



Panasonic[®]

Operating Instructions Basic Guide

Tablet Computer

Model No. **FZ-N1** series

Thank you for purchasing a Panasonic product.

For optimum performance and safety, please read these instructions carefully.

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

Regulatory information

For USA

FCC RF exposure information

The highest SAR value for this product as reported to the FCC when tested for use at the ear is listed below:

FCC ID	Highest value (W/kg)
ACJFZN1C	0.19

And when worn on the body, is listed below:

FCC ID	Highest value (W/kg)
ACJFZN1C	1.17

For Canada / Pour le Canada

RF exposure information

The highest SAR value for this product as reported to the IC when tested for use at the ear is listed below:

IC	Highest value (W/kg)
216A-FZN1C	0.19

And when worn on the body, is listed below:

IC	Highest value (W/kg)
216A-FZN1C	1.17

Information sur l'exposition aux radiofréquences (RF)

La valeur de DAS la plus élevée obtenue pour ce produit, telle que rapportée à l'IC lors des essais pour une utilisation près de l'oreille, est telle que décrite ci-dessous :

IC	Valeur la plus élevée (W/kg)
216A-FZN1C	0.19

Et avec l'appareil porté sur soi, la valeur est telle que ci-dessous :

IC	Valeur la plus élevée (W/kg)
216A-FZN1C	1.17

Handling cautions

General use

- Operating environment

Temperature: Operation: -10 °C to 50 °C {14 °F to 122 °F}
(IEC60068-2-1, 2)^{*1}

Storage: -30 °C to 70 °C {-22 °F to 158 °F}

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

Storage: 30 % to 90 % RH (No condensation)

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

Also, when using the product in cold environments, the product may take longer to start up and battery operation time may be reduced.

If the product is wet in temperatures of 0 °C {32 °F} or below, freeze damage may occur. Make sure to dry off the computer in such temperatures.

^{*1} Do not directly touch this product with your bare hands when using it in a hot or cold environment.

- Do not place the product in the following areas, as doing so may damage the product.
 - Near electric appliances. The image may be distorted or noise may occur.
- This product is designed to reduce physical shock applied to the LCD and internal electrical components. However, protection against malfunction due to such shock is not guaranteed. As with any portable device, precautions should be taken to avoid any damage.
- When operating the screen using the dedicated stylus (sold separately), do not firmly press it down. Doing so may damage the dedicated stylus or result in scratches or dents on the screen.
- Do not place objects on the surface of the product or press down hard on the product with sharp objects. The screen surface may get scratched.

- Do not scratch the rear camera or flash panel.
- Do not use the dedicated stylus when dust or dirt (e.g., oil) is on the screen. Otherwise foreign particles on the screen/dedicated stylus may scratch the screen surface or obstruct operation of the dedicated stylus.
- Use the dedicated stylus only for touching the screen. Using it for any other purpose may damage the dedicated stylus and result in scratches on the screen.
- 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 SD card. Failure to do so can result in data loss or damage to the SD card or product.
- Do not place the product near a television or radio receiver. This may cause television or radio interference.
- Keep the product away from magnets. Failure to do so may cause malfunction.
- It is illegal in many areas to record a call without permission. Always ask the other party for permission before recording a call.
- Follow these instructions and the Reference Manual to avoid any damage to the devices. Carefully read the instruction manuals of the peripheral devices.
 - Use peripheral devices that conform to the product's specifications.
 - Connect to the connectors in the correct direction.
 - If a connector is hard to insert, do not try forcibly. Check its shape, direction, alignment of pins, etc.

Fingerprint sensor

- Do not scratch the fingerprint sensor.
- If the fingerprint sensor is dirty or there are water droplets on the surface, wipe it with a dry, soft cloth. Failure to do so will make fingerprints difficult to read and decrease authentication capabilities or cause malfunctions.

Protecting your data

- To prevent accidental loss of data, we recommend that you back up any important data that you store in the product 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 in the SD card, we recommend using the product's SD card encryption feature to encrypt the SD card (see the Reference Manual for more information).
- Before disposing of the product or handing the product over to a third party, remove the 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 28) to erase any data stored in the product.
- Before using Wi-Fi or Bluetooth features, take appropriate action to secure your data.

Waterproof/dustproof

- The product is waterproof/dustproof when the interface cover and headset jack cover are closed, and the battery and battery cover are attached. Therefore, keep water and dust away from product's internal components, accessories, and optional products.
- To prevent liquids, sand, dust, or any foreign objects from entering the product, always keep the battery cover and battery clean and make sure to firmly close the cover after opening. Take care not to get anything caught between the cover or battery and the product.
- If the product is exposed to water droplets, wipe them off with a dry, soft cloth and shake the product to remove the water droplets. Next, remove the battery cover, and shake the product while holding down the battery so that it does not detach to remove the water. Then, with the battery still attached, wipe off the water droplets on the battery and back side of the battery cover, and dry thoroughly.
- Do not leave any water droplets on the product. Water droplets may cause the micro USB port or headset jack to short circuit, or create smears on the screen.

