



OPERATING INSTRUCTIONS Basic Guide Tablet Computer Model No. FZ-G1 series

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Introduction

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

In these instructions, the names are referred as follows. Windows 10 indicates Windows 10 Operating System. Windows 7 indicates Windows 7 Operating System.

Terms and illustrations in these instructions

CAUTION	Conditions that may result in minor or moderate injury.
NOTE :	Useful and helpful information.
Enter :	Press [Enter] key.
Alt + Del :	Press and hold [Alt] key, and then press [Del] key.
→ : ED.	Page in these Operating Instructions or in the Reference Manual.
^吃	Reference to the on-screen manuals.

Windows 10

[4] - [All Apps] : Touch[4] (Start) and then touch [All Apps].

Windows 7

🚳 (Start) - [All Programs]: Touch 🚳 (Start), and then touch [All Programs].

- Some illustrations are simplified to help your understanding and may look different from the
 actual unit. Some types of software are automatically updated, and differences may occur
 from descriptions in this manual.
- If you do not log on as an administrator, you cannot use some functions or cannot display some screens.
- Refer for the latest information about optional products to the catalogs, etc.
- In these instructions, the names and terms are referred as follows.
 - "Windows 10 Pro 64-bit" as "Windows" or "Windows 10"
 - "Windows 7 Professional 32-bit Service Pack 1" and "Windows 7 Professional 64-bit Service Pack 1" as "Windows" or "Windows 7"
 - "Multilingual User Interface" as "MUI"
 - "Operating Instructions Reference Manual" and "Operating Instructions Connect to a network" as the "Reference Manual" and "Connect to a network".

• Windows 10

Screen messages are explained in [English (United States)].

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

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On-screen Manual

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

- Operating Instructions Reference Manual The Reference Manual contains the practical information to help you fully enjoy the computer's performance. Update it to the latest version for reference.
- 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.
- Update the on-screen manuals This describes the procedures to update the on-screen manual.
- Operating Instructions Connect to a network

This describes the connection procedures using the network devices mounted on this unit. To access the on-screen manuals, follow the steps below.

Double-touch [Manual Selector] on the desktop, and select the manual and the touch [Open].

Windows 10

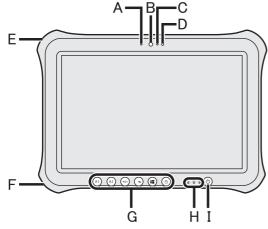
- 1. Double-touch the [Panasonic PC Settings Utility] on the desktop screen, and then touch [Support] [Manual] [Launch Manual Selector].
- 2. Select the manual and touch [Open].

NOTE

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

Description of Parts

Front side



Front Camera

- → ∰ Reference Manual "Camera"
- A: Camera Indicator
- **B: Camera Lens**
- **C: Microphone**

D: Ambient Light Sensor

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

(→ page 15) E: Security lock

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

F: DC-IN jack

G: Tablet Buttons

→ ∰ Reference Manual "Tablet Buttons"

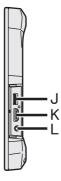
H: LED Indicator

: Power Indicator

Off : Power off/Hibernation, Green: Power on, Blinking green: Sleep, Blinking green and orange: Cannot power on or resume due to low temperature.

- : Drive status
- 1 : Battery status
 - ➔ page 14 "When the battery indicator does not light on"
 - ➔ ♀ Reference Manual "Battery Power"
- I: Power Switch

Right side



J: USB3.0 Port

→ ∰ Reference Manual "USB Devices"

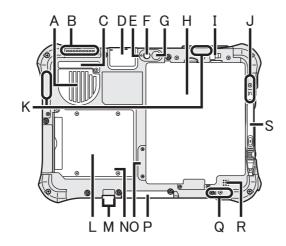
K: HDMI Port

➔ ♀ Reference Manual "External Display"

L: Headset Jack

A headset or headphone can be connected.

Rear side



- A: Ventilation Hole (Intake)
- **B: Ventilation Hole (Exhaust)**
- C: Dust Cover
 - → page 16 "To clean inside of the dust cover"
- D: USB2.0 Port^{*1} / LAN Port^{*2} / Serial Port^{*3} / microSD Memory Card Slot^{*4} / GPS^{*5}

^{*1} Only for model with USB2.0 port

- → 型 Reference Manual "USB Devices"
- *2 Only for model with LAN port
- → ∰ Connect to a network "LAN"
- *3 Only for model with Serial port
- → 型 Reference Manual "Serial Port"
- ^{*4} Only for model with microSD memory card slot
- → ∰ Reference Manual "microSD Memory Card"
- *5 Only for model with GPS

Rear Camera

<Only for model with Rear Camera>

- → ∰ Reference Manual "Camera"
- E: Camera Indicator
- F: Camera Lens
- G: Camera light
- H: Battery Pack

→ ⁽¹⁾ *Reference Manual* "Battery Power"

I: Battery Latch

→ ⁽¹⁾ *Reference Manual* "Battery Power"

- J: Wireless LAN Antenna / Bluetooth Antenna
 - <Only for model with wireless LAN>
 - → ♀ ♀ Connect to a network "Wireless LAN"
 <Only for model with Bluetooth>
 - → 型 Reference Manual "Bluetooth"

K: Wireless WAN Antenna

<Only for model with wireless WAN>

- → ₩ Reference Manual "Wireless WAN"
- L: Smart Card Slot^{*6} / Magnetic Stripe Card Reader^{*7} / Contactless Smart Card Reader^{*8} / Built-in Bridge Battery^{*9} ^{*6} Only for model with Smart Card Slot
 - → ∰ Reference Manual "Smart Card"
 - ^{*7} Only for model with Magnetic Stripe Card Reader
 - → ♥ Reference Manual "Magnetic Stripe Card Reader"
 - ^{*8} Only for model with Contactless Smart Card Reader
 - ➔ ♀ ♀ Reference Manual "Contactless Smart Card Reader"
 - *9 Only for model with Built-in Bridge Battery
 - → ∰ Reference Manual "Battery Power"
- M: External Antenna Connector
- N: LED Indicator (Battery status)
 - <Only for model with Built-in Bridge Battery>
 - → ∰ Reference Manual "Battery Power"

O: SIM Card Slot

- <Only for model with wireless WAN> → ♥ Reference Manual "Wireless WAN"
- P: Expansion Bus Connector
 - → 型 Reference Manual "Cradle"
- Q: Wireless LAN Antenna <Only for model with wireless LAN>

→ ∰ Connect to a network "Wireless LAN"

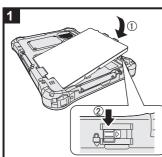
- R: Speaker
- S: Pen Holder

Preparation

① Check and identify the supplied accessories.

If you do not find the described accessories, contact your support office.

- AC Adaptor. 1 AC Cord 1 Battery Pack 1 Digitizer pen. 1
 Model No: CF-AA6413C
 Tether 1 • Soft Cloth ... 1



Furn over the computer and insert the battery pack $(①)$ until it touch o the secured position $(②)$.
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.

