

OPERATING INSTRUCTIONS

Personal Computer

Model No. **CF-S9** series

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Getting Started

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Troubleshooting

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Appendix




For further information about the computer, you can refer to the on-screen manual.
To access the on-screen manual
→ page 16 "On-screen Manual"

For your technical support office, refer to
"LIMITED WARRANTY."

Introduction

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

■ Terms and illustrations in these instructions

CAUTION :	Conditions that may result in minor or moderate injury.
NOTE :	Useful and helpful information.
Enter :	Press [Enter] key.
Fn + F5 :	Press and hold [Fn] key, and then press [F5] key.
 (Start) - [All Programs]:	Click  (Start), and then click [All Programs]. You may need to double-click in some cases.
→ :	Page in these Operating Instructions.
→  :	Reference to the on-screen manuals of the computer.

- Some illustrations are simplified to help your understanding and may look different from the actual unit.
- If you do not log on as an administrator, you cannot use some functions or cannot display some screens.
- Refer for the latest information about optional products to the catalogs, etc.
- In these instructions, the names and terms are referred as follows.
 - “Genuine Windows® 7 Professional (32-bit)” and “Genuine Windows® 7 Professional (64-bit)” as “Windows” or “Windows 7”
 - “WinDVD™ 8 (OEM Version)” as “WinDVD”
- The display modes are referred as follows. () indicates the terms in [Intel® Graphics and Media Control Panel] screen. To display the screen, right-click the desktop and click [Graphics Properties].
 - Internal LCD (Built-in Display): The computer’s display
 - External display: External display
 - Simultaneous display (Clone Displays): The same screen is displayed on the internal LCD and the external display.
 - Extended Desktop: The extended working area across the internal LCD and the external display.


■ Disclaimer

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

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

Read Me First

Models for U.S.A.

<Only for model with a “FC” mark on the bottom of the computer>

Federal Communications Commission Radio Frequency Interference Statement

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

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

Warning

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

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

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

FCC RF Exposure Warning:

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

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

- This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
- This equipment has been approved for mobile operation, and unless otherwise advised in separate supplemental instructions for individual wireless transmitter(s), requires minimum 20 cm spacing be provided between antenna(s) and all person's body (excluding extremities of hands, wrist and feet) during wireless modes of operation.
- This equipment may not be co-located or operated with any other antenna or transmitter.

25-M-6

<Only for model with wireless WAN>

- This product is restricted to indoor use due to its operation in the 5.15 to 5.25 GHz frequency range.

FCC requires this product to be used indoors for the frequency range 5.15 to 5.25 GHz to reduce the potential for harmful interference to co-channel Mobile Satellite systems. High power radars are allocated as primary users of the 5.25 to 5.35 GHz and 5.65 to 5.85 GHz bands. These radar stations can cause interference with and /or damage this product.

25-M-W-3

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

6-M-1

FCC Regulation Notice for modem
This equipment contains a FCC approved modem.

FC Tested To Comply
With FCC Standards
FOR HOME OR OFFICE USE

1. This equipment complies with CFR47 Part 68 rules. On the computer is a label that contains, among other information, the FCC registration number and ringer equivalence number (REN) for this equipment. If required, this information must be provided to the telephone company.
2. An FCC compliant telephone cord and modular plug is provided with this equipment. This equipment is designed to be connected to the telephone network or premises wiring using a compatible modular jack which is Part 68 compliant. See Installation Instructions for details.
3. The REN is used to determine the quantity of devices which may be connected to the telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all area, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company.
4. If your telephone equipment cause harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.
5. The telephone company may take changes in its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.
6. If trouble is experienced with this equipment, for repair or warranty information, please contact Panasonic Corporation of North America at DIAL TOLL FREE 1-800-LAPTOP5 (1-800-527-8675). If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.
7. There are no user serviceable parts contained in this equipment.

Read Me First

8. This equipment may not be used on coin service provided by the telephone company. Connection to party lines is subject to state tariffs.
9. The Telephone Consumer Protection Act of 1991 makes it unlawful for any person to use a computer or other electronic device to send any message via a telephone fax machine unless such message clearly contains in a margin at the top or bottom of each transmitted page or on the first page of the transmission, the date and time it is sent and an identification of the business or other entry, or other individual sending the message and the telephone number of the sending machine or such business, other entity, or individual. In order to program this information into your fax software, you should refer to the manual of the Fax software being used.
10. According to the FCC's electrical safety advisory, we recommend that you may install an AC surge arrester in the AC outlet to which this equipment is connected. Telephone companies report that electrical surges,

typically lightning transients, are very destructive to customer terminal equipment connected to AC power sources and that this is a major nationwide problem.

“Caution : To reduce the risk of fire, use only No.26 AWG or larger (e.g., 24 AWG) UL listed or CSA certified telecommunication line cord”

“ATTENTION : Pour reduire le risque d'incendie, utiliser uniquement des conducteurs de telecommunications 26 AWG ou de section superieure (p.ex. 24 AWG) UL énumérés ou CSA certifié.”

16-M-1

<For USA-California Only>

This product contains a Coin Cell Lithium Battery which contains Perchlorate Material- special handling may apply.

See www.dtsc.ca.gov/hazardouswaste/perchlorate/

38-M-1

Safety Precautions

<Only for model with wireless WAN>

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



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



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



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



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



Road safety comes first! Do not use a Personal Computer or Handheld Computer incorporating Wireless WAN modem while driving a vehicle. Do not place the computer with Wireless WAN modem in an area where it could cause personal injury to the driver or passengers. It is recommended to stow the unit in the boot or secure stowage area while driving. Do not place the computer with Wireless WAN modem in an area over an air bag or in the vicinity where an air bag may deploy. Air bags inflate with great force and if the computer with Wireless WAN modem is placed in the air bag deployment area may be propelled with great force and cause serious injury to occupants of the vehicle.

SOS

IMPORTANT!

Personal Computer or Handheld Computer incorporating Wireless WAN modem operate using radio signals and cellular networks cannot be guaranteed to connect in all conditions. Therefore, you should never rely solely upon any wireless device for essential communications, for example emergency calls.

Remember, in order to make or receive calls, Personal Computer or Handheld Computer incorporating Wireless WAN modem must be switched on and in a coverage area with adequate cellular signal strength.

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

Some networks require that a valid SIM card be properly inserted in Personal Computer or Handheld Computer incorporating Wireless WAN modem.

27-1-2

Models for Canada

<Only for model with modem>

Industry Canada (IC) Notice for modem

This equipment contains an Industry Canada approved modem unit.

The Industry Canada label is affixed on the modem unit.

EQUIPMENT ATTACHEMENT LIMITATIONS

“NOTICE: The Industry Canada label identifies certified equipment. This certification means that the equipment meets telecommunications network protective, operational and safety requirements as prescribed in the appropriate Terminal Equipment Technical Requirements document(s). The Department does not guarantee the equipment will operate to the user’s satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be coordinated by a representative designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas. Caution: Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.”

“NOTICE: The Ringer Equivalence Number (REN) assigned to each terminal device provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed 5.”

REN: See bottom of the computer

RESTRICTIONS CONCERNANT LE RACCORDEMENT DE MATÉRIEL

“AVIS: L’étiquette d’Industrie Canada identifie le matériel homologué. Cette étiquette certifie que le matériel est conforme aux normes de protection, d’exploitation et de sécurité des réseaux de télécommunications, comme le prescrivent les documents concernant les exigences techniques relatives au

matériel terminal. Le Ministère n’assure toutefois pas que le matériel fonctionnera à la satisfaction de l’utilisateur.

Avant d’installer ce matériel, l’utilisateur doit s’assurer qu’il est permis de le raccorder aux installations de l’entreprise locale de télécommunication. Le matériel doit également être installé en suivant une méthode acceptée de raccordement.

L’abonné ne doit pas oublier qu’il est possible que la conformité aux conditions énoncées ci-dessus n’empêche pas la dégradation du service dans certaines situations.

Les réparations de matériel homologué doivent être coordonnées par un représentant désigné par le fournisseur.

L’entreprise de télécommunications peut demander à l’utilisateur de débrancher un appareil à la suite de réparations ou de modifications effectuées par l’utilisateur ou à cause de mauvais fonctionnement.

Pour sa propre protection, l’utilisateur doit s’assurer que tous les fils de mise à la terre de la source d’énergie électrique, des lignes téléphoniques et des canalisations d’eau métalliques, s’il y en a, sont raccordés ensemble. Cette précaution est particulièrement importante dans les régions rurales. Avertissement: L’utilisateur ne doit pas tenter de faire ces raccordements lui-même; il doit avoir recours à un service d’inspection des installations électriques, ou à un électricien, selon le cas.”

“AVIS: L’indice d’équivalence de la sonnerie (IES) assigné à chaque dispositif terminal indique le nombre maximal de terminaux qui peuvent être raccordés à une interface. La terminaison d’une interface téléphonique peut consister en une combinaison de quelques dispositifs, à la seule condition que la somme d’indices d’équivalence de la sonnerie de tous les dispositifs n’excède pas 5.”

IES: Voir sous le fond de l’ordinateur

17-Ca-1

Canadian ICES-003

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

7-M-2

<Only for model with wireless LAN/Bluetooth>

Industry Canada

This product complies with RSS-210 Industry Canada.

Operation is subject to the following two conditions;

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

Read Me First

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

Industrie Canada

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

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

30-Ca-1-1

<Only for model with wireless LAN>

This product (local network devices) for the band 5150-5250 MHz is only indoor usage to reduce potential for harmful interference to co-channel Mobile Satellite systems.

High power radars are allocated as primary users (meaning they have priority) of 5250-5350 MHz and 5650-5850 MHz and these radars could cause interference and/or damage to LELAN devices.

<Ne s'applique qu'aux modèles avec technologie LAN sans fil>
Cet appareil (pour réseaux locaux radioélectriques) dans les bandes de fréquences 5150-5250 MHz est réservé à une utilisation à l'intérieur afin de réduire le risque d'interférence avec les systèmes satellites mobiles bicanaux. Les radars forte puissance sont désignés comme étant les premiers utilisateurs (c'est-à-dire qu'ils ont la priorité)

des bandes de fréquences 5250-5350 MHz et 5650-5850 MHz. Ces stations radars peuvent provoquer des interférences et/ou des dommages à ce périphérique.

30-Ca-2-1

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

- This equipment complies with Industry Canada radiation exposure limits set forth for an uncontrolled environment.
- This equipment has been approved for mobile operation, and unless otherwise advised separate supplemental instructions for individual wireless transmitter(s), requires minimum 20 cm spacing be provided between antenna(s) and all person's body (excluding extremities of hands, wrist and feet) during wireless modes of operation.

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

- Cet équipement est conforme aux limites d'exposition aux rayonnements d'Industrie Canada établies pour un environnement non contrôlé.
- Cet équipement a été approuvé à des fins d'opération mobile et, sauf indication contraire, dans une notice supplémentaire concernant les émetteurs sans fil individuels, doit être utilisé en veillant qu'il y ait une distance d'au moins 20 cm entre son(s) antenne(s) et le corps de l'utilisateur (sauf les extrémités : mains, poignets et pieds) dans les modes d'opération sans fil.