- If the product is wet, wipe off the moisture before connecting with peripheral devices.
- Do not dry the product with an appliance or heat source such as a microwave oven or dryer.
- Accessories
Do not use in the rain or in very humid places such as bathrooms because the accessories are not waterproof/dustproof. Stop use if they are worn on the body, because the inside may corrode due to humidity from sweat and cause malfunction.

Maintenance

- When cleaning the product, make sure to turn it off.
- When cleaning the product, wipe it with a soft, dry cloth. An alcohol-based disinfectant may be used if necessary.
 - If the product is particularly dirty, thoroughly wring a cloth soaked in water, wipe off the dirt, and then wipe with a dry cloth.
 - Do not clean the product with solvents such as benzene, thinner, or strong alkaline detergent because they may affect the surface of the product.

Battery

- The battery is a consumable item. Depending on the usage conditions, it may swell as it reaches the end of its life. When the typical battery life of approximately one year or about 500 charge cycles is exceeded, the battery deteriorates. If the battery begins to swell, or the amount of time it can be used after a full charge becomes dramatically shorter, the battery should be replaced with a new one. Contact your technical support representative.
- Do not touch the terminals of the battery. Failure to observe this may cause poor contact.
- When the battery is left installed in the product, it discharges electricity gradually in small amounts even if the product's power is off. If left for a long period (several months or more), the battery will over discharge and its performance may deteriorate.

- Store the battery in environments with an ambient temperature of -20 °C to 35 °C (-4 °F to 95 °F). If the battery is stored in other environments, battery performance and battery life may be reduced.
- 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.
- If battery charging is not completed after the specified charging time has passed, remove the battery from the product. The battery protection device may be damaged.
- You cannot charge an installed battery if it is not recognized by the product. Make sure that you use the specified battery.

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.
- Some illustrations in this document may look different from the actual product. Also, the details of the descriptions may vary due to differences between the software versions or automatic updates of some software.
- Information in this document is subject to change without notice.
- For the latest information about optional products, refer to the product catalogs, etc.

Disclaimers

Panasonic shall not be liable for loss of data or other incidental or consequential damages resulting from the use of this product. This product can download, store, forward, and receive additional content, such as applications, ringtones, contact information, and media files. The use of such content may be restricted or prohibited by the rights of third parties, including but not limited to restriction under applicable copyright laws. You are entirely responsible for additional content that you download to or forward from this product; Panasonic is not responsible for such content or its use. Before using such content, it is your responsibility to verify that your intended use is properly licensed or is otherwise authorized. Panasonic does not warrant or guarantee the accuracy, integrity or quality of any additional content or any other third-party content. Under no circumstances will Panasonic be liable in any way for the improper use of additional content or other third-party content by this product or its operator. This document and any related product documentation may refer to services and applications that are provided by third parties. The use of such services or programs may require separate registration with the third party provider and may be subject to additional terms of use. For applications accessed on or through a third-party web site, please review the web sites' terms of use and applicable privacy policy in advance. Panasonic does not warrant or guarantee the availability or performance of any third-party web sites, services, or applications. Fingerprint authentication technology does not guarantee perfect personal authentication and identification. We will not assume any responsibility for damage resulting from using or not being able to use fingerprint authentication. We appreciate your understanding.

Getting Started

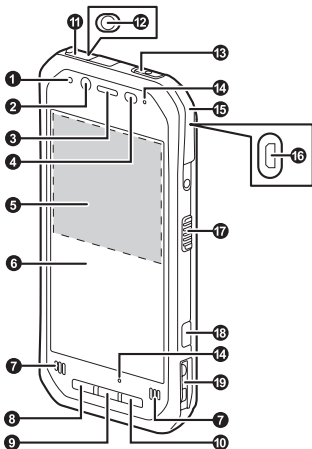
Confirming the included items

If any items are missing, please contact your technical support representative.

- **Main unit** ×1
- **Battery (Model number FZ-VZSUN110U)** ×1
- **Operating Instructions - Read Me First** ×1

Description of parts

Front view



- 1 Indicator**
Orange, lit: Battery is charging
Green, lit: Battery charging is complete
Red, lit: Battery level is less than 15 % of a full charge
- 2 Front camera**
- 3 Earpiece**

4 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.

5 NFC antenna (internal)

When using an NFC card or other NFC device, touch the card/device to this area of the unit.

6 Display (touch panel)

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

7 Speaker

8 Application button [A1] (page 27)

9 Application button [A2] (page 27)

10 Application button [A3] (page 27)

11 Headset jack cover (page 15)

12 Headset jack

13 Power button (page 25)

14 Microphone

15 Interface cover (page 16)

16 micro USB port

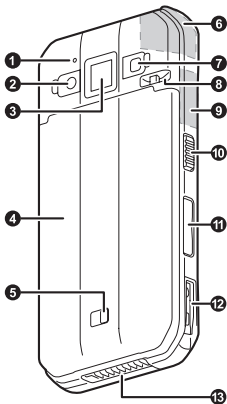
17 Side button (page 27)

18 Camera button (page 27)

19 Cradle rail

Used when connecting the unit to an optional cradle, etc.

