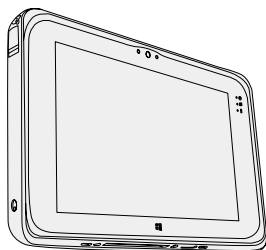


# Panasonic®



## OPERATING INSTRUCTIONS

### Basic Guide

### Tablet Computer

Model No. **FZ-M1** series

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### Getting Started

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Getting Started

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Troubleshooting

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Appendix

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

# Introduction

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

## ■ Terms and illustrations in these instructions

|                                                                                                              |                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CAUTION</b> :                                                                                             | Conditions that may result in minor or moderate injury.                                                                                                                     |
| <b>NOTE</b> :                                                                                                | Useful and helpful information.                                                                                                                                             |
| • “Windows 10 Pro 64-bit” as                                                                                 | “Windows” or “Windows 10”                                                                                                                                                   |
| <b>Enter</b> :                                                                                               | Press [Enter] key.                                                                                                                                                          |
| <b>Alt + Del</b> :                                                                                           | Press and hold [Alt] key, and then press [Del] key.                                                                                                                         |
| → :                                                                                                          | Page in these Operating Instructions.                                                                                                                                       |
|  :                          | Reference to the on-screen manuals.                                                                                                                                         |
|  (Start) - [All Programs] : | Touch  (Start), and then touch [All Programs]. You may need to double-touch in some cases. |

- Some illustrations are simplified to help your understanding and may look different from the actual unit.
- If you do not sign in 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.
  - “Multilingual User Interface” as “MUI”
- Screen messages are explained in [English (United States)].  
(Depending on the language preference, some screen messages in these instructions are different from the actual screen messages. For example, [Flight mode] may be displayed instead of [Airplane mode] in some language preference.)

## ■ Disclaimer

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

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## ■ On-screen Manual

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

### ● Operating Instructions - Reference Manual

The Operating Instructions - 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 in the optimum condition to obtain longer operation time.

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

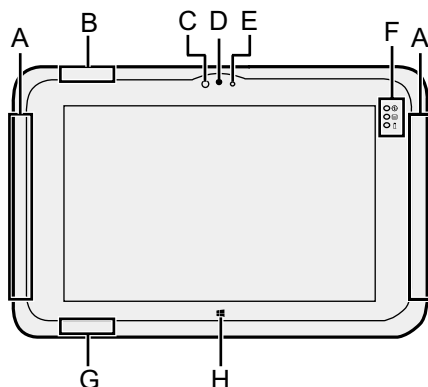
On the Start screen, touch the [Manual Selector] tile, and select the on-screen manual.

## NOTE

- [Contents] tab or [Search] tab is displayed on the left side of the window. Select tab and display the desired item.

# Description of Parts

## Front side



### A: Wireless WAN Antenna

<Only for model with wireless WAN>

→ *Operating Instructions - Reference Manual* "Wireless WAN"

### B: Wireless LAN Antenna

<Only for model with wireless LAN>

→ *Operating Instructions - Reference Manual* "Wireless LAN"

### C: Ambient Light Sensor

The ambient light sensor is equipped with an automatic brightness adjustment function that adjusts the display screen. (→ page 16)

### Front Camera

→ *Operating Instructions - Reference Manual* "Camera"

### D: Camera Lens

### E: Camera Indicator

### F: LED Indicators

: Power Indicator  
Off: Display off/Hibernation,  
Green: Display on.

: Drive status

: Battery status  
→ page 15 "When the battery indicator does not light on"  
→ *Operating Instructions - Reference Manual* "Battery Power"

### G: Wireless LAN Antenna / Bluetooth Antenna

<Only for model with wireless LAN>

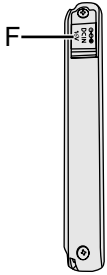
<Only for model with Bluetooth>

→ *Operating Instructions - Reference Manual* "Wireless LAN"  
"Bluetooth"

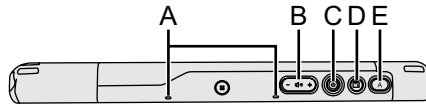
### H: Windows Button

→ *Operating Instructions - Reference Manual* "Tablet Buttons"

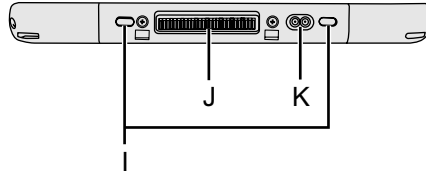
## Left side



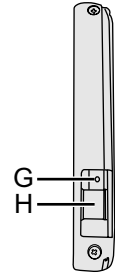
## Top



## Bottom



## Right side



### **A: Microphone**

### **B: Volume Button**

→  *Operating Instructions - Reference Manual* "Tablet Buttons"

### **C: Power Switch**

### **D: Rotation Lock Button**

→  *Operating Instructions - Reference Manual* "Display Rotation"

### **E: A Button**

→  *Operating Instructions - Reference Manual* "Tablet Buttons"

### **F: DC-IN Jack**

### **G: Headset Jack**

A headset or headphone can be connected.

### **H: USB3.0 Port**

→  *Operating Instructions - Reference Manual* "USB Devices"

### **I: Security Lock**

A Kensington cable can be connected.

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

### **J: Expansion Bus Connector**

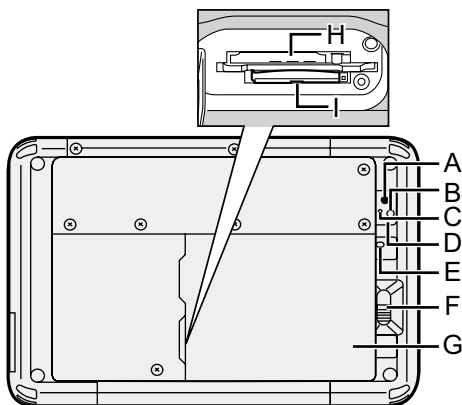
→  *Operating Instructions - Reference Manual* "Cradle"

### **K: External Antenna Connector**

<Only for model with wireless WAN>

# Description of Parts

## Rear side



### Rear Camera

→ *Operating Instructions - Reference Manual "Camera"*

- A: Camera Lens**
- B: Camera Light**
- C: Camera Indicator**

### D: Speaker

### E: Battery Indicator

<Only for model with Built-in Bridge Battery>

### F: Battery Latch

→ *Operating Instructions - Reference Manual "Battery Power"*

### G: Battery Pack

### H: microSIM Card Slot

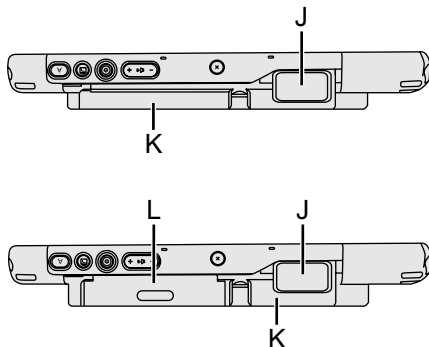
<Only for model with wireless WAN>

→ *Operating Instructions - Reference Manual "Wireless WAN"*

### I: microSD Memory Card Slot

→ *Operating Instructions - Reference Manual "microSD Memory Card Slot"*

## Top (optional)



### J: Barcode Reader / LAN Port

<Only for model with Barcode Reader>

→ *Operating Instructions - Reference Manual "Barcode Reader"*

<Only for model with LAN Port>

→ *Operating Instructions - Reference Manual "LAN"*

### K: Built-in Bridge Battery

<Only for model with Built-in Bridge Battery>

### L: Smart Card Reader / Magnetic Stripe Card Reader / Contactless Smart Card Reader

<Only for model with Smart Card Reader>

→ *Operating Instructions - Reference Manual "Smart Card"*

<Only for model with Magnetic Stripe Card Reader>

→ *Operating Instructions - Reference Manual "Magnetic Stripe Card Reader"*

<Only for model with Contactless Smart Card Reader>

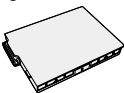
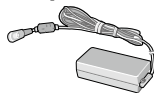
→ *Operating Instructions - Reference Manual "Contactless Smart Card Reader"*

# First-time Operation

## ■ Preparation

- ① Check and identify the supplied accessories.  
If you do not find the described accessories, contact Panasonic Technical Support (→ page 40).