Models for Europe

<Only for model with a "CE" mark on the bottom of the computer>



Declaration of Conformity (DoC)

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

Hint:

If you want to get a copy of the original DoC of our above mentioned products, please contact our web address: <http://www.doc.panasonic.de>

Authorised Representative:

Panasonic Testing Centre
Panasonic Marketing Europe GmbH
Winsbergring 15, 22525 Hamburg, Germany

Network connection of Wired Modem.

The terminal equipment is intended for connection to the following public network;

In all the countries of European Economical Area and Turkey;

- Public Switched Telephony Networks

Technical Features of Wired Modem.

The terminal equipment includes the following features;

- DTMF dialing
- Maximum bitrate receiving mode: 56 kbit/s
- Maximum bitrate sending mode: 33.6 kbit/s

18-E-1

Important Safety Instructions / Importantes Mesures De Sécurité

<Only for model with modem>

When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the following:

1. Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.
2. Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk

of electric shock from lightning.

3. Do not use the telephone to report a gas leak in the vicinity of the leak.
4. Use only the power cord and batteries indicated in this manual. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.

SAVE THESE INSTRUCTIONS

19-E-1

<Pour modèles avec modem uniquement>

Certaines mesures de sécurité doivent être prises pendant l'utilisation de matériel téléphonique afin de réduire les risques d'incendie, de choc électrique et de blessures. En voici quelquesunes:

1. Ne pas utiliser l'appareil près de l'eau, p.ex., près d'une baignoire, d'un lavabo, d'un évier de cuisine, d'un bac à laver, dans un sous-sol humide ou près d'une piscine.
2. Éviter d'utiliser le téléphone (sauf s'il s'agit d'un appareil sans fil) pendant un orage électrique. Ceci peut présenter un risque de choc électrique causé par la foudre.

3. Ne pas utiliser l'appareil téléphonique pour signaler une fuite de gaz s'il est situé près de la fuite.
4. Utiliser seulement le cordon d'alimentation et le type de piles indiqués dans ce manuel. Ne pas jeter les piles dans le feu: elles peuvent exploser. Se conformer aux règlements pertinents quant à l'élimination des piles.

CONSERVER CES INSTRUCTIONS

19-F-1

Information to the User / Informations destinées aux utilisateurs

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

This product and your Health

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

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

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

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

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

Regulatory Information

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

26-M-1

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

Ce produit et votre santé

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

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

Si vous n'êtes pas sûr de la réglementation applicable à l'utilisation d'appareils sans fil dans une organisation ou un environnement spécifique, (par exemple dans un aéroport) nous vous invitons à demander l'autorisation d'utiliser ce produit avant sa mise en marche.

Informations concernant la réglementation

Nous déclinons toute responsabilité pour toute interférence radio ou télévision causée par des modifications non autorisées apportées à ce produit. La correction d'interférences causées par de telles modifications non autorisées sera la seule responsabilité de son utilisateur. Nousmêmes, les revendeurs officiels et les distributeurs ne sommes pas responsables de tout dégât ou de toute violation des règlements de l'État pouvant découler du non-respect de ces directives.

26-F-1

Lithium Battery / Pile au lithium

Lithium Battery!

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

Warning!

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

15-E-1

Pile au lithium!

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

Danger !

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

15-F-1

Read Me First

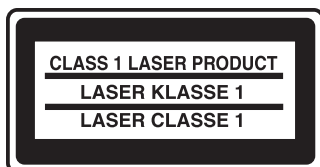
CD/DVD Drive Caution

CAUTION!

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

12-E-1

The following label is put on the bottom of the computer.



AVERTISSEMENT!

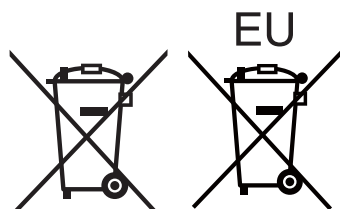
CET APPAREIL UTILISE UN LASER. L'UTILISATION DE COMMANDES OU DE RÉGLAGES OU L'EXÉCUTION DE PROCÉDURES AUTRES QUE CELLES SPÉCIFIÉES ICI PEUVENT PROVOQUER UNE EXPOSITION À DES RADIATIONS DANGEREUSES. NE PAS OUVRIR LES COUVERCLES NI ESSAYER DE RÉPARER SOIMÊME.

CONFIER TOUT TRAVAIL D'ENTRETIEN À UN PERSONNEL QUALIFIÉ.

12-F-1

L'étiquette suivante se trouve en-dessous de l'ordinateur.

Information on Disposal in other Countries outside the European Union



These symbols are only valid in the European Union.

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

53-M-1

Precautions

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

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

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

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

If a Malfunction or Trouble Occurs, Immediately Stop Use

If a Malfunction Occurs, Immediately Unplug the AC Plug and the Battery Pack

- This product is damaged
- Foreign object inside this product
- Smoke emitted
- Unusual smell emitted
- Unusually hot

Continuing to use this product while any of the above conditions are present may result in fire or electric shock.

- If a malfunction or trouble occurs, immediately turn the power off and unplug the AC plug, and then remove the battery pack. Then contact your technical support office for repair.

Do Not Touch This Product and Cable When It Starts Thundering

Electric shock may result.

Do Not Connect the AC Adaptor to a Power Source Other Than a Standard Household AC Outlet

Otherwise, a fire due to overheating may result. Connecting to a DC/AC converter (inverter) may damage the AC adaptor. On an airplane, only connect the AC adaptor/charger to an AC outlet specifically approved for such use.

Do Not Do Anything That May Damage the AC Cord, the AC Plug, or the AC Adaptor

Do not damage or modify the cord, place it near hot tools, bend, twist, or pull it forcefully, place heavy objects on it, or bundle it tightly.

Continuing to use a damaged cord may result in fire, short circuit, or electric shock.

Do Not Pull or Insert the AC Plug If Your Hands Are Wet
Electric shock may result.

Clean Dust and Other Debris of the AC Plug Regularly
If dust or other debris accumulates on the plug, humidity, etc. may cause a defect in the insulation, which may result in a fire.

- Pull the plug, and wipe it with a dry cloth.
Pull the plug if the computer is not being used for a long period of time.

Insert the AC Plug Completely

If the plug is not inserted completely, fire due to overheating or electric shock may result.

- Do not use a damaged plug or loose AC outlet.

Do Not Place Containers of Liquid or Metal Objects on Top of This Product

If water or other liquid spills, or if paper clips, coins, or foreign matter get inside this product, fire or electric shock may result.

- If water spills in the keyboard, refer to page 19. If other foreign matter has found its way inside, immediately turn the power off and unplug the AC plug and remove the battery pack. Then contact your technical support office.

Do Not Disassemble This Product

The high-voltage areas inside may give you an electric shock, or foreign matter may enter and result in a fire.

Keep SD Memory Cards Away from Infants and Small Children

Accidental swallowing will result in bodily injury.

- In the event of accidental swallowing, see a doctor immediately.

Do Not Place This Product on Unstable Surfaces

If balance is lost, this product may fall over or drop, resulting in an injury.

Avoid Stacking

If balance is lost, this product may fall over or drop, resulting in an injury.

Do Not Keep This Product Wherever There is a Lot of Water, Moisture, Steam, Dust, Oily Vapors, etc.

Otherwise, possibly resulting in fire or electric shock.

Do Not Leave This Product in High Temperature Environment for a Long Period of Time

Leaving this product where it will be exposed to extremely high temperatures such as near fire or in direct sunlight may deform the cabinet and/or cause trouble in the internal parts. Continued use in such a resulting condition may lead to short-circuiting or insulation defects, etc. which may in turn lead to a fire or electric shocks.

Do Not Block the Ventilation Hole

Otherwise, heat will build up inside, possibly resulting in a fire.

Hold the Plug When Unplugging the AC Plug

Pulling on the cord may damage the cord, resulting in a fire or electric shock.

Do Not Move This Product While the AC Plug Is Connected

The AC cord may be damaged, resulting in fire or electric shock.

- If the AC cord is damaged, unplug the AC plug immediately.

Use Only the Specified AC Adaptor With This Product

Using an AC adaptor other than the one supplied (supplied with the unit or one sold separately as an accessory) may result in a fire.

Do Not Subject the AC Adaptor to Any Strong Impact
Using the AC adaptor after a strong impact such as being dropped may result in electric shock, short circuit, or fire.

Take a Break of 10-15 Minutes Every Hour

Using this product for long periods of time may have detrimental health effects on the eyes or hands.

Do Not Look into the CD/DVD Drive

Looking directly at the internal laser light source may result in damage to eyesight.

Do Not Use Discs That Are Cracked or Deformed

Because the discs rotate at high speeds, damaged discs may break apart causing injury.

- Discs that are not round and discs that have been repaired using adhesives are similarly dangerous, and so should not be used.

Do Not Turn the Volume Up to Loud When Using Headphones

Listening at high volumes that overstimulate the ear for long periods of time may result in loss of hearing.

<Only for model with modem>**Use the Modem with a Regular Telephone Line**

Connection to an internal phone line (on-premise switches) of a company or business office, etc. or to a digital public phone or use in a country or area not supported by the computer may result in a fire or electric shocks.

Do Not Connect a Telephone Line, or a Network Cable Other Than the One Specified, into the LAN Port

If the LAN port is connected to a network such as the ones listed below, a fire or electric shock may result.

- Networks other than 1000BASE-T, 100BASE-TX or 10BASE-T
- Phone lines (IP phone (Internet Protocol Telephone), Telephone lines, internal phone lines (on-premise switches), digital public phones, etc.)

Do Not Use with Exposing the Skin to This Product for a Long Period of Time

Using this product with exposing the skin to the heat source of this product or AC adaptor for a long period of time can cause a low-temperature burn.

- Do not place the computer near a television or radio receiver.
- Keep the computer away from magnets. Data stored on the hard disk may be lost.
- This computer is not intended for the display of images for use in medical diagnosis.
- This computer is not intended for a use with connection of medical equipment for the purpose of medical diagnosis.
- Panasonic shall not be liable for loss of data or other incidental or consequential damages resulting from the use of this product.

Precautions (Battery Pack)

Do Not Use with Any Other Product

The battery pack is rechargeable and was intended for the specified product. If it is used with a product other than the one for which it was designed, electrolyte leakage, generation of heat, ignition or rupture may result.

Do Not Charge the Battery Using Methods Other Than Those Specified

If the battery is not charged using one of the specified methods, electrolyte leakage, generation of heat, ignition or rupture may result.

Do Not Throw the Battery Pack into a Fire or Expose It to Excessive Heat

Generation of heat, ignition or rupture may result.

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

Electrolyte leakage, generation of heat, ignition or rupture may result.

Do Not Insert Sharp Objects into the Battery Pack, Expose It to Bumps or Shocks, Disassemble, or Modify It
Electrolyte leakage, generation of heat, ignition or rupture may result.