Rear view



- ❶ Microphone
- ❷ Rear camera
- ❸ Fingerprint sensor
- ❹ Battery cover
- ❺ Battery lock lever
- ❻ GPS antenna (internal)
- ❼ Flash
Can be used when taking pictures.
- ❽ Strap attachment hole
- ❾ Wi-Fi, Bluetooth antenna (internal)
- ❿ Side button (page 27)
- ⓫ Volume buttons

12 Cradle rail

Used when connecting the unit to an optional cradle, etc.

13 Expansion bus connector

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

Opening and closing the headset jack cover

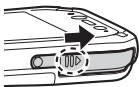
Pull back at the protrusion of the headset jack cover with your fingertip. When closing, make sure the cover is closed firmly.

IMPORTANT

- 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. Slide in the direction of the arrow at the protrusion (circled in the illustration above) with your fingertip.

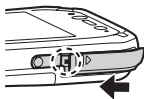


2. Pull back the cover and rotate it downward.

Closing the interface cover



1. Rotate the cover upward and insert it to its original position.




2. Firmly slide in the direction of the arrow until the red area (circled in the illustration above) of the cover is no longer visible.

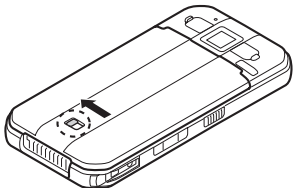
IMPORTANT

- 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 micro USB port is not being used.
 - When closing the interface cover, make sure there is no debris lodged in the gasket that seals the cover.

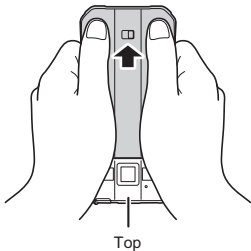
Removing and attaching the battery cover

Removing the battery cover

1. Slide the battery lock lever (circled in the illustration) in the direction of .

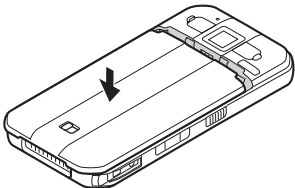


- Slide the battery cover by firmly placing your hands as shown in the illustration.
 - When removing the battery cover, be careful so that you do not drop the battery.

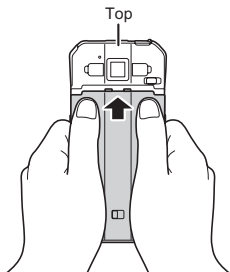



Attaching the battery cover

- Place the battery cover on the unit as shown in the illustration.
 - If the battery is protruding out of the unit, gently push the battery in using the battery cover.

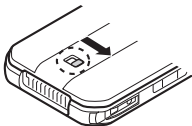


- Slide the battery cover by firmly placing your hands as shown in the illustration until you hear a click.



- Lock the cover by sliding the battery lock lever (circled in the illustration) toward .

 - Firmly slide until the red area is no longer visible.



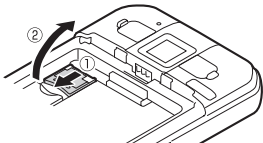
IMPORTANT

- Observe the following to ensure the waterproof and dustproof performance of the unit.
 - Always make sure the battery cover is securely closed and locked.

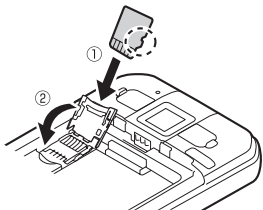
Installing an SD card

When installing or removing an SD card, place the unit on a flat surface.

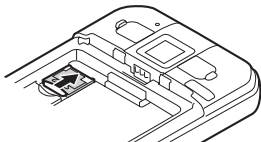
1. Remove the battery cover (page 17).
 - If a battery is installed, remove it (page 23).
2. Slide the microSD card slot in the direction of the arrow (①), and then open it (②).



3. Insert the microSD card into the microSD card slot (①), and then close the slot (②).
 - Install only microSD cards.
 - Hold the microSD card so that the metal terminals are facing you, and insert with the notch facing in the same direction of the circled area in the illustration below.



4. Slide the microSD card slot in the direction of the arrow until you hear a click.



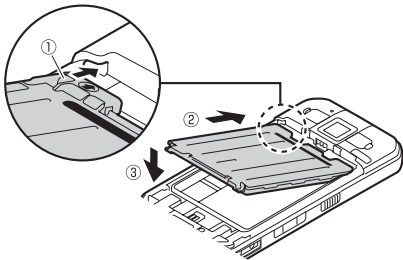
- To remove a microSD card, follow the same procedure, and then pull out the microSD card at step 3.

Installing and removing the battery

Make sure to turn off the unit before replacing the battery.

Installing the battery

1. Remove the battery cover (page 17).
2. Insert the tabs at the battery's terminal side (①) into the notches of the unit (②), and then lower the battery into place (③).



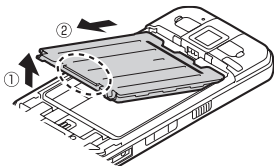
- The battery may protrude out of the unit even if you install the battery correctly. However, this is not a malfunction or defect.