• AC Adaptor. .... 1 • AC Cord ..... 1 • Battery Pack ..... 1



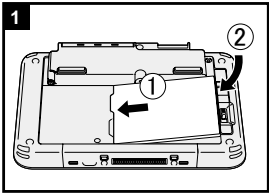
Model No: CF-AA6373A

Model No: FZ-VZSU94W

- Soft Cloth ..... 1
- Stylus\*<sup>1</sup> ..... 1
- Tether\*<sup>1</sup> ..... 1
- Hand Strap\*<sup>1</sup> ..... 1
- OPERATING INSTRUCTIONS - Read Me First ..... 1

\*<sup>1</sup> Not included with some models.

- ② Read the LIMITED USE LICENSE AGREEMENT before breaking the seal on the computer's packaging (→ page 29).



### 1 Inserting the Battery Pack.

Turn over the computer and insert the battery pack until it touch to the secured position.

- Make sure no foreign objects are under the computer.

#### CAUTION

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

# First-time Operation

## 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:

| Status                 | FZ-VZSU94W      | FZ-VZSU95W (optional) |
|------------------------|-----------------|-----------------------|
| When power is off      | Approx. 7 weeks | Approx. 17 weeks      |
| In sleep <sup>*2</sup> | Approx. 9 days  | Approx. 20 days       |
| In hibernation         | Approx. 7 weeks | Approx. 17 weeks      |

<sup>\*2</sup> <Only for model with LAN>

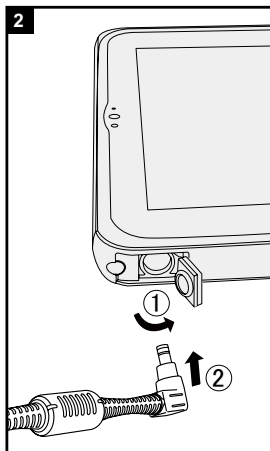
If "Wake Up from wired LAN" is enabled, the period of time will be shorter.

## 2 Connect your computer to a power outlet.

The battery charging starts automatically.

### CAUTION

- Do not disconnect the AC adaptor until the first-time operation procedure is completed.
- When using the computer for the first time, do not connect any peripheral device (including wired LAN cable) except the battery pack and AC adaptor.
- Handling the AC adaptor**
  - Problems such as sudden voltage drops may arise during periods of thunder and lightning. Since this could adversely affect your computer, an uninterruptible power source (UPS) is highly recommended unless running from the battery pack alone.

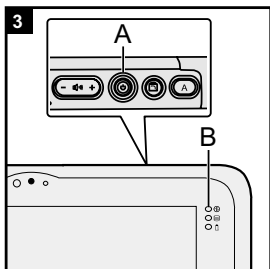


## 3 Turn on the computer.

Press and hold the power switch (A) (longer than 2 seconds) until the power indicator (B) lights.

### CAUTION

- Do not press the power switch repeatedly or do not hold the power switch for ten seconds or longer.
- Any changes from the default setting of the Setup Utility must not be made until the First-time Operation is completed.



## 4 Setup Windows.

<For MUI OS model>

Select language and touch [Next].

Follow the on-screen instructions.

- The computer restarts several times. Do not touch the screen or tablet buttons, 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.
- Setup of Windows will take approximately 5 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.  
If "Let's get connected" is displayed, you can select "Skip this step".

### CAUTION

- You can change the user name, password, image and security setting after setup of Windows.
- Remember your password. If you forget the password, you cannot use Windows. Creating a password reset disk beforehand is recommended.
- Do not use the following words for user name: CON, PRN, AUX, CLOCK\$, NUL, COM1 to COM9, LPT1 to LPT9, LPT, &, space.

## 5 Restart the computer

- ① Touch  (Start).
  - ② Touch  (Power) - [Restart].
- A portion of the Panasonic PC Settings Utility functions will be enabled after the computer restarts.

## 6 Update the on-screen manual

- ① Connect to the internet. Sign in to Windows as an administrator.  
For further information, refer to  *Operating Instructions - Connect to a network*.
- ② Update the on-screen manual.  
Double-touch the [Panasonic PC Settings Utility] on the desktop screen, and then touch [Support] - [Manual] - [Launch Manual Selector].

## 7 <For MUI OS model> Deleting language packs.

Language Pack Cleanup Utility deletes the unused language pack from the flash memory drive. Deleting such language packs will shorten the post-processing time.

**Perform this utility before running the following functions.**

- Backup
- Create a Recovery drive
- Refresh

### NOTE

- Do not disconnect the AC adaptor until this utility has been finished.
- No need to perform this utility more than twice.

- ① Log on to Windows as an administrator.
- ② Touch  (Start) -  (All apps) - [Panasonic] - [Language Pack Cleanup Utility].  
If [User Account Control] is displayed, touch [Yes].
- ③ At the confirmation message, touch [Yes] - [OK].  
This utility requires several hours to perform, and restarts more than 10 times while performing.
- ④ If "Completed" is displayed, touch [OK].

## 8 Create a recovery drive.

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

Refer to →  *Operating Instructions - Reference Manual* "Create a Recovery drive" about creating the recovery drive.

**NOTE**

- **Panasonic PC Settings Utility**

You can check the status of the computer, and change the settings. Double-touch [Panasonic PC Settings Utility] on the desktop to start the utility.

(→  *Operating Instructions - Reference Manual* “Panasonic PC Settings Utility”)

- **PC Information Viewer**

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

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

To disable the function, add the check mark for [Disable the automatic save function for management information history] in [Hard Disk Status] of PC Information Viewer, and touch [OK]. Then follow the on-screen instructions.

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

- <For MUI OS model>

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

## ■ Before using wireless function

- ① Touch  (Action center) at the task tray, and then touch  (All settings) - [Network & Internet] - [Airplanemode].  
Set [Airplane mode] to [Off], and then;  
set [Wi-Fi] to [On] (for wireless LAN).  
set [Mobile broadband] to [On] (for wireless WAN).  
set [GPS] to [On] (for wireless WAN).  
set [Bluetooth] to [On] (for Bluetooth).  
set [GPS\GNSS] to [On] (for GPS).

**CAUTION**

- Do not add or delete partitions in Windows 10, as the Windows area and recovery partition must be adjacent to each other in Windows 10.

# Turning On / Turning Off

## Turning On

Press the power switch  (→ page 5) until the power indicator  (→ page 4) lights.

### NOTE

- Do not press the power switch repeatedly.
- The computer will forcibly be turned off if you press the power switch for ten 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 tablet buttons, screen or external mouse

## Turning Off

- ① Shut down the computer.
  1. Touch  (Start) at the lower left.
  2. Touch  (Power) - [Shutdown].

### NOTE

- To turn off the computer completely, proceed as follows.
  - ① Touch  (Start) at the lower left, and the touch  (Settings) - [Update & security] - [recovery].
  - ② Touch [Restart now] under “Advanced startup”.
  - ③ Touch [Turn off your PC].

