Panasonic®

Operating Instructions
Tablet Computer

Model No. **FZ-X1** series

Thank you for purchasing a Panasonic product.
Please read this document carefully before using the product and keep this document in a safe place for future reference.

For detailed information about this product, refer to the Reference Manual, which is available by tapping **[Online Manual]** in the product's app list. (Download required.)

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Introduction

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 potential hazards that will result in serious injury or death.
⚠ **WARNING**	Denotes potential hazards that could result in serious injury or death.
⚠ **CAUTION**	Denotes potential hazards that could result in minor injury.
NOTICE	Denotes potential hazards 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 specific operating procedures that must not be performed.
❗	This symbol is used to alert users to specific operating procedures that must be followed in order to operate the product safely.
⚠	This symbol is used to alert users to specific operating procedures for which special attention is required.

⚠ WARNING

🚫	**When using the product for extended periods, do not expose your skin to the product or AC adaptor for a prolonged period.** Generated heat can cause low-temperature burns.
🚫	**Do not disassemble, repair, or modify the product.** These may cause electric shock or fire.
🚫	**Do not insert foreign objects into the product.** This may cause the battery to short circuit or overheat, which may result in fire or electric shock.
🚫	**Do not allow conductive metallic materials to touch the expansion bus connector.** This may cause a short circuit and overheating, which may result in rupture or fire.
❗	**Use only specified batteries.** Use of unspecified batteries may result in electrolyte leakage, overheating, rupture, or fire.
❗	**Use only specified AC adaptors.** Use of unspecified AC adaptors may result in overheating, fire, or rupture.
❗	**Stop using the product if any of the following occurs.** – Product emits smoke, unusual sound, or unusual smell – Water or foreign object enters the product – Product is damaged – Product becomes unusually hot Failure to do so may result in fire or electric shock. Turn the product off, disconnect it from the power supply, and then remove the battery. Contact your technical support representative for support or repair.

	Do not touch the product or cables during lightning storms if the product is connected to an AC adaptor. There is a remote chance of electric shock.
	Close the headset jack cover and interface cover when using the product near water or other liquids, and in areas with a high concentration of moisture, steam, dust, oily vapors, etc. Foreign material that enters the product may cause fire or electric shock. If foreign material enters the product, turn the product off, disconnect it from the power supply, and then remove the battery. Contact your technical support representative for support or repair.
	Keep SD cards out of the reach of infants and small children. Small objects are suffocation and choking hazards. In the event of accidental swallowing, seek medical help immediately.
	Keep SIM cards out of the reach of infants and small children. Small objects are suffocation and choking hazards. In the event of accidental swallowing, seek medical help immediately.
	Stop using the product immediately and consult your doctor if you feel any discomfort when staring at flashing lights on the screen. A very small percentage of individuals may experience seizures or blackouts when exposed to certain light patterns or flashing lights for extended periods.
	Do not use the product near automatic control equipment such as automatic doors, fire alarms, etc. RF signals generated by the product may interfere with the proper operation of such equipment.
	Do not leave any water droplets on the product. Water droplets may cause the DC input jack, micro USB port, or headset jack to short circuit.

	Do not puncture the product with a sharp object. This may cause overheating or fire.
	Do not turn the volume up too loud when using headphones. Listening at high volumes for extended periods may result in loss of hearing.
	Do not operate the product while walking, driving, riding a bicycle, etc. Being distracted while engaging in these kinds of activities can cause accidents or falls.
	Do not use headphones while driving or in potentially dangerous areas or situations. Your inability to hear the sounds around you can cause accidents. Take special care at rail crossings, station platforms, roads, construction sites, etc.
	For models with an optional barcode reader: **Do not look directly at the red beam for an extended period or point the barcode reader at another person's eyes.** This may damage the eyes.
	Clean dust and other debris on 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.
	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 expose the AC cord, AC adaptor, or the battery to water or other liquids.**
	Doing so may cause a short circuit, generation of heat, overheating, or rupture, which may result in a fire, electric shocks, and/or injury.
⊘	**Do not pull or insert the AC plug if your hands are wet.**
	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.
❗	**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.

⚠ CAUTION

❗	**If glass components are damaged, be careful of broken glass or internal components that may become exposed.**
	Failure to do so can cause injury.
⊘	**Do not place the product on an unstable surface.**
	The product may drop, resulting in injury.
❗	**Take a 10–15 minute break every hour when using the product.**
	Using the product continuously for extended periods may cause strain injuries and may have detrimental health effects on your eyes, hands, or other parts of your body.

$\oslash$	**Do not look directly at the flash or point it at another person's eyes.** This may damage the eyes or cause temporary loss of eyesight which could result in an accident.
$\oslash$	**Do not leave the product in extremely high temperature environments for an extended period.** Leaving the product where it will be exposed to extremely high temperatures, such as near fire or in direct sunlight, may deform the product or cause damage or malfunction to its internal components. Using the product in these conditions may cause short circuit, insulation defects, etc., which may in turn cause fire or electric shock.
$\oslash$	**Do not expose the skin to the product when using the product in hot or cold environments.** Burns, low-temperature burns, or frostbite may result. If direct contact with the skin is necessary, perform the operation as quickly as possible.
❗	**Turn down the volume before connecting headphones. After connecting the headphones, increase the volume gradually.** If you connect headphones when the volume is set too high, your ears may be exposed to excessively high volume which may damage your hearing.
$\oslash$	**Do not stack the product.** If balance is lost, the product may fall over or drop, resulting in an injury.
$\oslash$	**For models with an optional barcode reader:** **Do not look directly at the white beam for an extended period or point the barcode reader at another person's eyes.** This may damage the eyes.

	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.
	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. • Contact your technical support representative for support or repair.

NOTICE

Do not place objects on the surface of the product or press down hard on the product with sharp objects.
The screen surface could be scratched.

When in low-temperature environments, dry off the product if it becomes wet.
If the product becomes wet in temperatures of 0 °C or below, freeze damage may occur.

Confirm the safety and security of software before downloading or installing it on the product.
Installing malware or viruses can cause malfunction and the disclosure of any private information stored in the product, or may cause excessive sound volume.

