply Shocks to the Product by Dropping It, Applying Strong Pressure to It, etc.
  ➔ If this product is subjected to a strong impact, damaged or deformed, stop using it immediately.
🚫 Do Not Charge the Battery Using Methods Other Than Those Specified
🚫 Do Not Use the Battery Pack with Any Other Product
  • The battery pack is rechargeable and was intended for the specified product.
🚫 Do Not Use This Product with a Battery Pack Other Than the One Specified
  ➔ Use only the specified battery pack with your product.
🚫 When the Battery Pack Has Deteriorated, Replace It With a New One
  ➔ Do not continue to use a damaged battery pack.
🚫 Avoid Extreme Heat (Near the Fire, in Direct Sunlight, for Example)
**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

*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.

*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 Connect a Telephone Line, or a Network Cable Other Than the One Specified, Into the LAN Port
  - Do not connect to a network such as the ones listed below.
  - Networks other than 1000BASE-T, 100BASE-TX or 10BASE-T
  - Phone lines (IP phone (Internet Protocol Telephone), Telephone lines, internal phone lines (on-premise switches), digital public phones, etc.)
- Do Not 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.
Safety Precautions

**CAUTION**

- 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).

- This product may fall over or drop, resulting in an injury.
  - Do Not Place This Product on Unstable Surfaces
  - Avoid Stacking

**NOTICE**

- Do not place the computer near a television or radio receiver.
- Keep the computer away from magnets. Data stored on the hard disk may be lost.
- Do not touch the terminals on the battery pack. The battery pack may no longer function properly if the contacts are dirty or damaged.
- Do not expose the battery pack to water, or allow it to become wet.
- If the battery pack will not be used for a long period of time (a month or more), charge or discharge (use) the battery pack until the remaining battery level becomes 30% to 40% and store it in a cool, dry place.
- This computer prevents overcharging of the battery by recharging only when the remaining power is less than approx. 95% of capacity.
- The battery pack is not charged when the computer is first purchased. Be sure to charge it before using it for the first time. When the AC adaptor is connected to the computer, charging begins automatically.
- If 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.

<i>Only for Field model</i>

- Burns, low-temperature burns, or frostbite may result.
  - Do Not Expose the Skin To This Product When Using the Product In A Hot Or Cold Environment
    ⇒ When it is necessary to expose the skin to this product such as to scan a fingerprint, perform the operation in the shortest time possible.

<Only for Field model>

THIS PRODUCT IS NOT INTENDED FOR USE AS, OR AS PART OF, NUCLEAR EQUIPMENT/SYSTEMS, AIR TRAFFIC CONTROL EQUIPMENT/SYSTEMS, AIRCRAFT COCKPIT EQUIPMENT/SYSTEMS¹, MEDICAL DEVICES OR ACCESSORIES², 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 Electrical Flight Bag (EFB) Systems and Class1 EFB Systems when used during critical phases of flight (e.g., during take-off and landing) and/or mounted on to the aircraft. Class1 EFB Systems and 2 EFB Systems are defined by FAA: AC (Advisory Circular) 120-76A or JAA: JAA TGL (Temporary Guidance Leaflets) No.36.

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

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

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.
The CF-H2 was developed based on extensive research into the real-world portable computing environments. Pursuit of usability and reliability under harsh conditions led to innovations such as the use of magnesium alloy, vibration damped hard disk drive, flexible internal connections. The CF-H2's outstanding engineering has been tested using the strict MIL-STD-810F (for vibration and shock) and IP (for dust and water) based procedures.

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

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

NOTE

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

This product and your Health
This product, like other radio devices, emits radio frequency electromagnetic energy. The level of energy emitted by this product however is far much less than the electromagnetic energy emitted by wireless devices like for example mobile phones. Because this product operates within the guidelines found in radio frequency safety standards and recommendations, we believe this product is safe for use by consumers. These standards and recommendations reflect the consensus of the scientific community and result from deliberations of panels and committees of scientists who continually review and interpret the extensive research literature.

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

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

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

Regulatory Information
We are not responsible for any radio or television interference caused by unauthorized modification of this product. The correction of interference caused by such unauthorized modification will be the responsibility of the user.

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.

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!

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.
Safety Precautions

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

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

Switch off Personal Computer or Handheld Computer incorporating wireless WAN modem before boarding an aircraft. Make sure it cannot be switched on inadvertently. The operation of wireless appliances in an aircraft is forbidden to prevent interference with communications systems. Failure to observe these instructions may lead to the suspension or denial of cellular services to the offender, legal action, or both. For details on usage of this unit in aircrafts please consult and follow instruction provided by the airline.

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

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

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

Do not place the computer with wireless WAN modem in an area over an air bag or in the vicinity where an air bag may deploy. Air bags inflate with great force and if the computer with wireless WAN modem is placed in the air bag deployment area may be propelled with great force and cause serious injury to occupants of the vehicle.

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

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

Some networks require that a valid SIM card be properly inserted in Personal Computer or Handheld Computer incorporating wireless WAN modem.
Laser Devices Caution / Précautions pour le Dispositifs Laser

<Only for model with the following label on the computer>

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

<Uniquement pour les modèles avec l’étiquette suivante placée sur l’ordinateur>

AVERTISSEMENT!
CET APPAREIL UTILISE UN LASER.
L’UTILISATION DE COMMANDES OU DE RÉGLAGES OU L’EXÉCUTION DE PROCÉDURES AUTRES QUE CELLES SPÉCIFIÉES ICI PEUVENT PROVOQUER UNE EXPOSITION À DES RADIATIONS DANGEREUSES.
NE PAS OUVRIR LES COUVERCLES NI ESSAYER DE RÉPARER SOI-MÊME.
CONFIER TOUT TRAVAIL D’ENTRETIEN À UN PERSONNEL QUALIFIÉ.

The following label is put on the computer.
L’étiquette suivant est mis sur de l’ordinateur.

<Only for model with 1D Barcode Reader and the below label on the bottom of the computer>

This equipment is using lasers that comply with US21CFR1040.10, 1040.11, EN60825-1:2007 and IEC60825-1:2007 regulations.
The laser is a “Class 2” laser which is indicated on the label for this product.
Class 2 laser readers use a low power, visible light diode. As with any very bright light source, such as the sun, the user should avoid staring directly into the lightbeam. Momentary exposure to a Class 2 laser is not known to be harmful. Caution-Procedures other than those specified herein may result in hazardous radiation exposure.

Beam divergence
Scan Angle: 47 ± 3° Default / 35 ± 3° Reduced

<Uniquement pour le modèle avec le lecteur de codes barres 1D et l’étiquette ci-dessous, placée au bas de l’ordinateur>

Le laser est de “Class 2 (classe 2)” comme indiqué sur l’étiquette de ce produit.
Les lecteurs lasers de classe 2 utilisent une diode lumineuse visible de puissance faible. Comme pour toutes les sources lumineuses, tel que le soleil, par exemple, l’utilisateur doit éviter de fixer directement le rayon lumineux.
Une exposition brève à un rayon laser de classe 2 n’est pas dangereuse.
Des mesures de sécurité autres que celles indiquées ici pourraient provoquer une exposition aux radiations dangereuse.

