



Panasonic®

OPERATING INSTRUCTIONS

Read Me First

Personal Computer

Model No. **CF-SV** series

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Read Me First

Getting Started

■ Terms and illustrations in these instructions

In these instructions, the names and terms are referred as follows.

CAUTION : Conditions that may result in minor or moderate injury.

NOTE : Useful and helpful information.

- “Windows 10 Pro 64-bit” as “Windows” or “Windows 10”

 -  (Settings) : Click  (Start) and then click  (Settings).

 : Page in these Operating Instructions.

 : Reference to the on-screen manuals.

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

Safety Precautions

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

Explanation of symbol word panels

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

DANGER

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

WARNING

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

CAUTION

Denotes a hazard that could result in minor injury.

NOTICE

Denotes a hazard that could result in property damage.

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



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



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



DANGER

Precautions on the Battery Pack

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



- **Do Not Throw the Battery Pack into a Fire or Expose It to Excessive Heat**
- **Do Not Deform, Disassemble, or Modify the Battery Pack**
- **Do Not Short the Positive (+) and Negative (-) Contacts**

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

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

⇒ If this product is subjected to a strong impact, damaged or deformed, stop using it immediately.

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

- **Do Not Use the Battery Pack with Any Other Product**

• The battery pack is rechargeable and was intended for the specified product.

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

⇒ Use only the specified battery pack with your product.



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

- **When the Battery Pack Has Deteriorated, Replace It With a New One**

⇒ Do not continue to use a damaged battery pack.

- **If a Malfunction or Trouble Occurs, Immediately Stop Use**

⇒ If the battery pack appears to be damaged or deformed, or if it emits smoke, abnormal odor, excessive heat, or other abnormality, remove it from the computer immediately.



WARNING

Fire or electric shock may result.



- **Do Not Do Anything That May Damage the AC Cord, the AC Plug, or the AC Adaptor**
Do not damage or modify the cord, place it near hot tools, bend, twist, or pull it forcefully, place heavy objects on it, or bundle it tightly.
 - ⇒ Do not continue to use a damaged AC cord, AC plug and AC adaptor.
- Contact your technical support office for repair.
- **Do Not Connect the AC Adaptor to a Power Source Other Than a Standard Household AC Outlet**
 - ⇒ Connecting to a DC/AC converter (inverter) may damage the AC adaptor. On an airplane, only connect the AC adaptor/charger to an AC outlet specifically approved for such use.
- **Do Not Pull or Insert the AC Plug If Your Hands Are Wet**
- **Do Not Disassemble This Product**
 - No user serviceable parts inside this unit. Refer servicing to qualified technician.
- **Do Not Touch This Product In a Thunderstorm If Connected with the AC Cable or Any Other Cables**
- **Do Not Place Containers of Liquid or Metal Objects on Top of This Product**
 - ⇒ If foreign matter has found its way inside, immediately turn the power off and unplug the AC plug (and remove the battery pack). Then contact your technical support office.



- **If a Malfunction or Trouble Occurs, Immediately Stop Use**
If the Following Malfunction Occurs, Immediately Unplug the AC Plug and the Battery Pack
 - This product is damaged
 - Foreign object inside this product
 - Smoke emitted
 - Unusual smell emitted
 - Unusually hot
 - ⇒ After the above procedure, contact your technical support office for repair.
- **Clean Dust and Other Debris of the AC Plug Regularly**
 - If dust or other debris accumulates on the plug, humidity, etc. may cause a defect in the insulation.
- **Insert the AC Plug Completely**
 - ⇒ Do not use a damaged plug or loose AC outlet.

Safety Precautions

WARNING

Burns or low-temperature burns may result.



- **Do Not Use This Product in Close Contact With Your Body For a Long Period of Time**
 - ⇒ Do not use this product with its heat-emitting parts in close contact with your body for a long period of time.
 - Low-temperature burns may result.
- **Do Not Expose Yourself or Other Persons to the Hot Wind from the Ventilation Hole (Exhaust) For a Long Period of Time.**
 - Depending on the direction of the computer or the way you hold the computer, your hands and body will be more exposed to the hot wind.
 - Covering the ventilation hole (exhaust) with your hand or other object can cause heat to build up inside, possibly resulting in burns.
- **Do Not Touch The Surface of The AC Adaptor Continuously While Using/ Charging**
 - Burns may result.
- **Do Not Place the Product in a Bag or Case While It is Turned On**
 - Doing so may cause the product to overheat and result in burns.