IMPORTANT

- Observe the following to ensure the waterproof and dustproof performance of the unit.
 - When installing the battery, make sure there is no debris lodged in the gasket that seals the unit and in the area around the battery.

Removing the battery

1. Remove the battery cover (page 17).
2. Lift the battery up using the tab (circled in the illustration) (①), then remove it (②).




IMPORTANT

- Do not remove the battery while the unit is wet. When the unit is wet, remove the water by wiping off the water droplets and thoroughly drying the unit before removing the battery. (See "Waterproof/dustproof", Page 7.)

Replacing the battery (Battery warm swap)

You can replace the battery without turning the unit off.

- Replace the battery within 30 seconds. If more than 30 seconds has passed, apps that are running are forced to close and you may lose unsaved data.
 - During warm swapping, all wireless functions are turned off temporarily.
1. Press and hold  (power button) until the power options dialog is displayed.
 2. Tap **[Battery Warm Swap]**.
 3. Follow the on-screen instructions.
 - It may take some time until the indicator lights in green.
 4. Replace the battery.

Charging the battery

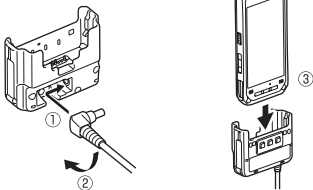
You can charge the unit by using the optional Charging Cup and the optional adaptor. For more information, refer to the Operating Instructions of the Charging Cup.

- **Optional accessories**

Charging Cup: FZ-VCBN11U

AC Adaptor: CF-AA6373A

1. Insert the adaptor straight into the rear indentation as shown in the figure, and insert into the DC input jack (①).
 - Plug the power plug into a power outlet.
2. Rotate the adaptor downward (②), and firmly insert the unit until you hear a click (③).



- The battery is not charged at the time of purchase. Charge the battery before turning on the unit for the first time or after an extended period of storage.
- Charge the battery in environments with an ambient temperature of 10 °C to 35 °C (50 °F to 95 °F).
- The indicator lights in orange while the battery is charging, and lights in green when charging is complete.

- The unit prevents overcharging of the battery by charging only when the remaining battery level is less than approximately 95 % of its full capacity.
- You can also charge the unit by connecting it to the USB port of a computer or other device using a USB connection cable.

Note

- When removing the USB connection cable, make sure to remove it while holding the plug. Do not pull by the cable.
- When connecting a USB connection cable, note the shape of the micro USB plug and the micro USB port. Do not attempt to connect the USB connection 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.

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  (power button) on the top of the unit until the unit briefly vibrates.

Turning the unit off

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

Turning the screen on and off

1. Press .
2. Swipe up from the bottom of the screen to release the screen lock.
 - Swiping the bottom-left  to the right launches the **[Voice Search]** app. Swiping the bottom-right  to the left launches the **[Camera]** app.


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, and 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.

- See the Reference Manual for a list of commonly used icons and their meanings.






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 swipe a notification left or right to delete it from the panel.



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 swipe 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.


The default button assignments are described below.

- | | |
|----------------------|---|
| A1 | The same function as  . |
| A2 | The same function as  . |
| A3 | Displays the list of options (if available) for the current screen. |
| Side buttons | No function by default. |
| 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. |

Some buttons can be customized using the **[UserButtonManager]** app; see the Reference Manual for more information.

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 in the SD card will not be erased.


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.

If the problem persists, contact your technical support representative.

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 be low or completely discharged. Charge the battery.
- The unit may be too hot or too cold. Leave the unit in an environment of 10 °C to 35 °C (50 °F to 95 °F) for about an hour, and then try again.

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. Charge the battery.
- The unit may be too hot or too cold. Leave the unit in an environment of 10 °C to 35 °C (50 °F to 95 °F) for about an hour, and then try again.

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 30).

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

The screen is too dark.

- The **[Adaptive brightness]** setting reduced the brightness according to the ambient brightness. Manually adjust the screen brightness.
 1. From the home screen, tap  → **[Settings]** → **[Display]**.
 2. Tap the **[Adaptive brightness]** switch to turn it off.
 3. Tap **[Brightness level]** and then adjust the slider.
- The **[Minimum limit brightness]** setting of customized silent mode was turned on. Turn the setting off.
 1. From the home screen, tap  → **[Settings]** → **[Sound & notification]** → **[Customized silent mode]**.
 2. Tap the **[Customized silent mode]** switch to turn it off, then tap the **[Minimum limit brightness]** switch to turn it off.
 3. Tap the **[Customized silent mode]** switch to turn it on.

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 unit.

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 (50 °F to 95 °F) for about an hour.

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 specified battery.
- There may be debris lodged in the battery charge terminals. Remove the battery and remove any debris found.
- Charging may have stopped automatically. Disconnect the charger and then reconnect it.



The indicator does not light during charging.

Battery charging ends quickly, or the battery cannot be charged at all.