Turn off the product before removing the SIM card or SD card.
Failure to do so can result in data loss or damage to the SIM card, the SD card, or the product.

Do not place the product near a television or radio receiver.
This may cause television or radio interference.

Battery

	⚠ **DANGER**
🚫	**The battery is for use solely with the specified product. Do not use it with any other products.** Overheating, fire, or rupture may result.
🚫	**Do not disassemble, modify, or insert sharp foreign objects into the battery.** Electrolyte leakage, overheating, fire, or rupture may result.
🚫	**Do not crush, bend, deform, puncture, shred, throw, or apply high pressure to the battery.** These may cause a short circuit, electric shock, electrolyte leakage, overheating, rupture, or fire.
🚫	**Do not use the battery if it becomes noticeably damaged or deformed.** Electrolyte leakage, overheating, smoke, rupture, or fire may result.
🚫	**Do not short the positive (+) and negative (–) contacts. Do not carry the battery around or store it together with necklaces, hairpins, etc.** Overheating, fire, or rupture may result.
🚫	**Do not throw the battery into a fire or expose it to excessive heat.** Overheating, fire, or rupture may result.

!	**Keep the battery away from extreme heat, such as fire and direct sunlight.** Electrolyte leakage, overheating, fire, or rupture may result.
!	**When charging the battery with a battery charger/cradle, use only the specified charger/cradle.** Overheating, fire, or rupture may result.

⚠ WARNING

⊘	**Do not subject the battery to strong impact, vibration, or rough handling.** This may cause electrolyte leakage, overheating, rupture, or fire.
⊘	**Do not charge the battery using methods other than those specified.** Improper battery use may cause electrolyte leakage, overheating, rupture, or fire.
!	**If electrolyte from the battery comes into contact with the eyes, skin, or clothing, rinse it off thoroughly.** Electrolyte may cause blindness if it comes into contact with the eyes. If contact occurs, flush the eyes with clean water and seek medical advice.
!	**If the battery smells or leaks electrolyte, keep the battery away from fire.** Overheating, fire, or rupture may result.
⊘	**Do not place the battery in microwave ovens or pressurized containers.** Sudden application of heat may damage the battery's case, resulting in electrolyte leakage, overheating, smoke, rupture, or fire.

Regulatory information

This product and your health

This product, like other radio devices, emits radio frequency electromagnetic energy. 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.

Information to the user

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 our authorized resellers or distributors are not liable for damage or violation of government regulations that may arise from failing to comply with these guidelines.

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 used 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.

Additional safety precautions

Posted facilities

- Turn off the product when in hospitals, health care facilities, or any facility where posted notices require you to do so. Hospitals and health care facilities may be using equipment that could be sensitive to external RF energy.

Pacemakers

- Medical device manufacturers recommend a minimum separation of 15 cm between a wireless device and an implanted medical device, such as a pacemaker or implanted cardioverter defibrillator, to avoid potential interference with the medical device.
- Persons with pacemakers:
  – Should ALWAYS keep this product more than 15 cm from their pacemaker when this product is turned ON;
  – Should use the ear opposite the pacemaker to minimize the potential for interference;
  – Should not carry this product in a breast pocket;
  – Should turn off the product immediately if there is any reason to suspect that interference is taking place.

Hearing aids

- Some digital wireless products may interfere with some hearing aids. In the event of such interference, consult the manufacturer of your hearing aid to discuss alternatives.

Other medical devices

- If you use any other personal medical device, consult the manufacturer of your device to determine if it is adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information.

Aircraft

- Turn off the product after boarding an aircraft, when instructed by flight staff. Obey instructions from flight staff regarding the use of the product in flight. Using this product in an aircraft may be hazardous to the aircraft's operation and disrupt wireless communication, and may also be illegal.

Potentially explosive atmosphere

- Turn off the product in areas where a potentially explosive atmosphere exists and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in injury or even death.

- Areas with potentially explosive atmosphere may include fueling areas, chemical plants, below deck on boats, fuel or chemical transfer or storage facilities, vehicles using petroleum or natural gas, or areas where the atmosphere contains particles such as grain, dust, or metallic powders, and any other area where you would normally be advised to turn off your vehicle engine.

Electronic devices

- This product receives and transmits radio frequency signals while switched on. Most electronic equipment is shielded from RF signals. However, certain electronic equipment may not be shielded against the RF signals from this product. Therefore, the use must be restricted in certain situations to avoid interference.

Driving

- Give full attention to driving. Driving safely is your first responsibility.
- Pull off the road and park before placing or answering a call. It is unsafe to operate the product while driving.
- Check the laws and regulations in the areas where you drive, and always obey them.
- Only qualified personnel should install the product in a vehicle. Check regularly that the product is securely mounted in your vehicle and operating properly.
- Do not place or install the product in the area over the air bag or in the air bag deployment area. If the air bag inflates, serious injury and/or damage could result.
- RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Consult the manufacturer (or its representative) of the vehicle and any equipment that has been added to the vehicle regarding the use of mobile products.
- Use hands-free operation, if available and legally permitted.

Emergency communications

- Never rely solely on a mobile product for essential or emergency communications. Network connections can be affected by

remaining battery level, radio signals, service networks, and other conditions, and as a result, emergency communications cannot be guaranteed in all conditions.

Antenna

- Do not replace the antenna. Unauthorized antennas, modifications, or attachments could damage the product.
- Do not touch or cover the antenna area while the product is on. Call quality, power levels, and the overall performance of the product may be affected.

Volume

- Do not turn the volume up too loud when using headphones and earphones.

> - Exposure to excessive sound pressure levels for extended periods may cause hearing damage.

- Being unable to hear sounds in your environment may lead to accidents.

AC adaptor

- The AC adaptor is used as the main disconnect device. Ensure that the AC outlet is installed near the product and is easily accessible.

Laser device caution

(for models with an optional barcode reader)

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.

This product is using lasers that comply with IEC60825-1:2007 regulations.

This product utilizes a "Class 2" laser.