- If this product is subjected to a strong impact, stop using it immediately.

Do Not Short the Positive (+) and Negative (-) Contacts

Generation of heat, ignition or rupture may result.

- Do not place the battery pack together with articles such as necklaces or hairpins when carrying or storing.

Do Not Use This Product with a Battery Pack Other Than the One Specified

Use only the specified battery pack (CF-VZSU61U) with your product. Use of battery packs other than those manufactured and supplied by Panasonic may present a safety hazard (generation of heat, ignition or rupture).

When the Battery Pack Has Deteriorated, Replace It with a New One

Continued use of a damaged battery pack may result in heat generation, ignition or battery rupture.

- Do not touch the terminals on the battery pack. The battery pack may no longer function properly if the contacts are dirty or damaged.
- Do not expose the battery pack to water, or allow it to become wet.
- If the battery pack will not be used for a long period of time (a month or more), charge or discharge (use) the battery pack until the remaining battery level becomes 30% to 40% and store it in a cool, dry place.
- This computer prevents overcharging of the battery by recharging only when the remaining power is less than approx. 95% (when Economy Mode (ECO) is enabled: 75%) of capacity.
- The battery pack is not charged when the computer is first purchased. Be sure to charge it before using it for the first time. When the AC adaptor is connected to the computer, charging begins automatically.


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

CAUTION:

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

58-E-1

NOTE

- The battery pack may become warm during recharging or normal use. This is completely normal.
- Recharging will not commence if internal temperature of the battery pack is outside of the allowable temperature range (0 °C to 55 °C {32 °F to 131 °F}). (→  *Reference Manual* "Battery Power")
Once the allowable range requirement is satisfied, charging begins automatically. Note that the recharging time varies based on the usage conditions. (Recharging takes longer than usual when the temperature is 10 °C {50 °F} or below.)
- In high-temperature environments, the battery takes longer to fully recharge. In low-temperature environments, the battery takes longer to fully recharge and the operating time is shorter. Only use the computer within the allowable temperature range.
- The battery pack is a consumable item. If the amount of time the computer can be run by using a particular battery pack becomes dramatically shorter and repeated recharging does not restore its performance, the battery pack should be replaced with a new one.
- When transporting a spare battery inside a package, briefcase, etc., it is recommended that it be placed in a plastic bag so that its contacts are protected.
- Always power off the computer when it is not in use. Leaving the computer on when the AC adaptor is not connected will exhaust the remaining battery capacity.

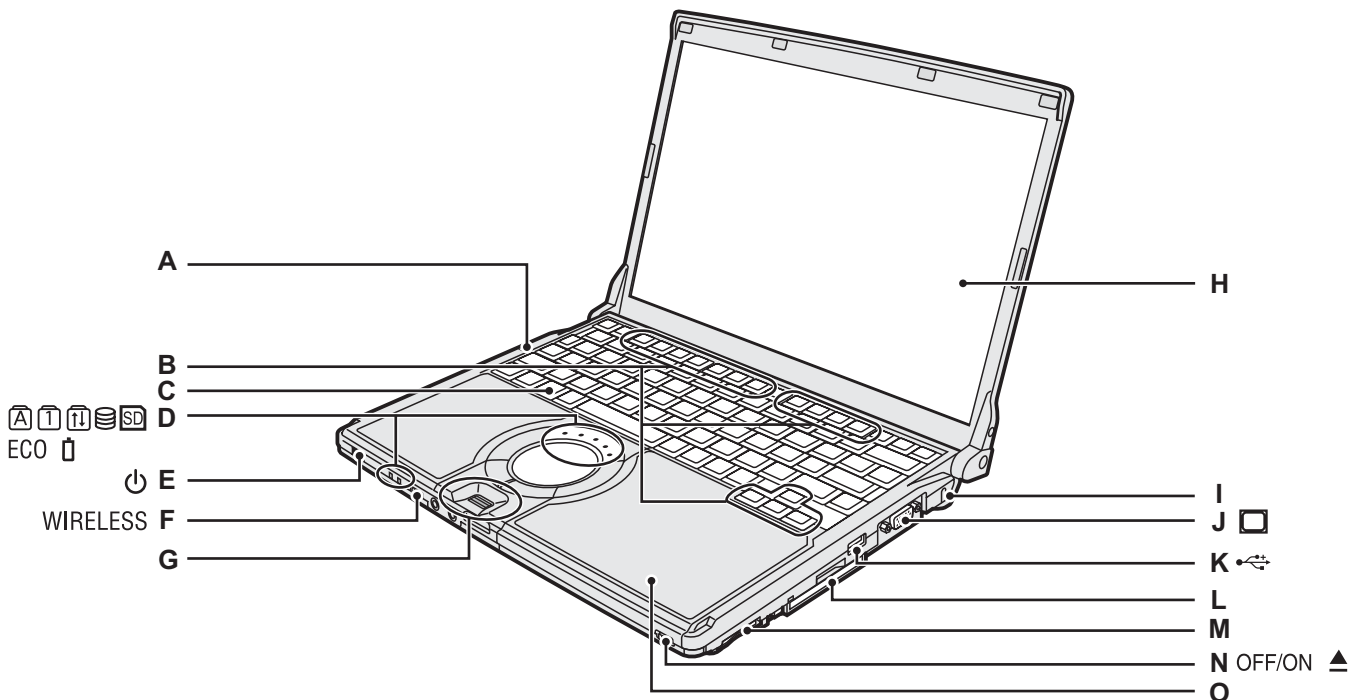


A lithium ion battery that is recyclable powers the product you have purchased. Please call 1-800-8-BATTERY for information on how to recycle this battery.

L'appareil que vous vous êtes procuré est alimenté par une batterie au lithium-ion. Pour des renseignements sur le recyclage de la batterie, veuillez composer le 1-800-8-BATTERY.

48-M-1

Description of Parts



A : Speakers

B : Function Key

→ Reference Manual "Key Combinations"

C : Keyboard

D : LED Indicator

: Caps lock

: Numeric key (NumLk)

: Scroll lock (ScrLk)

: Hard disk and CD/DVD drive status

: SD/SDHC/SDXC Memory Card status

ECO : Economy Mode (ECO) status

→ Reference Manual "Battery Power"

: Battery status

→ Reference Manual "Battery Power"

E : Power Switch

→ page 14

Power Indicator

• Off: Power off/Hibernation

• Green: Power on

• Blinking green: Sleep/Standby

F : Wireless Switch

Switch the wireless devices to on (right side) or to off (left side).

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

→ Reference Manual "Disabling/Enabling Wireless Communication"

G : Fingerprint Reader

<Only for model with Fingerprint Reader>

→ Reference Manual "Fingerprint Reader"

H : LCD

I : Security Lock

You can connect a Kensington cable. Refer to the instruction manual of the cable. The security lock and cable is a theft prevention device. Panasonic Corporation will bear no responsibility in the event of theft.

J : External Display Port

Connect the cable of external display.

K : USB Ports

→ Reference Manual "USB Devices"

L : PC Card Slot

→ Reference Manual "PC Card"

M : SD Memory Card Slot

→ Reference Manual "SD/SDHC Memory Card"*1

N : CD/DVD Drive Power/Open Switch

• Slide the switch to the right to open the disc cover.

• Slide the switch to the left to turn on/off the drive power.

CD/DVD Drive Indicator

• Off: Drive power is off or the disc cover is opened.

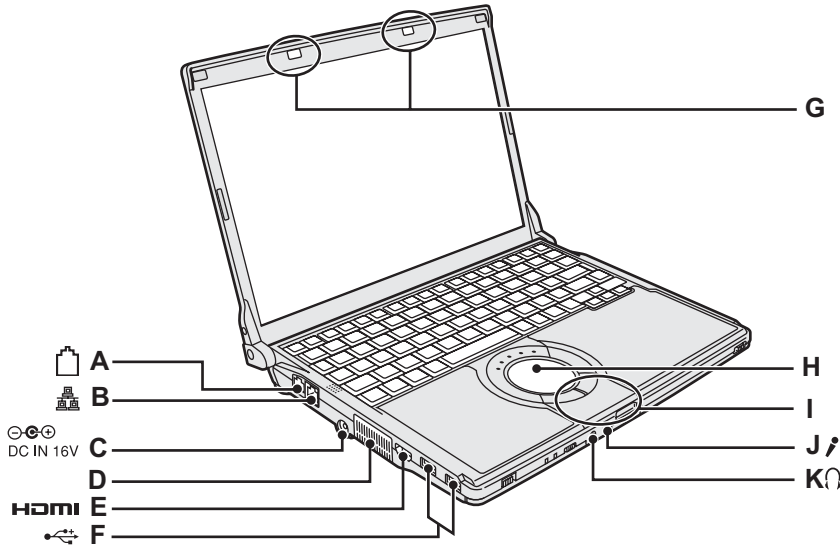
• Green: Drive power is on.

O : CD/DVD Drive

→ Reference Manual "CD/DVD Drive"

*1 SD/SDHC/SDXC Memory Cards are supported.

Description of Parts



A : Modem Port

<Only for model with modem>

→ Reference Manual "Modem"

B : LAN Port

→ Reference Manual "LAN"

C : DC-IN Jack

D : Ventilation Hole (Exhaust)

E : HDMI Port

→ Reference Manual "External Display"

F : USB Ports

→ Reference Manual "USB Devices"

G : Wireless LAN Antenna

<Only for model with wireless LAN>

→ Reference Manual "Wireless LAN"

H : Touch Pad

→ Reference Manual "Using the Touch Pad"

I : Bluetooth Antenna

<Only for model with Bluetooth>

→ Reference Manual "Bluetooth"

J : Microphone Jack

• When recording in stereo using a stereo microphone:

Click (Start) - [Control Panel] - [Hardware and Sound] - [Sound] - [Recording] - [Microphone] - [Properties], and then remove a check mark of [Enable audio enhancements] in [Advanced].

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

Click (Start) - [Control Panel] - [Hardware and Sound] - [Sound] - [Recording] - [Microphone] - [Properties], and then add a check mark for [Enable audio enhancements] in [Advanced].

K : Headphone Jack

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

L : Battery Pack

→ page 13

M : RAM Module Slot

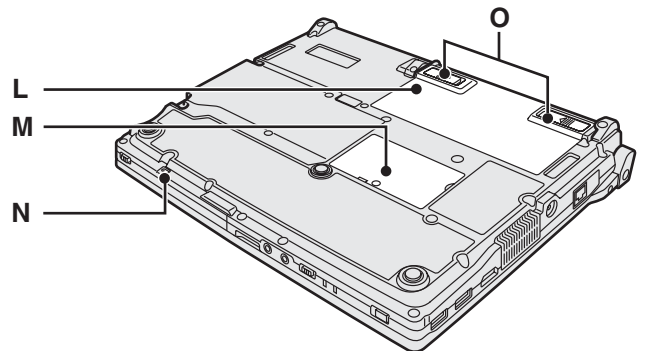
→ Reference Manual "Expanding Memory"

N : Emergency Hole

→ Reference Manual "CD/DVD Drive"

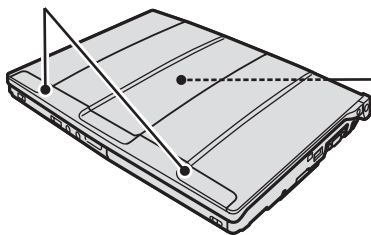
O : Battery Latches

→ page 13

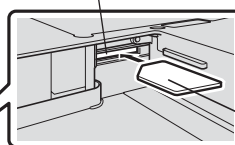


<Only for model with wireless WAN>

Wireless WAN Antenna

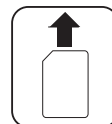


SIM Card Slot



SIM card slot is located in the battery compartment on the bottom of the computer. Remove the battery pack to insert the SIM card.

