

Wearable Device

# InfoLinker3

## Introduction Manual

InfoLinker3 (IL3) Model No. : WL-03ACPZ



Read this manual before start using this device and use the device correctly.  
In addition, keep this manual at a place where a user can use whenever necessary.



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# Introduction

Thank you very much for choosing our "InfoLinker3." product. Please be sure to read this manual before using this device in order to be able to use the device correctly. In addition, keep this manual in a location where users can access it whenever necessary.

## Intended use

This device comprises smart glasses equipped with a neckband-type computer (NBC) and a head-mounted display (HMD) to facilitate hands-free communication. This device is intended to provide guidance for indoor and outdoor work carried out at facilities such as factories and warehouses, and support for remote work. Before using this device, conduct a risk assessment for using this device and perform a thorough safety check.

## Users

Users must be 18 years of age or older and fully capable of understanding this manual and using the device safely and correctly.

We recommend that any person who is categorized in any of the following conditions refrain from using this device:

- A person who is wearing medical electronic equipment such as an implantable pacemaker or an implantable defibrillator
- A person who has a health history of photosensitivity
- A person with heart disease
- A person in poor physical condition
- A person suffering lack of sleep
- A person who is tired
- A person who is under the influence of alcohol
- A person with visual field disorders, alignment disorders, or ocular motility disorders
- A person who has experienced seizures or epileptic seizures
- A person who cannot sense heat
- A person with skin wounds
- A person who experiences dizziness or migraines
- A person who has had a stroke or mental illness
- A person who has lost consciousness due to mild flashes or vibrations
- Pregnant woman

## Product documentation

- Introduction Manual (this book):

This manual describes the basic operations of this device. For information about detailed operations, refer to our website.

<https://www.westunitis.co.jp/>

## Information

- Reprinting a part of or an entire section of this manual without permission is prohibited.
- Screens and illustrations used in this manual are images only. Therefore, they may be different from actual screens or products.
- The contents of this manual are subject to be revised without prior notice to improve product quality.

## Checking the contents of the package

- InfoLinker3 (NBC) Neckband Type Computer WL-03ANBZ
- InfoLinker3 (HMD) Head Mount Display WL-03AHMZ
- USB Waterproof Protective Cap
- IL3 Dedicated Battery (with IL3 Dedicated Battery Cap) WL-03ALBZ
- USB2.0 cable (Type-C 1m) WL-03AUCZ
- Carrying Case (Shoulder Belt x1) WL-03ACCZ
- NBC Bottom Cover x2 WL-03ABOZ
- IL3 Introduction Manual
- Warranty




## InfoLinker3 Accessory Kit (sold separately)

- Helmet Mounting Clip (Clip x3 + Hook-and-loop fastener x3)
- IL3 Dedicated Bone-conduction Headphone
- Bone-Conduction Spacer (Silicone cover, spacer large/small)
- Head Mount Belt
- Fall Prevention Strap (x2 for the left and right sides)
- IL3 Dedicated Battery Charger (Charger + AC adapter + Conversion plug for Japan/China)
- IL3 Dedicated Battery (with IL3 Dedicated Battery Cap) WL-03ALBZ
- Non-slip Sheet (four sheets)







# Safety Precautions

This section describes precautions to be observed in order to use this device safely and to avoid putting yourself, other people, and your property at risk.

The words, "DANGER", "WARNING", "CAUTION", and "NOTE", convey special meanings. Follow the instructions carefully when using this device.

 <b>DANGER</b>	Indicates actions that will result in an imminent situation that causes death or serious injury if this device is mishandled without following this instruction.
 <b>WARNING</b>	Indicates actions that may cause death or serious injury if this device is mishandled without following this instruction.
 <b>CAUTION</b>	Indicates actions that may cause minor injury if this device is mishandled without following this instruction.
<b>NOTE</b>	Indicates actions that may cause a product failure or property damage if this device is mishandled.

The types of contents to be observed are explained by classifying them with "symbols".

	Indicates "what you should not do".
	Indicates that "you should not disassemble".
	Indicates that "you should not sprinkle water".
	Indicates "what you have to do".
	Indicates that "you should unplug the power cable".
	Indicates that "you should not use this device with a high volume for a long period of time".