Class 2 laser readers use a low power, visible diode. As with any very bright light source, such as the sun, the user should avoid staring directly into the light beam. Momentary exposure to a Class 2 laser is not known to be harmful.

Caution: Procedures other than those specified herein may result in hazardous radiation exposure.

Labeling and device location

Barcode reader

LASER RADIATION

DO NOT STARE INTO BEAM | 1 mW MAX 630-680 nm
CLASS 2 LASER PRODUCT | IEC60825-1:2007
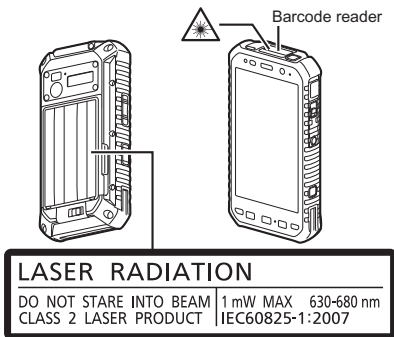
Intended use

- This product is not intended for use as, or as part of, nuclear equipment/systems, air traffic control equipment/systems, aircraft cockpit equipment/systems, medical devices or accessories[*1], life-support systems or other equipment/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 Class 2 Electrical Flight Bag (EFB) Systems and Class 1 EFB Systems when used during critical phases of flight (e.g., during take-off and landing) and/or mounted on to the aircraft. Class 1 EFB Systems and 2 EFB Systems are defined by FAA: AC (Advisory Circular) 120-76A or JAA: JAA TGL (Temporary Guidance Leaflets) No.36.
- *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.
- This product 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 product has been designed so as to minimize shock to the LCD, the leakage of liquid (e.g., water) on to the buttons, etc., but no warranty is provided against such trouble. Therefore, as a precision instrument, be extremely careful in the handling of the product.

General information

- For body-worn operation, this product has been tested when used with a Panasonic accessory designated for this product and when used with an accessory that contains no metal and that positions front or back of this product a minimum of 10 mm from the body.

Wi-Fi Use in European Economic Area and Switzerland and Turkey:

Operation of the device in the 5 GHz frequency band is restricted to indoor use only.

Caution

Risk of explosion if battery is replaced by an incorrect type.
Dispose of used batteries according to the instructions.

Interface Cable

• Use of an interface cable longer than 3 m is not recommended.

Explanation of graphical symbol on nameplate

$\sim$: Alternating current
=== : Direct current

For UK

For your safety, please read the following text carefully.

This appliance is supplied with a molded three pin mains plug for your safety and convenience.
A 3 ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 3 ampere and that it is approved by ASTA or BSI to BS1362.
Check for the ASTA mark ⟨ᴬ⟩ or the BSI mark ♥ on the body of the fuse.
If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the plug must not be used until a replacement cover is obtained. A replacement fuse cover can be purchased from your local dealer.
If the fitted molded plug is unsuitable for the socket outlet in your home then the fuse should be removed and the plug cut off and disposed of safely.
There is a danger of severe electrical shock if the cut off plug is inserted into any 13-ampere socket.

How to replace the fuse

The location of the fuse differs according to the type of AC mains plug (figures A and B).

Confirm the AC mains plug fitted and follow the instructions below. Illustrations may differ from actual AC mains plug.

Open the fuse cover with a screwdriver and replace the fuse and close or attach the fuse cover.

Figure A

Figure B

Fuse cover
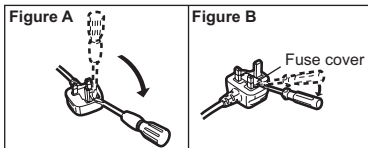
For Turkey / Turkiye icin.

AEEE complies with Directive of Turkey.
AEEE Yönetmeligine Uygundur.

Handling cautions

General use
- Use only specified accessories.
- This product has been tested to meet strict MIL-STD-810G standards (for vibration and shock), however, as with any portable devices, precautions should be taken to avoid any damage.
- To prevent liquids, sand, dust, or any foreign objects from entering the product, always keep the covers clean and make sure to firmly close them after opening. Take care not to get anything caught between the covers and product.
- The unit will become warm during use or while charging. This is not a malfunction.
  While taking usage conditions and safety into consideration, if the unit becomes hot, the unit may stop certain functions or restart. This is not a malfunction.
- If the product's operating system is upgraded, product functions and operating procedures may change and certain apps may not function any longer.
- It is illegal in many areas to record a call without permission. Always ask the other party for permission before recording a call.
- (For the model with the hand strap only)
  The hand strap may appear in images when using the hand strap while shooting with the camera. When shooting with the camera, adjust the position of the hand strap so that the hand strap does not enter the shooting range of the camera.

Battery
- The battery is a consumable item, and battery life varies with usage conditions. Typical battery life is approximately one year or about 500 charge cycles. As the battery reaches the end of its life, the amount of time it can be used becomes dramatically shorter and repeated charging does not restore its performance. When this occurs, the battery should be replaced with a new one. Contact your technical support representative.

- The battery may become warm during charging and during normal use. This is normal.
- Charge the battery in environments with an ambient temperature of 10 °C to 35 °C.
- Battery charging will not start if the internal temperature of the battery is below 0 °C or above 50 °C.
- The product prevents overcharging of the battery by charging only when the remaining battery power is less than approximately 95 % of its full capacity.
- If the product will not be used for an extended period (i.e., a month or more), charge or discharge (use) the battery until the remaining battery level becomes 30 % to 40 % and then store the product in a cool, dry place.
- Store the battery in environments with an ambient temperature of -20 °C to 35 °C. If the battery is stored in other environments, battery performance and battery life may be reduced.
- If battery charging is not completed after the specified charging time has passed, remove the battery from the unit. The battery protection device may be damaged.
- Do not touch the terminals of the battery. Failure to observe this may cause poor contact.
- If the terminals of the battery become clogged with foreign matter, it may be difficult to remove the foreign matter and may result in damage to the unit.
- When storing or transporting the battery, make sure that the battery's terminals do not become dirty and that no foreign objects or debris become attached to the battery's terminals.
- Dispose properly in compliance with local waste regulations.