SIM Card



Insert the SIM card into the SIM Card Slot with the contact side facing upward and with the cut corner oriented as shown in the illustration.

Do not insert the SIM card upside down.

Bottom

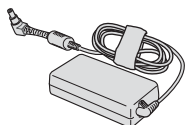
First-time Operation

■ Preparation

① Check and identify the supplied accessories.

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

• AC Adaptor 1

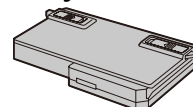


Model No: CF-AA6373A

• AC Cord 1



• Battery Pack 1



Model No: CF-VZSU61U

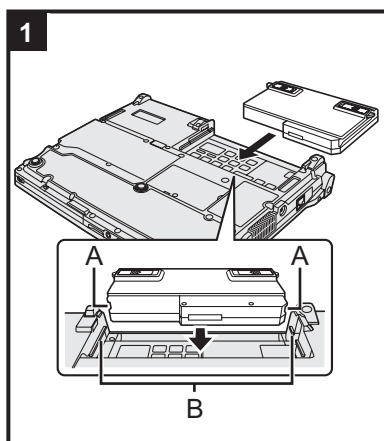
• Operating Instructions (This book) 1

• Product Recovery DVD-ROM Windows® 7 Professional (32-bit)*1 1

• Product Recovery DVD-ROM Windows® 7 Professional (64-bit)*1 1

*1 "This disc contains 32-bit software" or similar is printed on the label.

② Read the LIMITED USE LICENSE AGREEMENT before breaking the seal on the computer's packaging (→ page 25).

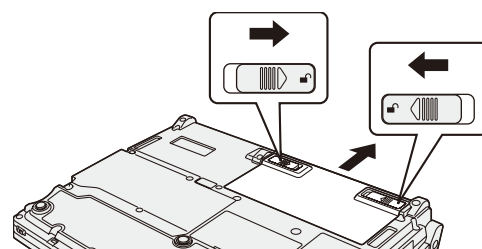


1 Insert the battery pack.

Slide the battery pack in parallel with the arrow direction and attach it so that the left and right dents (A) on the new battery pack match the projections (B) of the computer.

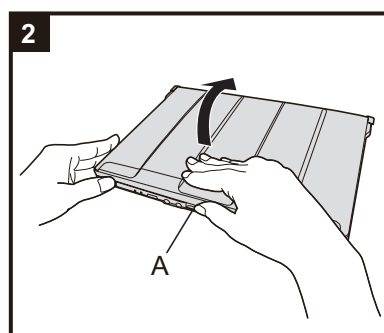
In case that the dents does not match the projections of the computer, detach the battery pack once, then slide it while pushing it lightly to avoid floating.

- To remove
Slide both the left and right latches to the unlocked position, and push out the battery pack in parallel with the computer.



CAUTION

- Make sure the battery latches are 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.



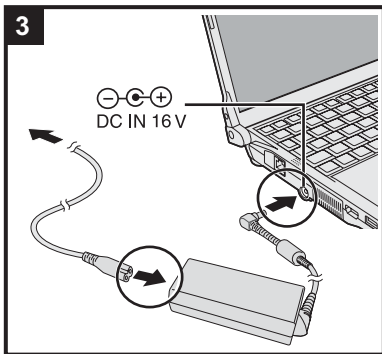
2 Open the display.

Hold the side of the computer with either of your hands and then hold and lift the (A) part to open the display.

CAUTION

- Do not open the display wider than necessary (140° or more), and do not apply excessive pressure to the LCD. Do not open or close the computer holding the edge of the LCD segment.

First-time Operation

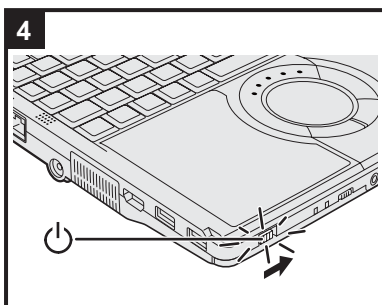


3 Connect your computer to a power outlet.



The battery charging starts automatically.

CAUTION


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



4 Turn on the computer.


Slide and hold the power switch  for approximately one second until the power indicator  lights.

CAUTION

- Do not slide the power switch repeatedly.
- The computer will forcibly be turned off if you slide 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 hard disk CD/DVD drive indicator  turns off.
 - Connecting or disconnecting the AC adaptor
 - Sliding the power switch or CD/DVD drive power/open switch
 - Touching the keyboard or touch pad
 - Closing the display
- Do not change the Setup Utility until completing step 5. If you do so, Windows setup may not operate properly.

5 Setup Windows.

Follow the on-screen instructions.

- The computer restarts several times. Do not touch the keyboard or touch pad, and wait until the hard disk CD/DVD drive indicator  has turned off.
- After the computer is turned on, the screen remains black or unchanged for a while, but this is not a malfunction. Wait for a moment until the Windows setup screen appears.
- During setup of Windows, use the touch pad and clicking to move the cursor and to click an item.
- Setup of Windows will take approximately 20 minutes.
Go to the next step, confirming each message on the display.
- "Join a wireless network" screen may not appear.
You can set the Wireless Network after the setup of Windows is complete.

CAUTION

- Do not turn off the computer until completing the first-time operation procedure.
- Do not use the following words for user name: CON, PRN, AUX, CLOCK\$, NUL, COM1 to COM9, LPT1 to LPT9, @. 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 23).
- You can change the user name, password, image and security setting after setup of Windows.
- Remember your password. If you forget the password, you cannot use the Windows. Creating a password reset disk beforehand is recommended.

6 Change the internal CD/DVD drive letter if necessary.

→  Reference Manual "CD/DVD Drive"


NOTE

- **PC Information Viewer**

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

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

To disable the function, add the check mark for [Disable the automatic save function for management information history] in [Hard Disk Status] of PC Information Viewer, and click [OK]. When you disable the function, information on how to use the hard disk of PC Information Popup is not displayed.

(→  Reference Manual “Check the Computer’s Usage Status” and “PC Information Popup”)

- **If you hear the sounds from CD/DVD drive**


In the following situations, the sounds from the CD/DVD drive can be heard.

- Immediately after the CD/DVD drive is turned on
- Just after turning on the computer with [Optical Drive Power] set to [On] in the Setup Utility
- When a CD or DVD is playing

The sounds you hear are normal operating sounds created by the motor in the CD/DVD drive operating; it is not a malfunction.

- **To conserve power, the following power saving methods are set at the time of purchase. (When AC adaptor is connected)**

- The screen automatically turns off after 15 minutes of inactivity.
- The computer automatically enters sleep^{*1} after 20 minutes of inactivity.

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

- **Even when the AC adaptor is not connected to the computer, power is consumed (Max. 0.3 W) simply by having the AC adaptor plugged into an AC outlet. (When using with 115 V AC)**

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

- In sleep: Approx. 7 days (If “Wake Up from wired LAN” is enabled: 4.5 days)^{*2}
- In hibernation: Approx. 40 days (If “Wake Up from wired LAN” is enabled: 9 days)^{*2}
- When power is off: Approx. 40 days (If “Power On by wired LAN” is enabled: 9 days)

^{*2} Even if “Wake Up from wired LAN” is enabled, the battery will discharge at a slightly slower rate if the LAN cable is not connected.


- **When the CD/DVD drive power is turned off, the message “The ‘MATSHITA DVDXXXXXXXXX’ device can now be safely removed from ...” will appear, but the CD/DVD drive is an internal device, so it cannot be removed.**

- **When Starting Up/Shutting Down**

- Do not do the following
 - Connecting or disconnecting the AC adaptor
 - Sliding the power switch or CD/DVD drive power/open switch
 - Touching the keyboard, touch pad or external mouse
 - Closing the display

- **To change the partition structure**

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

- ① Click  (Start) and right-click [Computer], then click [Manage].
 - A standard user needs to enter an administrator password.
- ② Click [Disk Management].
- ③ Right-click the partition for Windows (“c” drive in the default setting), and click [Shrink Volume].
 - The partition size depends on the computer specifications.
 - To select [Reinstall to the first 2 partitions.] in reinstalling Windows 7 (→ page 20), 30000 MB or more is necessary for [Total size after shrink in MB].
- ④ Input the size in [Enter the amount of space to shrink in MB] and click [Shrink].
 - You cannot input a larger number than the displayed size.
- ⑤ Right-click [Unallocated] (the shrunk space in the step ④) and click [New Simple Volume].
- ⑥ Follow the on-screen instructions to make the settings, and click [Finish].
Wait until formatting is completed.

NOTE

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

On-screen Manual


You can access the following manuals on the computer screen after completing the “First-time Operation”. When you access the on-screen manual for the first time, the License Agreement of the Adobe Reader may be displayed. Read it carefully and select [Accept] to proceed.

■ Reference Manual

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

To access the Reference Manual:

Double-click  on the desktop.


Alternatively click  (Start) - [All Programs] - [Panasonic] - [On-Line Manuals] - [Reference Manual].

■ Important Tips

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

To access the Important Tips:


Double-click  on the desktop.

- Alternatively click  (Start) - [All Programs] - [Panasonic] - [On-Line Manuals] - [Important Tips].

■ Hard Disk Handling

The Hard Disk Handling will provide you with the helpful information on how to use the hard disk.

To access the Hard Disk Handling:

Click  (Start) - [All Programs] - [Panasonic] - [On-Line Manuals] - [Hard Disk Handling].