# Using and handling this device



## DANGER



**Always wear this product with eyeglasses or protective goggles to protect your eyes.**

Otherwise, the display may hurt your eyes or cause an injury.



**If you cannot appropriately wear the protective equipment\* while wearing this device, do not use this device.**

If you work without wearing the protective equipment appropriately, an accident or injury may result.

When wearing a helmet, use the dedicated attachment.

\* Safety glasses, hard hat, helmet, dust mask, respiratory, etc.



**Wear using an appropriate accessory kit (sold separately) in consideration of the environment surrounding the location in which this device will be used.**

When using this device in an elevated location, take safety measures such as considering the use of a fall prevention strap.



**Before attaching or using the device, confirm the safety status of the surrounding environment.**

It becomes difficult to recognize the surrounding conditions while watching images. If there are fragile objects or obstacles near this device, an injury or accident may occur.



**Do not move around while looking at the display.**

It is extremely dangerous to use this device while walking or running. There is a risk of getting caught in machines around you or causing an accident when transport vehicles (forklifts, etc.) or cars go by. For example, if you want to shoot a wide area using the camera, move to a safe location and shoot while holding the device still, or check the safety status of the surroundings before starting to shoot. In addition, do not use this device as an action camera for shooting on a skateboard or snowboard.



**Do not use this device while driving or operating a car, motorcycle, forklift, or crane.**

Doing so may cause a traffic accident due to a driving error. In addition, if you use this device while operating a forklift or crane, it may lead to a serious accident due to an operation error.



**This device is not explosion-proof. Be sure to remove the batteries before entering an environment where flammable gases are generated, such as a location containing an explosive atmosphere or a gas station. In addition, do not charge this device.**

Otherwise, the gas may catch fire.

## **WARNING**



### **Use the specified battery, battery charger, AC adapter, and USB cable.**

Using a battery, battery charger, or AC adapter other than the specified ones may cause a fire, explosion, damage, or liquid leakage.

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### **Do not use this device continuously for a long period of time.**

To use this device, take appropriate breaks on a regular basis.

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### **Do not use this device with a high volume for a long period of time.**

Prolonged use with the volume on high may cause hearing impairment. In addition, you may not be able to hear important surrounding sounds such as alarms, horns, sirens, etc.

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### **Adjust the volume immediately after turning the power on.**

A loud sound may be emitted, which may cause hearing loss.

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### **If you feel the main unit (HMD or NBC) is hot, stop using this device and remove it from your body.**



Depending on the usage environment, the temperature of the main unit may rise if it is used for a long period of time. If you continue to use the device, low-temperature burns may result.

If you feel any abnormalities in the main unit or your body, stop using this device.

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### **Do not use or charge this device in extremely hot, cold, or humid locations.**



Use this device within the ambient temperature range of -20°C to 50°C and the humidity range of 30% to 90%.

Using it in an environment outside the above-mentioned ranges may cause a deformation, damage, or ignition.

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### **If the device emits smoke, strange odors or sound, or excessive heat during use or charging, take the following measures:**

During use: Stop using this device, and remove the batteries from the NBC.

While charging using the charger: Unplug the AC adapter from the outlet and remove the batteries from the charger.

While charging using the power supply port: Unplug the USB cable from the outlet and remove the batteries from the NBC.

If you continue to use this device under such conditions, the battery may burst and cause a fire or burns.

In addition, if the device is dropped or damaged, stop using it and contact us.

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### **Do not use this device outdoors when there is thunder.**





## CAUTION

### **Do not leave or store this device in the following locations:**



- Hot area such as near open flame or heating appliances
- Locations exposed to direct sunlight (such as inside a vehicle exposed to scorching sun)
- Locations with high humidity or where water may splash
- Dusty area

Otherwise, fire or a malfunction may occur.

In particular, the battery may catch fire if the device is left in a hot location (such as an area exposed to direct sunlight) for a long period of time.

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### **Before storing the device for a long period of time, remove the batteries.**

Otherwise, the device may break down due to leakage of liquid from the batteries.

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### **If the ambient temperature changes significantly due to heating or cooling, turn the power off and remove the batteries.**

For example, if the ambient temperature changes significantly, such as when you come out from or go into a refrigerator, condensation may form inside the device. If the device continues to be used while it contains condensation, it may break down. Turn the power off, remove the batteries, and wait for a while before using the device again.