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	Discharge period	
	FZ-VZSU84AU	FZ-VZSU88U
When power is off / In hibernation	Approx. 7 weeks	Approx. 14 weeks
In sleep	Approx. 10 days	Approx. 20 days

<Only for model with Built-in Bridge Battery>

The period of time is the value when the built-in bridge battery is fully charged.

<Only for model with LAN>

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

2 Attach the pen (included) to the computer

The tether prevents the pen (included) from falling accidentally.

① Pass one of the loops through the hole.

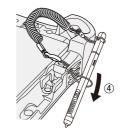


- ③ Thread the second loop on the tether through the hole as illustrated.

② Pass one of the loops through another loop.

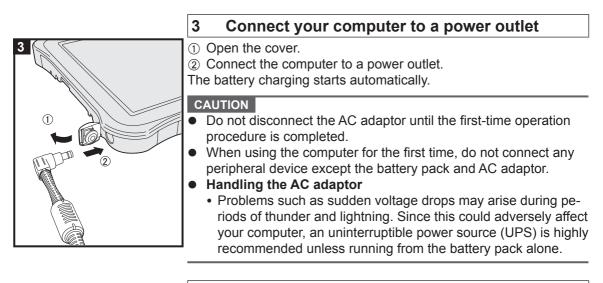


④ Pass the pen and tether through the second loop.



CAUTION

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



Windows 7

5 <For MUI OS model>

Select language and OS (32-bit or 64-bit)

CAUTION

 Carefully choose your language because you cannot change it later. If you set a wrong language, you need to reinstall Windows.

NOTE

• You can operate with the Tablet Buttons. Follow the instructions.

₫•• : ↑

```
(•⊲•): ↓
```

- : Enter key
- (a): Tab key
- ① Select language and OS (32-bit or 64-bit) on "Select OS" screen and touch [OK].

The language setting will start by touching [OK] on the confirmation screen.

The language and OS setting will be completed in about 15 minutes.

② When termination screen is displayed, touch [OK] to turn off the computer.

6 Setup Windows

Windows 10

Select language and touch [Next].

Windows 7

Turn on the computer.

Follow the on-screen instructions.

- The computer restarts several times.
- 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 Windows 10
 5 minutes / Windows 7 20 minutes.
 Go to the next step, confirming each message on the display.
- Windows 7 Follow the steps below.
 - When "Enable sensors" is displayed, touch [Enable this sensor].
 - ② When the [User Account Control] screen is displayed, touch [Yes].

③ At the [Display Rotation Tool] confirmation screen, touch [Yes]. The computer restarts automatically, and the setting is enabled.

• You can set the Wireless Network after the setup of Windows is complete.

Windows 10 If "Let's get connected" is displayed, select "Skip this step".Windows 7 "Join a wireless network" screen may not appear.

CAUTION

- You can change the user name, password, image and security setting after setup of Windows.
- Remember your password. If you forget the password, you cannot use 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 Windows 7 @.
- Windows 7 In particular, if you create a user name (account name) that includes the "@" mark, a password will be requested at the log-on screen, even if no password has been set. If you try to log on without entering a password, "The user name or password is incorrect." may be displayed and you will not be able to log on to Windows (→ page 27).
- Use standard characters as a computer name: numbers 0 through 9, uppercase and lowercase letters from A to Z, and the hyphen (-) character.

If the error message "The computer name is not valid" appears, check if characters other than the above are not entered. If the error message still remains on the display, set the key entry mode to English ("EN") and enter characters.

7 Windows 10 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.

8 Update the on-screen manual

① Connect to the internet. Windows 10 Sign in / Windows 7 Log on to Windows as an administrator.
Ear further information refer to \$10 OPERATING INSTRUC

For further information, refer to \mathcal{P} OPERATING INSTRUC-TIONS - Connect to a network.

② Update the on-screen manual.
 Windows 10 Double-touch the [Panasonic PC Settings Utility] on the desktop screen, and then touch [Support] - [Manual] - [Launch Manual Selector].

Windows 7 Double-touch [Manual Selector] on the desktop. Follow the on-screen instructions.

9 Create a recovery disc

A recovery disc allows you to install OS and restore its factory default condition, in case, the recovery partition of the flash memory is damaged. We recommend creating a recovery disc before you begin using the computer. Refer to $\Rightarrow \bigoplus OPERATING INSTRUCTIONS - Reference Manual$ "Recovery Disc Creation Utility" about creating the disc.

NOTE

• Windows 10 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.

(→ ∰ Reference Manual "Troubleshooting (Advanced)" - "Checking the Computer's Usage Status")

Windows 10 <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.

• Windows 7 <For MUI OS model>

If the recovery partition is deleted, you cannot create Recovery Disc(s).

Before using wireless function

Windows 10

 Touch (Notification) at the task tray, and then touch (All settings) - [Network & Internet] -[Airplane mode].

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

- set [Wi-Fi] to [On] (for wireless LAN).
- set [Cellular] to [On] (for wireless WAN).
- set [GPS] to [On] (for wireless WAN).
- set [Bluetooth] to [On] (for Bluetooth).

Windows 7

- ① Touch the Wireless Switch Utility icon to show the pop-up menu.
- ② Select ON for the device you want to enable.

About the partition structure

You can shrink a part of an existing partition to create unallocated disk space, from which you can create a new partition.

CAUTION

Windows 10

 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.

Windows 7 To change the partition structure

- ① Touch 🚱 (Start) and touch and hold [Computer], then touch [Manage].
 - A standard user needs to enter an administrator password.
- Touch [Disk Management].
- ③ Touch and hold the partition for Windows ("c" drive in the default setting), and touch [Shrink Volume].
 - The partition size depends on the computer specifications.

- ④ Input the size in [Enter the amount of space to shrink in MB] and touch [Shrink].
 - You cannot input a larger number than the displayed size.
 - To select [Reinstall Windows to the OS related partitions.] in installing OS
 (→ page 21), 60 GB or more is necessary for [Total size after shrink in MB].
- (5) Touch and hold [Unallocated] (the shrunk space in the step ④) and touch [New Simple Volume].
- 6 Follow the on-screen instructions to make the settings, and touch [Finish]. Wait until formatting is completed.

NOTE

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

Turning On

Press and hold the power switch (\bigcirc) (\Rightarrow page 4) until the power indicator (\bigcirc) (\Rightarrow page 4) lights.

NOTE

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

Turning Off

Windows 10

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

Windows 7

Touch 💿 (Start) - [Shutdown].

NOTE

• Windows 10

- To turn off the computer completely, proceed as follows.
- 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].

Precautions against Starting Up/Shutting Down

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

NOTE

- To conserve power, the following power saving methods are set at the time of purchase.
 - The screen automatically turns off after : 10 minutes (when AC adaptor is connected) of inactivity 5 minutes (when operating on battery power) of inactivity
 The computer automatically enters sleep¹ after :
 - The computer automatically enters sleep¹ after : 20 minutes (when AC adaptor is connected) of inactivity 15 minutes (when operating on battery power) of inactivity
 - ¹ Refer to P Reference Manual "Sleep or Hibernation Functions" about resuming from sleep.