Detrimental health effects on your body may result.



- **Do Not Turn the Volume Up Too Loud When Using Headphones**
 - Listening at high volumes that overstimulate the ear for long periods of time may result in loss of hearing.

CAUTION

Fire or electric shock may result.



- **Do Not Move This Product While the AC Plug Is Connected**
 - ⇒ If the AC cord is damaged, unplug the AC plug immediately.
- **Do Not Connect a Telephone Line, or a Network Cable Other Than the One Specified, Into the LAN Port**
 - ⇒ Do not connect to a network such as the ones listed below.
 - Networks other than 1000BASE-T, 100BASE-TX or 10BASE-T
 - Phone lines (IP phone (Internet Protocol Telephone), Telephone lines, internal phone lines (on-premise switches), digital public phones, etc.)
- **Do Not Subject the AC Adaptor To Any Strong Impact**
 - ⇒ Do not continue to use the AC adaptor after a strong impact such as being dropped.
 - ⇒ Contact your technical support office for repair.
- **Do Not Leave This Product in High Temperature Environment for a Long Period of Time**
 - Leaving this product where it will be exposed to extremely high temperatures such as near fire or in direct sunlight may deform the cabinet and/or cause trouble in the internal parts.
- **Do Not Block the Ventilation Hole (Exhaust)**
 - ⇒ Do not use this product wrapped in cloth or on top of bedding or a blanket.
- **Do Not Keep This Product Wherever There is a Lot of Water, Moisture, Steam, Dust, Oily Vapors, etc.**



CAUTION

Fire or electric shock may result.



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

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



- **Do Not Place This Product on Unstable Surfaces**



- **Avoid Stacking**

Detrimental health effects on your body may result.



- **Take a Break Of 10-15 Minutes Every Hour**
 - Using this product for long periods of time may have detrimental health effects on the eyes or hands.

NOTICE

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

Safety Precautions

NOTE

- The battery pack may become warm during recharging or normal use. This is completely normal.
- Recharging will not commence if internal temperature of the battery pack is outside of the allowable temperature range (0 °C to 50 °C {32 °F to 122 °F}). (→  *Operating Instructions - Reference Manual* “Basic Operation” “Battery Power”) Once the allowable range requirement is satisfied, charging begins automatically. Note that the recharging time varies based on the usage conditions. (Recharging takes longer than usual when the temperature is 10 °C {50 °F} or below.)
- If the temperature is low, the operating time is shortened. Only use the computer within the allowable temperature range.
- This computer has a high temperature mode function that prevents the degradation of the battery in high temperature environments. (→  *Operating Instructions - Reference Manual* “Basic Operation” “Battery Power”) A level corresponding to a 100% charge for high temperature mode is approximately equivalent to an 80% charge level for normal temperature mode.
- The battery pack is a consumable item. If the amount of time the computer can be run by using a particular battery pack becomes dramatically shorter and repeated recharging does not restore its performance, the battery pack should be replaced with a new one.
- When transporting a spare battery inside a package, briefcase, etc., it is recommended that it be placed in a plastic bag so that its contacts are protected.
- Always power off the computer when it is not in use. Leaving the computer on when the AC adaptor is not connected will exhaust the remaining battery capacity.
- <Only for model with Built-in Bridge Battery>
To minimize deterioration of the built-in bridge battery, connect the computer to the AC adaptor and recharge it for approximately 2 hours about once every year.

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 that exceed the specifications of our COTS (Commercial-Off-The-Shelf) products.

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

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

Regulatory Information

Information to the User / Informations destinées aux utilisateurs

<Only for model with wireless LAN/Bluetooth>

This product and your Health

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

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

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

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

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

Regulatory Information

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

26-M-1

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

Ce produit et votre santé

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

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

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

Informations concernant la réglementation

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

26-F-1

Regulatory Information

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

Battery Pack / Batterie

CAUTION:

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

58-E-1

ATTENTION:

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

58-F-1

Battery pack model number	CF-VZSU1C
Recommended charging condition	8.4V/2950mA (Constant voltage/current)
Notice	•Dispose of used batteries according to local ordinances and/or regulations. •Do not expose this computer to temperatures greater than 60 °C {140 °F}.

For U.S.A.