---

## Precaution against Starting Up/Shutting Down

- Do not do the following
  - Connecting or disconnecting the AC adaptor
  - Pressing the power switch
  - Touching tablet buttons, screen or external mouse

---

### 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
      - 4 minutes (when operating on battery power) of inactivity
    - The computer automatically enters sleep<sup>\*1</sup> after :
      - 10 minutes (when AC adaptor is connected) of inactivity
      - 4 minutes (when operating on battery power) of inactivity
- <sup>\*1</sup> Refer to  *Operating Instructions - Reference Manual* "Sleep or Hibernation Functions" about resuming from sleep.
-

# Handling and Maintenance

## Operation environment

- Place the computer on a flat stable surface not subject to shock, vibration, and danger of dropping. Do not place the computer upright or turn it over. If the computer is exposed to an extremely strong impact, it may become damaged.
  - Operating environment
    - Temperature: Operation : -10 °C to 50 °C {14 °F to 122 °F} (IEC60068-2-1, 2)<sup>\*1</sup>  
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.
- <sup>\*1</sup> Do not expose the skin to this product when using the product in a hot or cold environment. (→ *Operating Instructions - Read Me First* "Safety Precautions") 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.
  - <Only for model with Built-in Bridge Battery>  
Do not put sources of strong magnetism such as magnet close to the computer. Malfunction may occur.

## Handling cautions

This computer is designed to minimize shock to parts such as the LCD and the flash memory drive, but no warranty is provided against any trouble caused by shock. Be extremely careful when handling the computer.

- When carrying the computer:
  - Turn off the computer.
  - Remove all external devices, cables, Smart Cards and other protruding objects.
  - Do not drop or hit the computer against solid objects.
  - Do not grip the display part.
- When you board an airplane, take the computer with you and never put it in your checked luggage. When using the computer on airplane, follow the airline's instructions.
- When carrying a spare battery, put it in a plastic bag to protect its terminals.

- The touchscreen is designed to be used by a finger tip. Do not place any object on its surface and do not press down strongly with sharp-pointed or hard objects that may leave marks (e.g., nails, pencils and ball point pens).
- Avoid any harmful substances such as oil from getting into the touchscreen. The pointer may not work correctly.
- Be careful not to get injured by dropping or getting hit when carrying the computer.
- Use only the dedicated pen (optional) to touch the screen. Do not place any object on its surface and do not press down strongly with sharp-pointed or hard objects that may leave marks (e.g., nails, pencils and ball point pens).
- Do not use the screen when dust or dirt (e.g., oil) is on the screen. Otherwise foreign particles on the screen/dedicated pen (optional) can scratch the screen surface or obstruct the dedicated pen (optional) operation.
- Use the dedicated pen (optional) only for touching the screen. Using it for any other purpose may damage the dedicated pen (optional) and result in scratches on the screen.

#### ■ When the battery indicator does not light on

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

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

#### ■ When using peripheral devices

Follow these instructions and the *Operating Instructions - 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.

# Handling and Maintenance

## ■ 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 4.0 hours (with FZ-VZSU94W) / Approximately 7.0 hours (with FZ-VZSU95W (optional))
- Complete discharge: Approximately 5.0 hours (with FZ-VZSU94W) / Approximately 12.0 hours (with FZ-VZSU95W (optional))

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

## ■ Sensors

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

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

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

## ● Automatic brightness adjustment

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

① Touch  (Start) at the lower left, and then touch  (Settings) - [System] - [Display].

② Set [Change brightness automatically when lighting changes] to [On].

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

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

---

## ● Magnetic sensor

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

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

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

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

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

---

### CAUTION

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

## ● Tether for Stylus (Optional)

When using the stylus with tether (optional), do not pull the tether with excessive force. The dedicated pen (optional) may hit the computer, person's body or other objects when released.

# Handling and Maintenance

## Maintenance

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

### To clean the LCD panel

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

### To clean areas other than the LCD panel

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

### CAUTION

- Do not use benzene, thinner, or rubbing alcohol since it may adversely affect the surface causing discoloration, etc. Do not use commercially-available household cleaners and cosmetics, as they may contain components harmful to the surface.
- Do not apply water or detergent directly to the computer, since liquid may enter inside of the computer and cause malfunction or damage.
- Use a soft, dry cloth to wipe droplets of water from the surface of the unit. Do not use a microwave to dry the unit. Doing so will result in malfunction or damage.

## Dispose of Computer

<Only for model with Built-in Bridge Battery>

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

### Attention Customers

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

## Attention Qualified professionals to remove the battery

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

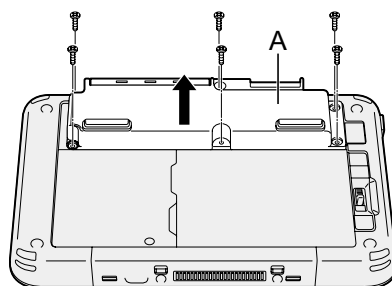
### ■ Preparation

- Remove all peripherals (microSD memory card, etc.).
- Erase the stored data. (→  *Operating Instructions - Reference Manual* “Erasing Flash Memory Data”)

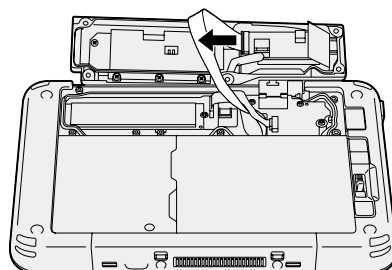
### CAUTION

- Never disassemble the computer except before disposal.
- Refer to *Operating Instructions - Read Me First* “Safety Precautions” for precautions when disposing of the computer.

1. Turn off the computer, and disconnect the AC adaptor.
2. Turn over the computer, remove the battery pack, and wait for about 3 minutes.
3. Remove the screws and the cover (A).



4. Pull out all cables from the connector on the cover side.



# Handling and Maintenance

---

5. Dispose of the battery with the cover attached correctly in accordance with the local regulation.

# Installing Software

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

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

## CAUTION

- Do not delete the Recovery Partition on the flash memory. The disk space in the partition is not available to store data.  
To check the Recovery Partition, perform the following methods.
  - ① Long touch  at the bottom left corner of the Desktop screen.
    - A standard user needs to enter an administrator password.
  - ② Touch [Disk Management].

## ■ Reset Windows

### Preparation

If the computer does not operate normally, or becomes unstable, you can reset Windows to solve the problem.

- Remove all peripherals.
- Connect the AC adaptor and do not remove it until installation is complete.

### 1 Perform “Remove everything and reinstall Windows”.

- ① Touch  (Start) - [Settings] - [Update & security] - [Recovery].
- ② Touch [Get Started] under “Reset this PC”.
- ③ Touch [Next].
- ④ Select the option.
- [Keep my files]

Windows reinstallation can be completed in a short time (Approximately 60 minutes). Applications and other items that do not come with this computer will be removed.

- [Remove everything]
  - [Just remove my files] (Approximately 60 minutes)
  - [Remove files and 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 100 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.

# Installing Software

## 2 Perform the “First-time Operation” (→ page 9).

### NOTE

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

## 3 Perform Windows Update.

### ■ Recover from a Recovery Drive

If the Windows startup is possible

- 1 **Connect the recovery drive.**
- 2 **Touch  (Notification) - [All settings] – [Update & security] – [Recovery] on the task tray.**
- 3 **Touch [Restart now] under “Advanced startup”.**
- 4 **Touch [Use a device], then select a recovery drive.**  
Follow the on-screen instructions.

If the Windows startup is not possible

- 1 **Connect the recovery drive.**
- 2 **Turn on or restart the computer.**
- 3 **Touch the top left corner of the screen several times while [Panasonic] boot screen is displayed soon after the computer starts the startup procedure.**

Alternatively press Rotation Lock button () while [Panasonic] boot screen is displayed soon after the computer starts the startup procedure.

- The Setup Utility starts up.
- If the password is requested, enter the Supervisor Password.

- 4 **Select the [Exit] menu, then select your recovery drive in [Boot Override].**

Follow the on-screen instructions. (It takes 1 hour or more.)