Divergence du faisceau
Angle de balayage : 47 ± 3° par défaut / 35 ± 3° réduit

■ Labeling/Marking and Devices Location / Emplacement de l’étiquetage/du marquage et des appareils

Rear / Arrière

Barcode Reader / Lecteur de code à barres
Models for U.S.A.

Federal Communications Commission Radio Frequency Interference Statement
Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the Panasonic Service Center or an experienced radio/TV technician for help.

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

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

FCC RF Exposure Warning:
<Only for model with wireless LAN/wireless WAN/Bluetooth>
- This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
- This equipment has been approved for portable operation, and does not require any minimum spacing be provided between antennas and all person’s body.
- This equipment may not be co-located or operated with any other antenna or transmitter.

<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.

Responsible Party: Panasonic Corporation of North America
Two Riverfront Plaza
Newark, NJ 07102
Tel No: 1-800-LAPTOP5 (1-800-527-8675)

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

<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/

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.

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

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.

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.

<For U.S.A. and Canada>
Regulatory Information

Models for Canada

Canadian ICES-003
CAN ICES-3(B) / NMB-3(B)

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

<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.

FOR USE WITH MODEL NO. : CF-AA6373A
POUR UTILISER AVEC MODÈLE : CF-AA6373A

Models for Europe

<Only for model with a “CE” mark on the bottom of the computer>
Declaration of Conformity (DoC)

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

Hint:
If you want to get a copy of the original DoC of our above mentioned products, please contact our web address: http://www.ptc.panasonic.eu

Authorised Representative:
Panasonic Testing Centre
Panasonic Marketing Europe GmbH
Winsberging 15, 22525 Hamburg, Germany

Models 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
Introduction

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

In these instructions, the names are referred as follows.
- Windows® 8 indicates Windows® 8 Operating System.
- Windows® 7 indicates Windows® 7 Operating System.

Terms and Illustrations in these instructions

- -> Page in these Operating Instructions or in the Reference Manual.
- : Reference to the on-screen manuals.
- CAUTION : Conditions that may result in minor or moderate injury.
- NOTE : Useful and helpful information.
- Windows® 8
  Display “Charm” : Flick toward the center of the screen from the right edge. Alternatively, press and hold (A5) button.
  Click (Settings) and then click (Power).
- Windows® 7
  (Start) - [All Programs] : Click (Start), and then click [All Programs].

<Only when connected to the external keyboard>

- - - Press [ ] (Enter) key.
- Ctrl + F7 : Press and hold Ctrl key, and then press F7 key.
- The display of the key may be different from this manual according to the keyboard used. (e.g. “Delete” instead of “Del”)

<For flash memory model>

Read the term “hard disk” as “flash memory” whenever it appears in this manual.

- 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 Pro 64-bit" as "Windows" or "Windows 8"
  - "Windows® 7 Professional 32-bit Service Pack 1" and "Windows® 7 Professional 64-bit Service Pack 1" as "Windows" or "Windows 7"
  - The computer screen supporting touching methods (using digitizer pen / stylus / your fingers) as the “screen”.
  - The digitizer pen and the stylus as the “pen (included)”. 
- Windows® 8
  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.

Trademarks

Microsoft®, Windows® and the Windows logo are registered trademarks of Microsoft Corporation of the United States and/or other countries.
Intel, Core, and PROSet are either registered trademarks or trademarks of Intel Corporation.
Adobe, the Adobe logo and Adobe Reader are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States and/or other countries.
Bluetooth® is a registered trademark owned by Bluetooth SIG, Inc., U.S.A. and licensed to Panasonic Corporation.
Names of products, brands, etc., appearing in this manual are trademarks or registered trademarks of their respective own companies.
Description of Parts

A: B1 Button
<Only for model with RFID Reader>

B: Barcode Reader Button*1 / B2 Button*2
*1 Only for model with Barcode Reader
*2 Only for model without Barcode Reader

C: Speaker

D: Wireless WAN Antenna
<Only for model with wireless WAN>

E: LCD

F: Pen Holder

G: Smart Card Slot
<Only for model with Smart Card Slot>

H: Fingerprint Reader
<Only for model with Fingerprint Reader>

I: Ambient Light Sensor
Backlight will be turned off with a bright environment so the battery operation time becomes long.

J: LED Indicator

K: DC-IN Jack

L: Power Switch

M: Battery 2 Case

N: Application Buttons 1-5

O: Security Button

P: LAN Port*1 / 2nd USB 2.0 Port*2
*1 Only for model with LAN
*2 Only for model with 2nd USB 2.0 Port

Q: Serial Port

NOTE
• When you do not use the RFID Reader, you can turn it off by using the Panasonic Dashboard.

NOTE
• Off: Power off/Hibernation
• Green: Power on
• Blinking green: Sleep

NOTE
• When you do not use the RFID Reader, you can turn it off by using the Panasonic Dashboard.
A: GPS Antenna
<Only for model with GPS>

B: Wireless LAN Antenna
<Only for model with wireless LAN>

C: RFID Reader
<Only for model with RFID Reader>
→ Reference Manual “RFID Reader”

D: Expansion Bus Connector
→ Reference Manual “Cradle”

E: Barcode Reader
<Only for model with Barcode Reader>
→ Reference Manual “Barcode Reader”

F: Strap

G: Camera
<Only for model with Camera>
→ Reference Manual “Camera”

H: USB 3.0 Port
→ Reference Manual “USB Devices”

I: Battery 1 Case
<Only for model with wireless WAN>
The SIM Card Slot is inside the Battery Case.

J: Wireless LAN Antenna / Bluetooth Antenna
<Only for model with wireless LAN/Bluetooth>

NOTE
• This computer contains a magnet and magnetic products at the battery cover. Avoid leaving metallic object or magnetic media in contact with these areas.

<Only for model with wireless WAN>
• IMEI (International Mobile Equipment Identity) is listed on the label in the Battery 1 case. MEID number is listed on the label in the Battery 2 case.
Preparation

■ Confirmation
① Check and identify the supplied accessories.
If you do not find the described accessories, contact Panasonic Technical Support (page 35-39).

- AC Adaptor ............... 1
- AC Cord .................. 1
- Battery Packs .......... 2

Model No: CF-AA6373A

- Digitizer Pen ............. 1
- Tether ..................... 1
- Soft Cloth ............... 1

Model No: CF-VZSU53AW

<Only for Field model>
Model No: CF-VNP011AU
<Only for Healthcare model>
Model No: CF-VNP016AU

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

② Read the LIMITED USE LICENSE AGREEMENT before breaking the seal on the computer’s packaging (page 30).

■ Inserting the Battery Packs
Insert the battery pack to 2 battery cases.

① Slide the battery cover and open it.
② Insert the battery pack until it securely fits the connector.
③ Close the battery cover.
④ Slide the battery cover until it clicks.

CAUTION
● The computer does not operate without the battery cover locked.
● Make sure the battery cover is securely locked. Otherwise the battery pack may fall when you carry the computer.
● Do not touch the terminals of the battery pack and the computer. Doing so can make the terminals dirty or damaged, and may cause malfunction of the battery pack and the computer.