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)^{*1} Storage : -20 °C to 60 °C {-4 °F to 140 °F}

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

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

- Do not expose the skin to this product when using the product in a hot or cold environment.
 (→ OPERATING INSTRUCTIONS Read Me First)
 If the computer is wet in temperatures of 0 °C {32 °F} or below, freeze damage may occur.
 Make sure to dry off the computer in such temperatures.
- Do not place the computer in the following areas, otherwise the computer may be damaged.
 Near electronic equipment. Image distortion or noise may occur.
 - In extremely high or low temperature.
- As the computer can become hot during operation, keep it away from items that are sensitive to heat.

Handling cautions

This computer is designed to minimize shock to parts such as the LCD and the 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.
- Be careful not to get injured by dropping or getting hit when carrying the computer.
- Use only the included digitizer pen 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/digitizer pen can scratch the screen surface or obstruct the digitizer pen operation.
- Use the digitizer pen only for touching the screen. Using it for any other purpose may damage the digitizer pen and result in scratches on the screen.
- The digitizer uses electromagnetic induction and may not work properly near strong electrical field or magnetic field such as:
 - Near AM radio base station or relay station antennas
 - Near CRT displays that generate strong electromagnetic field noise Move the digitizer away from such locations so it will work properly.
- The pointer cannot follow the digitizer pen movement if you move the digitizer pen too quickly.

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 Reference Manual to avoid any damage to the devices. Carefully read the instruction manuals of the peripheral devices.

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

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

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

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

Battery Recalibration

• The battery recalibration may take a long time due to the large battery capacity. This is not a malfunction.

<When performing "Battery Recalibration" after shutting down Windows>

- Full charge: Approximately 2.5 hours (with FZ-VZSU84AU) / Approximately 3.0 hours (with FZ-VZSU88U)
- Complete discharge: Approximately 3.5 hours (with FZ-VZSU84AU) / Approximately 7.0 hours (with FZ-VZSU88U)

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 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.

Windows 10

- ① Touch 🔳 (Start) at the lower left, and then touch 🏠 (Settings) [System] [Display].
- ② Set [Change brightness automatically when lighting changes] to [On].

CAUTION

• The [Change brightness automatically when lighting changes] item may not be available in some cases. In such cases, touch the arrow to the left of [Settings] at the top left of the screen, and perform the operation from [System] - [Display] again.

Windows 7

- Touch
 (Start) [Control Panel] [Hardware and Sound] [Power Option].
- ② Touch [Change plan settings] for the power plan currently used.
- ③ Touch [Change advanced power settings] and double-touch [Display].
- ④ Double-touch [Enable adaptive brightness], make necessary settings, and touch [OK]. Set each item to ON, and the brightness of the screen display will adjust automatically.

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 it readings may be inaccurate, especially in the following environments.

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

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

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

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

CAUTION

- Hold the computer firmly when moving it. Strong shocks from dropping the computer may result in damage.
- Windows 7 If the sensors do not works correctly, check the settings according to the following steps.
- ① Touch 💿 (Start) [Control Panel] [Hardware and Sound] [Location and Other Sensors].
- ② Add the check mark for each check box.
- ③ Touch [Apply].

Maintenance

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

To clean the LCD panel

Use the soft cloth included with the computer. (For further information, refer to "Suggestions About Cleaning the LCD Surface" $\rightarrow \mathcal{R}$ *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.

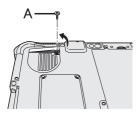
CAUTION

- 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.

To clean inside of the dust cover

Approximately once a month, clean up inside of the dust cover by the following procedure.

- Turn off the computer and remove the AC adaptor.
- 2 Turn over the computer, and remove the battery pack.
- ③ <Only for model with Built-in Bridge Battery> Wait for about 1 minute.
- ④ Remove the screw (A) and dust cover as illustrated below.



- ⑤ Clean up inside of the dust cover.
- ⑥ Set the dust cover, screw and battery pack.

Dispose of Computer

- Preparation
- Remove all peripherals and microSD memory card, etc.
- Erase the stored data. (→ ♀ Reference Manual "Erasing Flash Memory Data")

<Only for model with Built-in Bridge Battery> <For Europe and U.S.A./Canada>

Attention Customers

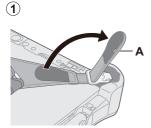
Don't remove the battery by yourself. The battery must be removed by qualified professionals. When disposing of this product, be sure to contact qualified professionals to remove the battery.

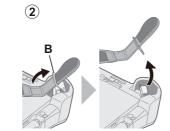
Attention Qualified professionals to remove the battery

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

CAUTION

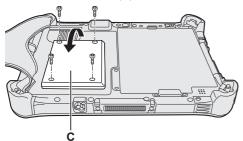
- Never disassemble the computer except before disposal.
- Refer to the precautions when disposing of the computer.
 - (→ OPERATING INSTRUCTIONS Read Me First)
- 1. Turn off the computer, and disconnect the AC adaptor.
- 2. Turn over the computer, remove the battery pack, and wait for about 1 minute.
- 3. If there are a hand strap, open up the whole hand strap.
 - ① Remove the edge (A) of hand strap passing through the clip. (The illustration shows the top side of hand strap as an example.)
 - ② Tip the clip (B) back to pull it out of the computer. (Do the same for the bottom side of hand strap.)
 - ③ Open up the whole hand strap.

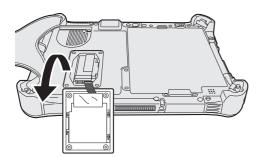




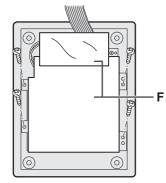


4. Remove the screws (4) and turn over the cover (C).

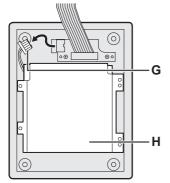




5. Pull back the sheets (F) in the cover, and then remove the black screws (4).



6. Remove the connector of the built-in bridge battery (G), and remove the built-in bridge battery with the metal plate (H).



Insulate the connector of the built-in bridge battery by covering them with plastic tape, for example.

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 Windows 10

Touch and hold (Start) at the bottom left corner of the Desktop screen.

Touch (Start) and

Touch 🚱 (Start) and touch and hold [Computer], then touch [Manage].

- A standard user needs to enter an administrator password.
- Touch [Disk Management].

Windows 10 Reset Windows

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

Preparation

- Remove all peripherals and microSD memory card, etc.
- Connect the AC adaptor and do not remove it until installation is complete.

1 Perform "Reset Windows".

- ① Touch discrete: [Settings] [Update & security] [Recovery].
- ② Touch [Get Started] under "Reset this PC".
- ③ Select the option.
 - [Keep my files]

Applications and other items that do not come with this computer will be removed. [Remove everything]

- [Just remove my files]
- [Remove files and clean the drive]

By fully cleaning, the deleted files can not be recovered easily and the security level will be increased.