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### **If liquid such as water enters the device, stop using it and remove the batteries.**

If the device continues to be used while liquid is inside it, it may cause overheating, ignition, or a malfunction.

Allow the device to dry completely before using it again.

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### **Do not use this device in water or immerse it in water.**

The NBC and HMD are dustproof/waterproof (IP65 equivalent), however, they should never be immersed in water. If the terminals become wet, allow them to completely dry before use. Otherwise, it may cause overheating, ignition, or a malfunction.

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### **Do not use this device if it is broken.**

Otherwise, it may cause a fire, burns, or an electric shock. In such a case, please contact us.

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### **Do not subject the device to strong forces or shocks, and do not throw it or put any heavy objects on it.**

Otherwise, it may cause liquid to leak, burst, battery ignition, a device malfunction, or a fire.

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### **Do not dismantle, repair, or modify the device.**

Otherwise, it may cause a fire, burns, injury, electric shock, or a malfunction.

Furthermore, the battery contains harmful substances, which are extremely dangerous. If repairs are required, please contact us.

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**Do not point the light at the eyes of people or animals, or look directly at the light.**

Otherwise, it may cause an adverse effect on the eyes.



**In locations where the use of this device is restricted, such as in hospitals and on aircraft, use it appropriately according to the instructions provided by respective institutions, companies, etc.**

Radio waves may adversely affect regular and medical electronic devices.

Be sure to follow the instructions provided by medical institutions, airline companies, etc.

Passengers who carry out prohibited actions on aircraft may be punished according to applicable laws.



**Do not use this device if you are wearing electronic medical equipment such as an implantable pacemaker or an implantable defibrillator. In addition, do not use this device near such electronic medical equipment.**

Otherwise, such devices and equipment may be adversely affected by the radio waves or magnet fields of the device.

If absolutely necessary, check with the manufacturer or distributor of the electronic medical equipment regarding the effects of radio waves.



**If a radio disturbance occurs in other equipment when this device is being used, stop using the device.**



**If you experience any strange feelings or sensations on your skin, stop using the device immediately.**

Otherwise, itching, irritation, or eczema may occur depending on the constitution and health condition of the user.

Consult a dermatologist.



**If any abnormal conditions such as tiredness or discomfort occurs during use, stop using the device.**

## NOTE



**When carrying or storing this device, use the carrying case supplied with this device.**

If you put the device into a bag full of other objects or put it under a heavy object, it may malfunction.



**Do not use or store this device near corrosive chemicals or in places where corrosive gases or oily smoke is generated.**

Otherwise, it may malfunction and/or internal data may be lost.

## About the neckband type computer (NBC) and head mount display (HMD)



### CAUTION

**Do not leave the covers such as the external connection terminal cover, battery cover, SIM slot cover, bone-conduction headphone jack cover open.**



The NBC and HMD provide dustproof/waterproof capabilities (IP65 equivalent), however, if you leave these covers open, dust, water, conductive foreign matter (metal pieces or pencil leads), etc. will enter the inside and cause a short circuit, resulting in overheating, ignition, or a malfunction.

**If the display is cracked or the inside of the device is exposed due to being dropped, do not touch the cracked display or exposed parts.**



Otherwise, you may be injured or subjected to an electric shock from the damaged part.

**When disconnecting the NBC connection cable, be sure to hold the connector, not the cable.**



If you pull on the cable, it may break and cause an electric shock or fire.

**When carrying this device, lift both the HMD and NBC together.**



These components are connected using the NBC connection cable. Holding only one of them may cause the other to drop and be damaged, or the cable to be disconnected, resulting in an electric shock or fire.

### NOTE



**Do not pull or twist using excessive force.**

Otherwise, it may cause malfunctions.

## About the AC adapter



### WARNING



**Do not touch the AC adapter when lightning strikes while charging.**

Otherwise, it may cause an electric shock.



## CAUTION



**Use the AC adapter with the specified power source and power voltage.**

Otherwise, fire or a malfunction may occur.  
AC adapter: 100 - 240 VAC, 50/60 Hz



**Unplug the power cord when the AC adapter is not being used.**

Otherwise, it may cause a fire, heat generation, electric shock, or a malfunction.