# Troubleshooting (Basic)

Follow the instructions below when a problem has occurred. There is also an advanced troubleshooting guide in the “Operating Instructions - Reference Manual”. For a software problem, refer to the software’s instruction manual. If the problem persists, contact Panasonic Technical Support (➔ page 40). You can also check the computer’s status in the PC Information Viewer (➔  *Operating Instructions - Reference Manual* “Troubleshooting (Advanced)”).

## ■ Starting Up

|                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cannot start up.<br>The power indicator or battery indicator is not lit.                                                                 | <ul style="list-style-type: none"><li>● Connect the AC adaptor.</li><li>● Insert a fully charged battery.</li><li>● Remove the battery pack and the AC adaptor, then connect them again.</li><li>● If a device is connected to the USB port, disconnect the device, or set [USB Port] to [Disabled] in the [Advanced] menu of the Setup Utility.</li><li>● Turn off the concealed mode (➔  <i>Operating Instructions - Reference Manual</i> “Tablet Buttons”).</li></ul> |
| Cannot turn on the computer.<br>The computer does not resume from sleep.<br>(The battery indicator blinks green and orange alternately.) | <ul style="list-style-type: none"><li>● Leave it in an environment of 5 °C {41 °F} or higher temperature for about an hour, then turn on the power again.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                       |
| You have forgotten the password.                                                                                                         | <ul style="list-style-type: none"><li>● Supervisor Password or User Password: Contact Panasonic Technical Support (➔ page 40).</li><li>● Administrator password:<ul style="list-style-type: none"><li>• If you have a password reset disk, you can reset the administrator password. Set the disk and enter any wrong password, then follow the on-screen instructions and set a new password.</li><li>• If you do not have a password reset disk, reinstall (➔ page 21) and set up Windows, and then set a new password.</li></ul></li></ul>             |

# Troubleshooting (Basic)

## ■ Starting Up

|                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>“Remove disks or other media. Press any key to restart” or a similar message appears.</p> | <ul style="list-style-type: none"> <li>● A floppy disk is in the drive and it does not contain system startup information. Remove the floppy disk and press any key.</li> <li>● If a device is connected to the USB port, disconnect the device, or set [USB Port] or [Legacy USB Support] to [Disabled] in the [Advanced] menu of the Setup Utility.</li> <li>● If the problem persists after removing the disk, it may be a flash memory failure. Contact Panasonic Technical Support (→ page 40).</li> </ul>                                                                                                                                                   |
| <p>Windows startup and operation is slow.</p>                                                | <ul style="list-style-type: none"> <li>● Start the Setup Utility (→  <i>Operating Instructions - Reference Manual</i> “Setup Utility”) to return the Setup Utility settings (excluding the passwords) to the default values. Start the Setup Utility and make the settings again. (Note that the processing speed depends on the application software, so this procedure may not make Windows faster.)</li> <li>● If you installed a resident software after purchase, turn off the residence.</li> </ul>                                                                        |
| <p>The date and time are incorrect.</p>                                                      | <ul style="list-style-type: none"> <li>● Make the correct settings.               <ol style="list-style-type: none"> <li>① Touch  (Start) - [Settings].</li> <li>② Touch [Clock, Language, and Region] - [Date and Time].</li> </ol> </li> <li>● If the problem persists, the internal clock battery may need to be replaced. Contact Panasonic Technical Support (→ page 40).</li> <li>● When the computer is connected to network, check the date and time of the server.</li> <li>● The 2100 A.D. or later year will not be correctly recognized on this computer.</li> </ul> |
| <p>[Executing Battery Recalibration] screen appears.</p>                                     | <ul style="list-style-type: none"> <li>● The Battery Recalibration was canceled before Windows was shut down last time. To start up Windows, turn off the computer by the power switch, and then turn on.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                              |

## ■ Starting Up

|                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>[Enter Password] does not appear when resuming from sleep/hibernation.</p> | <ul style="list-style-type: none"> <li>● Select [Enabled] in [Password On Resume] in the [Security] menu of the Setup Utility (➔  <i>Operating Instructions - Reference Manual</i> "Setup Utility").</li> <li>● The Windows password can be used instead of the password set in the Setup Utility. <ul style="list-style-type: none"> <li>① Add a password. <ol style="list-style-type: none"> <li>1. Touch  (Start) - [Settings] - [Accounts].</li> <li>2. Touch [Sign-in options] and touch [Add] under "Password".</li> </ol> </li> <li>② Set up the following. <ol style="list-style-type: none"> <li>1. Open the Control Panel, touch [System and Security] - [Power Options] - [Require a password on wakeup].</li> <li>2. Add a check mark for [Require a password].</li> </ol> </li> </ul> </li> </ul>       |
| <p>Cannot resume.</p>                                                         | <ul style="list-style-type: none"> <li>● One of the following operations may have been carried out. Press the power switch to turn on the computer. Data not saved will be lost. <ul style="list-style-type: none"> <li>• In sleep mode, the AC adaptor or battery pack was disconnected, or a peripheral was connected or disconnected.</li> <li>• The power switch was pressed for ten seconds or longer to forcibly turn off the computer.</li> </ul> </li> <li>● 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.</li> </ul>                                                                                                                                                                                                                                                                                              |
| <p>Other startup problems.</p>                                                | <ul style="list-style-type: none"> <li>● Start the Setup Utility (➔  <i>Operating Instructions - Reference Manual</i> "Setup Utility") to return the Setup Utility settings (excluding the passwords) to the default values. Start the Setup Utility and make the settings again.</li> <li>● Remove all peripheral devices.</li> <li>● Check to see if there was a disk error. <ol style="list-style-type: none"> <li>① Remove all peripheral devices including an external display.</li> <li>② Long touch (Start) at the bottom left corner, and then touch [File Explorer].</li> <li>③ Long touch [This PC].</li> <li>④ Long touch [Windows (C:)], and touch [Properties].</li> <li>⑤ Touch [Tools] - [Check]. <ul style="list-style-type: none"> <li>• A standard user needs to enter an administrator password.</li> </ul> </li> <li>⑥ Follow the on-screen instructions.</li> </ol> </li> </ul> |

# Troubleshooting (Basic)

## ■ Entering Password

|                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Even after entering the password, password input screen is displayed again. | <p>&lt;Only if the external keyboard is connected&gt;</p> <ul style="list-style-type: none"> <li>● The computer may be in ten-key mode.<br/>If the NumLk indicator  lights, press <b>NumLk</b> to disable the ten-key mode, and then input.</li> <li>● The computer may be in Caps Lock mode.<br/>If the Caps Lock indicator  lights, press <b>Caps Lock</b> to disable the Caps Lock mode, and then input.</li> </ul> |
|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## ■ Shutting down

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

## ■ Display

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No display.               | <ul style="list-style-type: none"> <li>● The display is turned off by the power-saving function. Touch the Windows Button.</li> <li>● The computer entered sleep or hibernation by the power-saving function. To resume, press the power switch.</li> <li>● When using an external display, <ul style="list-style-type: none"> <li>• Check the cable connection.</li> <li>• Turn on the display.</li> <li>• Check the settings of external display.</li> </ul> </li> </ul>                                                                           |
| The screen is dark.       | <ul style="list-style-type: none"> <li>● The screen is darker when the AC adaptor is not connected. Open the Dashboard for Panasonic PC and adjust the brightness. As you increase the brightness, battery consumption increases.<br/>You can separately set the brightness for when the AC adaptor is connected and when not connected.</li> <li>● Turn off the concealed mode (→  <i>Operating Instructions - Reference Manual "Setup Utility"</i>).</li> </ul> |
| The screen is disordered. | <ul style="list-style-type: none"> <li>● Changing the number of display colors and resolution may affect the screen. Restart the computer.</li> <li>● Connecting/disconnecting an external display may affect the screen. Restart the computer. Under factory default settings, the brightness of the display screen will adjust automatically based on the ambient light detected by the ambient light sensor. You can adjust the settings for this sensor (→ page 16).</li> </ul>                                                                  |