- The unit is not connected to the charger properly, or the USB connection cable is not connected properly. Confirm the connection.
- 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  → **[Settings]** → **[Date & time]**.
- Set the date and time automatically.
 1. From the home screen, tap  → **[Settings]** → **[Date & time]**.
 2. Tap the **[Automatic date & time]** switch to turn it on.
 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 December 30, 2037.


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 (50 °F to 95 °F) for about an hour and then try again.

The unit does not respond.

- Turn the unit off and then on again (page 25).
- 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 **[UNINSTALL]** or **[FORCE STOP]**.

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

Specifications

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

Model No.	FZ-N1
CPU	Qualcomm® MSM8974AB 2.3 GHz Quad Core
Memory	2 GB ^{*1}
Storage	16 GB
Display	Internal LCD 4.7 in. HD (1280 × 720 dots), Aspect ratio 16:9 16 777 216 colors

Wi-Fi	<p>Standards supported IEEE 802.11a / IEEE 802.11b / IEEE 802.11g / IEEE 802.11n / IEEE 802.11ac</p> <p>Transmission method OFDM system, DSSS system</p> <p>Wireless channels used IEEE 802.11a / IEEE 802.11n (5 GHz) / IEEE 802.11ac</p> <ul style="list-style-type: none"> • 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) • W58 (149, 151, 153, 155, 157, 159, 161, 165 ch) <p>IEEE 802.11b / IEEE 802.11g / IEEE 802.11n (2.4 GHz): 1 ch - 11 ch</p> <p>RF frequency band 2.4 GHz Band: 2.412 GHz - 2.462 GHz 5 GHz Band: 5.18 GHz - 5.32 GHz, 5.5 GHz - 5.7 GHz, 5.745 GHz - 5.825 GHz</p> <p>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:</p> <ul style="list-style-type: none"> • HT20: up to 72.2 Mbps • HT40: up to 150 Mbps <p>IEEE 802.11ac:</p> <ul style="list-style-type: none"> • VHT20: up to 86.7 Mbps • VHT40: up to 200 Mbps • VHT80: up to 433.3 Mbps
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Bluetooth	Version 4.1, Class 1 Transmission method FHSS system Wireless channels used 0 - 78 ch (Low energy: 0 - 39 ch) RF frequency band 2402 MHz - 2480 MHz Supported profile A2DP, AVRCP, HFP, HID, HOGP, HSP, MAP, OPP, PBAP, SPP, GAVDP, GATT
Sound	Speaker Twin speakers (100 dBA), phone speaker Microphone 3 microphones, noise suppressor
Security chip	ARM [®] TrustZone [®] (built-in)
Camera	Front 5 megapixels Video: 1920 × 1080 pixels, 30 fps Still: 2592 × 1944 pixels Rear 8 megapixels Video: 1920 × 1080 pixels, 30 fps Still: 3264 × 2448 pixels
GNSS	GPS/GLONASS (±2 to 4 m)
Enhanced data security	FIPS 140-2 level-1 compliant
Sensors	Ambient light sensor, Digital compass, Gyro sensor, Acceleration sensor, Proximity sensor, Pressure sensor
Fingerprint sensor	Built-in ^{*2}
NFC	Built-in (Type A, B, FeliCa)

Card slots	microSD card slot ×1 ^{*3} (microSDXC compatible)
Interfaces	USB 2.0 port ×1 ^{*4} , Headset jack ×1, Expansion bus connector (lower part of the unit)
Touchscreen	10-finger touch (capacitive) with: Glove touch mode ^{*5} Rain sensing touch mode ^{*6} Stylus pen mode (Active type, Passive type)
Power supply	Battery
AC adaptor (optional)	CF-AA6373A ^{*7} Input 100 V to 240 V AC, 50 Hz/60 Hz Output 16 V DC, 3.75 A
Battery (FZ-VZSUN110U)	Lithium-ion 3200 mAh (typ.) / 3100 mAh (min.) Rated Voltage 3.8 V Charging time (approx.) ^{*8} 2 hours
Power consumption ^{*9}	Approx. 15 W ^{*10}
Dimensions ^{*11} (W × D × H)	Approx. 74 mm × 156 mm × 18.3 mm [2.9 in. × 6.1 in. × 0.7 in.] without protrusions
Weight ^{*12}	Approx. 255 g (0.56 lb), with the included battery

Operating environment ^{*13}	Temperature -10 °C to 50 °C (14 °F to 122 °F) Humidity 30 % to 80 % RH
Storage environment	Temperature -30 °C to 70 °C (-22 °F to 158 °F) Humidity 30 % to 90 % RH
Operating system ^{*14}	Android 6.0
Water and dust resistance	IP66, IP68

Specifications are subject to change without notice.

- *1 1 MB = 1 048 576 bytes, 1 GB = 1 073 741 824 bytes
- *2 Used to unlock the screen.
- *3 Operation has been tested and confirmed using the following Panasonic brand memory cards: SD (up to 2 GB), SDHC (up to 32 GB). Compatibility with other SD devices is not guaranteed.
- *4 Does not guarantee operation of all USB-compatible peripherals.
- *5 This mode may not operate properly depending on the type of glove.
- *6 Only single-finger operation is enabled.
- *7 The AC adaptor is designed for use with power sources that supply up to 240 V AC. The AC cord supplied with the AC adaptor is designed for use with power sources that supply up to 125 V AC.
- *8 Varies depending on usage conditions.
- *9 When the battery is fully charged (or not being charged) and the unit is off.
- *10 Rated power consumption
- *11 Actual size may vary by unit configuration.
- *12 Average weight. Actual weight may vary by unit configuration.