NOTE

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

Handling and Maintenance

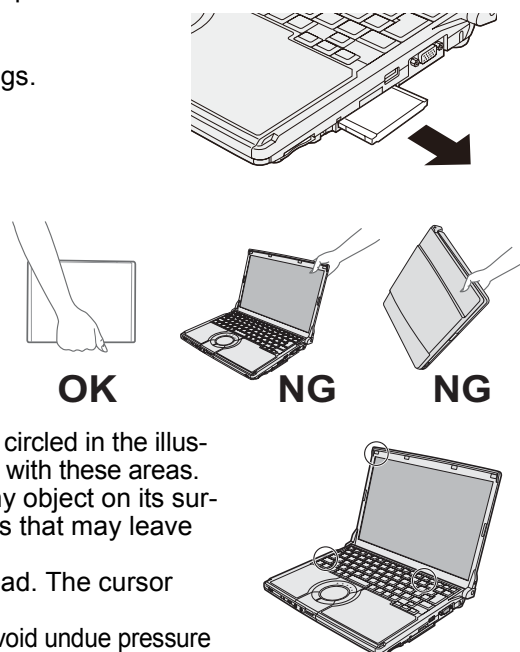
Operation Environment

- Place the computer on a flat stable surface. Do not place the computer upright. If the computer is exposed to an extremely strong impact, it may become inoperable.
 - Temperature: Operation: 5 °C to 35 °C {41 °F to 95 °F}
Storage: -20 °C to 60 °C {-4 °F to 140 °F}
 - Humidity: Operation: 30% to 80% RH (No condensation)
Storage: 30% to 90% RH (No condensation)
- Even within the above temperature/humidity ranges, using for a long time in an extreme environment will result in the product deterioration and will shorten the product life.
- Be sure to use the computer in an environment with sufficient heat ventilation.
 - Avoid using the computer on a highly heat retentive surfaces (e.g., rubber pads and blankets). If possible, use the computer on surfaces that can dissipate heat, such as a steel desk.
 - Do not cover the computer with towels, keyboard covers, etc., as this prevents heat dissipation.
 - When using the computer, always keep the display open. (Note, however, that closing the display while the computer is in use does not cause generation of heat, ignition, or other malfunctions.)
 - Do not place the computer in the following areas, otherwise the computer may be damaged.
 - Near electronic equipment. Image distortion or noise may occur.
 - Near magnets or in magnetic fields.
 - 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 hard disk drive, but no warranty is provided against any trouble caused by shock. Be extremely careful when handling the computer.

- When carrying the computer:
 - Turn off the computer.
 - Remove all external devices, cables, cards and other protruding things.
 - Remove a disc in the CD/DVD drive.
 - Do not drop or hit the computer against solid objects.
 - Do not leave the display open.
 - Do not pick up or hold the computer by the display part.
 - Do not put anything (e.g., a piece of paper) between the display and keyboard.
- When flying on an airplane:
 - Carry the computer with you, and never put it in checked baggage.
 - Obey the airline's instructions when using the computer on the airplane.
- When carrying a spare battery, put it in a plastic bag to protect its terminals.
- This computer contains a magnet and magnetic products at the locations circled in the illustration at right. Avoid leaving metallic object or magnetic media in contact with these areas.
- The touch pad is designed to be used with a finger tip. Do not place any object on its surface and do not press down strongly with sharp-pointed or hard objects that may leave marks (e.g., nails, pencils and ball point pens).
- Avoid any harmful substances such as oil from getting into the touch pad. The cursor may not work correctly.
- If the computer is being carried in a soft bag with the battery pack removed, avoid undue pressure on the body of the computer in a crowded place, etc., as this may result in damage to the LCD.



■ When the battery indicator does not light on






The AC adaptor's protection function may be working when the battery indicator does not light on even if the AC adaptor and the battery pack are correctly connected with the computer.

- Pull out the AC cord and wait for more than 1 minute to reconnect the AC cord.
- If the problem persists, contact your technical support office.

■ If the computer becomes warm during usage

- Check the following
 - If you are not using a wireless LAN, turn the wireless LAN off.
 - Use recommended RAM module products. Non-recommended RAM modules may not operate properly, and may cause damage to your computer.

Handling and Maintenance

- Click  on the notification area and click . Then select [Panasonic Power management (Better Heat Dispersion)]
 - When changing to [Panasonic Power management (Better Heat Dispersion)], the following settings will change.
 - Change to [High Speed] from [Standard] in [Fan control mode].
Rotation of the cooling fan will become faster and the computer can be cooled down. Note that the battery operating time will be shorter.
 - Switch the screen saver to [Prohibited].
 - Other setting changes such as the lowering of the internal LCD brightness and disabling of Windows Aero will take place.
 - When you do not frequently use CPU or the rotation noise of the fan bothers you, set [Standard] or [Low Speed] in [Fan control mode].
 - ① Click  on the notification area and click .
 - ② Select [Standard] or [Low Speed] in [Fan control mode].
-  *Reference Manual* “Customizing the Power Setting”

■ 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/wireless WAN/Bluetooth

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

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

Maintenance

To clean the LCD panel and touch pad

Wipe lightly with a gauze or other dry, soft cloth.

To clean areas other than the LCD panel and touch pad

Wet a soft cloth with water or a diluted kitchen cleanser (neutral), wring the cloth out thoroughly, and wipe the dirty area gently. Using a detergent other than a neutral kitchen cleanser (e.g., a weak alkali cleanser) may adversely affect painted surfaces.

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.

When Using the Computer with a Reduced Screen Resolution

When setting the screen resolution to a resolution below the LCD's resolution, the images appearing on the screen will be stretched. As a result, the characters displayed may appear blurred. This is normal, and not indicative of a malfunction.

To display large characters with no blurring

Try the following steps while keeping the LCD in its resolution.

- Click  (Start) - [Control Panel] - [Appearance and Personalization] - [Display], select except for [Smaller - 100%] and then click [Apply].
(This function will be enabled after log off the computer.)
- To display enlarged font sizes in applications such as Internet Explorer:
Use the display enlargement function provided by the specific software application.
- To display enlarged desktop icons, title bar and cursor or magnify the specific part of the screen:
Use “Icon Enlarger” or “Loupe Utility”.

If You Spill Water on the Keyboard

Note that repairs resulting from liquids being spilled on the computer are not free of charge, and not covered by warranty.

The keyboard on this computer incorporate a drain system (a moisture protection mechanism) that minimizes the amount of liquid reaching the inside of the computer even if water is spilled on the keyboard. Any water that comes in contact with the keyboard is drained off through holes in the bottom of the computer, so that virtually no water is left inside the computer. However, this is not a guarantee against damage to the hard disk or other internal parts, or against the loss or deletion of data.

The drain system is incorporated into only the keyboard. It does not apply to any other components.

- If you spill water or any other liquid on the keyboard, even a small amount, be sure to perform the following steps. Failure to perform these steps may result in damage to the computer. The drain system will not provide complete protection against water entering the computer.

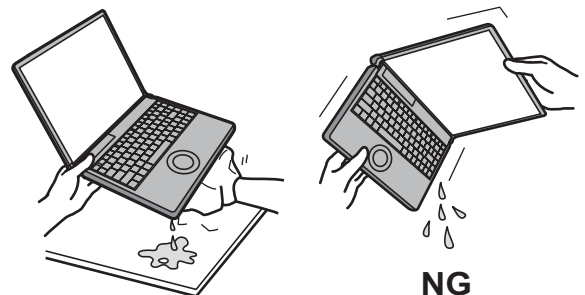
1 Immediately turn off the computer, and remove the AC adaptor.

2 Wipe any water droplets off of the top of the keyboard using a soft, dry cloth.



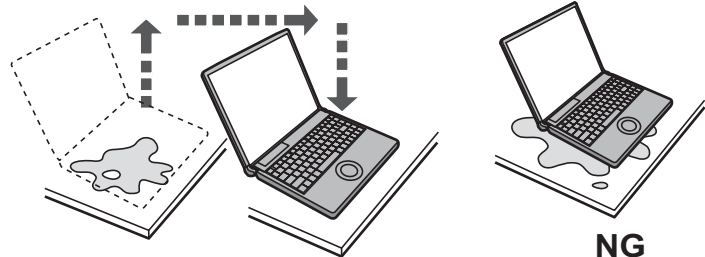
3 Slowly lift up the computer, keeping it level, and wipe any water coming out of the holes on the bottom using a soft, dry cloth.

If the computer is tilted during this step, liquid may seep inside the computer resulting in damage.



4 Keeping the computer level, move the computer to a dry place.

If the computer is placed back on the wet surface, water may seep inside the computer from the bottom.



5 Insert the tip of a ball-point pen or other object into the emergency hole on the bottom of the computer, and move it in the direction of the arrow to open the disc cover.

The computer should be kept level, without tilting, while the disc cover is being opened. Move the computer to the edge of the desk or table to perform this operation.



6 Check to see whether there is any water inside the CD/DVD drive.

If there is water inside, wipe it using a soft, dry cloth.

7 Remove the battery pack.

8 Be sure to contact your technical support office to have the computer checked for any malfunctions.

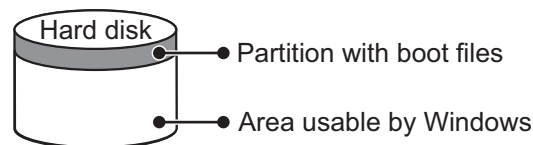
Reinstalling Software

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

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

CAUTION

Do not delete the partition with boot files on the hard disk.
The disk space in the partition is not available to store data.



Preparation

- Prepare the Product Recovery DVD-ROM (included).
- Remove all peripherals.
- Connect the AC adaptor and do not remove it until installation is complete.

NOTE

- Even if reinstallation is performed, the number of times of DVD's region code setting will not be reset.

1 Turn on the computer, and press **F2** or **Del** while [Panasonic] boot screen is displayed.

The Setup Utility starts up.

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

2 Write down all of the contents of the Setup Utility and press **F9**.

At the confirmation message, select [Yes] and press **Enter**.

3 Select the [Main] menu, then select [Optical Drive Power] and press **Enter**.

4 Select [On] and press **Enter**.

5 Press **F10**.

At the confirmation message, select [Yes] and press **Enter**.

The computer will restart.

6 Press **F2** or **Del** while [Panasonic] boot screen is displayed.

The Setup Utility starts up.

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

7 Set the Product Recovery DVD-ROM for Windows which you install into the CD/DVD drive.

8 Select the [Exit] menu, then select [MATSHITA XXXXX] in [Boot Override].

9 Press **Enter**.

The computer will restart.

10 Click [Reinstall Windows] and click [Next].

The License Agreement screen appears.

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

12 Select the settings and click [Next].

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

You will have two partitions.

- [Reinstall to the first 2 partitions.]*¹.

Select this option when the hard disk has already been divided into several partitions. For how to create a new partition, refer to "To change the partition structure" (→ page 15).

You can keep the partition structure.

*¹ This does not appear if Windows cannot be reinstalled to the partition containing boot files and the area usable by Windows.

13 At the confirmation message, click [YES].

Reinstallation starts automatically. (It will take approximately 25 - 35 minutes.)

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

14 Remove the Product Recovery DVD-ROM, and then click [OK] to turn off the computer.

15 Turn on the computer.

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

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


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

18 Perform Windows Update.



■ **Confirming kind of Operating System**

The kind of the system can be confirmed, click  (Start) - [Computer], and then click [System Properties].




Troubleshooting (Basic)

Follow the instructions below when a problem has occurred. There is also an advanced troubleshooting guide in the "Reference Manual". For a software problem, refer to the software's instruction manual. If the problem persists, contact your technical support office. You can also check the computer's status in the PC Information Viewer (→  Reference Manual "Check the Computer's Usage Status").