**Do not damage the power cord.**

Otherwise, it may cause a fire or an electric shock.

- Do not modify the power cord.
- Do not place any heavy objects on the power cord.
- Do not forcibly bend, twist, or pull the power cord.
- Do not place the power cord near heating appliances.

If the power cord is damaged, please contact us.



**When unplugging the power plug, be sure to hold the power plug, not the power cord.**

Otherwise, the power cord may be damaged and cause an electric shock or fire.

## About the charger



## CAUTION



**Do not let any conductive foreign objects (pieces of metal, pencil leads, etc.) come in contact with the battery charging terminals.**

Otherwise, it may cause a fire, burns, injury, or an electric shock.



**The battery charger is not waterproof, so never use it in a location where it will be directly exposed to liquids such as water, or in humid areas.**

Otherwise, it may cause overheating, fire, electric shock, or injury. In the unlikely event that the charger does get wet, disconnect the power plug immediately.



**In the case the inside of the device becomes exposed due to being dropped and subsequently damaged, do not touch any exposed components.**

Otherwise, you may be injured or subjected to an electric shock from the damaged part.

## About the battery



### DANGER



**If the liquid inside the battery gets into an eye(s), immediately wash the affected eye(s) with water and see a doctor.**

Otherwise, vision may be lost.



### WARNING



**Be sure not to drop the battery otherwise it may be subjected to a strong impact or be trampled on.**

Otherwise the battery may cause liquid to leak, heat generation, bursting, or ignition.



**Do not use a battery that is deformed, is leaking, has an unpleasant odor, or is swollen.**

Otherwise, it may cause heat generation, bursting, or ignition.

If there is any leaking liquid or unpleasant odors, be sure to move it away from fire immediately. Otherwise, any liquid that has leaked may ignite and cause an explosion.



### CAUTION



**If charging of the battery does not finish within the specified charging period, stop charging.**

Otherwise the battery may cause liquid to leak, heat generation, bursting, or ignition.

Charging time when using the charger: Approximately three hours

Charging time when using the main unit (at power-off): Approximately four hours



**Do not use a battery if it is not functioning correctly, for example, if the power runs down extremely quickly although the battery has been fully charged.**

The battery is a consumable item. If you continue to use a deteriorated battery, it may cause overheating, ignition, explosion, or liquid leakage.



**Attach the battery caps supplied with this device to unused batteries.**

A short circuit between the battery terminals may cause overheating, ignition, fire, liquid leakage, or a malfunction.



**Do not carry or store the battery with any kinds of metal.**

If such metal comes into contact with the battery terminals, a short circuit may occur, which may cause overheating, ignition, fire, liquid leakage, or a malfunction.



**If any battery liquid gets on skin or cloth, immediately rinse with water.**

Otherwise, the skin may be irritated.



**Do not charge a battery if it is wet.**

Otherwise, the battery may heat up, ignite, or burst.

## Cleaning the device



### WARNING



**Do not use any flammable sprays such as an air duster or dust spray near or inside the device.**

Otherwise, it may cause an explosion or fire due to ignition of the gas.



### CAUTION



**When cleaning, do not immerse the device in water or splash water on it.**

Otherwise, it may cause overheating, ignition, or a malfunction.

### NOTE



**Wipe the device using a dry, soft cloth (e.g. lens cleaning cloth).**

Rubbing the device too hard may scratch the display.



**Clean the terminals using a dry cotton swab, or other similar material.**

Dirty terminals may result in power failure or insufficient charging of the battery. Pay extra attention to avoid damaging the terminals when cleaning.

# Precautions for Using Wireless Functions (Bluetooth<sup>®</sup>, Wireless LAN)

In addition to home appliances such as microwave ovens and industrial, scientific, and medical equipment, the on-site mobile object identification radio station, which requires a license, used in factory production lines, the specified low power radio station that does not require a license, and amateur radio stations (hereinafter referred to as "another radio station") are operated in the frequency band used by this device.