- *13 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.

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

LIMITED WARRANTY

Limited warranty for U.S.A.

Panasonic System Solutions Company
of North America (PSSNA)
Computer Products - Worldwide Warranties

Section 1: Limited Warranty - Hardware

PSSNA, referred hereafter as "Panasonic" will repair the products listed below with Panasonic approved parts, free of charge in the Global 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 (CF-##):	3 Years
Tablet PC (FZ-##/JT-B#):	3 Years
Ultra-Mobile PC (CF-U#/CF-H# Series):	3 Years
PDRC - LCD & Keyboard Assembly:	3 Years

Original Battery Warranty

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

Optional: Extended Warranty Program (PC)

If this coverage is purchased, the serial numbered unit is entitled to the same warranty coverage as the original warranty, for a period determined at the time of the extended warranty purchase. In this case the battery is not included in the extended warranty coverage; a separate coverage program is available for the battery. The cost of labor, parts, and shipping are included in the price of the Extended Warranty Program.

Optional: Panasonic "Protection Plus" Warranty

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

If an extended Protection Plus warranty program is purchased, coverage is extended to the end of the last year of extended coverage purchased.

This warranty does not cover failures or defects that are caused by fire, intentional acts, loss, theft, improper maintenance, modification or service by anyone other than the Panasonic National Service Center or a Panasonic Authorized Service Provider, or damage that is attributable to acts of God.

Cosmetic damage that does not affect functionality is not covered. Cosmetic damage on units with hardware failures will be repaired in accordance with the warranty terms. This warranty is extended solely to the original purchaser on the unit serial number for which it was purchased.

Complete unit replacement fulfills the full obligation and is at the discretion of Panasonic and is limited to once during the coverage term.

Refer to the Panasonic web site for full terms and conditions on the above programs.

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 and Power Cord: 3 Years
- Car Adaptor and Power Cord: 3 Years
- Cradle: 3 Years
- Charging Cup: 3 Years
- Optional Battery: 1 Year
- Battery Charger: 1 Year
- Integrated Panasonic supplied options and kits including, but not limited to, Cameras, GPS devices, Bluetooth devices, Smartcard Readers, Magnetic Card Readers, Barcode Scanners, and Fingerprint Readers: 3 years or the warranty period of the unit in which it is installed provided the installation was performed by Panasonic or an Authorized Integrator.

Section 2: Limited Warranty - Software

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

This is the only warranty Panasonic makes to you.

Panasonic does not warrant that the functions contained in the Programs will meet your requirements or that the operation of the Programs will be uninterrupted or error free.

Panasonic shall have no obligation for any defects in the disk(s) or other media on which the Programs are furnished resulting from your storage thereof, or for defects that have been caused by operation of the disk(s) or other media.

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

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

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

- Failures due to service by anyone other than a Panasonic Authorized Service Provider
- Failures caused by improper installation of options or accessories or due to installation by any company other than Panasonic or a Panasonic Authorized Integrator
- Damage, failure, or loss due to the unit being stolen, lost, misplaced, or used by anyone other than the original purchaser
- Damage that is attributable to acts of God

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

THIS PRODUCT IS NOT INTENDED FOR USE AS OR PART OF NUCLEAR EQUIPMENT/SYSTEMS, AIR TRAFFIC CONTROL EQUIPMENT/SYSTEMS, OR AIRCRAFT COCKPIT EQUIPMENT/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 class 2 Electronic Flight Bag (EFB) Systems and Class 1 EFB Systems when used during critical phases of flight (e.g., during take-off and landing) and/or mounted onto the aircraft. Class 1 EFB Systems and 2 EFB Systems are defined by FAA: AC (Advisory Circular) 120-76A or JAA: JAA TGL (Temporary Guidance Leaflets) No. 36.

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

PANASONIC SHALL NOT BE LIABLE FOR LOSS OF DATA OR OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE. Some states do not allow the exclusion or limitation of incidental or consequential damages, or

limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you.

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

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

Web site: www.panasonic.com/toughbook

For hearing or speech impaired TTY users, call 1-877-833-8855 using a TTY device.