■ Starting Up and Sleep and Hibernation Mode

<p>The computer does not power on/ The power indicator or battery indicator is not lit.</p>	<ul style="list-style-type: none"> ● Connect the AC adaptor. ● Insert a fully charged battery. ● Remove the battery pack and the AC adaptor, then connect them again. ● When the CPU temperature is high, the computer may not start up to prevent overheating of the CPU. Wait until the computer cools down, and then turn the power on again. If the computer does not power on even after cooling down, contact your technical support office. ● Pull out the AC cord and wait for more than 1 minute to reconnect the AC cord.
<p>Windows does not start up.</p>	<ul style="list-style-type: none"> ● Remove all peripheral devices (e.g. USB memory). ● If the power indicator is lit, slide the power switch for four seconds or longer to turn off, then turn on again. ● Using the following procedure, start up in Safe Mode, and check the error details. <ol style="list-style-type: none"> ① Turn on the computer, and when the [Panasonic] boot screen disappears (after entering the password*¹ if one is set) hold down F8. ② Release your finger when [Windows Advanced Options Menu] is displayed, and with ↑ or ↓, select [Safe Mode], then press Enter. Follow the on-screen instructions. <p>*¹ Supervisor Password or User Password set with the Setup Utility</p> <ul style="list-style-type: none"> ● Press F9 in the Setup Utility to return the Setup Utility settings (excluding the passwords) to the default values. Start the Setup Utility and make the settings again.
<p>After adding or changing the RAM module, the power is turned on but nothing is displayed on the screen.</p>	<ul style="list-style-type: none"> ● Turn off the computer and remove the RAM module, then confirm whether the RAM module has complied to specification. When the RAM module has conformed to specification, install it again.
<p>Cannot boot from internal CD/DVD drive.</p>	<ul style="list-style-type: none"> ● Make sure that the bootable CD/DVD is set properly. ● Start the Setup Utility, and confirm the following settings. <ul style="list-style-type: none"> • [Optical Drive] is set to [Enabled] in the [Advanced] menu. • [Optical Drive Power] is set to [On] in the [Main] menu. • [Boot Option #1] is set to [CD/DVD Drive] in the [Boot] menu. ● When an external CD/DVD drive is connected, you cannot boot from the internal CD/DVD drive.
<p>You have forgotten the password.</p>	<ul style="list-style-type: none"> ● Supervisor Password or User Password: Contact your technical support office. ● Administrator password: <ul style="list-style-type: none"> • If you have another account with Administrator authority, log-on with it, then delete the password for the problem account. • If you have a password reset disk, click [Reset password] displayed after the password input error, then follow the on-screen instructions to set a new password. • If you cannot do either of the above, you will need to reinstall (→ page 20) and setup Windows.
<p>"Remove disks or other media. Press any key to restart" or a similar message appears.</p>	<ul style="list-style-type: none"> ● A floppy disk is in the floppy disk drive and it does not contain system startup information. Remove the floppy disk and press any key. ● This message may appear with some devices connected to the USB port. Remove the device or set [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 hard disk failure. Perform the reinstallation and return the hard disk to its condition at the time of purchase. (→ page 20) If the problem persists even after the reinstallation, contact your technical support office.
<p>[Executing Battery Recalibration] screen appears.</p>	<ul style="list-style-type: none"> ● The Battery Recalibration was canceled before Windows was shut down last time. To start up Windows, turn off the computer by the power switch, and then turn on.
<p>The computer will not automatically enter sleep or hibernation.</p>	<ul style="list-style-type: none"> ● If you connect to a network using wireless LAN function, perform access point settings. (→  Reference Manual "Wireless LAN") ● If you do not use wireless LAN function, turn off wireless LAN function. (→  Reference Manual "Disabling/Enabling Wireless Communication") ● Make sure that you are not using any software that regularly accesses the hard disk.



■ Starting Up and Sleep and Hibernation Mode

[Enter Password] does not appear when resuming from sleep hibernation.	<ul style="list-style-type: none"> ● 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. <ol style="list-style-type: none"> ① Click  (Start) - [Control Panel] - [User Accounts and Family Safety] - [Add or remove user accounts] and select the account, and set the password. ② Click  (Start) - [Control Panel] - [System and Security] - [Power Options] - [Require a password on wakeup] and a check mark for [Require a password].
When logging on (e.g., resuming the computer), audio is distorted.	<ul style="list-style-type: none"> ● Perform the following steps to change the audio settings to prevent audio output. <ol style="list-style-type: none"> ① Right-click the desktop and click [Personalize] - [Sounds]. ② Remove the check mark from [Play Windows Startup sound], and click [OK].
Cannot resume.	<ul style="list-style-type: none"> ● One of the following operations may have been carried out. <ul style="list-style-type: none"> • In sleep mode, the AC adaptor or battery pack was disconnected, or a peripheral was connected or disconnected. • The power switch was slid for four seconds or longer to forcibly turn off the computer. Slide the power switch to turn on the computer. Data not saved will be lost.
Other startup problems.	<ul style="list-style-type: none"> ● Check to see if there was a disk error. <ol style="list-style-type: none"> ① Remove all peripheral devices including an external display. ② Click  (Start) - [Computer] and right-click [Local Disk (C:)], and click [Properties]. ③ Click [Tools] - [Check Now...]. <ul style="list-style-type: none"> • A standard user needs to enter an administrator password. ④ Select the option in [Check disk options] and click [Start]. ⑤ Click [Schedule disk check] and restart the computer. ● Start the computer in Safe Mode and check the error details. (→ page 22 "Windows does not start up".)



■ Shutting Down

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

Even after entering the password, a message appears requesting to type it again.	<ul style="list-style-type: none"> ● If  lights up, press NumLk to disable the ten-key mode, and then input. ● If  lights up, press Caps Lock to disable the Caps Lock mode, and then input.
Cannot log on to Windows. ("The user name or password is incorrect." is displayed.)	<ul style="list-style-type: none"> ● The user name (account name) includes an "@" mark. If another user account exists: Log on to Windows using another user account, and delete the account that includes "@". Then create a new account. If no other account exists: You need to reinstall Windows (→ page 20).

■ Display

When the screen becomes black for a moment.	<ul style="list-style-type: none"> ● When you set [Intel(R) video driver power saving function] - [Intel(R) Display Power Saving Technology] of Power Plan Extension Utility to [Enabled], if you do the following operations, the screen becomes black for a moment, but this is not a malfunction. You can use it. <ul style="list-style-type: none"> • Adjust the brightness of the screen with Fn + F1 / Fn + F2. • Remove and insert the AC adaptor. <p>While you are using motion video playback software, benchmark software for graphic, if error screen is displayed or application software does not function normally, set [Intel(R) video driver power saving function] - [Intel(R) Display Power Saving Technology] to [Disabled].</p>
No display.	<ul style="list-style-type: none"> ● The external display is selected. Press Fn + F3 (or  + P) to switch the display. Wait until the display has been switched completely before pressing Fn + F3 (or  + P) again. ● The display is turned off by the power-saving function. To resume, do not press the direct selection keys, but press any other key like Ctrl. ● The computer entered sleep or hibernation by the power-saving function. To resume, slide the power switch. ● The screen may become darker. Press Fn + F2 to make the screen brighter.

Troubleshooting (Basic)

■ Display

The screen is disordered.	<ul style="list-style-type: none"> ● Changing the number of display colors and resolution may affect the screen. Restart the computer. ● The refresh rate of the internal LCD may be 40 hertz. Change the refresh rate of the internal LCD. <ol style="list-style-type: none"> ① Right-click on the desktop, and click [Graphics Properties]. ② Click [General Settings]. ③ If [Refresh Rate] of the Notebook is [40 Hz], change to [60 Hz] and click [OK].
The external display does not work normally.	<ul style="list-style-type: none"> ● If the external display does not support the power saving function, it may not work normally when the computer enters the power saving mode. Turn off the external display.

■ Battery

The battery indicator is lights red.	<ul style="list-style-type: none"> ● The battery level is very low (the charge is approx. 9% or less). ● Connect the AC adaptor. You can use the computer when the indicator light is orange. If you do not have an AC adaptor, save your data and power off your computer. After replacing the battery pack with a fully charged one, turn your computer on again.
The battery indicator is blinking.	<ul style="list-style-type: none"> ● If blinking red: Quickly save your data and power off your computer. Remove the battery pack and disconnect the AC adaptor, then connect them again. If the problem persists, contact your technical support office. The battery pack or charging circuit may be defective. ● If blinking orange: <ul style="list-style-type: none"> • Battery cannot be recharged temporarily because the internal temperature of the battery pack is outside the acceptable temperature range for recharging. Your computer can be used normally in this state. Once the range requirement is satisfied, charging begins automatically. • Software applications and peripheral devices (USB devices, etc.) are consuming too much power. Exit the software applications currently running, and remove all peripherals. Once the range requirement is satisfied, charging begins automatically.
The battery indicator is flashing.	<ul style="list-style-type: none"> ● The battery is recharging. If [Battery Charging Indicator] in [Main] menu of the Setup Utility is set to [Flashing], the indicator will alternately become lighter and darker.

■ Touch Pad

The cursor does not work.	<ul style="list-style-type: none"> ● When using the external mouse, connect it correctly. ● Restart the computer by using the keyboard. Press ⊞ and press → two times, and press ↑ to select [Restart] and press Enter. ● If the computer does not respond to keyboard commands, read "No response" (→ below).
Cannot input using the touch pad.	<ul style="list-style-type: none"> ● Set [Touch Pad] to [Enabled] in the [Main] menu of the Setup Utility. ● The drivers for some mice may disable the touch pad. Check your mouse's operating instructions.

■ Reference Manual

The Reference Manual is not displayed.	<ul style="list-style-type: none"> ● Install Adobe Reader. <ol style="list-style-type: none"> ① Log on to Windows as an administrator. ② Click ⊞ (Start) and input "c:\util\reader\Setup.exe" in [Search programs and files] then press Enter. ③ Update Adobe Reader to its latest version. ④ If your computer is connected to the internet, start up Adobe Reader and click [Help] - [Check for Updates...].
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■ Others

No response.	<ul style="list-style-type: none"> ● Press Ctrl+Shift+Esc to open Task Manager and close the software application that is not responding. ● An input screen (e.g., password input screen at startup) may be hidden behind another window. Press Alt+Tab to check. ● Slide the power switch for four seconds or longer to shut down the computer, and then slide the power switch to turn it on. If the application program does not work normally, uninstall and reinstall the program. To uninstall, click ⊞ (Start) - [Control Panel] - [Programs] - [Uninstall a program].
The computer does not recognize the CD/DVD drive.	<ul style="list-style-type: none"> ● Restart the computer. After the computer restarts, it may recognize a CD/DVD drive.