Maintenance
- If the product becomes wet or dirty, wipe the affected areas with a soft cloth, then shake out the liquid from the product. Liquid that remains on the surface of the screen may cause staining.
- Do not dry the product with an appliance or heat source such as a microwave oven or dryer.

- For typical cleaning, wipe the product with a soft, dry cloth, such as gauze. An alcohol-based disinfectant may be used if necessary. You may also dip a soft cloth in water-diluted detergent and wring it thoroughly before wiping the product.
- Do not apply water or detergent directly to the product. Liquid may enter the product and cause malfunction or damage.
- Do not clean the product with agents that contain ester, strong alkaline, benzene, or thinner as they may harm the surface of the product and cause discoloration, etc. Do not use commercially-available household cleaners and cosmetics, as they may contain components that harm the surface of the product.

Extreme environments
- The product's internal heater, if enabled (page 50), will activate in order to warm the product when its temperature is -12 °C or colder.

Protecting your data
- To prevent accidental loss of data, we recommend that you keep a separate record of any important data that you store in the product, SIM card, and SD card.
- To prevent the unintended disclosure of private information, always confirm the destination before sending messages, file attachments, or any other communications, such as email.
- To prevent the unintended disclosure of sensitive information stored on the SD card, we recommend using the unit's SD card encryption feature to encrypt the SD card (see the Reference Manual (tap **[Online Manual]** in the app list) for more information).
- Before disposing of the product or handing the product over to a third party, remove the SIM card, SD card, and any other accessories.
- Before disposing of the product or handing the product over to a third party, perform a factory data reset (page 50) to erase any data stored in the product.
- Before using Wi-Fi or Bluetooth features, take appropriate action to secure your data.

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- Wi-Fi, the Wi-Fi logo, the Wi-Fi CERTIFIED logo and Wi-Fi CERTIFIED are trademarks or registered trademarks of Wi-Fi Alliance.
- All other trademarks identified herein are the property of their respective owners.

License information

- This product is licensed under the MPEG-4 patent portfolio license and AVC patent portfolio license for the personal use of a consumer or other uses in which it does not receive remuneration to (i) encode video in compliance with the MPEG-4 Visual Standard and AVC Standard ("MPEG-4/AVC Video") and/or (ii) decode MPEG-4/AVC Video that was encoded by a consumer engaged in a personal activity and/or was obtained from a video provider licensed to provide MPEG-4/AVC Video. No license is granted or shall be implied for any other use. Additional information may be obtained from MPEG LA, LLC. See http://www.mpegla.com.
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At least three (3) years from delivery of products, Panasonic Mobile Communications Co., Ltd. will give to any third party who contacts us at the contact information provided below, for a charge no more than our cost of physically performing source code distribution, a complete machine-readable copy of the corresponding source code covered under GPL v2 and LGPL. Additionally, we will give to any third party who contacts us at the contact information provided below, for a charge no more than our cost of physically performing source code distribution, a complete copy of the corresponding source code covered under EPL 1.0.

Contact Information

oss-cd-request@gg.jp.panasonic.com

Source code is also freely available to the public via the web site listed below.

https://panasonic.net/cns/oss/index.html

Please note that we cannot respond to any inquiries regarding the source code.

For more details on the relevant software (including license information of GPL v2, LGPL, and EPL 1.0), refer to the information displayed on the following screen: home screen → (:::) → [**Settings**] → [**About tablet**] → [**Legal information**].

- This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit.
  (http://www.openssl.org/)
- This product includes the Independent JPEG Group's software. This software is based in part on the work of the Independent JPEG Group.
- This product includes the software distributed under the terms of The FreeType Project License. This software is based in part of the work of the FreeType Team.
- This product includes other free software or open source software.
- For more details on the relevant software (including license information), refer to the information displayed on the following screen: home screen → (:::) → [**Settings**] → [**About tablet**] → [**Legal information**].

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TouchSense® Technology

Terms and illustrations in this document

- Panasonic Corporation and/or its affiliates are referred to collectively as "we" or "Panasonic".
- This product supports microSD, microSDHC, and microSDXC memory cards. In this document, the term "SD card" is used as a generic term for any supported memory card.
- This product supports micro SIM cards (certain models only). In this document, the term "SIM card" is used as a generic term for any supported SIM card.
- Some illustrations in this document are simplified to help your understanding and may look different from the actual product.
- Information in this document is subject to change without notice.
- For the latest information about optional products, refer to the product catalogs, etc.

Disclaimers

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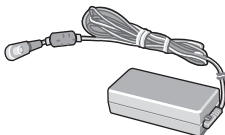
Getting Started

Confirming the included items

The following items are included. If any items are missing, please contact your technical support representative.
– **Main unit** ×1
– **Battery** ×1
– **Battery cover** ×1
(Certain models only)
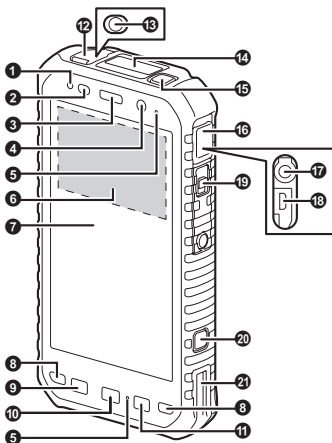– **AC adaptor** (Model number CF-AA6373A) ×1

– **AC cord**[*1] ×1

*1 Do not use the included AC cord with any products besides CF-AA6373A.

Description of parts

Front view

❶ Indicator
Orange, lit: Battery is charging
Green, lit: Battery charging is complete
Red, lit: Battery level is less than 15 % of a full charge

❷ Ambient light sensor, proximity sensor
The ambient light sensor automatically adjusts the screen brightness. The proximity sensor prevents accidental operations on the touch panel during phone calls.

❸ Earpiece

❹ Front camera

❺ Microphone

❻ NFC antenna (internal)
When using an NFC card or other NFC device, touch the card/device to this area of the unit.

❼ Display
Can also be operated while using gloves (glove touch mode).