NOTE
● Note that the computer consumes electricity even when the computer power is off. If the battery pack is fully charged, the battery will fully discharge in the following period of time:
  - When power is off: Approx. 8 weeks
  - In sleep: Approx. 4 days
  - In hibernation: Approx. 9 days
● When the DC plug is not connected to the computer, disconnect the AC cord from your AC wall outlet. Power is consumed simply by having the AC adaptor plugged into an electrical outlet.
First-time Operation

■ About the battery for this computer
This computer uses 2 battery packs. Power is consumed only on either battery pack. Charging is made for the two battery packs at the same time.
  ● When the computer is connected to the Cradle (optional: CF-VEBH21U, CF-VEBH21KU), the battery pack is charged when the AC adaptor is connected to the Cradle.
  ● With the battery charger (optional: CF-VCBU11U) or the Cradle (optional: CF-VEBH21U, CF-VEBH21KU), you can remove the empty battery pack from the computer and charge it while using the computer.
  ● You can insert or remove the battery pack while the computer is ON. Be sure not to remove the battery pack being used by mistake. (Reference Manual “Battery Power”)
  ● Charge the battery earlier when the battery indicator lights in red.

■ Using the digitizer pen
<Only for model with digitizer>
You can use Windows by touching screen in the same way as the mouse. Touch the screen surface with the digitizer pen (included).
To right-click
Touch and hold with the digitizer pen, or press and hold the right button, and then touch the object.

■ Attaching the pen (included) to the computer

1. Pass the shorter loop through the hole.
2. Longer loop

CAUTION
Do not pull the tether with excessive force. The pen (included) may hit the computer, person’s body or other objects when released.

■ Setting up the computer

1. Set your computer to the Cradle.
   ● Set the computer to the cradle, and connect the external keyboard and mouse to the cradle.
   ● Connect the AC adaptor to the Cradle and a power outlet. The battery charging starts automatically.

CAUTION
Do not remove the computer from the Cradle until the “First-time Operation” procedure is completed.
When using the computer for the first time, do not connect any peripheral device except the battery pack, Cradle, keyboard, mouse and AC adaptor.

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

NOTE
After Windows setup, alternatively you can use without Cradle. In that case, connect your computer to a power outlet. The battery charging starts automatically.
First-time Operation

2 Turn on the computer.

Press the power switch (A). The power indicator  lights.

CAUTION
● Do not press the power switch repeatedly.
● The computer will be forcibly turned off if you press and hold the power switch for 4 seconds or longer.
● Once you turn off the computer, wait for 10 seconds or more before you turn on the computer again.
● Do not perform the following operation until the drive indicator  turns off.
  • Connecting or disconnecting the AC adaptor
  • Pressing the power switch
  • Touching the screen, external keyboard or external mouse
● When the CPU temperature is high, the computer may not start up to prevent overheating of the CPU. Wait until the computer cools down, and then turn the power on again. If the computer does not power on even after cooling down, contact Panasonic Technical Support ( pages 35-39).
● Any changes from the default setting of the Setup Utility must not be made until the “First-time Operation” procedure is completed.

3 Setup Windows.

Follow the on-screen instructions.
● The computer restarts several times. Do not touch the keyboard or mouse, and 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.
● During setup of Windows, use the mouse and clicking to move the cursor and to click an item.
● Setup of Windows will take approximately 5 minutes / 20 minutes. Go to the next step, confirming each message on the display.
● You can set the Wireless Network after the setup of Windows is complete.
  Windows 8 If “Choose a network” is displayed, you can select “Connect to a wireless network later”.
  Windows 7 “Join a wireless network” screen may not appear.

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 the 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 / log on to Windows ( page 25).

4 Restart the computer.

Windows 8
① Display “Charm” and click ▼.
② Click [Power] - [Restart].
Windows 7
① Click (Start) -  - [Restart].
5 Create the recovery disc.

If the recovery partition of the hard disk is damaged or have some problems, you can use a recovery disc to install the OS and restore its factory default condition. 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 hard disk, etc. The maximum data volume for each record is 1024 bytes. This information is only used for estimating the cause when the hard disk goes down by any possibility. They are never sent to outside via network nor used for any other purpose except for the purpose described above.

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

("Reference Manual "Checking the Computer’s Usage Status")

Before using wireless function

Windows 8

① Display "Charm" and click - [Change PC Settings] - [Wireless].

Set [Airplane mode] to [Off], and then;


Windows 8

① Click the Wireless Switch Utility icon to show the pop-up menu.

② Select ON for the device you want to enable.

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.

① Windows 8

Open "Computer". Right-click [Computer], then click [Manage].

To open "Computer", proceed as follows on the Start screen.

1. On the Start screen, flick from bottom side to inside of the screen.

2. Click [All apps] on the app bar.

3. Click [Computer] under "Windows System".

Windows 8

① Click (Start) and right-click [Computer], then click [Manage].

A standard user needs to enter an administrator password.

② Click [Disk Management].

③ Right-click the partition for Windows ("c" drive in the default setting), and click [Shrink Volume].

The partition size depends on the computer specifications.

④ Input the size in [Enter the amount of space to shrink in MB] and click [Shrink].

You cannot input a larger number than the displayed size.

To select [Reinstall to the System and OS partitions.] in installing the software (page 24), Windows 8 70 GB / Windows 7 60 GB or more is necessary for [Total size after shrink in MB].

⑤ Right-click [Unallocated] (the shrunk space in the step ④) and click [New Simple Volume].

Follow the on-screen instructions to make the settings, and click [Finish].

Wait until formatting is completed.

NOTE

● You can create an additional partition using remaining unallocated space or newly creating unallocated space.

● To delete a partition, right-click the partition and click [Delete Volume] in the step ③.
Turning On / Turning Off

Turning On
Press and hold the power switch (page 12) until the power indicator (page 12) 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 tablet buttons, screen or external mouse/keyboard

Turning Off
① Shut down the computer.

Windows 8
1. Display “Charm” and click  
2. Click [Power] - [Shut down].

Windows 7
Click (Start) - [Shut down].

NOTE
- To turn off the computer, proceed as follows.
  ① Display “Charm” and click  - [Change PC settings] - [General].
  ② Click [Restart now] under “Advanced startup”
  ③ Click [Turn off your PC].

Precautions 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 after :
    Windows 8 30 minutes / Windows 7 20 minutes (when AC adaptor is connected) of inactivity
    15 minutes (when operating on battery power) of inactivity
- Refer to Reference Manual “Sleep or Hibernation Functions” about resuming from sleep.
On-screen Manual

You can access the following manuals on the computer screen.

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

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

■ To access the on-screen manuals
  Follow the steps below.

Windows 7
To access the Reference Manual:
  Double-click \ on the desktop.

To access the Important Battery Tips:
  Double-click \ on the desktop.
  Alternatively click (Start) - [All Programs] - [Panasonic] - [On-Line Manuals] - [Important Tips].
Handling and Maintenance

Operation environment

Temperature: Operation: <Only for Field model> –10 °C to 50 °C (14 °F to 122 °F) (IEC60068-2-1, 2)*1
<Only for Healthcare model> 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.