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Specifications

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

Start the Setup Utility (→  *Reference Manual* "Setup Utility") and select [Information] menu.
[Processor Speed]: CPU speed, [Memory Size]: Memory size, [Hard Disk]: Hard disk drive size

■ Main Specifications

Model No.		CF-S9KWAZZDM	CF-S9KWNZZDM
CPU		Intel® vPro™ Technology *1 Intel® Core™ i5-520M vPro™ processor (2.40 GHz with Turbo Boost up to 2.93 GHz, Intel® Smart Cache 3 MB*2)	
Chip Set		Mobile Intel® QM57 Express Chipset	
Main Memory *2*3		2 GB, DDR3 SDRAM (6 GB Max.)	
Video Memory *2*4		UMA 763 MB Max. (When Memory is 2 GB) / UMA 1563 MB Max. (When Memory is 4 or 6 GB)	
Video Controller		Intel® HD Graphics (Built-in CPU)	
Hard Disk Drive *5		320 GB Approx. 300 MB is used as a partition with recovery tools. (Users cannot use this partition.)	
CD/DVD Drive		DVD MULTI Drive built-in, Buffer underrun error prevention function: Supported	
Continuous Data Transfer Speed *6*7	Reading *8	●DVD-RAM*10: 5X (Max.)(4.7 GB)*5 ●DVD-R*11: 8X (Max.) ●DVD-RW: 8X (Max.) ●DVD-R DL: 8X (Max.) ●DVD-ROM: 8X (Max.) ●CD-ROM: 24X (Max.) ●CD-R: 24X (Max.) ●CD-RW: 24X (Max.) ●+R: 8X (Max.) ●+R DL: 8X (Max.) ●+RW: 8X (Max.) ●High Speed +RW: 8X(Max.) ●High-Speed CD-RW: 24X(Max.) ●Ultra-Speed CD-RW: 24X(Max.)	
	Writing *9	●DVD-RAM*10: 2X/3X/3-5X (4.7 GB)*5 ●DVD-R: 2X/3.3-4X/3.3-6X/3.3-8X ●DVD-RW: 1X/2X/2-4X/2-6X ●+R: 2.4X/3.3-4X/3.3-6X/3.3-8X ●+RW: 2.4X/2.4-4X ●High Speed +RW: 3.3X/3.3-6X ●CD-R: 8X/8-12X/8-16X/10.8-24X ●CD-RW: 4X ●High-Speed CD-RW: 4X/8X/10X	
Supported Discs/Format *7	Reading	●DVD-ROM (Single Layer, Dual Layer) ●DVD-Video ●DVD-R*11 (1.4 GB, 2.8 GB, 4.7 GB)*5 ●DVD-RW (Ver.1.1/1.2 1.4 GB, 2.8 GB, 4.7 GB, 9.4 GB)*5 ●DVD-R DL (8.5 GB)*5 ●DVD-RAM*10 (1.4 GB, 2.8 GB, 4.7 GB, 9.4 GB)*5 ●+R (4.7 GB)*5 ●+R DL (8.5 GB)*5 ●+RW (4.7 GB)*5 ●CD-Audio ●CD-ROM (XA compatible) ●CD-R ●Photo CD (multiple session compatible) ●Video CD ●CD EXTRA ●CD-RW ●CD-TEXT ●High Speed +RW (4.7 GB)*5 ●High-Speed CD-RW ●Ultra-Speed CD-RW	
	Writing	●DVD-RAM*10 (1.4 GB, 2.8 GB, 4.7 GB, 9.4 GB)*5 ●DVD-R (1.4 GB, 2.8 GB, 4.7 GB for General)*5 ●DVD-RW (Ver.1.1/1.2 1.4 GB, 2.8 GB, 4.7 GB, 9.4 GB)*5 ●+R (4.7 GB)*5 ●+RW (4.7 GB)*5 ●CD-R ●CD-RW ●High Speed +RW (4.7 GB)*5 ●High-Speed CD-RW	
Display Method		12.1 WXGA type (TFT) (1280 × 800 dots)	
Internal LCD		65,536/16,777,216 colors (1280 × 800 dots)*12	
External Display *13		65,536/16,777,216 colors (800 × 600 dots/1024 × 768 dots/1280 × 720 dots/1280 × 768 dots/1280 × 1024 dots/1400 × 1050 dots/1680 × 1050 dots/1600 × 1200 dots/1920 × 1080 dots/1920 × 1200 dots)	
Simultaneous Display on LCD + External Display *13		65,536/16,777,216 colors (800 × 600 dots/1024 × 768 dots/1280 × 720 dots/1280 × 768 dots/1280 × 800 dots)*12	
Wireless LAN		Intel® Centrino® Advanced-N 6200*14 (→ page 28)	
Bluetooth *15		→ page 28	
LAN *16		IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T	
Modem *17		Data: 56 kbps (V.92) FAX: 14.4 kbps	
Fingerprint Reader *18		-	Array Size: 192 × 4 pixels, Image Size: 192 × 512 pixels, Image Resolution: 508 DPI
Sound		WAVE and MIDI playback, Intel® High Definition Audio subsystem support, Stereo Speakers (built in)	
Security Chip		TPM (TCG V1.2 compliant)*19	
Card Slots	PC Card Slot	× 1, Type I or Type II, Allowable current 3.3 V: 400 mA, 5 V: 400 mA	
	SD Memory Card Slot *20	× 1	
RAM Module Slot		× 1, DDR3 SDRAM, 204-pin, 1.5 V, SO-DIMM, PC3-6400 Compliant	

Specifications


Model No.	CF-S9KWAZZDM	CF-S9KWNZZDM	
Interface	USB Ports × 3 (USB2.0 × 3) ^{*21} / Modem Port (RJ-11) / LAN Port (RJ-45) ^{*16} / External Display Port: Mini Dsub 15-pin female / HDMI Port (Type A) ^{*22} / Microphone Jack ^{*23} : Miniature jack, 3.5 DIA / Headphone Jack: Miniature jack, 3.5 DIA		
Keyboard/Pointing Device	85 keys/Touch Pad		
Power Supply	AC adaptor or Battery pack		
AC Adaptor ^{*24}	Input: 100 V - 240 V AC, 50 Hz/60 Hz Output: 16 V DC, 3.75 A		
Battery Pack	Li-ion 7.2 V, 12.4 Ah (typ.), 11.6 Ah (min.)		
Operating Time ^{*25}	Approx. 11 hours (Economy Mode (ECO) - Disable)		
Charging Time ^{*26}	Approx. 3.5 hours (Power off)/Approx. 6.5 hours (Power on)		
Power Consumption ^{*27}	Approx. 30 W ^{*28} / Approx. 60 W (maximum when non-recharging in the ON state)		
Physical Dimensions (W × D × H) ^{*29}	282.8 mm × 209.6 mm × 23.4 mm (at the front)/38.7 mm (at the rear) {11.1 " × 8.3 " × 0.9 " / 1.5 " } (excluding protrusion)		
Weight ^{*30}	Approx. 1.36 kg {3.0 lb.}	Approx. 1.365 kg {3.0 lb.}	
Environment	Operation	Temperature	5°C to 35°C {41°F to 95°F}
		Humidity	30% to 80% RH (No condensation)
	Storage	Temperature	-20°C to 60°C {-4°F to 140°F}
		Humidity	30% to 90% RH (No condensation)
OS ^{*31}	Genuine Windows® 7 Professional (32-bit)		
Pre-installed Software ^{*31}	Adobe Reader ^{*32} / Loupe Utility / Touch Pad Utility / PC Information Viewer / PC Information Popup / Hotkey Settings / Wireless Switch Utility / Intel® Rapid Storage Technology / Bluetooth™ Stack for Windows by TOSHIBA ^{*15} / Battery Recalibration Utility / Intel® PROSet/Wireless Software / WinDVD™ 8 (OEM Version) / Roxio Creator LJB / Optical Disc Drive Letter-Setting Utility / Microsoft® Internet Explorer 8.0 / DirectX 11 ^{*33} / Microsoft® Windows® Media Player 12 / Microsoft® .NET Framework 3.5.1 / Infineon TPM Professional Package V3.6 ^{*19*32} / Power Plan Extension Utility		
	-	Protector Suite ^{*18*32}	
	Aptio Setup Utility / Hard Disk Data Erase Utility ^{*34} / PC-Diagnostic Utility		

■ Wireless LAN <Only for model with wireless LAN>

Data Transfer Rates	IEEE802.11a : 54/48/36/24/18/12/9/6 Mbps (automatically switched) ^{*35} IEEE802.11b : 11/5.5/2/1 Mbps (automatically switched) ^{*35} IEEE802.11g : 54/48/36/24/18/12/9/6 Mbps (automatically switched) ^{*35} IEEE802.11n : (HT20) GI = 400 ns:144/130/115/86/72/65/57/43/39/28/21/14/7 GI = 800ns:130/117/104/78/65/58/52/39/26/19/13/6 Mbps (automatically switched) ^{*35} (HT40) GI = 400ns:300/270/240/180/150/135/120/90/60/30/15 GI = 800ns:270/243/216/162/135/121/108/81/54/40/27/13 Mbps (automatically switched) ^{*35}
Standard Supported	IEEE802.11a / IEEE802.11b / IEEE802.11g / IEEE802.11n
Transmission Method	OFDM system, DS-SS system
Wireless Channels Used	IEEE802.11a : Channels 36/40/44/48/52/56/60/64/100/104/108/112/116/132/136/140/149/153/157/161/165 IEEE802.11b/IEEE802.11g : Channels 1 to 11 IEEE802.11n : Channels 1-11/36/40/44/48/52/56/60/64/100/104/108/112/116/132/136/140/149/153/157/161/165
RF Frequency Band	IEEE802.11a : 5.18 GHz - 5.32 GHz, 5.5 GHz - 5.7 GHz, 5.745 GHz - 5.825 GHz IEEE802.11b/IEEE802.11g : 2.412 GHz - 2.462 GHz IEEE802.11n : 2.412 GHz - 2.462 GHz, 5.18 GHz - 5.32 GHz, 5.5 GHz - 5.7 GHz, 5.745 GHz - 5.825 GHz