## ■ Display

|                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| There are red, green, or blue dots on the screen, or there is unevenness in colors and brightness on the screen. | <p>The following are not malfunctions.</p> <ul style="list-style-type: none"> <li>● Although advanced high-precision technologies are used in the production of color LCD screens, 0.002% or less of the picture elements may be dark or remain constantly lit (more than 99.998% of elements function properly).</li> <li>● Due to the natural characteristics of LCD screens, you may notice unevenness in colors and brightness depending on your angle of view. Hues may also vary by product.</li> </ul> |
| During Simultaneous display, one of the screens becomes disordered.                                              | <ul style="list-style-type: none"> <li>● When using the Extended Desktop, use the same display colors for the external display as those used by the LCD.</li> <li>● Simultaneous display cannot be used until Windows startup is complete (during Setup Utility, etc.).</li> </ul>                                                                                                                                                                                                                            |
| The external display does not work normally.                                                                     | <ul style="list-style-type: none"> <li>● If the external display does not support the power saving function, it may not work normally when the computer enters the power saving mode. Turn off the external display.</li> </ul>                                                                                                                                                                                                                                                                               |
| Cannot rotate the display.                                                                                       | <ul style="list-style-type: none"> <li>● The application program currently running may not support the image rotation. Quit the program, and then try to rotate the image. This can ameliorate the status.</li> <li>● When the automatic rotation is off, screen display does not rotate automatically.</li> </ul>                                                                                                                                                                                            |

## ■ Screen

|                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The pointer does not work.                                            | <ul style="list-style-type: none"> <li>● When using the external mouse, connect it correctly.</li> <li>● When using the external keyboard, restart the computer using the keyboard.</li> <li>● If the computer does not respond to keyboard commands, read "No response" (→ page 28).</li> </ul>                                                                                                                                                                                            |
| Cannot point the correct position using the dedicated pen (optional). | <ul style="list-style-type: none"> <li>● Perform the screen calibration (→  <i>Operating Instructions - Reference Manual</i> "Screen Input Operation").</li> <li>● Use the optional pen.</li> <li>● On the Windows logon screen or the Welcome screen, you may not be able to point the correct position using the pen (optional). Use the external keyboard or the external mouse to log on.</li> </ul> |

# Troubleshooting (Basic)

## ■ Others

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No response.                 | <ul style="list-style-type: none"><li>● Open Task Manager and close the software application that is not responding.</li><li>● An input screen (e.g., password input screen at startup) may be hidden behind another window. Touch the application icons at the bottom of the screen to check.</li><li>● Press the power switch for ten seconds or longer to shut down the computer, and then press the power switch to turn it on. If the application program does not work normally, uninstall and reinstall the program. To uninstall,<ol style="list-style-type: none"><li>① Open the Control Panel.<br/>Long touch  (Start) at the bottom left corner, and then touch [Control Panel].</li><li>② Touch [Program] - [Uninstall a program].</li></ol></li></ul> |
| Cannot connect to a network. | <ul style="list-style-type: none"><li>● Set the device ([Wireless LAN] / [Bluetooth] / [Wireless WAN] of [Wireless Configuration]) to [Enabled] in the [Advanced] menu of the Setup Utility (Wireless Configuration).</li><li>● Touch  (Notification) at the task tray, and then touch  (All settings) - [Network &amp; Internet] - [Airplanemode]. Set [Airplane mode] to [Off], and then;<br/>set [Wi-Fi] to [On] (for wireless LAN).<br/>set [Mobile broadband] to [On] (for wireless WAN).<br/>set [Bluetooth] to [On] (for Bluetooth).</li></ul>                                                                                                                            |

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- (4) le logiciel sous licence GNU LESSER General Public License, Version 2.1 (LGPL V2.1) et/ou,
- (5) Logiciel "open source" autre que le logiciel sous licence GPL V2.0 et/ou LGPL V2.1.

Les logiciels classés comme (3) - (5) sont distribués dans l'espoir qu'ils pourraient être utiles, mais SANS AUCUNE GARANTIE, sans même la garantie implicite de COMMERCIALISATION ou D'ADAPTATION A UN USAGE PARTICULIER. Veuillez vous référer aux modalités et aux conditions de ceux-ci figurant dans "Manuel de référence".

Pendant au moins trois (3) ans à compter de la livraison de ce produit, Panasonic donnera à tout tiers qui nous contactera en utilisant les coordonnées ci-dessous, pour un montant non supérieur à notre coût pour la réalisation physique de la distribution du code source, une copie complète exploitable par ordinateur du code source correspondant, couvert par la GPL V2.0, LGPL V2.1 ou par d'autres licences avec l'obligation de le faire, ainsi que la notice des droits d'auteur respective.

Coordonnées de contact : [oss-cd-request@gg.jp.panasonic.com](mailto:oss-cd-request@gg.jp.panasonic.com)

Le code source et la notice des droits d'auteur sont également disponibles gratuitement sur notre site web suivant.

<http://panasonic.net/avc/oss/index.html>

# Specifications

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

- To check the model number:  
Check the bottom of the computer or the box the computer came in at the time of purchase.
- To check CPU speed, memory size and the flash memory drive size:  
Run the Setup Utility (➔  *Operating Instructions - Reference Manual* “Setup Utility”) and select [Information] menu.  
[Processor Speed]: CPU speed, [Memory Size]: Memory size, [Hard Disk]:  
Flash memory drive size

## ■ Main Specifications

|                            |                                   |                                                                                                                                                                                                          |
|----------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CPU                        |                                   | Intel® Atom™ x5-Z8550 Processor (2 MB <sup>*1</sup> cache, up to 2.40 GHz)                                                                                                                               |
| Chipset                    |                                   | CPU embedded                                                                                                                                                                                             |
| Video controller           |                                   | Intel® HD Graphics 400 (Built-in Chip Set)                                                                                                                                                               |
| Memory <sup>*1*2</sup>     |                                   | 2 GB or 4 GB                                                                                                                                                                                             |
| Storage <sup>*3</sup>      |                                   | Flash memory drive (eMMC) : 64 GB or 128 GB                                                                                                                                                              |
| Display Method             |                                   | 7.0 WXGA type (1280 × 800 dots)                                                                                                                                                                          |
| Internal LCD <sup>*4</sup> |                                   | Max. 16,777,216 colors (1280 × 800 dots)                                                                                                                                                                 |
| Wireless LAN <sup>*5</sup> |                                   | Intel® Dual Band Wireless-AC 8260 (➔ page 37)                                                                                                                                                            |
| Bluetooth <sup>*6</sup>    |                                   | ➔ page 37                                                                                                                                                                                                |
| Sound                      |                                   | WAVE and MIDI playback, Intel® High Definition Audio subsystem support, Monaural speaker                                                                                                                 |
| Security                   |                                   | Firmware TPM V2.0 <sup>*7</sup>                                                                                                                                                                          |
| Camera <sup>*8</sup>       | Front                             | 1920 × 1080 dots, 60 fps (Video) / 1920 × 1080 dots (Still), Dual Microphone                                                                                                                             |
|                            | Rear                              | 3264 × 2448 dots, 30 fps (Video) / 3264 × 2448 dots (Still) / With camera light                                                                                                                          |
| Sensor                     |                                   | Ambient light sensor, Magnetic sensor, Gyro sensor, Acceleration sensor                                                                                                                                  |
| Card Slot                  | microSD Memory Card <sup>*9</sup> | microSDXC compatible                                                                                                                                                                                     |
| Interface                  |                                   | USB port 3.0 × 1 <sup>*10</sup> , Expansion Bus Connector, Headset Jack (Miniature jack, 3.5 DIA, CTIA standard / Headphone: Impedance 32 Ω, Output Power 4 mW × 2, Stereo / Microphone: Monaural Input) |
| Touchscreen                |                                   | 10 Finger touch (Capacitive)                                                                                                                                                                             |
| Power Supply               |                                   | AC adaptor or Battery pack                                                                                                                                                                               |