*1 Do not expose the skin to this product when using the product in a hot or cold environment. (➔ page 4) If the computer is wet in temperatures of 0 °C (32 °F) or below, freeze damage may occur. Make sure to dry off the computer in such temperatures.

Do not place the computer in the following areas, otherwise the computer may be damaged.
- Near electronic equipment. Image distortion or noise may occur.
- In extremely high or low temperature.
- As the computer can become hot during operation, keep it away from items that are sensitive to heat.

Handling cautions

This computer is designed to minimize shock to parts such as the LCD and the hard disk drive, 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.
- 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.

As the computer can become hot during operation, keep it away from items that are sensitive to heat.

When using peripheral devices

Follow these instructions and the Reference Manual to avoid any damage to the devices. Carefully read the instruction manuals of the peripheral devices.
- Use the peripheral devices conforming to the computer’s specifications.
- Connect to the connectors in the correct direction.
- If it is hard to insert, do not try forcibly but check the connector’s shape, direction, alignment of pins, etc.
- If screws are included, fasten them securely.
- Remove the cables when you carry the computer. Do not pull the cables forcibly.

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

<Only for model with wireless LAN/Bluetooth/Wireless WAN>
- Before using wireless LAN/Bluetooth/Wireless WAN, make the appropriate security settings such as data encryption.

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 3 hours with 2 batteries
- Complete discharge: Approximately 4 hours with 2 batteries
When performing “Battery Recalibration” without shutting down Windows, it may take more time to charge / discharge.
Maintenance

To clean the LCD panel
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.
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
<Only for Field model>
Wipe with a soft dry cloth such as gauze. When using detergent, dip a soft cloth in water-diluted detergent and wring it thoroughly. Do not use rubbing alcohol.
<Only for Healthcare model>
Wipe with a soft dry cloth such as gauze. If needed, use alcohol cleaning agent to clean the computer. When using detergent, dip a soft cloth in water-diluted detergent and wring it thoroughly.

CAUTION
● Do not use ester contained agent, strong alkaline agent, benzene or thinner 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.
Installing Software

Installing software will return the computer to the default condition. When you install the software, the hard disk 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 hard disk. The disk space in the partition is not available to store data.
  To check the Recovery Partition, perform the following methods.
    1. **Windows 8**
       Open “Computer”. Right-click [Computer], then click [Manage].
       To open “Computer”, proceed as follows on the Start screen.
       1. On the Start screen, flick from bottom side to inside of the screen.
       2. Click [All apps] on the app bar.
       3. Click [Computer] under “Windows System”.
    2. **Windows 7**
       Click (Start) and right-click [Computer], then click [Manage].
       - A standard user needs to enter an administrator password.

  - **Windows 8**
    1. **Hard Disk Recovery**
       You can reinstall the OS that was pre-installed at the time of purchase (Windows 8 or Windows 7).
       **Preparation**
       - Prepare the following items:
         - External keyboard
         - Mouse
         - Windows 7 Cradle (optional: CF-VEBH21U, CF-VEBH21KU)
       - Remove all peripherals (except for the external keyboard and mouse).
       - Connect the AC adaptor to the Cradle and do not remove it until installation is complete.

       1 Perform “Remove everything and reinstall Windows”.
         2. Click [Get Started] under “Remove everything and reinstall Windows”.
         3. 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 16).

       **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. On the Start screen, flick from bottom side to inside of the screen, and click [All apps] on the app bar.
         2. Click [Run] under “Windows System” input [tpm.msc] and click [OK].
         3. Click [Clear TPM...] under “Actions” on the right of the “TPM Manager on Local Computer” screen.
         4. Click [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.
            The desktop screen appears.
         6. Click the Desktop tile, and when “TPM is ready” appears, click [Close].

       - **Windows 7**
         1. Turn off the computer and set the computer to the Cradle.
         2. Connect an external keyboard and mouse to the USB port.
3 Turn on the computer, and press F2 or Del while [Panasonic] boot screen is displayed.
The Setup Utility starts up.
  ● If the [Panasonic] boot screen is not displayed, turn on the computer while holding down F2 or Del.
  ● If the password is requested, enter the Supervisor Password.
4 Write down all of the contents of the Setup Utility and press F9.
At the confirmation message, select [Yes] and press (Enter).
5 Press F10.
At the confirmation message, select [Yes] and press (Enter).
The computer will restart.
6 Press F2 or Del while [Panasonic] boot screen is displayed.
The Setup Utility starts up.
  ● If the password is requested, enter the Supervisor Password.
7 Select the [Exit] menu, then select [Recovery Partition] and press Enter (Enter).
8 Click [Reinstall Windows] and click [Next].
The License Agreement screen appears.
9 Click [Yes, I agree to the provisions above and wish to continue!] and click [Next].
10 Select the settings and click [Next].
  ● [Reinstall Windows to the whole Hard 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 17)
  ● [Reinstall to the System and OS partitions].

7 This does not appear if Windows cannot be installed to the recovery partition and the area usable by Windows.
11 At the confirmation message, click [YES].
12 Select OS (32bit or 64bit) and click [OK].
13 At the confirmation message, click [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 performing other operation. Otherwise
    installation may become unavailable as Windows may not start up or the data may be corrupted.
14 When ending screen is displayed, click [OK] to turn off the computer.
15 Turn on the computer.
  ● If the password is requested, enter the Supervisor Password.
16 Perform the “First-time Operation” (page 16).
17 Start the Setup Utility and change the settings as necessary.
18 Perform Windows Update.

■ 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 hard disk may be broken.
• Windows 7: <Only for Windows 7 downgrade model> To change OS from Windows 7 to Windows 8, or vice versa.

NOTE

Windows 7: To change OS from 32 bit to 64 bit, or vice versa, install OS using the recovery partition in the hard disk.

Preparation
  ● Prepare the following items:
    • Recovery disc(s) (Reference Manual “Recovery Disc Creation Utility”)
    • DVD drive (optional) (refer to recent catalogs and other sources for information about the products available)
    • Cradle (optional: CF-VEBH21U, CF-VEBH21KU)
    • External keyboard
    • Mouse
  ● Remove all peripherals except the ones described above.
  ● Connect the AC adaptor and do not remove it until installation is complete.
Installing Software