❽ Speaker

❾ Application button [A1] (page 43)

❿ Application button [A2] (page 43)

⓫ Application button [A3] (page 43)

⓬ Headset jack cover (page 32)

⓭ Headset jack

⓮ Barcode reader (certain models only)

⓯ Power button (page 41)

⓰ Interface cover (page 33)

⓱ DC input jack (page 40)

⓲ micro USB port (page 40)

⓳ Interface cover lock switch

⓴ Camera button (page 43)

㉑ Cradle rail
Used when connecting the unit to an optional cradle.

Rear view

The battery cover and battery are omitted in this illustration.
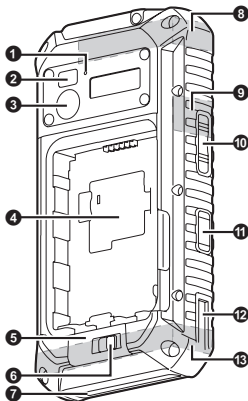
❶ Microphone

❷ Flash

Can be used when taking pictures. Also lights if you open the battery cover while the unit is turned on.

❸ Rear camera

❹ Card access cover

❺ Cover latch

❻ Cover latch lock switch

❼ Expansion bus connector

Used when connecting an optional cradle or other future expansion options.

❽ GPS antenna (internal)

⑨ **Wi-Fi, Bluetooth antenna** (internal)
⑩ **Volume buttons**
⑪ **Side button** (page 43)
⑫ **Cradle rail**
Used when connecting the unit to an optional cradle.
⑬ **Cellular antenna** (internal)

Opening and closing the headset jack cover
Pull the top edge of the cover (i.e., the edge closest to the front of the unit) to open the cover. When closing, make sure the cover is closed firmly.

<u>IMPORTANT</u>
- Observe the following to ensure the waterproof and dustproof performance of the unit.
  - Make sure the headset jack cover is securely closed when the headset jack is not being used.
  - When closing the headset jack cover, make sure there is no debris lodged in and around the cover.

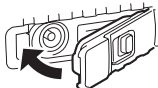## Opening and closing the interface cover

Opening the interface cover
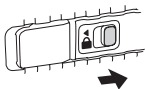
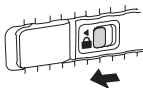**1.** Unlock the cover by sliding the switch away from 🔒.
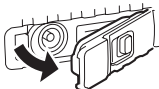
2. Open the cover by pulling the top edge of the cover (i.e., the edge closest to the top of the unit) away from the unit.

**Closing the interface cover**

1. Close the cover firmly.

2. Lock the cover by sliding the switch toward 🔒. If the red area inside the switch is visible, the cover is not properly locked.

IMPORTANT

- Observe the following to ensure the waterproof and dustproof performance of the unit.
    - Make sure the interface cover is securely closed and locked when the DC input jack and micro USB port are not being used.
    - When closing the interface cover, make sure there is no debris lodged in the gasket that seals the cover.

Removing the battery cover

1. Unlock the cover latch by sliding the switch (circled in the illustration) away from 🔒 (①), and then open the cover latch by sliding it toward ▼ (②).
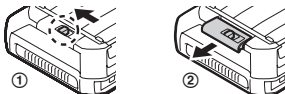

2. While holding the bottom corners of the battery cover (circled in the illustration), lift the battery cover (①) and then remove the cover (②).
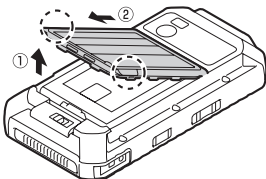
Attaching the battery cover

1. Insert the tabs on the battery cover into the corresponding slots in the battery chamber (①), and then lower the battery cover into place (②).
   - The edge of the battery cover with two tabs (circled in the illustration) should face the bottom of the unit.
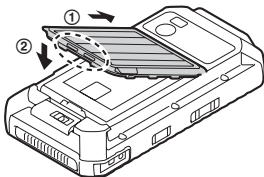

2. Press down firmly on the outside edges of the battery cover to seal it closed.
   - Start in the middle of the cover and work your way down to the bottom, pressing in the areas shown.
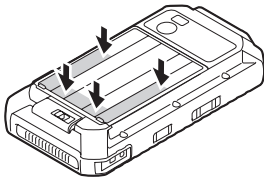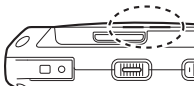
3. Make sure that the battery cover is properly sealed.
  - Two red lines are painted on the inside edges of the battery cover. If the red lines (circled in the illustration) are visible from the side of the unit after the battery cover is closed, the cover is not properly sealed.
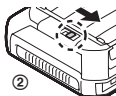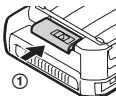
  Example: left side of unit
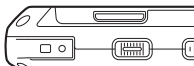
Properly sealed   Not properly sealed

4. Close the cover latch (①) and lock it (②) by sliding the switch (circled in the illustration) toward 🔒.


  - If the red area above the latch or inside the switch is visible, the latch is not properly closed or locked.

IMPORTANT
- Observe the following to ensure the waterproof and dustproof performance of the unit.
  - Always make sure the battery cover is securely closed and locked.
  - When closing the battery cover, make sure there is no debris lodged in the gasket that seals the cover.

Installing a SIM card (certain models only)

1. Remove the battery cover (page 34) and battery if necessary.
   • To remove the battery, lift the battery by pulling on the yellow tab and then remove the battery.
2. Open the card access cover.
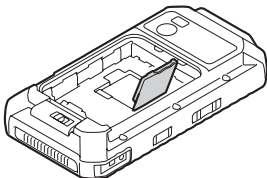
3. Insert the SIM card into the micro SIM card slot.
   • Install only micro SIM cards. Do not attempt to install full-size SIM cards.
   • Do not use the micro SIM card adapter.
   • Hold the SIM card so that the terminal surface is facing down, with the notch in the position circled here.
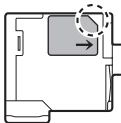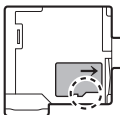

   • Do not insert the micro SIM card anywhere except MicroSIM Slot 1.
4. Push the SIM card fully into the slot until you hear a click.
   • When removing a SIM card, push it slightly into the unit to eject it.