# Specifications

## ■ Main Specifications

|                                                              |           |             |                                                                                                                                                                                            |
|--------------------------------------------------------------|-----------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AC Adaptor <sup>*11</sup>                                    |           |             | Input: 100 V to 240 V AC, 50 Hz/60 Hz, Output: 16 V DC, 3.75 A                                                                                                                             |
| Battery Pack                                                 |           |             | Li-ion 7.2 V, 3220 mAh (typ.), 3050 mAh (min.) (with FZ-VZSU94W)<br>Li-ion 7.2 V, 7100 mAh (typ.), 6800 mAh (min.) (with FZ-VZSU95W (Optional))                                            |
| Operating Time <sup>*12</sup>                                |           |             | Approx. 9 hours (with FZ-VZSU94W)<br>Approx. 20 hours (with FZ-VZSU95W (Optional))                                                                                                         |
| Charging Time <sup>*13</sup>                                 |           |             | When using FZ-VZSU94W<br>(Power Off) Approx. 2.5 hours<br>(Power On) Approx. 4.0 hours<br>When using FZ-VZSU95W(Optional)<br>(Power Off) Approx. 4.0 hours<br>(Power On) Approx. 7.0 hours |
| Power Consumption <sup>*14</sup>                             |           |             | Approx. 15 W <sup>*15</sup> / Approx. 60 W (maximum when recharging in the ON state)                                                                                                       |
| Physical Dimensions (W × D × H) (excluding projecting parts) |           |             | 202.7 mm × 132 mm × 18 mm {8.0 " × 5.2 " × 0.7 "}                                                                                                                                          |
| Weight                                                       |           |             | Approx. 0.54 kg {Approx. 1.2 lb.} (with FZ-VZSU94W, excluding the optional devices)                                                                                                        |
| Environment                                                  | Operating | Temperature | -10 °C to 50 °C {14 °F to 122 °F} (IEC60068-2-1, 2) <sup>*16</sup>                                                                                                                         |
|                                                              |           | Humidity    | 30% to 80% RH (No condensation)                                                                                                                                                            |
|                                                              | Storage   | Temperature | -20 °C to 60 °C {-4 °F to 140 °F}                                                                                                                                                          |
|                                                              |           | Humidity    | 30% to 90% RH (No condensation)                                                                                                                                                            |

## ■ Software

|                                       |  |                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Base OS                               |  | Windows® 10 Pro 64-bit                                                                                                                                                                                                                                                                                                                                                                                         |
| Installed OS <sup>*17</sup>           |  | Windows® 10 Pro 64-bit                                                                                                                                                                                                                                                                                                                                                                                         |
| Pre-installed Software <sup>*17</sup> |  | PC Information Viewer, Hand Writing Utility, Intel® PROSet/Wireless Software, Intel® Wireless Bluetooth®, Microsoft Office Trial <sup>*18</sup> , Barcode Configuration Utility <sup>*19</sup> , HID Barcode Key Emulator <sup>*19</sup> , Barcode HID Mode Setting Utility <sup>*19</sup> , GPS Viewer <sup>*20</sup> Panasonic PC Settings Utility <sup>*21</sup> , Wireless Toolbox, Camera Barcode Utility |
|                                       |  | Aptio Setup Utility, PC-Diagnostic Utility                                                                                                                                                                                                                                                                                                                                                                     |

## ■ Wireless LAN

|                                    |                                                                                                                                                                                                            |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Data Transfer Rates <sup>*22</sup> | IEEE802.11a : 54 Mbps<br>IEEE802.11b : 11 Mbps<br>IEEE802.11g : 54 Mbps<br>IEEE802.11n : HT20 : 150 Mbps<br>HT40 : 300 Mbps<br>IEEE802.11ac : VHT80 : 866.7 Mbps<br>VHT40 : 400 Mbps<br>VHT20 : 173.3 Mbps |
| Standards Supported                | IEEE802.11a / IEEE802.11b / IEEE802.11g / IEEE802.11n / IEEE802.11ac                                                                                                                                       |
| Transmission method                | OFDM system, DSSS system                                                                                                                                                                                   |

## ■ Bluetooth

|                        |                                     |
|------------------------|-------------------------------------|
| Bluetooth Version      | 4.1                                 |
|                        | Classic mode / Low Energy mode      |
| Transmission method    | FHSS system                         |
| Wireless Channels Used | Channels 1 to 79 / Channels 0 to 39 |
| RF Frequency Band      | 2.402 GHz - 2.480 GHz               |

## ■ Optional Devices

|                                           |                                                                           |
|-------------------------------------------|---------------------------------------------------------------------------|
| Wireless WAN <sup>*23</sup>               | LTE compatible                                                            |
| GPS                                       | Chip: u-blox M8<br>GPS/GLONASS/SBAS Support                               |
| Smart Card Slot                           | × 1                                                                       |
| microSIM Card Slot <sup>*24</sup>         | × 1                                                                       |
| LAN                                       | IEEE 802.3 10Base-T / IEEE 802.3u 100Base-TX                              |
| Contactless Smart Card Reader             | RF frequency: 13.56 MHz, compatible with ISO14443 Type-A, ISO14443 Type-B |
| Barcode Reader                            | × 1                                                                       |
| Magnetic Stripe Card Reader               | × 1                                                                       |
| Built-in bridge battery (not replaceable) | For hot swap                                                              |

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

<sup>\*2</sup> Memory size of the factory default depends on the model.

The total amount of usable memory available will be less depending on the actual system configuration.

<sup>\*3</sup> 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.

# Specifications

\*4 Depending on the OS settings.

\*5 Only for model with wireless LAN.

\*6 Only for model with Bluetooth.

Does not guarantee operation of all Bluetooth peripherals.

\*7 Only for model with TPM

\*8 Only for model with camera.

The camera application that is pre-installed on the unit does not support the camera's highest resolution. To use the camera's highest resolution, a separate application that supports higher resolutions must be installed.

Depending on the specification of application software, the following cases may occur. In these cases, select a smaller resolution.

- Cannot select a large resolution.

- When selecting a large resolution, an error occurs.

\*9 Content Protection for Recordable Media (CPRM) is not supported. Operation has been tested and confirmed using Panasonic microSD Memory Cards with capacities of up to 2 GB, Panasonic microSDHC Memory Cards with capacities of up to 32 GB, and Panasonic microSDXC Memory Cards with capacities of up to 64 GB. Operation on other microSD equipment is not guaranteed.

\*10 Does not guarantee operation of all USB-compatible peripherals.

\*11 <Only for North America>

The AC adaptor is compatible with power sources up to 240 V AC adaptor.

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

20-M-1-1

\*12 Measured at LCD brightness: 60 cd/m<sup>2</sup>

Varies depending on the usage conditions, or when an optional device is attached.

This computer reduces the full charge capacity in stages to ensure a longer life of the battery pack.

\*13 Varies depending on the usage conditions.

\*14 Approx. 0.5 W when the battery pack is fully charged (or not being charged) and the computer is OFF.

<When using with 115 V AC>

Even when the AC adaptor is not connected to the computer, power is consumed (Max. 0.3 W) simply by having the AC adaptor plugged into an AC outlet.

\*15 Rated power consumption 23-E-1

\*16 Do not expose the skin to this product when using the product in a hot or cold environment. (➔ *Operating Instructions - Read Me First* "Safety Precautions")

When using in hot or cold environment, some peripherals and battery pack 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.