1. Turn off the computer and set the computer to the Cradle.
2. Connect the DVD drive and an external keyboard and mouse to the USB port.
   - **Windows 8**
     2. Click [Restart now] under "Advanced startup".
   - **Windows 7**
     Turn on the computer, and press F2 or Del while [Panasonic] boot screen is displayed.
     ● If the [Panasonic] boot screen is not displayed, turn on the computer while holding down F2 or Del.
     ● If the password is requested, enter the Supervisor Password.
   At the confirmation message, select [Yes] and press Enter (Enter).
5. Check the [UEFI Boot] setting of the Setup Utility.
   [UEFI Boot] should be set to as follows.
   - When the recovery disc for Windows 8 is used: [Enabled]
   - When the recovery disc for Windows 7 is used: [Disabled]
6. Set the Recovery Disc into the DVD drive.
   At the confirmation message, select [Yes] and press Enter (Enter).
   The computer will restart.
8. Press F2 or Del while [Panasonic] boot screen is displayed.
   The Setup Utility starts up.
   ● If the password is requested, enter the Supervisor Password.
9. Select the [Exit] menu, then select your DVD drive in [Boot Override].
10. Press Enter (Enter).
    The computer will restart.
11. Click [Reinstall Windows] and click [Next].
12. **Windows 8** At the confirmation message, click [YES].
13. At the License Agreement screen, click [Yes, I agree to the provisions above and wish to continue!] and click [Next].
14. When the recovery disc for Windows 8 is used, click [Next].
    When the recovery disc for Windows 7 is used, select the setting and click [Next].
    ● [Reinstall Windows to the whole Hard 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 17).
    ● [Reinstall to the System and OS partitions.]*
      Select this option when the hard disk has already been divided into several partitions. For how to create a new partition, refer to “To change the partition structure” (page 17).
      You can keep the partition structure.
    * This does not appear if Windows cannot be installed to the recovery partition and the area usable by Windows.
15. At the confirmation message, click [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.
16. When ending screen is displayed, remove the Recovery Disc.
    Follow the on-screen instructions.
    Some models may take approximately 40 minutes.
17. Perform the “First-time Operation” (page 16).
18. Start the Setup Utility and change the settings as necessary.
20. **Windows 8** <Only for model with TPM> Clear TPM (page 22).
# Troubleshooting (Basic)

Follow the instructions below when a problem has occurred. There is also an advanced troubleshooting guide in the “Reference Manual”. For a software problem, refer to the software’s instruction manual. If the problem persists, contact Panasonic Technical Support ( pages 35-39). You can also check the computer’s status in the PC Information Viewer ( Reference Manual “Checking the Computer’s Usage Status”).

* When operating the computer with the keyboard, you need to set the computer to the Cradle and connect the external keyboard and AC adaptor to the Cradle.

## Starting Up

<table>
<thead>
<tr>
<th>Problem</th>
<th>Solution</th>
</tr>
</thead>
</table>
| Cannot start up. The power indicator or battery indicator is not lit.  | - Connect the AC adaptor.  
- Insert a fully charged battery.  
- Remove the battery pack and the AC adaptor, then connect them again.  
- If a device is connected to the USB port, disconnect the device, or set [Legacy USB Support] to [Disabled] in the [Advanced] menu of the Setup Utility.  
- Check the [UEFI Boot] setting of the Setup Utility. [UEFI Boot] should be set to Windows 8 [Enabled] / Windows 7 [Disabled]. |
| The power is turned on but “Warming up the system (up to 30 minutes)” appears. | - The computer is warming up before start up. Wait for the computer to start up (takes up to 30 minutes). If, “Cannot warm up the system” is displayed, the computer failed to warm up and does not start. In this case, turn off the computer, leave it in an environment of 5 °C (41 °F) or higher temperature for about an hour, and then turn on the power again. |
| Cannot turn on the computer. The computer does not resume from sleep  | - Leave it in an environment of 5 °C (41 °F) or higher temperature for about an hour, then turn on the power again.  |
(<Model without HDD heater>The power indicator blinks rapidly in green /  
<Model with HDD heater> The battery indicator blinks alternately in green and orange.)
| You have forgotten the password.                                       | - Supervisor Password or User Password: Contact Panasonic Technical Support ( pages 35-39).  
- Administrator password:  
  - If you have another account with Administrator authority, log-on with it, then delete the password for the problem account.  
  - If you have a password reset disk, 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, you can reset the administrator password. You need to reinstall Windows ( page 22) and set up Windows, and then set a new password. |
| Cannot log on to Windows. (“The user name or password is incorrect” is displayed.) | - The user name (account name) includes an “@”.  
  - If another user account exists:  
    Log on to Windows using another user account, and delete the account that includes “@”. Then create a new account.  
  - If no other account exists:  
    You need to reinstall Windows ( page 22). |
| “Remove disks or other media. Press any key to restart” or a similar message appears. | - If a device is connected to the USB port, disconnect the device, or set [Legacy USB Support] to [Disabled] in the [Advanced] menu of the Setup Utility.  
- If the problem persists after having tried the above solutions, it may be a hard disk failure. Contact Panasonic Technical Support ( pages 35-39).  
### Troubleshooting (Basic)

#### Starting Up

<table>
<thead>
<tr>
<th>Situation</th>
<th>Possible Solutions</th>
</tr>
</thead>
</table>
| The date and time are incorrect. | - Make the correct settings.  
  1. Open the Control Panel.  
  2. Click [All apps] on the app bar.  
  3. Click [Control Panel] under “Windows System”.  
  4. Click (Start) - [Control Panel]. |
| Windows startup and operation is slow. | - Press F9 in 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.) |
| [Executing Battery Recalibration] screen appears. | - The Battery Recalibration was canceled before Windows was shut down last time. To start up Windows, turn off the computer by the power switch, and then turn on. |
  - The Windows password can be used instead of the password set in the Setup Utility.  
  - To set a password  
    1. Display “Charm” and click [Change PC settings] - [Users].  
    2. Click [Create a password] under “Sign-in options”.  
    3. Click (Start) - [Control Panel] - [User Accounts and Family Safety] - [Add or remove user accounts].  
    - Follow the on-screen instructions.  
    - Perform the following steps, and the password will be requested when the computer resumes from sleep (Windows 7) / hibernation.  
    1. Open the Control Panel.  
    2. Click (Start) - [Control Panel] under “Windows System”.  
    3. Click [System and Security] - [Require a password when the computer wakes] and add a check mark for [Require a password]. |
| Cannot resume. | - 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.  
  - In sleep mode, the AC adaptor or battery pack 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

### Starting Up

The error message "Debug Assertion Failed!" appears.

- This error message may appear in the following cases.
  - When you log on to Windows for the first time after setting up Windows with First-time Operation.
  - When you create a user account, and log on to Windows for the first time using that account.

  In such case, click [Retry], and then click [Retry] on the next error message. The same error will not occur again after performing this operation.

Other startup problems.

- Press F9 in 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.
- Remove all peripheral devices.
- Check to see if there was a disk error.
  1. Remove all peripheral devices including an external display.
  2. Open “Computer”.
     - Windows 8
       1. On the Start screen, flick from bottom side to inside of the screen.
       2. Click [All apps] on the app bar.
       3. Click [Computer] under “Windows System”.
     - Windows 7
       1. Click (Start) - [Computer].
       2. Right-click [Local Disk (C:)], and click [Properties].
       3. Click [Tools] - [Check Now].
      - A standard user needs to enter an administrator password.
      - Select the option in [Check disk options] and click [Start].
      - Click [Schedule disk check] and restart the computer.
  - Windows 7 Start the computer in Safe Mode and check the error details. When the [Panasonic] boot screen disappears*¹ at startup, press and hold F8 until the Windows Advanced Options Menu is displayed.


### Shutting down

Windows does not shut down.

- Remove the computer from the Cradle.
- Wait one or two minutes. It is not a malfunction.

### Display

No display.

- When using an external display,
  - Check the cable connection.
  - Turn on the display.
  - Check the settings of external display.
- The display is turned off by the power-saving function. To resume, do not press the direct selection keys, but press any other key like Ctrl.
- The computer entered sleep or hibernation by the power-saving function. To resume, press the power switch.