- 1 Before using this device, make sure that "another radio station" is not operating nearby.**
- 2 If radio wave interference occurs between this device and "another radio station", immediately move the device or turn off the power to prevent radio wave interference.**
- 3 If you have any other questions, please contact your vendor.**

Bluetooth and Wireless LAN (IEEE802.11b/g/n) use the same frequency (2.4GHz). Use of this device near any Bluetooth or Wireless LAN-supported devices may reduce communication speed or cause a connection failure due to generated radio interference. In such a case, separate this device from the Bluetooth or Wireless LAN-supported devices by a distance of at least 10 m, or turn OFF the wireless functions.

## Using Bluetooth

- This device has a security function that complies with Bluetooth standard specifications. However, the security level may not be sufficient depending on the actual settings. Pay close attention when establishing communication using the Bluetooth function.
- We will not accept any responsibility if any data and/or information are leaked during communication using the Bluetooth function.
- In some countries, use of Bluetooth is restricted. Please check the laws and regulations of the country of intended use prior to using Bluetooth.

## Using Wireless LAN

- The wireless LAN uses radio waves to communicate the information, therefore, it will be advantageous if a LAN connection is freely available within the area that radio waves can reach. At the same time, there is a possibility that third parties with ill intent may be able to intercept communications and/or gain access to the information if appropriate security is not maintained. It is recommended that the customer sets the security level and uses the device under their own judgment and responsibility.
- Available channels on this device differ by country.
- In some countries, use of wireless LAN is restricted. Check the laws and regulations of the country and region in which the wireless LAN is intended to be used in advance.
- The wireless LAN (IEEE 802.11n / a / ac) of this device uses the 5GHz band. The Radio Law prohibits outdoor use of the 5.2 GHz band and 5.3 GHz band (except when communicating with access points or relay stations of 5.2 GHz band high-power data communication systems).
- The following channels are used by this device.

Japan

- 5.2 GHz band: 36/38/40/42/44/46/48

- 5.3 GHz band: 52/54/56/58/60/62/64

- 5.6 GHz band: 100/102/104/106/108/110/112/116/118/120/122/124/126/128/132/  
134/136/140

## Specific Absorption Rate (SAR) of this device

The neckband-type computer (NBC) [model code: WL-03ANBZ] of this device complies with the national technical standards for absorption of radio waves into the human body and international guidelines for protection against radio waves.

This data communication terminal is designed to comply with the national technical standards (\*) for absorption of radio waves into the human body and the allowable values for protection against radio waves recommended by the equivalent international guidelines. These international guidelines are defined by the International Commission on Non-Ionizing Radiation Protection (ICNIRP), which cooperates with the World Health Organization (WHO), and its allowable value includes a sufficient safety factor regardless of the age and health condition of the user.



The national technical standards and international guidelines define the allowable value of radio wave protection by the Specific Absorption Rate (SAR), which represents the average amount of energy of radio waves absorbed by the human body. The allowable value of SAR for the data communication terminal is 2.0 W/kg.

The data communication terminal is designed to have the minimum transmission power required for communication with base stations such as mobile phones, so the SAR is usually set at a smaller value during actual communication. Generally, the closer you are to the base station, the smaller the output of the data communication terminal. During communication, make sure that there is no metal (part) between the device and your body. In view of the above, we confirm that this data communication terminal complies with the national technical standards and international guidelines for protection against radio waves.

For information about the SAR value of this device, please refer to our website.

<https://www.westunitis.co.jp/infolinker3/>

Website of Ministry of Internal Affairs and Communications

<https://www.tele.soumu.go.jp/j/sys/ele/index.htm>

Website of Association of Radio Industries and Businesses

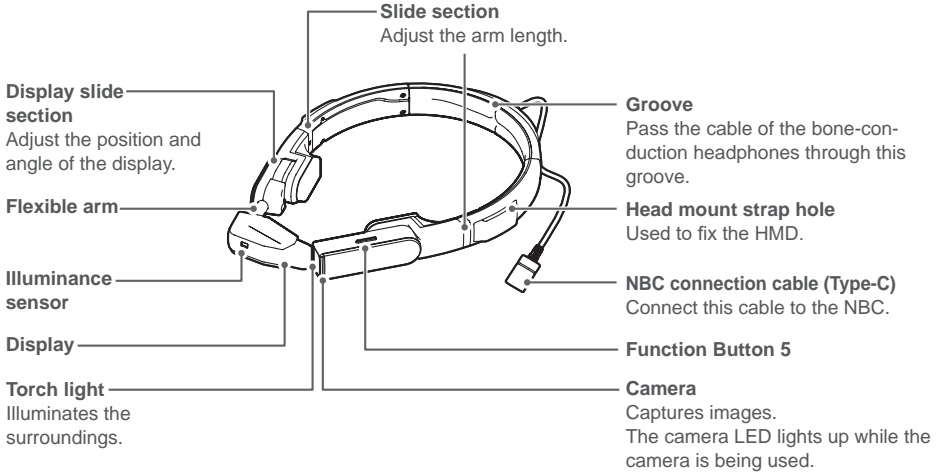
<https://www.arib-emf.org/01denpa/denpa02-02.html>