When using in low temperature environment, startup may become slow or battery operation time may become short.

\*17 Operations of this computer are not guaranteed except for the pre-installed OS.

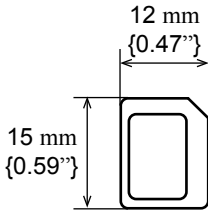
\*18 To continue using this software after the end of the trial, purchase a license by following the on-screen instructions.

\*19 Only for model with barcode reader.

\*20 Only for model with GPS or wireless WAN.

\*21 Panasonic PC Settings Utility includes the following functions: Battery Charge Speed / Battery Recalibration / Touch Operation Support / Power Saving Settings / Touch Screen Mode Setting Utility

- 
- <sup>\*22</sup> Maximum data transfer rates of wireless LAN standards.  
Actual speeds may differ.
- <sup>\*23</sup> The specifications may differ depending on the models.
- <sup>\*24</sup> The slot accepts microSIM Cards.



# 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#/CF-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 product warranty is covered for the remaining period of the one year warranty on the original or purchased battery.

### **Optional: Panasonic "Protection Plus" Warranty**

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

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

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## 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

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## ***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

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

<sup>\*1</sup> AIRCRAFT COCKPIT EQUIPMENT/SYSTEMS include 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)<br>Web Site : <a href="http://www.panasonic.com/toughbook">www.panasonic.com/toughbook</a> |
|------------------------------------------------------------------------------------------------------------------------------------------|

# LIMITED WARRANTY (GARANTIE LIMITÉE)

## For Canada

### PANASONIC COMPUTER AND PERIPHERALS LIMITED WARRANTY

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

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

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

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

THIS PRODUCT IS NOT INTENDED FOR USE AS, OR AS PART OF, NUCLEAR EQUIPMENT/SYSTEMS, AIR TRAFFIC CONTROL EQUIPMENT/SYSTEMS, OR AIRCRAFT COCKPIT EQUIPMENT/SYSTEMS<sup>2</sup>. PANASONIC WILL NOT BE RESPONSIBLE FOR ANY LIABILITY RESULTING FROM THE USE OF THIS PRODUCT ARISING OUT OF THE FOREGOING USES.

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

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

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

### **SOFTWARE MEDIA LIMITED WARRANTY**

**Coverage** – PCI warrants to you, the first end user customer, that the disk(s) or other media on which software program(s) is/are supplied will be free from defects in materials and workmanship under normal use in Canada for a period of sixty (60) days from date of receipt as evidenced by your purchase receipt for your Panasonic Computer product. THIS IS THE ONLY WARRANTY THAT PCI MAKES RESPECTING THE SOFTWARE MEDIA. PCI does not warrant the software. Please refer to the software licensor's written warranty (accompanying the copy of the software) for any software warranty claim.

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

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

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

### **GENERAL**

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

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

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

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

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

# LIMITED WARRANTY (GARANTIE LIMITÉE)

## Pour le Canada

### GARANTIE LIMITÉE – ORDINATEURS ET PÉRIPHÉRIQUES PANASONIC

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

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

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

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

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

CE PRODUIT N'EST PAS DESTINÉ À ÊTRE UTILISÉ, EN TOUT OU EN PARTIE, COMME SYSTÈME/ÉQUIPEMENT NUCLÉAIRE, SYSTÈME/ÉQUIPEMENT DE CONTRÔLE DU TRAFIC AÉRIEN OU SYSTÈME/ÉQUIPEMENT DE POSTE DE PILOTAGE D'AVION<sup>3</sup>. PANASONIC DÉCLINE TOUTE RESPONSABILITÉ CONCERNANT L'UTILISATION DE CE PRODUIT DANS LES CAS SUSMENTIONNÉS.

<sup>3</sup> Les SYSTÈMES/ÉQUIPEMENTS DE POSTE DE PILOTAGE D'AVION sont dotés de systèmes OEPP (organiseur électronique de poste de pilotage) de classe 2 et de classe 1 utilisés pendant des phases critiques de vol (par exemple, pendant le décollage et l'atterrissage) et/ou montés sur l'avion. Les systèmes OEPP de classe 1 et de classe 2 sont définis par le circulaire d'information FAA: AC (Advisory Circular) 120-76A ou le feuillet n° 36 JAA: JAA TGL (Temporary Guidance Leaflets) No 36.

### **EXPÉDITION DU PRODUIT POUR SERVICE SOUS GARANTIE**

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

### **GARANTIE LIMITÉE – SUPPORTS DES LOGICIELS**

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

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

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

**Recours** – La responsabilité de PCI - et votre seul recours - dans le cas de toute défaillance couverte par la garantie sur ce support de logiciel est limitée au seul remplacement du support. Elle ne couvre aucun autre dommage, y compris, mais non exclusivement, la perte d'usage ou de profits, ni aucun dommage spécial, indirect ou consécutif, ni aucune autre réclamation de nature similaire ou autre.

**Produits non couverts** – La présente garantie limitée ne s'applique pas si la ou les disquettes ou autre support ont été utilisés dans un produit d'une marque autre que Panasonic ou dans des conditions environnementales autres que celles spécifiées par PCI ou le fabricant, ou soumis à une mauvaise utilisation, à la négligence, à une manutention inadéquate ou encore si le programme a été modifié ou subi une tentative de modification ou des dommages attribuables à un accident ou à un cas fortuit. De plus, PCI n'assume aucune responsabilité pour toute perte de, ou tout dommage à, un programme, des données ou un support de sauvegarde amovible.

# LIMITED WARRANTY (GARANTIE LIMITÉE)

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## GÉNÉRALITÉS

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

SOUS AUCUNE CIRCONSTANCE PCI NE POURRA ÊTRE TENUE RESPONSABLE DES DOMMAGES SPÉCIAUX, INDIRECTS OU CONSÉCUTIFS ATTRIBUABLES À UN MANQUEMENT AUX GARANTIES LIMITÉES DÉCRITES DANS LE PRÉSENT DOCUMENT OU À L'UTILISATION DU PRODUIT INFORMATIQUE, Y COMPRIS, SANS RESTRICTION, LA PERTE DE DONNÉES, D'AFFAIRES, D'ACHALANDAGE OU DE PROFIT. DANS TOUS LES CAS, LA RESPONSABILITÉ MAXIMALE DE PCI POUR TOUT MANQUEMENT NE POURRA EXCÉDER LE PRIX DE VENTE DU PRODUIT INFORMATIQUE. AUCUNE RÉCLAMATION, SANS ÉGARD À SES MOTIFS, NE POURRA ÊTRE FAITE AUPRÈS DE PCI PLUS DE DEUX (2) ANS APRÈS LES FAITS INVOQUÉS À LA BASE D'UNE TELLE RÉCLAMATION.

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

# Standard Limited Warranty

## For Europe

### Panasonic System Communications Company Europe

Panasonic System Communications Company Europe (referred to as “Panasonic”) will repair this product (other than software, which is treated in a different section of this warranty) with new or refurbished parts, from the date of original purchase in the event of a defect in materials or workmanship. This warranty only applies to new Panasonic Toughbooks purchased in the EEA and Switzerland and Turkey.

Panasonic (or its authorised Service Provider) target to repair your equipment within 48 hours from its receipt in our service centre.

Additional charges may apply for shipment to countries outside of the European Union.

Panasonic will use all reasonable endeavours to ensure this service.

This warranty only covers failures due to defects in materials or workmanship which occur during normal use for the applicable Service Agreement Period listed below. In the event that any product (or part thereof) is replaced, Panasonic shall transfer ownership of the replacement product (or part) to the customer and the customer shall transfer ownership of the replaced product (or part) to Panasonic.