LIMITED WARRANTY / GARANTIE LIMITÉE

For Canada

PANASONIC COMPUTER AND PERIPHERALS LIMITED WARRANTY

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

Scope of Coverage	Period of 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, Optical Drives, Cameras, Smart card Readers, Magnetic Card Readers and Barcode Scanners• Ultra-Mobile PC• Tablet PC• PDRC – LCD and Keyboard Assemblies• Port Replicator• Cradle• Charging Cup	Three (3) Years from Date of Original End User Customer Purchase	Defective Materials or Workmanship
<ul style="list-style-type: none">• Battery• Battery charger• AC Adaptor and Power Cord• Car Adaptor and Power Cord• External USB Drives	One (1) Year from Date of Original End User Customer Purchase	Defective Materials or Workmanship
<ul style="list-style-type: none">• Standard or Digitizer Stylus Pen	Ninety (90) Days from Date of Original End User Customer Purchase	Defective Materials or Workmanship

Scope of Coverage	Period of Coverage	Type of Failure Coverage
<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/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

IF YOU SHIP THE PRODUCT FOR WARRANTY SERVICE

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

SOFTWARE MEDIA LIMITED WARRANTY

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

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

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

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

GENERAL

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

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

IN ANY EVENT, PCI'S MAXIMUM LIABILITY FOR ANY BREACH SHALL NOT EXCEED THE AMOUNT ACTUALLY PAID BY YOU FOR THE COMPUTER PRODUCT. NO ACTION, REGARDLESS OF ITS BASIS, MAY BE BEGUN AGAINST PCI MORE THAN TWO (2) YEARS AFTER THE CAUSE OF ACTION AROSE.

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

Pour le Canada

GARANTIE LIMITÉE – ORDINATEURS ET PÉRIPHÉRIQUES PANASONIC

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

Éléments couverts	Durée de couverture	Type de couverture
<ul style="list-style-type: none"> • Ordinateurs blocs-notes (sauf batteries) et adaptateur secteur • Options installées en usine/par PCI incluant : WAN sans fil, GPS, Bluetooth, lecteur d'empreintes digitales, clavier rétroéclairé, carte mémoire, lecteurs optiques, caméras, lecteurs de carte à puce, lecteurs de carte magnétique et scanners de code-barres • Ordinateurs personnels ultra-portables • Ordinateurs tablettes • Ensembles PDRC – ACL et clavier • Duplicateur de port • Station d'accueil • Coque de charge 	Trois (3) ans à partir de la date d'achat original.	Défauts de pièces et de fabrication

Éléments couverts	Durée de couverture	Type de couverture
<ul style="list-style-type: none"> • Batterie • Chargeur de batterie • Adaptateur secteur et cordon d'alimentation • Adaptateur automobile et cordon d'alimentation • Périphériques USB 	Un (1) an à partir de la date d'achat original.	Défauts de pièces et de fabrication
<ul style="list-style-type: none"> • Stylo pointeur standard ou pour numériseur graphique 	Quatre-vingt-dix (90) jours à partir de la date d'achat original.	Défauts de pièces et de fabrication
<ul style="list-style-type: none"> • Tous les articles consommables incluant les pellicules protectrices, chiffons de nettoyage, étuis 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 DESTINÉ À ÊTRE UTILISÉ, EN TOUT OU EN PARTIE, COMME SYSTÈME/ÉQUIPEMENT NUCLÉAIRE, SYSTÈME/ÉQUIPEMENT DE CONTRÔLE DU TRAFFIC AÉRIEN OU SYSTÈME/ÉQUIPEMENT DE POSTE DE PILOTAGE D'AVION*1. PANASONIC DÉCLINE TOUTE RESPONSABILITÉ CONCERNANT L'UTILISATION DE CE PRODUIT DANS LES CAS SUSMENTIONNÉS.

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

EXPÉDITION 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 LIMITÉE – SUPPORTS DES LOGICIELS

Couverture – Panasonic Canada Inc. (« PCI ») garantit à l'acheteur original que le ou les disques 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 tout disque 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 le ou les disques 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.

GÉNÉRALITÉS

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

SOUS AUCUNE CIRCONSTANCE PCI NE POURRA ÊTRE TENUE RESPONSABLE DES DOMMAGES SPÉCIAUX, INDIRECTS OU CONSÉCUTIFS ATTRIBUABLES À UN MANQUEMENT AUX GARANTIES LIMITÉES DÉCRITES DANS LE PRÉSENT DOCUMENT OU À L'UTILISATION DU PRODUIT INFORMATIQUE, Y COMPRIS, SANS RESTRICTION, LA PERTE DE DONNÉES, D'AFFAIRES, D'ACHALANDAGE OU DE PROFIT.

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

AUCUNE RÉCLAMATION, SANS ÉGARD À SES MOTIFS, NE POURRA ÊTRE FAITE AUPRÈS DE PCI PLUS DE DEUX (2) ANS APRÈS LES FAITS INVOQUÉS À LA BASE D'UNE TELLE RÉCLAMATION.

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

**Panasonic System Solutions Company
of North America**

Two Riverfront Plaza, Newark, NJ 07102, USA

Panasonic Canada Inc.

5770 Ambler Drive, Mississauga, Ontario L4W 2T3

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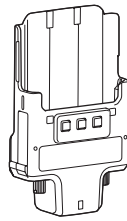
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Panasonic®

Operating Instructions

Rugged USB Dock

Model No. **FZ-VUBN111**



Printed in Japan

DHGX1463ZA/J1 C0118-0

Panasonic System Communications Company
of North America

Two Riverfront Plaza, Newark, NJ 07102, USA

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Thank you for purchasing a Panasonic product.