Installing an SD card

1. Remove the battery cover (page 34) and battery if necessary.
   - To remove the battery, lift the battery by pulling on the yellow tab and then remove the battery.
2. Open the card access cover.
3. Insert the SD card into the SD card slot.
   - Install only microSD cards. Do not attempt to install SD cards of other sizes.
   - Hold the SD card so that the terminal surface is facing down, with the notch in the position circled here.


4. Push the SD card fully into the slot until you hear a click.
   - When removing an SD card, push it slightly into the unit to eject it.

Installing the battery

1. Remove the battery cover (page 34) if necessary.
2. Insert the terminal end of the battery into the battery chamber.
   • Insert the battery so that the battery label and the yellow tab are facing up, and that the terminals on the battery line up with the terminals inside the battery chamber.
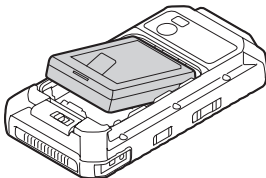
3. Lower the battery into the battery chamber.
   • To remove the battery, lift the battery by pulling on the yellow tab and then remove the battery.

Charging the battery

You can charge the unit by connecting it to a power outlet using an AC adaptor (page 57), and also by connecting it to the USB port of a computer or other device using a USB cable.
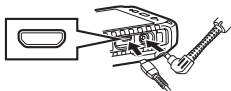
The indicator lights in orange while the battery is charging, and lights in green when charging is complete.

Connect the AC adaptor and power cord as shown in the illustration below.
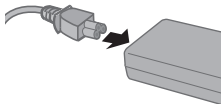
Note
- When connecting a USB cable, note the shape of the micro USB plug and the micro USB port. Do not attempt to connect the USB cable upside down.
- Remove any dust or water droplets from plugs before connecting them. Do not use excessive force when inserting plugs or insert them at an angle.
- If the installed battery fails the unit's battery authentication test, the battery cannot be charged.

Confirming the battery level
The battery level is displayed in the upper-right corner of the screen, in the status bar.

| Fully charged | Charging | Very low |

You can also confirm the specific amount of battery level remaining. From the home screen, tap (:::) → **[Settings]** → **[Battery]**.

Turning the unit on and off

Turning the unit on

Press and hold (¹) (power button) on the top of the unit until the unit briefly vibrates.

Note

- We recommend that you fully charge the battery before turning on the unit for the first time or after an extended period of storage.
- If the unit's temperature is -12 °C or less when you try to turn the unit on, the indicator flashes in orange and the unit will not turn on. When the unit warms up, the indicator will stop flashing and the unit will turn on automatically.

Turning the unit off

1. Press and hold (¹) until the power options dialog is displayed.
2. Select the power off option.

Turning the screen on and off

Press (¹).

Configuring the unit for the first time

The first time you turn the unit on, you will be prompted to configure different settings. Follow the on-screen instructions and configure each item as needed. An Internet connection is required to configure certain items.

Home screen, status bar, notifications

Using the home screen

The home screen is the main screen from which you can launch apps, check widgets, etc. You can customize the home screen to suit your needs by adding, moving, and removing items as desired. You can also view a list of all installed apps by tapping (⊞). While the screen is on, you can display the home screen at any time by tapping ⌂ or **A2** (default setting).

Using the status bar

The status bar is displayed at the top of the screen when using most apps. It displays icons that let you know the status of the battery, network signal, and other features.

Using the notifications panel

The notifications panel provides detailed information about incoming email messages, app updates, calendar events, etc. You can open the notifications panel by sliding your finger down slowly from the top of the screen toward the center of the screen. To close the notifications panel, slide your finger up slowly from the bottom of the screen toward the center of the screen. While the notifications panel is open, you can tap a notification and open the corresponding app, or flick a notification left or right to delete it from the panel.

See the Reference Manual (tap **[Online Manual]** in the app list) for a list of commonly used icons and their meanings.

Navigation and function buttons

The navigation buttons are available in most screens and help you navigate the unit's screens. They appear at the bottom or side of the touch panel screen, depending on the unit's orientation.

← Returns to the previous screen or closes the current dialog box, menu, etc.

⌂ Displays the home screen.

▭ Displays a list of recently used apps. Once the list is displayed, tap an app to launch it, or flick left or right to remove an app from the list.

The unit also features physical buttons that can be used to access various functions quickly. Some buttons can be customized using the **[UserButtonManager]** app; see the Reference Manual (tap **[Online Manual]** in the app list) for more information. The default button assignments are described below. Additional features are available when pressing and holding the buttons.

A1	The same function as ←.
A2	The same function as ⌂.
A3	Displays the list of options (if available) for the current screen.
Side button	For models with an optional barcode reader: Starts scanning the barcode. Release the button to stop scanning. For other models: Confirm the assignment using the **[UserButtonManager]** app.
Camera button	Press and hold to launch the camera app. When using the camera app, press this button to take a picture, start and stop video recording, etc.

Troubleshooting

If you experience any trouble while using the unit, refer to the information in this section for troubleshooting. See the Reference Manual (tap **[Online Manual]** in the app list) for additional troubleshooting information.

Starting up

The unit does not turn on.
- To turn the unit on, press and hold ⏻ (power button) until the unit briefly vibrates.
- The battery may have become completely discharged. Charge the battery.
- The unit may be too hot. Leave the unit in an environment of 10 °C to 35 °C for about an hour, and then try again.
- The unit may be too cold. Leave the unit in an environment of 10 °C to 35 °C for about an hour, and then try again. After turning on the unit, you can enable the heater so that it will turn on automatically if the unit becomes too cold. See "Enabling the internal heater" (page 50).

The unit does not wake up from sleep.
- The battery may have become completely discharged while the unit was in sleep mode. In this case, any data which has not been saved will be lost, and the unit will not wake up. Charge the battery.
- The unit may be too hot. Leave the unit in an environment of 10 °C to 35 °C for about an hour, and then try again.
- The unit may be too cold. Leave the unit in an environment of 10 °C to 35 °C for about an hour, and then try again. After turning on the unit, you can enable the heater so that it will turn on automatically if the unit becomes too cold. See "Enabling the internal heater" (page 50).