The screen is dark.

- The screen might be darker when the AC adaptor is not connected. Adjust the brightness by using Panasonic Dashboard. 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.

The screen is disordered.

- Changing the number of display colors and resolution may affect the screen. Restart the computer.
- Connecting/disconnecting an external display may affect the screen. Restart the computer.
- Windows 7 Resuming from sleep or hibernation may affect the screen of the external display. Restart the computer.
# Troubleshooting (Basic)

## Display

<table>
<thead>
<tr>
<th>Description</th>
<th>Instructions</th>
</tr>
</thead>
</table>
| During Simultaneous display, one of the screens becomes disordered. | - When using the Extended Desktop, use the same display colors for the external display as those used by the LCD.  
- If you continue to experience problems, try changing the display. Right-click on the desktop, and click [Graphics Properties].  
- Simultaneous display cannot be used until Windows startup is complete (during Setup Utility, etc.). |
| The external display does not work normally. | - If the external display does not support the power saving function, it may not work normally when the computer enters the power saving mode. Turn off the external display. |

*<Only for model with GPS>*

<table>
<thead>
<tr>
<th>Description</th>
<th>Instructions</th>
</tr>
</thead>
</table>
| The cursor cannot be controlled properly. | - Operate the following steps.  
  2. Press F10 and select [Yes] at the confirmation message, and press Enter (Enter).  
  3. Log on to Windows as an administrator.  
  4. Windows 8  
   1. On the Start screen, flick from bottom side to inside of the screen, and click [All apps] on the app bar.  
   2. Click [Run] under “Windows System”, input c:\util\drivers\gps\GPS.reg and click [OK].  
  Windows 7  
   1. Click (Start) and input “c:\util\drivers\gps\GPS.reg” in [Search programs and files], and press Enter (Enter).  
  5. Click [Yes], click [Yes] and click [OK].  
  Then restart the computer.  
  6. Press F2 or Del while [Panasonic] boot screen is displayed.  
  8. Press F10 and select [Yes] at the confirmation message, and press Enter (Enter). |

## Screen Operation

<table>
<thead>
<tr>
<th>Description</th>
<th>Instructions</th>
</tr>
</thead>
</table>
| The cursor does not work. | - When using the external mouse, connect it correctly.  
- Restart the computer using the external keyboard.  
- If the computer does not respond to keyboard commands, read “No response.” (→ below). |
| Cannot point the correct position. | - Perform the screen calibration (→ Reference Manual “Screen Input Operation”).  
- Use the included pen.  
- On the Windows login screen or the Welcome screen, you may not be able to point the correct position using the included pen. Use the keyboard or the touch pad to sign in / log on. |

*Windows 8*  
“Charm” does not always appear by finger operation.  

<table>
<thead>
<tr>
<th>Description</th>
<th>Instructions</th>
</tr>
</thead>
</table>
| The cursor does not work. | - Flick toward the center of the screen from the right edge or press and hold (A5) button.  
- Use the included pen. |

## On-screen Document

<table>
<thead>
<tr>
<th>Description</th>
<th>Instructions</th>
</tr>
</thead>
</table>
| The document of PDF format is not displayed. | - Install Adobe Reader.  
  1. Log on to Windows as an administrator.  
  2. Click (Start) and input “c:\util\reader\en\Pinstall.bat” in [Search programs and files] then press Enter (Enter).  
  3. Update Adobe Reader to its latest version. If your computer is connected to the internet, start up Adobe Reader and click [Help] - [Check for Updates]. |
### Others

<table>
<thead>
<tr>
<th>Problem Description</th>
<th>Solution</th>
</tr>
</thead>
</table>
| No response.                                             | ● Press [Esp] (Security) button to open Task Manager and close the software application that is not responding.  
                                                         ● An input screen (e.g., password input screen at startup) may be hidden behind another window. Press \[Alt + Tab\] to check.  
                                                         ● Press the power switch for 4 seconds or longer to shut down the computer, and then press the power switch to turn it on. If the application program does not work normally, uninstall and reinstall the program. To uninstall,  
                                                         ① Open the Control Panel.  
                                                         ② [Start] - [Control Panel].  
                                                         ③ Click [Program] - [Uninstall a program]. |
| The battery indicator lights in red.                     | ● Connect the AC adaptor to charge the battery. The computer may not enter hibernation, even if [Hibernate] is selected as the action when the battery level becomes low. |
| The recovery disc for Windows 8 is not functioning.      | ● Perform recovery using the recovery disc for Windows 7 first, and then perform recovery using the recovery disc for Windows 8. |
| The computer operation is not stable.                    | ● Restart the computer.  
                                                         ● Windows 8: Try performing the following steps.  
                                                         ① Display “Charm” and click [Esp] - [Change PC settings] - [General].  
                                                         ② Click [Get Started] under “Refresh your PC without affecting your files”.  
                                                         Follow the on-screen instructions. |
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Specifications

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

- To check the model number:
  
  Check the bottom of the computer or the box the computer came in at the time of purchase.

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

- Processor Speed: CPU speed, [Memory Size]: Memory size, [Hard Disk]: Hard disk drive size