Federal Communications Commission Radio Frequency Interference Statement

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

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

Warning

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

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

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

FCC RF Exposure Warning:

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

<Only for model with wireless LAN/Bluetooth>

- This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
- This equipment 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 colocated or operated with any other antenna or transmitter.

Responsible Party: Panasonic Corporation of North America
Two Riverfront Plaza
Newark, NJ 07102

Support Contact: <http://business.panasonic.com/support-computerstables>

6-M-1

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

65-M-2



<US & Canada Only>

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.

<É.-U. et Canada seulement>

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

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

Regulatory Information

For Canada

Canadian ICES-003

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

7-M-2

<Only for model with wireless LAN/Bluetooth>

ISED Canada

This device complies with ISED Canada's licence-exempt RSSs.

Operation is subject to the following two conditions;

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

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

ISED Canada

Cet équipement est conforme aux normes sans licence RSS d'ISED 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 réervé à une utilisation à l'intérieur afin de réduire le risque d'interférence avec les systèmes satellites mobiles bicanaux.

Les radars forte puissance sont désignés comme étant les premiers utilisateurs (c'est-à-dire qu'ils ont la priorité) des bandes de fréquences 5250-5350 MHz et 5650-5850 MHz. Ces stations radars peuvent provoquer des interférences et/ou des dommages à ce périphérique.

30-Ca-2-1

<Only for model with wireless LAN/Bluetooth>

- This computer complies with ISED Canada radiation exposure limits set forth for an uncontrolled environment.

- Radiation Exposure Statement:

The product comply with the Canada portable RF exposure limit set forth for an uncontrolled environment and are safe for intended operation as described in this manual. The further RF exposure reduction can be achieved if the product can be kept as far as possible from the user body or set the device to lower output power if such function is available.

This device has been tested for compliance with IC SAR values at a typical operating near the body. To ensure that RF exposure levels below the levels tested, use accessories with this equipment to maintain a minimum separation distance of 2.5 cm between the body of the user and the device. These accessories should not contain metallic components. It is possible that the accessories used close to the body that do not meet these requirements are not consistent with the SAR limits and it is advisable to avoid using them

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

- Cet équipement est conforme aux limites d'exposition aux rayonnements d'ISED Canada établies pour un environnement non contrôlé.
- Déclaration d'exposition aux radiations:
Le produit est conforme aux limites d'exposition pour les appareils portables RF pour les Etats-Unis et le Canada établies pour un environnement non contrôlé.
Le produit est sûr pour un fonctionnement tel que décrit dans ce manuel. La réduction aux expositions RF peut être augmentée si l'appareil peut être conservé aussi loin que possible du corps de l'utilisateur ou que le dispositif est réglé sur la puissance de sortie la plus faible si une telle fonction est disponible. Ce dispositif a été testé pour la conformité avec les valeurs SAR à un fonctionnement typique près du corps. Pour assurer que les niveaux d'exposition aux radiofréquences en deçà des niveaux testés, utiliser des accessoires avec cet équipement pour maintenir une distance de séparation minimale de 2.5 cm entre le corps de l'utilisateur et l'appareil. Ces accessoires ne doivent pas contenir des composants métalliques. Il est possible que les accessoires utilisés près du corps qui ne répondent pas à ces exigences ne sont pas compatibles avec les limites SAR et il est conseillé d'éviter de les utiliser.

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

20-Ca-1

Disposal of Old Equipment and Batteries

Only for European Union and countries with recycling systems



These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries must not be mixed with general household waste. For proper treatment, recovery and recycling of old products and batteries, please take them to applicable collection points, in accordance with your national legislation.

By disposing of them correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment.

For more information about collection and recycling, please contact your local municipality. Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

Note for the battery symbol (bottom symbol)



This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

36-E-1

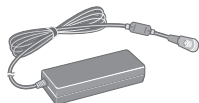
First-time Operation

■ Preparation

① Check and identify the supplied accessories.

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

• AC Adaptor. 1

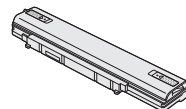


Model No: CF-AA5713A

• AC Cord 1



• Battery Pack . . . 1



Model No: CF-VZSU1C

• OPERATING INSTRUCTIONS - Read Me First (This book) 1

■ Latest Information on Windows 10

When Microsoft® Windows® 10 is updated, the screen display or operation procedures may be changed.

For the latest information on Windows 10, see the following web page.

<http://pc-dl.panasonic.co.jp/itn/addendum/>

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