Follow the on-screen instructions. It may take several hours depending on the environment.

After the reinstallation, the computer will restart.

 Do not interrupt installation, for example by turning off the computer or performing other operation.

Otherwise installation may become unavailable as Windows may not start up or the data may be corrupted.

2 Perform the "Setup Windows" (\rightarrow page 8).

NOTE

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

3 Perform Windows Update.

4 Windows 10 <Only for model with TPM> Clear TPM.

- 1 Touch and hold **(**Start), touch [Run].
- Input [tpm.msc] and touch [OK].
- ③ Touch [Clear TPM...] under "Actions" on the right of the "TPM Manager on Local Computer" screen.
- Touch [Restart] of the "Manage the TPM security hardware" screen. The computer will restart.
- ⑤ When "TPM configuration change was requested to ..." is displayed, press volume up button.
- (6) Touch the Desktop tile, and when "TPM is ready" appears, touch [Close].

NOTE

- You can use the following buttons instead of the keyboard when the Setup Utility screen is displayed.
 - $\textcircled{\ } : \to \mathsf{key}$
 - ••• : ↓ key
 - Enter key
 - (a) : ESC key
 - F2 key (Default setting)

Disk (Flash memory) recovery

You can reinstall the OS that was pre-installed at the time of purchase (Windows 10 or Windows 7).

CAUTION

• If the recovery partition is deleted, you cannot perform hard disk (flash memory) recovery.

Windows 10 If reinstallation using the method described in "Reset This PC" is not successful, follow the steps below.

Preparation

1

- Remove all peripherals and microSD memory card, etc.
- Connect the AC adaptor and do not remove it until installation is complete.
- Start the Setup Utility.

Windows 10

- ① Touch 🔳 (Start) [Settings] [Update & security] [Recovery].
- 2 Touch [Restart now] under "Advanced startup".
- ③ Touch [Troubleshoot] [Advanced options] [UEFI Firmware Settings] [Restart].

Windows 7

Turn on the computer, and touch top left of the screen while [Panasonic] boot screen is displayed.

- If the [Panasonic] boot screen is not displayed, turn on the computer while touching top left of the screen.
- If the password is requested, enter the Supervisor Password.
- 2 Write down all of the contents of the Setup Utility and touch [Exit] and double-touch [Load Default Values].

At the confirmation message, select [Yes].

- 3 Check the [UEFI Boot] setting of the Setup Utility. [UEFI Boot] should be set to as follows.
 - When installing Windows 10 : [Enabled]
 - When installing Windows 7 : [Disabled]
- 4 **Touch [Exit] and double-touch [Save Values and Reboot].** At the confirmation message, touch [Yes]. Computer will restart.
- 5 **Touch top left of the screen while [Panasonic] boot screen is displayed.** The Setup Utility starts up.
 - If the password is requested, enter the Supervisor Password.

Useful Information

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

The procedure from step 7 and beyond differs between Windows 10 and Windows 7. For the procedure for Windows 7, skip to the "For Windows 7" section.

For Windows 10

7 Touch [Recovery].

Touch [CANCEL] to abort the operation.

- 8 Touch [Disk 0].
- 9 Touch [Recovery ALL Partitions.].

Follow the on-screen instructions. It may take several hours depending on the environment.

• 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.

10 When Ending process screen is displayed, touch [Shutdown].

11 Turn on the computer.

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

- 12 Perform the "Setup Windows" (\rightarrow page 8).
- 13 Start the Setup Utility and change the settings as necessary.
- 14 <Only for model with TPM> Clear TPM (\rightarrow page 20).

For Windows 7

- 7 Touch [Reinstall Windows] and touch [Next].
- 8 At the License Agreement screen, touch [Yes, I agree to the provisions above and wish to continue!] and touch [Next].

9 Touch [Next].

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

- [Initialize and reinstall Windows to the whole Disk] Select this option when you want to install Windows to the factory default. After installation, you can create a new partition. For how to create a new partition, refer to "About the partition structure" (→ page 10).
- [Reinstall Windows to the OS related partitions.]^{*1}
 Select this option when the flash memory has already been divided into several partitions and you want to keep the partition structure. For how to create a new partition, refer to "About the partition structure" (→ page 10).

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

10 At the confirmation message, touch [YES].

11 <For localized OS model> Select OS (32-bit or 64-bit) and touch [OK]. <For MUI OS model>

Select language and system type (32-bit or 64-bit) and touch [OK]. At the confirmation message, touch [OK].

To cancel the recovery procedure, touch [CANCEL], and touch the mark that appears at the top right corner of the screen.

12 At the confirmation message, touch [YES].

Installation starts according to the instructions on the screen.

• 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.

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

- 14 Turn on the computer.
 - If the password is requested, enter the Supervisor Password.
- 15 Perform the "Setup Windows" (\rightarrow page 8).
- 16 Start the Setup Utility and change the settings as necessary.

Using Recovery Disc

Use the Recovery Disc in the following conditions.

- You have forgotten the administrator password.
- Installation is not complete. The recovery partition in the flash memory may be broken.
- Windows 7 <Only for Windows 7 downgrade model> To change OS from Windows 7 to Windows 10, or vice versa.

NOTE

• Windows 7 To change OS from 32-bit to 64-bit, or vice versa, install OS using the recovery partition in the flash memory.

Preparation

- Prepare the following items:
 - Recovery Disc (Windows 10) USB memory device can also be used as a recovery disc.)
 - (→ ∰ Reference Manual "Recovery Disc Creation Utility")
 - Commercially available optical drive
- Remove all peripherals and microSD memory card, etc. (except for the commercially available optical drive)
- Connect the AC adaptor and do not remove it until installation is complete.

NOTE

- You can use the following buttons instead of the keyboard when the Setup Utility screen is displayed.
 - $\textcircled{} : \rightarrow \text{key}$
 - (•••) : ↓ key
 - Enter key
 - (a) : ESC key
 - (A2) : F2 key (Default setting)

Connect the commercially available optical drive to the USB port. Start the Setup Utility.

Start the Setup Utility.

Windows 10

- ① Touch **u** (Start) [Settings] [Update & security] [Recovery].
- Touch [Restart now] under "Advanced startup".
- ③ Touch [Troubleshoot] [Advanced options] [UEFI Firmware Settings] [Restart].

Windows 7

Turn on the computer, and touch top left of the screen while [Panasonic] boot screen is displayed.

- If the [Panasonic] boot screen is not displayed, turn on the computer while touching top left of the screen.
- If the password is requested, enter the Supervisor Password.

Useful Information

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

At the confirmation message, touch [Yes].