This product is designed for use with the Panasonic FZ-N1J (hereinafter referred to as "the unit") (as of January 2018).

- Please read this document carefully before using the product and keep this document in a safe place for future reference.
- Also thoroughly read the Operating Instructions of the unit.
- Some illustrations in this document may look different from the actual product.
- Information in this document is subject to change without notice.

Safety precautions

- **When using the product for extended periods, do not expose your skin to the product for a prolonged period.**
Generated heat can cause low-temperature burns.
- **Do not disassemble, repair, or modify the product.**
Doing so may cause a short circuit or overheating, which may result in a fire or electric shock.
- **Do not insert foreign objects into the product.**
Doing so may cause a short circuit or overheating, which may result in a fire or electric shock.
- **Do not expose the product to water or other liquids.**
Doing so may cause a short circuit, generation of heat, or overheating, which may result in a fire, electric shock or injury.
 - If the product gets wet, contact your technical support representative.
- **Do not allow conductive materials such as metal objects to touch the bus connector terminals. Also, do not touch the terminals with your hands.**
This may result in a fire, burn, or electric shock.
- **Do not leave the product in areas with a high concentration of moisture, steam, dust, oily vapors, etc.**
Foreign material that enters the product may cause a fire or electric shock.
- **Make sure not to dock a wet unit in the product.**
This may result in a fire or electric shock.
- **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 a fire or electric shock.
- **Do not place the product on an unstable surface.**
The product may drop, resulting in injury.
- **Make sure to dock the unit in the product using the specified method.**
Otherwise, the unit may drop, resulting in injury.

Handling and maintenance

Obey the following to ensure proper use and operation of this product.

Operating environment

- Do not leave the product in places under direct sunlight or around heating appliances.
- Using this product continuously in a hot environment will shorten the product life.

Handling cautions

- Do not drop the product or subject it to impacts. Doing so may cause malfunctions or damage.
- If the unit you are using with the product is wet, remove the water by wiping off the moisture, and thoroughly dry the unit before docking it in the product.
- If the product gets wet while docking the unit, do not remove the unit while wet. Remove the water by wiping off the water droplets and thoroughly dry the unit, the product and the cable before removing the unit.

Maintenance

- Always disconnect the cable before cleaning the product.
- Clean the product with a soft, dry cloth.
 - Do not clean the product with solvents such as benzene, thinner, alcohol, or kitchen detergent because they may affect the surface of the product.
- If the bus connector terminals are dirty, network connection may not be possible. Clean it with a soft, dry cloth.

Other information

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:

- 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.

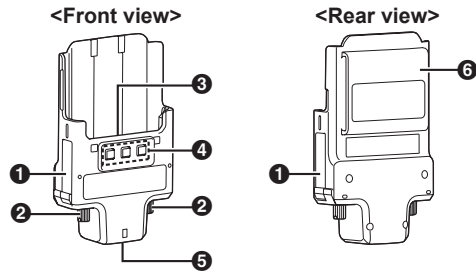
Responsible party

Panasonic Corporation of North America

Two Riverfront Plaza, Newark, NJ 07102, USA

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

Description of parts



1 Release levers

Releases the lock for the unit attached to this product.

2 Screws

Tightens to fix the unit to this product.

3 Bus connector terminals

4 Front buttons

Allows you to press the buttons of the unit attached to this product.

5 Docking connector

Connects the cable.

6 Strap hole

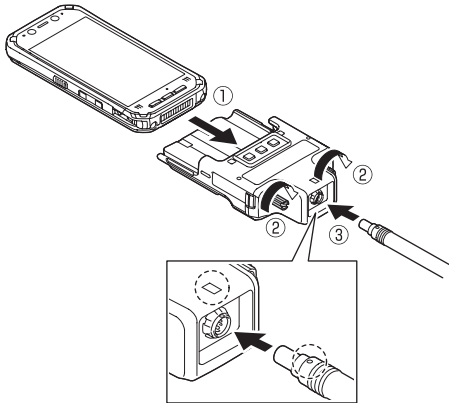
Docking the unit

- When attaching, take care so that the strap, etc. does not get caught between the unit and the product.

1 Insert the unit until a click sounds (1), and tighten the screws to the right (2).

2 Insert the cable to the docking connector (3).

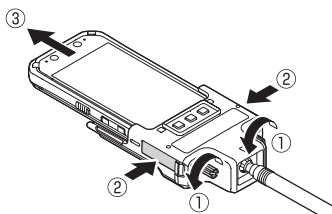
- Align the white dot of the cable with the red square of the product as illustrated below.



Removing the unit

1 Loosen the screws to the left (1).

2 While pressing the left and right release levers (2), pull out the unit (3).



Specifications

Dimensions (excluding protrusions)	Approx. 141 mm × 35 mm × 88 mm (XX in. × XX in. × XX in.)
Weight	Approx. 143 g (XX lb)
Operating environment	-10 °C to 50 °C (14 °F to 122 °F) 30 % to 80 % relative humidity