■ Bluetooth™ <Only for model with Bluetooth>

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

- *1 The Intel® Active Management Technology (Intel® AMT) function must be set before use.
- *2 1 MB = 1,048,576 bytes / 1 GB = 1,073,741,824 bytes
- *3 You can physically expand the memory up to 4 GB, but the total amount of usable memory available will be less depending on the actual system configuration.
- *4 A segment of the main memory is allotted automatically depending on the computer's operating status. The size of the Video Memory cannot be set by the user. The size of Video memory is allotted depending on the operating system.
For Windows 7 (64-bit), UMA 1696 MB Max. (When Memory is 4 or 6 GB)
- *5 1 GB = 1,000,000,000 bytes. Your operating system or some application software will report as fewer GB.
- *6 Data transfer speeds indicate values measured by Panasonic Corporation. The data transfer rate of DVD per 1X speed is 1,350 KB/s. The data transfer rate of CD per 1X speed is 150 KB/s.
- *7 Performance of CD-R, CD-RW, DVD-RAM, DVD-R, DVD-R DL, DVD-RW, +R, +R DL, and +RW cannot be guaranteed depending on writing status and recording format. Also, some data cannot be played back depending on the disc, settings, and environment being used.
Does not support writing to DVD-R DL/+R DL (dual layer discs) and Ultra-Speed CD-RW. Does not support 2.6 GB DVD-RAM.
- *8 If an unbalanced disc (e.g., a disc with which the balance has been displaced from the center) is inserted, the speed may become slower if there are large vibrations while the disc is rotating.
- *9 Depending on the disc, the writing speed may become slower.
- *10 Only non-cartridge type or removable cartridge type can be used.
- *11 DVD-R is compatible with 4.7 GB (for General) playback. DVD-R (for Authoring) playback is compatible with discs recorded using Disc-at-Once recording.
- *12 A 16,777,216 color display is achieved by using the dithering function.
- *13 Display may be impossible using some connected external displays.
- *14 Only for model with wireless LAN.
- *15 Only for model with Bluetooth.
- *16 Some devices cannot be used depending on the port type.
- *17 Only for model with modem.
- *18 Only for model with Fingerprint Reader.
- *19 Only for model that supports TPM.
For information on TPM, click  (Start) and input "c:\util\drivers\tpm\README.pdf" in [Search programs and files] and press **Enter**, and refer to the Installation Manual of "Trusted Platform Module (TPM)".
- *20 This slot is not compatible with the UHS-I high speed transfer. Operation has been tested and confirmed using Panasonic SD Memory Card with a capacity of up to 2 GB, Panasonic SDHC Memory Card with a capacity of up to 32 GB, and Panasonic SDXC Memory Card with a capacity of up to 64 GB. Operation on other SD equipment is not guaranteed.
- *21 Does not guarantee operation of all USB-compatible peripherals.
- *22 Does not guarantee operation of all HDMI-compatible peripherals.
- *23 Use a condenser-stereo microphone.
- *24 <Only for North America>
The AC adaptor is compatible with power sources up to 240 V AC adaptor. This computer is supplied with a 125 V AC compatible AC cord.
- *25 Measured using MobileMark™ 2007 (LCD brightness : 60 cd/m²).
Varies depending on the usage conditions, or when an optional device is attached.
When Economy Mode (ECO) is enabled, the operating time becomes approximately 20% shorter than when it is disabled.
- *26 When Economy Mode (ECO) is enabled, the charging time becomes approx. 5.0 hours (Power on/off). Varies depending on the usage conditions, CPU speed, etc.
It may take a long time to charge a fully discharged battery.
- *27 Approx. 0.7 W when the battery pack is fully charged (or not being charged) and the computer is off.
<When using with 115 V AC>
Even when the AC adaptor is not connected to the computer, power is consumed (Max. 0.3 W) simply by having the AC adaptor plugged into an AC outlet.
- *28 Rated power consumption.
- *29 41.4 mm at thickest point (excluding protrusions).
- *30 Average value. May differ depending on models.
- *31 Operations of this computer are not guaranteed except for the pre-installed OS and the installed OS by using the Product Recovery DVD-ROM (included).
Some parts of the software in the Product Recovery DVD-ROM may not be installed depending on a model.
- *32 Must be installed before use.
- *33 The graphics accelerator of this computer supports up to DirectX 10.
- *34 The Product Recovery DVD-ROM is required.
- *35 These are speeds specified in IEEE802.11a+b+g+n standards. Actual speeds may differ.

20-M-1-1

23-E-1

LIMITED WARRANTY

For U.S.A.

Panasonic Solutions Company - Worldwide Product Warranties

Section 1 - Limited Warranty - Hardware

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

- Laptop Computers - 3 Years
- PDRC - LCD and Keyboard Assemblies - 3 Years
- MDWD - Mobile Computer and Wireless Display Assemblies (CF-07/CF-08) - 3 Years
- Ultra-Mobile PC (CF-U1/CF-H1) - 3 Years
- Hand-held Computers (P1/P2) - 1 Year
- Arbitrator Video Camera - 1 Year
- Arbitrator Recorder Unit - 1 Year
- Arbitrator Remote Control Panel - 1 Year
- Arbitrator Wireless Receiver Unit - 1 Year
- Arbitrator P2 Card(s) (All Sizes) - 1 Year
- Arbitrator Wireless Microphone(s) / Transmitter - 90 Days
- Arbitrator System Component Interconnect Cables - 90 Days

Battery Warranty

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

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 computer in which the modem is installed. For computers 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 computer 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 Card (Panasonic Brand) - 3 Years
- Car Mount Docking Station PCB or Complete Vehicle Docking Station - 3 Years
- Port Replicator / I-O Box / Device Cradle (like CF-08) - 3 Years
- Antenna Pass-through Cable - 3 Years
- Backlit or Full-sized keyboard - 3 Years or assumes warranty of the unit in which it is installed
- Integrated Panasonic supplied options and kits including, but not limited to Wireless WAN, Media Bay Drives (Floppy, CD/DVD, Combo), Camera, GPS, Bluetooth, Smartcard Reader, Magnetic Card Reader, Barcode Scanner and Fingerprint readers - 3 Years or assumes warranty period of the unit in which it is installed provided the integration was performed by Panasonic or an Authorized Options Integrator.
- Hard Drive (separately purchased) - 1 Year
- External USB Drives (CD / DVD / Floppy / Hard Drive) - 1 Year
- Optional Battery - 1 Year
- Battery Charger / Multi-Bay Battery Charger - 1 Year
- Digitizer pen or stylus - 90 Days (physical damage excluded)

Section 2 - Limited Warranty - Software

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

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

Panasonic's entire liability and your exclusive remedy under this warranty shall be limited to the replacement, in the United States or other Panasonic designated location, of any defective disk or other media which is returned to Panasonic's Authorized Service Center, together with a copy of the purchase receipt, within the aforesaid warranty period. The customer is responsible for ensuring that all data is backed up and made secure during normal use and before sending a unit for service.

Section 3 - Limited Warranty Exclusions

Specifically excluded from the warranty are:

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

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

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

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

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

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

For technical support or to arrange for service on your Panasonic computer product, call our toll-free hotline at 1-800-LAPTOP5.

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

LIMITED WARRANTY

For Canada

PANASONIC COMPUTER AND PERIPHERALS LIMITED WARRANTY

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

Scope of Coverage	Period of Coverage	Type of Failure Coverage
<ul style="list-style-type: none"> Laptop Computers (except Battery) and AC Adaptor Factory/PCI installed options including Wireless WAN, GPS, Bluetooth, Finger print reader, Backlit keyboard, Memory Card and Media Bay Drives (Floppy, CD/DVD) Ultra-Mobile PC (CF-U1/CF-H1) Mobile Wireless Display oPDRC - LCD and Keyboard Assemblies Port Replicator 	Three (3) Years from Date of Original End User Customer Purchase	Defective Materials or Workmanship
<ul style="list-style-type: none"> Hand-held Computers Battery Battery charger Auto Adaptor External USB Drives 	One (1) Year from Date of Original End User Customer Purchase	Defective Materials or Workmanship
<ul style="list-style-type: none"> Digitizer pen or stylus 	Ninety (90) Days from Date of Original End User Customer Purchase	Defective Materials or Workmanship
<ul style="list-style-type: none"> All consumable items including protection film, cleaning cloth, carry case, tether and harness 	No Coverage	

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

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

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

IF YOU SHIP THE PRODUCT FOR WARRANTY SERVICE

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

SOFTWARE MEDIA LIMITED WARRANTY

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

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

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

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

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

GENERAL

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

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

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

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

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

GARANTIE LIMITÉE

Pour le Canada

GARANTIE LIMITEE - ORDINATEURS ET PERIPHERIQUES PANASONIC

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

Elements couverts	Duree de couverture	Type de couverture
<ul style="list-style-type: none"> • Ordinateurs blocs-notes (sauf batteries) et adaptateur secteur • Options installées en usine/par PCI incluant : WAN sans fil, GPS, Bluetooth, lecteur d'empreintes digitales, clavier retroéclairé, carte mémoire et lecteurs (disquettes, CD/DVD) • Ordinateurs personnels ultra-portables (CF-U1/CF-H1) • Ecran mobile sans fil • Ensembles PDRC - ACL et clavier • Duplicateur de port 	Trois (3) ans à partir de la date d'achat original.	Defauts de pieces et de fabrication
<ul style="list-style-type: none"> • Ordinateurs de poche • Batterie • Chargeur de batterie • Adaptateur pour voiture • Peripheriques USB 	Un (1) an à partir de la date d'achat original.	Defauts de pieces et de fabrication
<ul style="list-style-type: none"> • Stylo pointeur standard ou pour numeriseur graphique 	Quatre-vingt-dix (90) jours à partir de la date d'achat original.	Defauts de pieces et de fabrication
<ul style="list-style-type: none"> • Tous les articles consommables incluant les pellicules protectrices, chiffons de nettoyage, etuis de transport, longes et sangles 	Aucune couverture	

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

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

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

CE PRODUIT N'EST PAS DESTINE A ETRE UTILISE, EN TOUT OU EN PARTIE, COMME SYSTEME/EQUIPEMENT NUCLEAIRE, SYSTEME/EQUIPEMENT DE CONTROLE DU TRAFFIC AERIEN OU SYSTEME/EQUIPEMENT DE POSTE DE PILOTAGE D'AVION³. PANASONIC DECLINE TOUTE RESPONSABILITE CONCERNANT L'UTILISATION DE CE PRODUIT DANS LES CAS SUSMENTIONNES.

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

EXPEDITION DU PRODUIT POUR SERVICE SOUS GARANTIE

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

GARANTIE LIMITEE - SUPPORTS DES LOGICIELS

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

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

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

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

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

GENERALITES

PCI NE RECONNAIT AUCUNE AUTRE GARANTIE, EXPLICITE OU IMPLICITE, Y COMPRIS, MAIS NON EXCLUSIVEMENT, LES GARANTIES IMPLICITES DE VALEUR COMMERCIALE ET D'UTILITE A UNE FIN QUELCONQUE, A L'EGARD DU LOGICIEL, SUPPORTS DE LOGICIELS, PRODUITS INFORMATIQUES, PERIPHERIQUES ET ACCESSOIRES.

SOUS AUCUNE CIRCONSTANCE PCI NE POURRA ETRE TENUE RESPONSABLE DES DOMMAGES SPECIAUX, INDIRECTS OU CONSECUTIFS ATTRIBUABLES A UN MANQUEMENT AUX GARANTIES LIMITEES DECRITES DANS LE PRESENT DOCUMENT OU A L'UTILISATION DU PRODUIT INFORMATIQUE, Y COMPRIS, SANS RESTRICTION, LA PERTE DE DONNEES, D'AFFAIRES, D'ACHALANDAGE OU DE PROFIT.

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

AUCUNE RECLAMATION, SANS EGARD A SES MOTIFS, NE POURRA ETRE FAITE AUPRES DE PCI PLUS DE DEUX (2) ANS APRES LES FAITS INVOQUES A LA BASE D'UNE TELLE RECLAMATION.

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



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Panasonic Solutions Company
3 Panasonic Way, Panazip 2F-5,
Secaucus, NJ 07094

Panasonic Canada Inc.
5770 Ambler Drive Mississauga,
Ontario L4W 2T3