### Service Agreement Period - from original date of purchase

- Toughbooks (and every accessory included in the original packaging except the battery) - 3 years
- Toughpads (and every accessory included in the original packaging except the battery) - 3 years
- Accessories included in the original package - 3 years
- Additional peripherals manufactured by Panasonic (including media bay devices such as CD-Rom drives) - 1 year
- Batteries - 6 months. Panasonic Warranty covers the battery for six months.

A battery is considered good if it maintains 50 % of its charge capacity during the warranty period. If a battery is returned under this contract and testing determines that it has charge capacity greater than 50 %, the battery will be returned with an invoice for the retail purchase price of a new battery.

This warranty is extended solely to the original purchaser. A purchase receipt or other proof of date of original purchase will be required before warranty performance is rendered.

# Standard Limited Warranty

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## Limits and Exclusions:

This warranty does not cover and shall be void for:

- Broken or cracked LCD screen.
- Defective pixel in notebook displays and LCD screens within 0.002 %
- Damage that is attributable to fire, theft or acts of God.
- Damage caused by environmental influences (electrical storms, magnetic fields etc.).
- Damage which has not been caused during normal operation
- Repair of damage that is cosmetic only or does not affect product functionality such as wear and tear, scratches and dents.
- Failures caused by products not supplied by Panasonic.
- Failures resulting from alteration, accidental damage, casualty, misuse, abuse or neglect.
- Introduction of liquid or other foreign matter into the unit.
- Improper installation, operation or maintenance.
- Improper connections with peripherals.
- Maladjustment of consumer controls such as function settings.
- Modification or service by anyone other than Panasonic or its approved Service Providers.
- Products used as short term rental or leased equipment.
- Products whose serial number has been removed making the unit warranty condition impossible to clearly determine.

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.

There are no other express warranties except as listed above.

We strongly recommend that customers backup their data before sending back their unit to an Authorised Service Provider.

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 satisfactory quality and fitness for a particular purpose are limited to the applicable warranty period set forth above. Panasonic shall not be liable for any indirect, special or consequential loss or damage (including without limitation any loss of profits) arising from the use of this product or for any breach of this warranty.

This limited warranty gives you specific legal rights, and you may have other rights that vary from country to country. You must consult the applicable country laws for a full determination of your rights. This limited warranty is in addition to, and does not affect any rights arising out of any contract of sale or by statute.

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## Panasonic System Communications Company Europe

### Data Storage Media

Data Storage Media is the media on which the Operating System, drivers and programs originally installed by Panasonic on the main unit are stored. This media is originally provided with the unit.

Panasonic warrants to you only that the disc(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's entire liability and your exclusive remedy under this warranty shall be limited to the replacement of any defective disk or other media which is returned to Panasonic's authorized Service Centre, together with a copy of the purchase receipt, within the aforesaid warranty period.

Panasonic shall have no obligation for any defects in the disk(s) or other media on which the Programs are furnished resulting from your storage thereof, or for defects that have been caused by operation of the disk(s) or other media otherwise than on the Product or in the environment conditions other than those specified by Panasonic by alteration, accident, misuse, abuse, neglect, mishandling, misapplication, installation, maladjustment of consumer controls, improper maintenance, modification or damage that is attributable to acts of God. In addition, Panasonic shall have no obligation for any defects in the disk(s) or other media if you have modified, or attempted to modify any Program.

Duration of implied warranties, if any is limited to sixty (60) days.

### Pre-installed software

Pre-installed software means the software shipped pre-loaded by Panasonic, not that loaded by any third party or selling agent.

Panasonic and its suppliers makes no warranty, either express, implied or statutory, with respect to software provided with the Product and licensed to Purchaser, its quality, performance, merchantability, or fitness for a particular purpose.

Panasonic does not warrant that the functions contained in the software will be uninterrupted or error free. Panasonic assumes no risk of and shall not in any case be liable for any damages, including, without limitation, any special, incidental, consequential, or punitive damages arising from breach of warranty or contract, negligence or any other legal theory, including, without limitation loss of goodwill, profits or revenue, loss of use of the Programs or Products or any associated equipment, cost of capital, cost of any substitute equipment, facilities, or services, downtime costs, or claims of any party dealing with such damages.

Some countries 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.

# Standard Limited Warranty

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This limited warranty gives you specific legal rights and you may also have other rights that vary from country to country. You must consult applicable country laws for a full determination of your rights.

## Contacts

### Address

Panasonic System Communications Company Europe  
Panasonic Manufacturing U.K. Ltd.  
Service Centre Building B4,  
Wharfedale Road, Pentwyn Industrial Estate,  
Cardiff,  
United Kingdom  
CF23 7XB

### Web page

<http://business.panasonic.co.uk/computer-product/>

### Helpdesk

English speaking service  
French speaking service  
German speaking service  
Italian speaking service  
Spanish speaking service  
Austria  
Switzerland (German)  
Switzerland (French)  
E-mail address

+44 (0) 800 0884324  
+33 (0) 80 5636449  
+49 (0) 800 7235211  
+39 800 986915  
+34 (0) 901 101 157  
+43 (0) 800 006493  
+41 (0) 800 002429  
+41 (0) 800 588017

[toughbooksupport@eu.panasonic.com](mailto:toughbooksupport@eu.panasonic.com)

Czech speaking service  
Hungarian speaking service  
Polish speaking service  
Romanian speaking service  
Slovakian speaking service  
E-mail address

+420 (0) 800 143234  
+36 (0) 6800 163 67  
+48 (0) 800 4911558  
+40 (0) 800 894 743  
+421 (0) 800 42672627

[toughbooksupport@csq.de](mailto:toughbooksupport@csq.de)

Payments

[toughbookservicepayments.cardiff@eu.panasonic.com](mailto:toughbookservicepayments.cardiff@eu.panasonic.com)

## 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/business/computers-tablets-and-pos/toughbook.html>, use the Service Centre Locator and call the National Service Centre number indicated.  
Prepare purchase receipt as proof of purchase date and system serial number which will be required by the Authorised Service Centre.
7. The Warranty excludes 3 or less faulty pixels on screen.
8. The Warranty includes the repair or exchange of faulty parts within the product with items that are functionally equivalent to that as originally supplied or better – including new or refurbished parts or units – solely at Panasonic's discretion.
9. It is the customer's responsibility to backup all data from the hard disk drive before sending equipment for repair. If a problem is related to the hard disk drive, or the hard disk drive has to be replaced, Panasonic will only reload the factory pre-installed software for the product onto the replacement drive.
10. Panasonic will arrange free pick up and return for approved warranty repairs within 50 km of capital city locations. Please ensure your unit is properly packed for return to the service location.

# Standard Limited Warranty

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<sup>\*4</sup>. PANASONIC WILL NOT BE RESPONSIBLE FOR ANY LIABILITY RESULTING FROM THE USE OF THIS PRODUCT ARISING OUT OF THE FOREGOING USES.

<sup>\*4</sup> 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

<http://www.panasonic.com/au/business/computers-tablets-and-pos/toughbook.html>  
or contact by phone on **1300 132 463**

**Panasonic Australia Pty. Limited**

ACN 001 592 187 ABN 83 001 592 187

1 Innovation Road, Macquarie Park NSW 2113

[www.panasonic.com.au](http://www.panasonic.com.au)

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**Panasonic System Communications Company of North America**

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**Panasonic Canada Inc.**

5770 Ambler Drive, Mississauga,  
Ontario L4W 2T3

**Panasonic Australia Pty. Limited**

ACN 001 592 187 ABN 83 001 592 187  
1 Innovation Road, Macquarie Park NSW 2113

Importer's name & address pursuant to the EU legislation

**Panasonic System Communications Company Europe, Panasonic Marketing Europe GmbH**

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65203 Wiesbaden  
Germany

Web Site : <http://panasonic.net/avc/pc/>