- 4 Check the [UEFI Boot] setting of the Setup Utility. [UEFI Boot] should be set to as follows. When the recovery disc for Windows 10 is used: [Enabled] When the recovery disc for Windows 7 is used: [Disabled]
- 5 Set the Recovery Disc into the commercially available optical drive.
- 6 **Touch [Exit] and double-touch [Save Values and Reboot].** At the confirmation message, touch [Yes]. Computer will restart.
- 7 Touch top left of the screen while [Panasonic] boot screen is displayed.

The Setup Utility starts up.

- If the password is requested, enter the Supervisor Password.
- 8 Touch [Exit] and double-touch the commercially available optical drive in [Boot Override].

The computer will restart.

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

The procedure from step 10 and beyond differs between Windows 10 and Windows 7. For the procedure for Windows 7, skip to the "For Windows 7" section.

For Windows 10

10 Touch [Recovery].

Touch [CANCEL] to abort the operation.

- 11 Confirm the contents of "EULA", and touch [Accept.] if you continue.
- 12 Touch [Disk 0].
- 13 Touch [Recovery ALL Partitions.].

Follow the on-screen instructions. It may take several hours depending on the environment.

• Do not interrupt installation, for example by turning off the computer or performing other operation.

Otherwise installation may become unavailable as Windows may not start up or the data may be corrupted.

14 When Ending process screen is displayed, remove the Recovery Disc and CD/DVD drive or commercially available optical drive and then touch [Reboot].

Follow the on-screen instructions.

- 15 On the "Finish Recovery Process." screen, touch [Shutdown.].
- 16 Turn on the computer.
 - If the password is requested, enter the Supervisor Password.
- 17 Perform the "Setup Windows" (\rightarrow page 8).
- 18 Start the Setup Utility and change the settings as necessary.
- 19 **Clear TPM** (\rightarrow page 20).

For Windows 7

- 10 At the License Agreement screen, touch [Yes, I agree to the provisions above and wish to continue!] and touch [Next].
- 11 <For MUI OS model> Touch [Next].

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

- [Remain recovery partition.]
 Standard recovery method.
 You can use recovery from Recovery Partition.
- [Remove recovery partition.] Increase usable HDD size. You can NOT use recovery from Recovery Partition. When this option is selected, you can no longer create Recovery-Disc(s) after the recovery operation.

CAUTION

Carefully choose above item because you cannot change it later.

12 Touch [Next].

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

- [Initialize and reinstall Windows to the whole Disk] Select this option when you want to install Windows to the factory default. After installation, you can create a new partition. For how to create a new partition, refer to "To change the partition structure" (→ page 10).
- [Reinstall Windows to the OS related partitions.]² Select this option when the flash memory has already been divided into several partitions and you want to keep the partition structure. For how to create a new partition, refer to "To change the partition structure" (→ page 10).
 - ² This does not appear if Windows cannot be installed to the recovery partition and the area usable by Windows.

13 At the confirmation message, touch [YES].

14 <For MUI OS model>

Select language and system type (32-bit or 64-bit) and touch [OK].

At the confirmation message, touch [OK].

To cancel the recovery procedure, touch [CANCEL], and touch the mark that appears at the top right corner of the screen.

Installation starts according to the instructions on the screen. (It will take approximately 30 - 45 minutes. The process may take longer depending on the type of the commercially available optical drive used.)

- Do not interrupt installation, for example by turning off the computer. Otherwise installation may become unavailable as Windows may not start up or the data may be corrupted.
- 15 When Ending process screen is displayed, remove the Recovery Disc and commercially available optical drive and then touch [OK]. Follow the on-screen instructions.

Some models may take approximately 40 minutes.

- 16 Perform the "Setup Windows" (\rightarrow page 8).
- 17 Start the Setup Utility and change the settings as necessary.

Follow the instructions below when a problem has occurred. There is also an advanced troubleshooting guide in the "Reference Manual". For a software problem, refer to the software's instruction manual. If the problem persists, contact Panasonic Technical Support. You can also check the computer's status in the PC Information Viewer ($\Rightarrow \mathfrak{P} \operatorname{Reference Manual}$ "Troubleshooting (Advanced)").

Starting Up

Cannot start up. The power indicator or battery indicator is not lit.	 Connect the AC adaptor. Insert a fully charged battery. 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. Turn off the concealed mode (→ ♀ Reference Manual "Setup Utility"). Check the [UEFI Boot] setting of the Setup Utility. [UEFI Boot] should be set to Windows 10 [Enabled] / Windows 7 [Disabled].
The power is turned on but "Warming up the system" appears.	• The computer is warming up before start up. Wait for the computer to start up (the maximum waiting time will be displayed on the screen). If, "Cannot warm up the system" is displayed, the computer failed to warm up and does not start. In this case, turn off the computer, leave it in an environment of 5 °C {41 °F} or higher temperature for about an hour, and then turn on the power again.
Cannot turn on the com- puter. The computer does not resume from sleep. (The battery indicator blinks green and orange alternately.)	 Leave it in an environment of 5 °C {41 °F} or higher temperature for about an hour, then turn on the power again.
You have forgotten the password.	 Supervisor Password or User Password: Contact Panasonic Technical Support. Administrator password: If you have a password reset disk, you can reset the administrator password. Set the disk and enter any wrong password, then follow the on-screen instructions and set a new password. If you do not have a password reset disk, install (→ page 19) and set up Windows, and then set a new password.
"Remove disks or other media. Press any key to restart" or a similar mes- sage appears.	 A floppy disk is in the drive (optional) and it does not contain system startup information. Remove the floppy disk and press any key. If a device is connected to the USB port, disconnect the device, or set [USB Port] or [Legacy USB Support] to [Disabled] in the [Advanced] menu of the Setup Utility. If the problem persists after removing the disk, it may be a flash memory failure. Contact Panasonic Technical Support.
Windows startup and operation is slow.	 Start the Setup Utility (→ ⊕ Reference Manual "Setup Utility") to return the Setup Utility settings (excluding the passwords) to the default values. Start the Setup Utility and make the settings again. (Note that the processing speed depends on the application software, so this procedure may not make Windows faster.) If you installed resident software after purchase, turn off the residence.