\* The technical standards are stipulated by the Radio Law-related Ministerial Ordinance (Article 14-2 of the Radio Equipment Regulations).

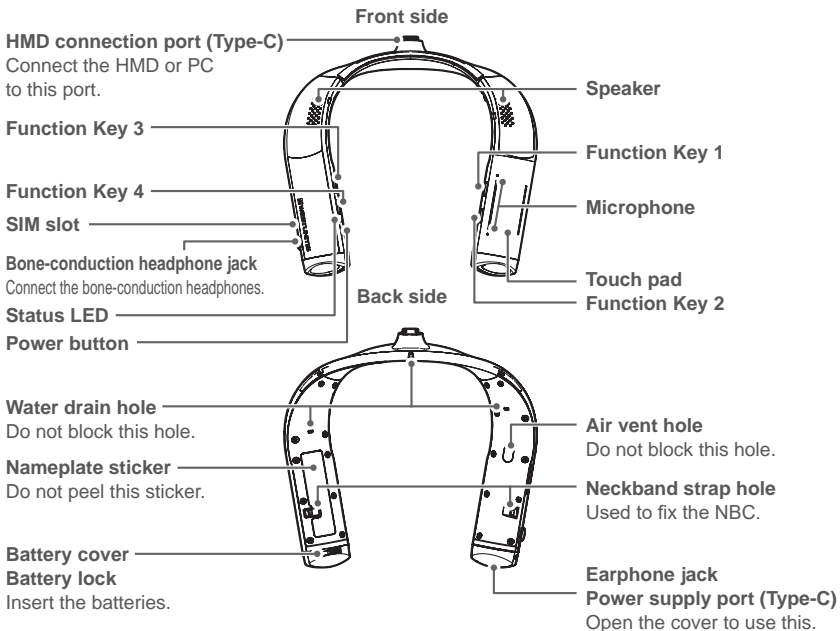
# Before Use

## Names and functions of components

### Head Mount Display (HMD)



### Neckband Type Computer (NBC)



# How to store

When you have finished using this device, store it in the carrying case.

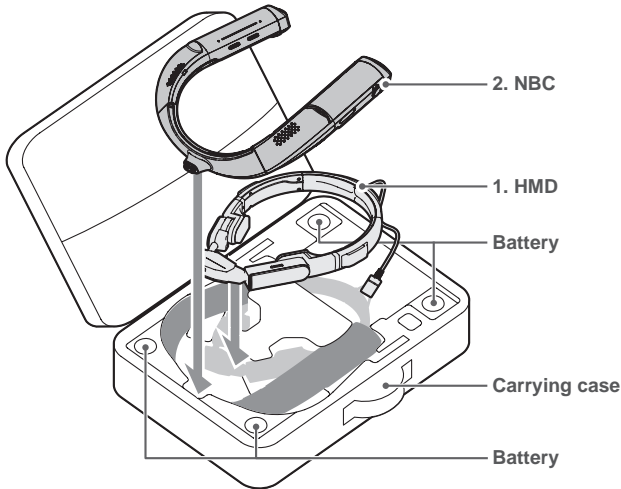
## NOTE

**Do not store this device in an orientation other than that shown in the figure, or stuff it forcibly.**

Otherwise, the device may be damaged.

## 1 Storing the HMD

Store the HMD in the orientation shown in the figure so that it fits into the groove of the carrying case.



## 2 Storing the NBC

Store the NBC in the orientation shown in the figure so that it fits into the groove of the carrying case.

## MEMO

When storing the attachments and accessories supplied with this device, store them in the respective dents in the carrying case and the net attached to the lid.