## Main Specifications

<table>
<thead>
<tr>
<th>Model No.</th>
<th>CF-H2PPCAXBM</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU</td>
<td>Intel® Core™ i5-3437U Processor (3 MB** cache, up to 2.90 GHz) with Intel® Turbo Boost Technology</td>
</tr>
<tr>
<td>Chipset</td>
<td>Mobile Intel® 7 QM77 Express Chipset</td>
</tr>
<tr>
<td>Video Controller</td>
<td>Intel® HD Graphics 4000 (Built-in CPU)</td>
</tr>
<tr>
<td>Main Memory</td>
<td>4 GB** DDR3L SDRAM</td>
</tr>
<tr>
<td>Video Memory</td>
<td>Windows 8: UMA 1792 MB** Max.</td>
</tr>
<tr>
<td>Storage**</td>
<td>Hard disk drive: 500 GB</td>
</tr>
<tr>
<td>Display Method</td>
<td>10.1&quot; XGA type (TFT) (1024 × 768 dots) 65,536/16,777,216 colors**</td>
</tr>
<tr>
<td>Bluetooth**</td>
<td>=&gt; page 33</td>
</tr>
<tr>
<td>GPS**</td>
<td>Chip: SiRF starIII Accuracy: 10 m (2DRMS), &lt;5 m (2DRMS, SBAS) Protocol message: GGA, GSA, GSV, RMC, VTG</td>
</tr>
<tr>
<td>Wireless WAN**</td>
<td>Sierra Wireless™ High-speed module</td>
</tr>
<tr>
<td>LAN**</td>
<td>IEEE 802.3 10BASE-T / IEEE 802.3u 100BASE-TX / IEEE 802.3ab 1000BASE-T</td>
</tr>
<tr>
<td>Sound</td>
<td>WAVE and MIDI playback, Monaural speaker, Intel® High Definition Audio subsystem support</td>
</tr>
<tr>
<td>Security Chip</td>
<td>TPM (TCG V1.2 compliant)**</td>
</tr>
<tr>
<td>Fingerprint Reader**</td>
<td>Array Size: 192 × 4 pixels, Image Size: 192 × 512 pixels, Image Resolution: 508 DPI</td>
</tr>
<tr>
<td>Camera**</td>
<td>1280x720 dots, 30 fps (Video) 2048x1536 dots (still)</td>
</tr>
<tr>
<td>RFID Reader**</td>
<td>RF frequency: 13.56 MHz, compatible with ISO14443 TYPE-A, ISO14443 TYPE-B, ISO15693</td>
</tr>
<tr>
<td>Barcode Reader**</td>
<td>Read Pattern: CMOS Reading, Light Source: LED, Minimum Optical Resolution: 1D - 0.127 mm (5 mil), 2D - PDF417 0.17 mm (67 mil), Angular Orientation Tolerances: Skew ± 60° (“front to back”), Pitch ± 60° from plane parallel to symbol (“side-to-side”), Ambient Light Immunity Artificial Lighting Sunlight: 100,000x (9290 ft. candles)</td>
</tr>
<tr>
<td>Smart Card Slot**</td>
<td>1 slot</td>
</tr>
<tr>
<td>Interface</td>
<td>USB ports (USB 3.0 × 1, USB 2.0 × 1)<strong>/ LAN Port (RJ-45)</strong>/ Serial Port (Dsub 9-pin male) / Expansion Bus Connector (Dedicated 19-pin female)</td>
</tr>
<tr>
<td>Pointing Device</td>
<td>Touchscreen/Digitizer</td>
</tr>
<tr>
<td>Button</td>
<td>Handle × 2**/Application × 5, Security</td>
</tr>
<tr>
<td>Power Supply</td>
<td>AC adaptor or Battery pack</td>
</tr>
<tr>
<td>AC Adaptor**</td>
<td>Input: 100 V to 240 V AC, 50 Hz/60 Hz, Output: 16 V DC, 3.75 A</td>
</tr>
<tr>
<td>Battery Pack</td>
<td>Lithium 7.2 V, 3400 mAh (typ.), 3200 mAh (min) x 2 packs</td>
</tr>
<tr>
<td>Operating Time**</td>
<td>Approx. 7 hours</td>
</tr>
<tr>
<td>Charging Time**</td>
<td>Power on Approx. 3 hours</td>
</tr>
<tr>
<td></td>
<td>Power off Approx. 3 hours</td>
</tr>
<tr>
<td>Power Consumption**</td>
<td>Approx. 30 W**/ Approx. 50 W (Maximum when recharging in the ON state)</td>
</tr>
<tr>
<td>Physical Dimensions (W × D × H)</td>
<td>274 mm × 58 mm × 268 mm (10.8&quot; × 2.3&quot; × 10.6&quot;)</td>
</tr>
<tr>
<td>Weight**</td>
<td>(including the hand strap) Approx. 1.61 kg {Approx. 3.5 lb.}</td>
</tr>
</tbody>
</table>
■ Main Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
</table>
| **Operation Environment**     | Temperature: –10 °C to 50 °C (14 °F to 122 °F) (IEC60068-2-1, 2)\(^2\)  
Humidity: 30% to 80% RH (No condensation) |
| **Storage Environment**       | Temperature: –20 °C to 60 °C (–4 °F to 140 °F)  
Humidity: 30% to 90% RH (No condensation) |

■ Software

| Base OS                      | Windows® 8 Pro 64-bit  
Windows® 7  
Windows® 7 Professional 32-bit Service Pack 1 / Windows® 7 Professional 64-bit Service Pack 1 |
|-----------------------------|---------------------------------------------------------------|
| Installed OS\(^2\)\(^5\)     | Windows® 8 Pro 64-bit  
Windows® 7 Professional 32-bit Service Pack 1 (downgraded to Windows® 7)\(^2\)\(^6\) /  
Windows® 7 Professional 64-bit Service Pack 1 (downgraded to Windows® 7)\(^2\)\(^6\) |

Pre-installed Software\(^2\)\(^5\)

- Adobe Reader, PC Information Viewer, Intel© PROSet/Wireless Software Utility\(^4\), Bluetooth Stack for Windows by TOSHIBA\(^4\), Hand Writing Utility, Panasonic Dashboard, Application Button Setting Utility, Cleaning Utility, Display Switch Utility, Battery Recalibration Utility, Infineon TPM Professional Package\(^1\)\(^0\)\(^2\)\(^7\), Camera Utility\(^1\)\(^2\)\(^7\), Right Click Utility, Camera Light Switch Utility\(^1\)\(^3\)\(^2\)\(^7\), Recovery Disc Creation Utility, Calibration Utility, Manual Selector, Microsoft Office Trial\(^2\)\(^8\)
- Wireless Toolbox
- Wireless Switch Utility, Wireless Connection Disable Utility\(^1\)\(^7\), Quick Boot Manager, Software Keyboard, Protector Suite\(^1\)\(^1\)\(^1\)\(^7\)
- Aptio Setup Utility, PC-Diagnostic Utility, Hard Disk Data Erase Utility\(^2\)\(^9\)

■ Wireless LAN\(^3\)\(^5\)

| Data Transfer Rates         | IEEE802.11a: 54/48/36/24/18/12/9/6 Mbps (automatically switched)\(^3\)\(^2\)  
IEEE802.11b: 11/5.5/2.3/1 Mbps (automatically switched)\(^3\)\(^2\)  
IEEE802.11g: 54/48/36/24/18/12/9/6 Mbps (automatically switched)\(^3\)\(^2\)  
IEEE802.11n\(^5\)\(^3\):  
(HT20) GI\(^3\)\(^2\) = 400ns: 150/130/115/86/72/65/57/43/28/14/7 Mbps (automatically switched)\(^3\)\(^2\)  
GI\(^3\)\(^2\) = 800ns: 130/117/104/78/65/58/52/39/26/13/6 Mbps (automatically switched)\(^3\)\(^2\)  
(HT40) GI\(^3\)\(^2\) = 400ns: 300/270/240/180/150/135/120/90/60/45/30/15 Mbps (automatically switched)\(^3\)\(^2\)  
GI\(^3\)\(^2\) = 800ns: 270/243/216/162/135/121/108/81/54/40/27/13 Mbps (automatically switched)\(^3\)\(^2\) |
| Standards Supported         | IEEE802.11a/IEEE802.11b/IEEE802.11g/IEEE802.11n |
| Transmission Method         | OFDM system, DS-SS system |
140/149/153/157/161/165  
IEEE802.11b/IEEE802.11g: Channels 1-11  
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\(^4\)

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

*1 1 KB = 1,024 bytes / 1 MB = 1,048,576 bytes / 1 GB = 1,073,741,824 bytes

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

*3 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.

*4 A 16,777,216 color display is achieved by using the dithering function.

*5 Only for model with Wireless LAN.

*6 Only for model with Bluetooth.

*7 Continua Certified, compliant design guideline version 1.5, with Blood Pressure Monitor, Cardiovascular, Weighing Scale, Thermometer, Pulse Oximeter and Glucose Meter device.

*8 Only for model with Wireless WAN. The specification may differ depending on the models.

*9 Only for model with LAN. Some devices cannot be used depending on the port type.

*10 Only for model with Wireless LAN. The specification may differ depending on the models.