Nothing appears on the screen.
- The screen may have turned off to save power. Press ⏻ (power button).
- Charge the battery.
- Install the battery correctly.
- Replace the battery with a fully-charged one.
- The screen is too dark. See "The screen is too dark." (page 46).

Other startup problems
- Disconnect and remove all peripheral devices.

Shutting down

The unit does not turn off.
- It may take one or two minutes for the unit to turn off. This is not a malfunction.
- Press and hold ⏻ (power button) for at least 10 seconds to force the unit to restart, and then try again.
- Disconnect and remove all peripheral devices.

Screen

There are red, green, or blue dots on the screen, or there is unevenness in screen colors or brightness.
- The following are not malfunctions.
  - Although advanced high-precision technologies are used in the production of color LCD screens, a very small number of the screen pixels may be dark or remain constantly lit.
  - Due to the natural characteristics of LCD screens, you may notice unevenness in colors and brightness depending on your angle of view. Hues may also vary by product.

The screen is too dark.

- The **[Automatic brightness]** setting reduced the brightness according to the ambient brightness. Manually adjust the screen brightness.
  1. From the home screen, tap ⊞ → **[Settings]** → **[Display]** → **[Brightness]**.
  2. Turn off the **[Automatic brightness]** checkbox.
  3. Adjust the slider and then tap **[OK]**.
- The **[Minimum limit brightness]** setting was turned on. Turn the setting off.
  1. From the home screen, tap ⊞ → **[Settings]** → **[Display]** → **[Brightness]**.
  2. Turn off the **[Minimum limit brightness]** checkbox and then tap **[OK]**.
- The **[Minimum limit brightness]** setting was enabled when customized silent mode was turned on. Disable the setting.
  1. From the home screen, tap ⊞ → **[Settings]** → **[Sound]** → **[Silent mode]**.
  2. Tap ⇄ next to **[Customized silent]**.
  3. Turn off the **[Minimum limit brightness]** checkbox and then tap **[OK]**.

Indicator

The indicator flashes in orange.

- The battery cannot be charged temporarily because the ambient temperature is too low or too high. Leave the unit in an environment of 10 °C to 35 °C for about an hour.
- The unit cannot turn on because the unit's temperature is -12 °C or less. While the indicator flashes in orange, the heater will try to heat the unit if it is enabled. Once the unit warms up, the indicator will stop flashing and the unit will turn on automatically.

The indicator lights in red.

- The remaining battery level is approximately less than 15 % of a full charge. Charge the battery.

The indicator flashes in red.
- Battery authentication failed. Use a battery specified on page 57.
- There may be debris lodged in the battery charge terminals. Remove the battery and remove any debris found.
- Charging may have stopped automatically after a preset amount of time passed. Disconnect the AC adaptor, reconnect it, and then turn on the unit. If the problem persists when charging, contact your technical support representative.

The indicator does not light during charging.
Battery charging ends quickly, or the battery cannot be charged at all.
- The AC adaptor cable or USB cable is not connected properly. Confirm all connections, remove the AC adaptor cable or USB cable, and then insert it again. Make sure the AC adaptor plug or micro USB plug is inserted fully into the unit.
- There may be debris lodged in the battery charge terminals. Remove the battery and remove any debris found.
- Replace the battery with a new one.

Other

The date and time are incorrect.
- Confirm the date and time settings. From the home screen, tap $(\text{:::}) \rightarrow$ **[Settings]** $\rightarrow$ **[Date & time]**.
- Set the date and time automatically.
  1. From the home screen, tap $(\text{:::}) \rightarrow$ **[Settings]** $\rightarrow$ **[Date & time]**.
  2. Turn on the **[Automatic date & time]** and **[Automatic time zone]** (certain models only) checkboxes.
  3. Make sure the unit is in an area with good wireless reception, turn the unit off, and then turn it on again.
- The unit will not recognize dates after January 18, 2038.

The unit's operation is slow.
• Ambient temperature may be too low or too high. Leave the unit in an environment of 10 °C to 35 °C for about an hour and then try again.

The unit does not respond.
• Turn the unit off and then on again (page 41).
• If an app does not work normally, follow the instructions below to force quit or uninstall the problematic app or process.
  1. From the home screen, tap ⊞ → **[Settings]** → **[Apps]**.
  2. Select the desired app or process and then tap **[Force stop]** or **[Uninstall]**.

The screen freezes and no operations can be performed.
• Press and hold ⏻ (power button) for at least 10 seconds to force the unit to restart, and then try again.

Appendix

Replacing the battery

Place the unit on a flat, stable surface such as a table when replacing the battery.
1. Turn off the unit (page 41).
2. Remove the battery cover (page 34).
3. Lift the battery by pulling on the yellow tab, and then remove the battery.
4. Install the replacement battery (page 39).
5. Attach the battery cover (page 35).

Hot swapping the battery
The unit supports "hot swap" battery replacement, which allows you to replace the unit's battery without turning the unit off.
1. Press and hold ⏻ (power button) until the power options dialog is displayed.
2. Tap **[Battery hot swap]**.
3. Follow the on-screen instructions.
4. Replace the battery.

Enabling the internal heater

If enabled, the unit's internal heater will activate in order to warm the product when its temperature is -12 °C or colder.

1. From the home screen, tap (⠿) → **[Settings]** → **[Heater]** → **[Heater operation]**.
2. Select **[Auto]** or **[Off]**.

Factory data reset

CAUTION
- The following procedure resets all settings and erases any data you have stored in the unit. Back up important data before performing this procedure.

1. From the home screen, tap (⠿) → **[Settings]** → **[Backup & reset]**.
2. Tap **[Factory data reset]** → **[Reset tablet]** → **[Erase everything]**.
   - The unit restarts when the factory data reset is complete.
   - All data in the /mnt/sdcard folder will be erased. Data stored on the SD card will not be erased.