Starting Up	
The date and time are incorrect.	 Make the correct settings. (1) Windows 10 Touch and hold (Start) at the bottom left corner, and then touch [Control Panel]. Windows 7 Touch (Start) - [Control Panel]. (2) Touch [Clock, Language, and Region] - [Date and Time]. If the problem persists, the internal clock battery may need to be replaced. Contact Panasonic Technical Support. <only for="" lan="" model="" with=""> When the computer is connected to LAN, check the date and time of the server.</only> The 2100 A.D. or later year will not be correctly recognized on this computer.
[Executing Battery Recalibration] screen appears.	• The Battery Recalibration was canceled before Windows was shut down last time. To start up Windows, turn off the computer by the power switch, and then turn on.
[Enter Password] does not appear when resum- ing from sleep/hiberna- tion.	 Select [Enabled] in [Password On Resume] in the [Security] menu of the Setup Utility (→ ♀ <i>Reference Manual</i> "Setup Utility"). The Windows password can be used instead of the password set in the Setup Utility. ① Add a password. Windows 10 Touch (Start) - [Settings] - [Accounts]. Touch (Start) - [Control Panel]. Touch [User Accounts and Family Safety] - [Add or remove user accounts]. Set up the following. Windows 10 Open the Control Panel, touch [System and Security] - [Power Options] - [Require a password on wakeup]. Add a check mark for [Require a password]. Windows 7 Touch [Control Panel] - [System and Security] - [Power Option] - [Require a password on wakes] and add a check mark for [Require a password].
Cannot resume.	 One of the following operations may have been carried out. Press the power switch to turn on the computer. Data not saved will be lost. In sleep mode, the AC adaptor or battery pack was disconnected, or a peripheral was connected or disconnected. The power switch was pressed for four seconds or longer to forcibly turn off the computer. An error may occur when the computer automatically enters the sleep or hibernation mode while the screensaver is active. In this case, turn off the screensaver or change the pattern of the screensaver.

Starting Up	
Other startup problems.	 Start the Setup Utility (→ ♀ Reference Manual "Setup Utility") to return the Setup Utility settings (excluding the passwords) to the default values. Start the Setup Utility and make the settings again. Remove all peripheral devices. Check to see if there was a disk error. Remove all peripheral devices including an external display. Windows 10 Touch and hold (Start) at the bottom left corner, and then touch [File Explorer]. Windows 7 Touch @ (Start) - [Computer]. Touch and hold [Windows (C:)], and touch [Properties]. Touch [Tools] - Windows 10 [Check] / Windows 7 [Check Now]. A standard user needs to enter an administrator password. Follow the on-screen instructions.

Entering Password	
Even after entering the password, password in- put screen is displayed again.	 <only connected="" external="" if="" is="" keyboard="" the=""></only> The computer may be in ten-key mode. If the NumLk indicator 1 lights, press NumLk to disable the ten-key mode, and then input. The computer may be in Caps Lock mode. If the Caps Lock indicator A lights, press Caps Lock to disable the Caps Lock mode, and then input.
Windows 7 Cannot log on to Windows. ("The user name or password is incorrect." is displayed.)	 The user name (account name) includes an "@" mark. If another user account name exists: Log on to Windows using another user account name, and delete the account name that includes "@". Then create a new account name. If no other account name exists: You need to reinstall Windows (→ page 19).

Shutting down

• Wait one of two minutes. It is not a manufaction.			Remove the USB device. Wait one or two minutes. It is not a malfunction.	
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Display

No display.	When using an external display,
	Check the cable connection.
	Turn on the display.
	Check the settings of external display.
	• The display is turned off by the power-saving function.
	Touch the screen.
	• The computer entered sleep or hibernation by the power-saving
	function. To resume, press the power switch.

Display

The screen is dark.	 The screen is darker when the AC adaptor is not connected. Open the Dashboard for Panasonic PC and adjust the brightness. As you increase the brightness, battery consumption increases. You can separately set the brightness for when the AC adaptor is connected and when not connected. Turn off the concealed mode (→ ♀ Reference Manual "Setup Utility"). 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 15).
The screen is disor- dered.	 Changing the number of display colors and resolution may affect the screen. Restart the computer. Connecting/disconnecting an external display may affect the screen. Restart the computer.
During Simultaneous display, one of the screens becomes disor- dered.	 When using the Extended Desktop, use the same display colors for the external display as those used by the LCD. If you continue to experience problems, try changing the display. Simultaneous display cannot be used until Windows startup is com- plete (during Setup Utility, etc.).
The external display does not work normally.	 If the external display does not support the power saving function, it may not work normally when the computer enters the power sav- ing mode. Turn off the external display.
Cannot rotate the dis- play.	 The application program currently running may not support the image rotation. Quit the program, and then try to rotate the image. This can ameliorate the status. When the automatic rotation is off, screen display does not rotate automatically.

Screen

Cannot operate the touchscreen.	 If the screen is wet with water drops, wipe them off. When using this computer in the state where the screen is wet, wipe water drops. Then turn the computer on, set touch panel mode to [Touch (Water)] in "Touch Screen Mode Setting Utility" (→ ♀ Reference Manual "Screen Input Operation"). Before the computer turn on, wipe water drops. 	
The pointer does not work.	 When using the external mouse, connect it correctly. Restart the computer using the external keyboard/mouse. If the computer does not respond to external keyboard/mouse commands, read "No response" (→ page 29). 	
Cannot point the cor- rect position using the included digitizer pen.	 Perform the screen calibration (→ ♀ Reference Manual "Screen Input Operation"). Use the pen (included) perpendicularly to the screen. Use the included pen. On the Windows logon screen or the Welcome screen, you may not be able to point the correct position using the included digitizer pen. Use the external keyboard or the external mouse to log on. 	

Windows 7	Install Adobe Reader.
The document of PDF	① Log on to Windows as an administrator.
format is not displayed.	 Touch (Start) and input "c:\util\reader\en\Pinstall.bat" in [Search programs and files] then press Enter. Update Adobe Reader to its latest version. If your computer is connected to the internet, start up Adobe Reader and touch [Help] - [Check for Updates].

No response.	• Open Task Manager and close the software application that is not
	 e 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. e Press the power switch for four seconds or longer to shut down the computer, and then press the power switch to turn it on. If the application program does not work normally, uninstall and reinstall the program. To uninstall, ① Windows 10 ① Touch and hold (Start) at the bottom left corner, and then touch
	[Control Panel]. Windows 7 Touch (Start) - [Control Panel]. (2) Touch [Program] - [Uninstall a program].
Cannot connect to a network.	 Set the device ([Wireless LAN] / [Bluetooth] / [Wireless WAN] of [Wireless Configuration]) to [Enabled] in the [Advanced] menu of the Setup Utility (Wireless Configuration).

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Coordonnées de contact : 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

This page provides the specifications for the basic model.

The model number is different according to the unit configuration.