*11 Only for model with Bluetooth.

*12 Only for model with Camera. The specification may differ depending on the models.

*13 Only for model with RFID Reader.

*14 Only for model with Camera. The specification may differ depending on the models.

*15 Only for model with Camera. The specification may differ depending on the models.

*16 Only for model with Camera. The specification may differ depending on the models.

*17 Does not guarantee operation of all USB-compatible peripherals.

<Only for North America>

This computer is supplied with a 125 V AC compatible AC cord.

20-M-1

*18 Rated power consumption.         23-E-1

*19 Measured at LCD brightness: 60 cd/m².

*20 Varies depending on the usage conditions, or when an external device is attached.

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

*22 Approx. 0.3 W when the battery pack is fully charged (or not being charged) and the computer is OFF.

<When using with 115 V AC>

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

*23 Average value. May differ depending on models.

<Only for Field model>

Do not expose the skin to this product when using the product in a hot or cold environment. ( page 4)

When using in hot or cold environment, some peripherals may fail to work properly. Check the operation environment of the peripherals.

Using this product continuously in a hot environment will shorten the product life. Avoid use in these types of environments.

The computer consumes power when the hard disk is warming up during startup. Therefore, if you are using battery power and the remaining power is low, the computer may not start up.

*24 To continue using this software after the end of the trial, purchase a license by following the on-screen instructions.

*25 Must be installed before use.

*26 Perform on the recovery disc.

<Windows 7>

Alternatively perform on the hard disk recovery partition.

*27 These are speeds specified in IEEE802.11a/b/g/n standards. Actual speeds may differ.

*28 Available when set to “WPA-PSK”, “WPA2-PSK” or “none”.

*29 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
- Tablet PC (FZ-##) – 3 Years
- Ultra-Mobile (CF-U#/#F-H# Series) – 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 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*. PANASONIC WILL NOT BE RESPONSIBLE FOR ANY LIABILITY RESULTING FROM THE USE OF THIS PRODUCT ARISING OUT OF THE FOREGOING USES.

* AIRCRAFT COCKPIT EQUIPMENT/SYSTEMS include 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
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.

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

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 1-800-668-8586 between 9:00 A.M. and 5:00 P.M., Eastern Time Zone, Mon. – Fri. (excluding holidays) for instructions on how to obtain service. A purchase receipt or other proof of date of original purchase is required before warranty service is performed. Defective parts covered by this Limited Warranty will be repaired or replaced with new or comparable rebuilt parts on an exchange basis. Warranty replacement or repair is subject to the terms of this Limited Warranty for the balance of the original period of warranty coverage.

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

Claim Procedure – In the event of a defect in material or workmanship in the media during the sixty (60) days warranty period, and you return it, transportation costs prepaid, to Panasonic Canada Inc., Computer Products Marketing, 5770 Ambler Drive, Mississauga, Ontario L4W 2T3, within the warranty period, together with a copy of your purchase receipt, and an explanation of the suspected defect, PCI will replace in Canada the defective disk(s) or other media. **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) 120-78A or JAA: JAA TGL (Temporary Guidance Leaflets) No.36.**

APPENDIX

SOFTWARE MEDIA LIMITED WARRANTY

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

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

Claim Procedure – In the event of a defect in material or workmanship in the media during the sixty (60) days warranty period, and you return it, transportation costs prepaid, to Panasonic Canada Inc., Computer Products Marketing, 5770 Ambler Drive, Mississauga, Ontario L4W 2T3, within the warranty period, together with a copy of your purchase receipt, and an explanation of the suspected defect, PCI will replace in Canada the defective disk(s) or other media.

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

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

GENERAL

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

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

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

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

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

Eléments couverts | Durée de couverture | Type de couverture
---|---|---
• Ordinateurs blocs-notes (sauf batteries) et adaptateur secteur | Trois (3) ans à partir de la date d’achat original. | Défauts de pièces et de fabrication
• 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) | Ecran mobile sans fil | Un (1) an à partir de la date d’achat original. | Défauts de pièces et de fabrication
• Ensembles PDRC – ACL et clavier | Écran mobile sans fil | Défauts de pièces et de fabrication
• Duplicateur de port
• Ordinateurs de poche | Défauts de pièces et de fabrication
• Batterie
• Chargeur de batterie
• Adaptateur pour voiture
• Périphériques USB
• Stylet pointeur standard ou pour numériseur graphique | Quatre-vingt-dix (90) jours à partir de la date d’achat original. | Défauts de pièces et de fabrication
• Tous les articles consommables incluant les pellicules protectrices, chiffons de nettoyage, étuis de transport, longues 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 de l’émetteur de la garantie applicable, en prenant soin de l’émetteur de 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 plus du dommage, 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.

La présente garantie limitée ne s’applique pas si la ou les disquettes ou autre support ont été utilisés dans des conditions anormales ou abusives, de la négligence, 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.

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

GARANTIE LIMITÉE – SUPPORTS DES LOGICIELS

Couverture – Panasonic Canada Inc. (« PCI ») garantit à l’acheteur original que la ou les disquettes ou tout autre support sur lequel le ou les programmes sont fournis sont exempts de défauts de pièces et de fabrication dans des conditions normales d’utilisation au Canada, et ce, pour une période de soixante (60) jours suivant la date de réception indiquée sur la preuve d’achat. LA PRÉSENTE GARANTIE EST LA SEULE OFFERTE PAR PCI COUVRANT LES SUPPORTS DE LOGICIEL. 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.

Le présent document ne couvre pas les logiciels qui sont installés par 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 DES LOGICIELS, PRODUITS INFOMATIQUES, PÉRIPHÉRIQUES ET ACCESSOIRES. SOUS AUCUNE CIRCONSTANCE PCI NE PORRRA ÊTRE TENUE RESPONSABLE DES DOMMAGES SPÉCIAUX, INDIRECTS OU CONSÉCUTIFS ATTRIBUABLES À UNE MANQUENT AUX GARANTIES LIMITÉES DÉCRITES DANS LE PRESENT DOCUMENT OU À L’UTILISATION DU PRODUIT INFOMATIQUE, Y COMPRIS, SANS RESTRICTION, LA PERTES DE DONNÉES, D’AFFAIRES, D’ACHALANDAGE OU DE PROFIT DANS TOUS LES CAS, LA RESPONSABILITÉ MAXIMALE DE PCI POUR TOUT MANQUEMENT NE PORRRA EXCÉDER LE PRIX DE VENTE DU PRODUIT INFOMATIQUE.

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

Garanties 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 50km of capital city locations. Please ensure your unit is properly packed for return to the service location.

11. The warranties hereby conferred do not extend to, and exclude, any costs associated with the installation, de-installation or re-installation of a product, including costs related to the mounting, demounting or remounting of any screen, (and any other ancillary activities), delivery, handling, freighting, transportation or insurance of the product or any part thereof or replacement of and do not extend to, and exclude, any damage or loss occurring by reason of, during, associated with, or related to such installation, de-installation, re-installation or transit.

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

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

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

** AIRCRAFT COCKPIT EQUIPMENT/SYSTEMS include 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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PRO-031-F05 Issue: 4.0
11-11-2011