Specifications

Typical unit specifications and certain options are described below. Unit configuration may vary.

Model No.	FZ-X1
CPU	Qualcomm® APQ8064T 1.7 GHz quad-core CPU
Memory	2 GB[*1]
Storage	32 GB
Display	**Internal LCD** 5-inch, 1280×720 pixels (HD), 16:9 aspect ratio, 16,777,216 colors
Wi-Fi	IEEE802.11 a/b/g/n/ac Qualcomm® WCN3680 **Data transfer rate** IEEE 802.11a: up to 54 Mbps IEEE 802.11b: up to 11 Mbps IEEE 802.11g: up to 54 Mbps IEEE 802.11n: • HT20: up to 72.2 Mbps • HT40: up to 150 Mbps IEEE 802.11ac: • VHT20: up to 86.6 Mbps • VHT40: up to 200 Mbps • VHT80: up to 433 Mbps **Standards supported** IEEE 802.11a / IEEE 802.11b / IEEE 802.11g / IEEE 802.11n / IEEE 802.11ac

Wi-Fi	**Transmission method** OFDM system, DSSS system **Wireless channels used** IEEE 802.11a / IEEE 802.11n (5 GHz) / IEEE 802.11ac • W52 (36, 38, 40, 42, 44, 46, 48 ch) • W53 (52, 54, 56, 58, 60, 62, 64 ch) • W56 (100, 102, 104, 106, 108, 110, 112, 116, 118, 120, 122, 124, 126, 128, 132, 134, 136, 140 ch) IEEE 802.11b / IEEE 802.11g / IEEE 802.11n (2.4 GHz): 1 ch - 13 ch **RF frequency band** 2.4 GHz Band: 2412 MHz - 2472 MHz 5 GHz Band: 5180 MHz - 5320 MHz, 5500 MHz - 5700 MHz
Bluetooth	Version 4.0, Class 1 **Transmission method** FHSS system **Wireless channels used** 1 - 79 ch (Low energy: 0 - 39 ch) **RF frequency band** 2400-2483.5 MHz (including guard bands)
Mobile networking (certain models only)	LTE, HSPA+, UMTS, EDGE, GPRS, GSM **SIM card slot** micro SIM card slot ×1
Sound	**Speaker** Loud volume speaker (mono) ×2 **Microphone** Internal microphone ×3
Security technology	ARM® TrustZone® (built-in)

Camera	**Front** 1.3 megapixels Video: 1280×720 pixels, 30 fps Still: 1280×960 pixels **Rear** 8 megapixels Video: 1280×720 pixels, 30 fps Still: 3264×2448 pixels
GPS	GPS 2 m CEP50 (±2 m to 4 m), GLONASS
Barcode reader (certain models only)	1D, 2D compatible
Enhanced data security	FIPS 140-2 level-1 compliant
Sensors	Ambient light sensor, digital compass, gyro sensor, acceleration sensor, proximity sensor
NFC	Type A, B, FeliCa compatible
Card slots	**SD memory card** micro SDXC card slot ×1[*2]
Interfaces	USB 2.0 port ×1[*3], gadget interface, headset ×1, cradle interface ×1
Touchscreen	10-point capacitive touchscreen with glove touch mode and rain sensing touch mode[*4]
Power supply	Battery
AC adaptor	CF-AA6373A (60 W)[*5]

Battery	Li-ion 3.8 V, 6200 mAh **Operating time** (approx.)[6] Standby: 1000 hours Talk: 23 hours[7] Barcode scanning[8]: 20.5 hours **Charging time** (approx.)[9] When unit is on: 3 hours When unit is off: 3 hours
Power consumption[10]	Approx. 18 W[11]
Battery hot swap	Yes
Dimensions (W × D × H)	87.4 mm × 165 mm × 30.9 mm without protrusions
Weight[12]	Approx. 426 g[13], including battery
Operating environment[14]	**Temperature** -20 °C to 60 °C **Humidity** 30 % to 80 % RH
Storage environment	**Temperature** -30 °C to 70 °C **Humidity** 30 % to 90 % RH
Operating system[15]	Android 4.2.2
Water and dust resistance	IP65, IP68

Specifications are subject to change without notice.

*1 1 MB = 1,048,576 bytes, 1 GB = 1,073,741,824 bytes
*2 Operation has been tested and confirmed using the following Panasonic brand memory cards: SD (up to 2 GB), SDHC (up to 32 GB), SDXC (up to 64 GB). Compatibility with other SD devices is not guaranteed.
*3 Does not guarantee operation of all USB-compatible peripherals.
*4 Single-point operation when rain sensing touch mode is enabled.
*5 The AC adaptor is designed for use with power sources that supply up to 240 V AC.
*6 Actual performance varies depending on usage conditions, connected peripherals, etc. Typically, operating time is reduced in colder environments.
*7 Talk time may vary depending on the condition of the mobile network.
*8 As defined by the JEITA Specification, Working Mode B.
*9 Varies depending on usage conditions.
*10 When the battery is fully charged (or not being charged) and the unit is off.
*11 Rated power consumption.
*12 Average weight. Actual weight may vary by unit configuration.
*13 For models without an optional barcode reader. Weight for models with an optional barcode reader is 432 g.
*14 Do not expose the skin to this product when using the product in a hot or cold environment.
    When using the product in hot or cold environments, some peripherals may not perform properly. Confirm the recommended operation environment of the peripherals.
    Using the product continuously in hot environments will shorten the product life. Avoid continuous use in these types of environments.
    When using the product in cold environments, the product may take longer to start up and battery operation time may be reduced.

Even when using the product within the temperature and humidity ranges listed here, using the product continuously in extreme environments will result in product deterioration and will shorten the life of the product.

*15 Product functionality cannot be guaranteed if the operating system is modified or replaced by the user or a third party.

Accessories

Product name	Model number
AC Adaptor	CF-AA6373A
Battery Pack	FZ-VZSUX100J
Cradle	FZ-VEBX111U
4-Bay Cradle	FZ-VEBX121
4-Bay Battery Charger	FZ-VCBX111
Holster	FZ-VSTX111U

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