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

 To check CPU speed, memory size and the flash memory drive size: Run the Setup Utility (→ ♀ Reference Manual "Setup Utility") and select [Information] menu. [Processor Speed]: CPU speed, [Memory Size]: Memory size, [Hard Disk]: Flash Memory drive size

Main Specifications

-		
CPU		Intel [®] Core [™] i5-6300U Processor (3 MB ^{⁻¹} cache, 3.00 GHz) with Intel [®] Turbo Boost Technology
Chip Set		Built-in CPU
Video Controlle	r	Intel [®] HD Graphics 520 (Built-in CPU)
Memory ^{*1*2}		4 GB / 8 GB
Storage ^{*3}		Flash memory drive : 128 GB / 256 GB / 512 GB
		 Windows 10 Approx. <for localized="" model="" os=""> 10 GB / <for model="" mui="" os=""> 20 GB is used as a partition with flash memory recovery tools. (Users cannot use this partition.)</for></for> Approx. 1 GB is used as a partition with system tools. (Users cannot use this partition.) Windows 7 <only 7="" downgrade="" for="" model="" windows=""></only> Approx. <for localized="" model="" os=""> 20 GB / <for model="" mui="" os=""> 50 GB is used as a partition with flash memory recovery tools. (Users cannot use this partition.)</for></for> Windows 7 is used as a partition with flash memory recovery tools. (Users cannot use this partition.) Approx. 1 GB is used as a partition with system tools. (Users cannot use this partition.)
Display Method	1	10.1 WUXGA type
Internal LCD ^{*4}		Max. 16,777,216 colors (1920 × 1200 dots)
External Display (HDMI)*5		65,536 / 16,777,216 colors (1920 x 1200 dots Max.)
Wireless LAN ^{*6}		Intel [®] Dual Band Wireless-AC 8260 (a/b/g/n/ac) → page 36
Bluetooth*7		→ page 36
Sound		WAVE and MIDI playback, Intel [®] High Definition Audio subsystem support, Monaural speaker
Camera	Front	1280 × 720 dots, 30 fps (Video), Monaural Microphone
Sensor		Ambient light sensor, Magnetic sensor, Gyro sensor, Acceleration sensor
Interface		USB Port 3.0 x 1 ^{*8} , HDMI Port (Type A) ^{*9} , Expansion Bus Connector, Headset (Miniature jack, 3.5 DIA, CTIA standard / Headphone: Impedance 32 Ω , Output Power 4 mW × 2, Stereo / Microphone: Monaural Input)
Pointing Device		Digitizer + Multi touch (Capacitive) (Anti-Reflection, Digitizer pen (includ- ed) touch capable) Glove / Water mode
Power Supply		AC adaptor or Battery pack
AC Adaptor ^{*10}		Input: 100 V - 240 V AC, 50 Hz/60 Hz, Output: 16 V DC, 4.06 A

Main Specifications

· · · · · · · · · · · ·			
Battery Pack			Li-ion 11.1 V, 4080 mAh (min.) (with FZ-VZSU84AU)
Operating Time ^{*11}		1	Approx. 14 hours (with FZ-VZSU84AU)
Charging Time ^{*12}		Power on	Approx. 3 hours (with FZ-VZSU84AU)
		Power off	Approx. 2.5 hours (with FZ-VZSU84AU)
Power Consumption ^{*13}		ion ^{*13}	Approx. 30 $W^{^{\star_{14}}}$ / Approx. 60 W (maximum when recharging in the ON state)
Physical Dimensions (W × D × H)		ons	270 mm × 188 mm × 19 mm {10.6 " × 7.4 " × 0.75 "}
Weight			Approx. 1.1 kg {Approx. 2.5 lb.} (with FZ-VZSU84AU) Approx. 1.3 kg {Approx. 2.87 lb.} (with FZ-VZSU88U)
Envi-	Operat- ing	Tempera- ture	-10 °C to 50 °C {14 °F to 122 °F} (IEC60068-2-1, 2) ^{*15}
		Humidity	30% to 80% RH (No condensation)
	Storage	Tempera- ture	-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 ^{*16}	Windows 10 Windows 10 Pro 64-bit Windows 7 Windows 7 Professional 32-bit Service Pack 1 (downgraded to Windows 7) ^{*17} / Windows 7 Professional 64-bit Service Pack 1 (down- graded to Windows 7) ^{*17}
Pre-installed Software ^{*16}	PC Information Viewer, Intel [®] PROSet/Wireless Software, Intel [®] Wireless Bluetooth [®] , Camera Utility ^{*18} , GPS Viewer ^{*18} , Manual Selector, Microsoft Office Trial ^{*20} , Wireless Manager Mobile Edition ^{*19*21} , Recovery Disc Creation Utility, Intel [®] WiDi, Concealed Mode Settings Utility, Display Rotation Tool, Hand Writing Utility
	Windows 10 Panasonic PC Settings Utility ^{*22} , Wireless Toolbox
	Windows 7 Adobe Reader, Battery Recalibration Utility, Infineon TPM Professional Package ^{*18*19} , Dashboard for Panasonic PC, Power Plan Extension Utility, Touch Screen Mode Setting Utility ^{*18} , Wireless Switch Utility, Wireless Connection Disable Utility ^{*18*19} Camera Light Switch Utility ^{*18}
	Aptio Setup Utility, PC-Diagnostic Utility, Hard Disk Data Erase Utility ^{*23}

■ Wireless LAN^{*6}

Data Transfer Rates	$\begin{array}{l} IEEE802.11a:54\ Mbps^{'24} \\ IEEE802.11b:11\ Mbps^{'24} \\ IEEE802.11g:54\ Mbps^{'24} \\ IEEE802.11n^{'25: HT20 = 150\ Mbps} \\ HT40 = 300\ Mbps \\ IEEE802.11ac: \ VHT80:866.7\ Mbps \\ VHT40:400\ Mbps \\ VHT40:173.3\ Mbps \\ \end{array}$
Standard Supported	IEEE802.11a / IEEE802.11b / IEEE802.11g / IEEE802.11n / IEEE802.11ac
Transmission Method	OFDM system, DS-SS system

■ Bluetooth^{*7}

Bluetooth Version	Windows 10 4.1 / Windows 7 4.0
	Classic mode / Low Energy mode
Transmission Method	FHSS system
Wireless Channels Used	Channels 1 to 79 / Channels 0 to 39
RF Frequency Band	2.402 GHz - 2.480 GHz

Optional Devices

Wireless WAN*26		LTE compatible
GPS		Chip: u-blox NEO-M8N GPS/GLONASS/SBAS Support
LAN		IEEE 802.3 10Base-T / IEEE 802.3u 100Base-TX / IEEE 802.3ab 1000Base-T
Security Chip ^{*27}		TPM (TCG V1.2 compliant)
Camera	Rear ^{*28}	1280 × 720 dots, 30 fps (Video) / 3264 × 2448 dots (Still)
Smart Card Slot		x 1
microSD Memory Card Slot ^{*29}		x 1, microSDXC compatible
SIM Card Slot ^{*26}		x 1
Magnetic Stripe Card Reader		x 1
Contactless Smart Card Reader		RF frequency: 13.56 $\rm MHz,$ compatible with ISO14443 Type-A, ISO14443 Type-B
Barcode Reader		x 1
USB 2.0 port ^{*8}		x 1
Serial Port ^{*30}		x 1, Dsub 9-pin male
Battery Pack		(FZ-VZSU88U) Li-ion 10.8 V, 8700 mAh (min.)
Operating Time ^{*11}		Approx. 28 hours (with FZ-VZSU88U)
Charging	Power on	Approx. 4 hours (with FZ-VZSU88U)
Time ^{*12}	Power off	Approx. 3 hours (with FZ-VZSU88U)
Built-in bridge battery (not replaceable)		(For hot swap only)

- ^{*1} 1 MB = 1,048,576 bytes / 1 GB = 1,073,741,824 bytes
- ² Memory size of the factory default depends on the model.
- ^{*3} 1 MB = 1,000,000 bytes / 1 GB = 1,000,000,000 bytes. Your operating system or some application software will report as fewer GB.
- ^{*4} Depending on the OS settings.
- ⁵ Selectable resolution depends on the specifications of the external display. Display may be impossible using some connected external displays.
- ^{*6} Only for model with wireless LAN.
- ⁷ Only for model with Bluetooth. Does not guarantee operation of all Bluetooth peripherals.
- ⁸ Does not guarantee operation of all USB-compatible peripherals.
- ⁹ Does not guarantee operation of all HDMI-compatible peripherals.
- ^{*10} The AC adaptor is compatible with power sources up to 240 V AC adaptor. The unit for North America (identified by the suffix 'M' on the model number) is supplied with a 125 V AC compatible AC cord.

20-M-1-1

- $^{\ast 11}$ Measured with LCD brightness: 60 cd/m^2
- Varies depending on the usage conditions, or when an optional device is attached.
- ^{*12} Varies depending on the usage conditions, CPU speed, etc..
- ¹³ Approx. 0.5 W when the battery pack is fully charged (or not being charged) and the computer is OFF. Even when the AC adaptor is not connected to the computer, power is consumed (Max. 0.15 W) simply by having the AC adaptor plugged into an AC outlet.
- ^{*14} Rated power consumption 23-E-1
- ¹¹⁵ Do not expose the skin to this product when using the product in a hot or cold environment. (→ OPERATING INSTRUCTIONS - Read Me First)

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. The computer consumes power when the flash memory is warming up during startup.

- Therefore, if you are using battery power and the remaining power is low, the computer may not start up. ^{*16} Operations of this computer are not guaranteed except for the pre-installed OS and the OS which is installed by using the flash memory recovery and the recovery disc.
- ¹⁷ This system is preinstalled with Windows 7 Professional software and also comes with a license for Windows 10 Pro software. You may only use one version of the Windows software at a time. Switching between versions will require you to uninstall one version and install the other version.
- ¹⁸ Depending on the models, this application software is not installed.
- ^{*19} Must be installed before use.
- ²⁰ To continue using this software after the end of the trial, purchase a license by following the on-screen instructions.
- *21 <For localized OS model>

For information on Wireless Manager, refer to the supplementary instructions by the following procedure. Windows 10

Touch [Run] and input "c:\util\wlprjct\Supplementary Instructions.pdf" then touch [OK]. Windows 7

Touch log (Start) and input "c:\util\wlprjct\Supplementary Instructions.pdf" in [Search programs and files] and press **Enter**.

- ²² Panasonic PC Settings Utility includes the following functions: Battery Charge Speed / Battery Recalibration / Touch Operation Support / Power Saving Settings / etc.
- ²³ Perform on the recovery disc. **Windows 7** Alternatively perform on the flash memory recovery partition.
- ^{*24} These are speeds specified in IEEE802.11a+b+g+n+ac standards. Actual speeds may differ.
- ^{*25} Available when set to "WPA-PSK", "WPA2-PSK" or "none". Only available when HT40 enabled by the computer and access point which associated supports HT40.

^{*26} The specifications may differ depending on the model.

A SIM card (15 {0.59"} mm × 25 {0.98"} mm) must be inserted in the SIM card slot.



*27 Windows 7

Double-touch [Manual Selector] on the desktop, and select "Installation Manual for Trusted Platform Module (TPM)".

- ^{*28} The specifications may differ depending on the model. 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.
- ²⁹ Operation has been tested and confirmed using Panasonic microSD Memory Card with a capacity of up to 2 GB and Panasonic microSDHC Memory Card with a capacity of up to 32 GB.
- Operation on other microSD equipment is not guaranteed.
- ³⁰ To connect the serial device, the serial conversion cable (included) is necessary.

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.

Wireless Module Warranty

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

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

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

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

Options and Accessories Warranties

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

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

Section 2 - Limited Warranty - Software

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

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

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

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

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

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

THIS PRODUCT IS NOT INTENDED FOR USE AS OR PART OF NUCLEAR EQUIPMENT/SYSTEMS, AIR TRAFFIC CONTROL EQUIPMENT/SYSTEMS, OR AIRCRAFT COCKPIT EQUIPMENT/SYSTEMS¹. PANASONIC WILL NOT BE RESPONSIBLE FOR ANY LIABILITY RESULTING FROM THE USE OF THIS PRODUCT ARISING OUT OF THE FOREGOING USES.

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

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

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

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

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

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

For Canada

PANASONIC COMPUTER AND PERIPHERALS LIMITED WARRANTY

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

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

<u>Remedy</u> – 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.

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

THIS PRODUCT IS NOT INTENDED FOR USE AS, OR AS PART OF, NUCLEAR EQUIPMENT/SYSTEMS, AIR TRAFFIC CONTROL EQUIPMENT/SYSTEMS, OR AIRCRAFT COCKPIT EQUIPMENT/SYSTEMS². PANASONIC WILL NOT BE RESPONSIBLE FOR ANY LIABILITY RESULTING FROM THE USE OF THIS PRODUCT ARISING OUT OF THE FOREGOING USES.

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

IF YOU SHIP THE PRODUCT FOR WARRANTY SERVICE

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

SOFTWARE MEDIA LIMITED WARRANTY

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

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

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

<u>Remedy</u> – 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 IM-PLIED, 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.

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

Pour le Canada

GARANTIE LIMITÉE – ORDINATEURS ET PÉRIPHÉRIQUES PANASONIC

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

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

<u>Recours</u> – 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.

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

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

EXPÉDITION DU PRODUIT POUR SERVICE SOUS GARANTIE

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

GARANTIE LIMITÉE – SUPPORTS DES LOGICIELS

<u>Couverture</u> – 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.

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

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

<u>GÉNÉRALITÉS</u>

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

SOUS AUCUNE CIRCONSTANCE PCI NE POURRA ÊTRE TENUE RESPONSABLE DES DOMMAGES SPÉCIAUX, INDIRECTS OU CONSÉCUTIFS ATTRIBUABLES À UN MANQUEMENT AUX GARANTIES LIMITÉES DÉCRITES DANS LE PRÉSENT DOCUMENT OU À L'UTILISATION DU PRODUIT INFORMA-TIQUE, 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, pourraientelles ne pas s'appliquer.

Standard Limited Warranty

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.

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 RE-SULTING 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.

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.

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

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

Web page

Helpdesk

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

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

Payments

+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 +420 (0) 800 143234 +36 (0) 6800 163 67 +48 (0) 800 4911558 +40 (0) 800 894 743 +421 (0) 800 42672627 toughbooksupport@csg.de

toughbookservicepayments.cardiff@eu.panasonic.com

Panasonic Corporation Osaka, Japan

Panasonic System Communications Company of North America Two Riverfront Plaza Newark, NJ 07102 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 Hagenauer Straße 43 65203 Wiesbaden Germany 55-E-1

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

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