## Accessories: NBC Bottom Cover

This part is attached to the bottom of the InfoLinker3 (NBC), on the left and right sides, to ensure safe use of the InfoLinker3.

If this part is removed for cleaning, please install it correctly.

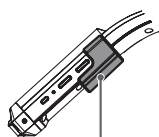
For correct installation, fix the fixing boss to the mounting holes (screw holes) on the bottom of the NBC as shown in the figure. Make sure there is no wobble after installation before use.



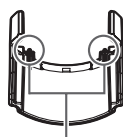
### CAUTION

#### If this part is damaged

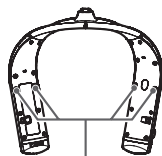
Please replace it as it may fall off the NBC or cause an accident due to the damaged part.



NBC Bottom Cover



Fixed boss



Mounting holes

## Charging the batteries

When using this device for the first time or when the battery is exhausted, charge the battery using the NBC power supply port or the battery charger of the separately sold accessory.



### CAUTION

#### Do not charge the device when it is wet.

Otherwise, a short circuit will occur, which may cause a fire, malfunction, or burns due to an electric shock or heat generation. Only charge after completely removing the water first.

## Charging using the NBC power supply port

- 1 Open the cover of the NBC power supply port and connect the USB cable supplied with this device to charge.

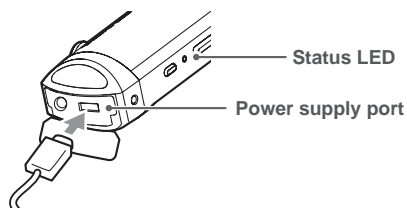
The status LED lights up and charging starts.



### WARNING

#### Use the USB cable supplied with this device.

If a different USB cable is used, it may cause overheating or ignition.

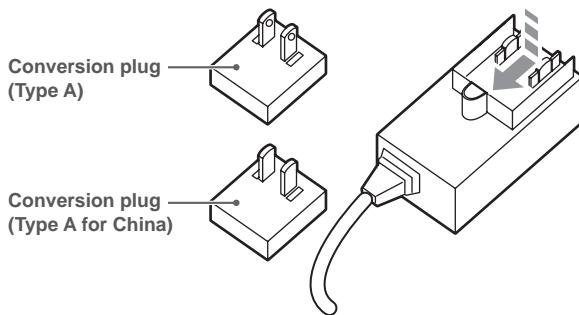


- To recharge the battery, use the supplied USB cable and turn off the NBC.
- MEMO**
- Please use a USB power adapter capable of 2A output. The NBC does not support fast charging.

## Charging using the IL3 dedicated battery charger (sold separately)

### 1 Attach the conversion plug of the AC adapter.

Connect the correct conversion plug for the country in which you use this device. The one with a hole at the tip of the plug is for Japan, and the one without a hole is for China.



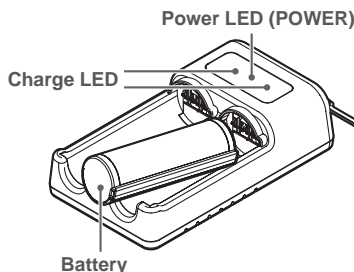
### 2 Connect the AC adapter cable to the battery charger.

### 3 Connect the AC adapter to an outlet.

The power LED (POWER) of the battery charger lights up green.

### 4 Remove the battery cap and insert it into the battery charger.

Pay attention to the orientation of the battery terminal. The charge LED of the number with the battery inserted lights up, and charging starts.



## Indication of power LED (POWER)

Status	Power LED
Power-off	Not lit
Power-on	Lights up green

## Indication of charge LED

Status	Charge LED
No battery inserted	Not lit
Charging	Lights up red
Charging complete	Lights up green
Charging abnormality (temperature abnormality, etc.)	Blinks red/green

## Battery maintenance

If the battery terminal becomes dirty, clean it using a soft, dry cotton swab. Getting finger oil, sweat, or dust on the terminal may prevent the battery from being charged appropriately.



### WARNING

**Do not use organic solvents (benzene, thinner, etc.), acids, or alkalies when cleaning.**

Otherwise, it may cause an electric shock, fire, or a malfunction.



### CAUTION

**Attach the battery caps supplied with this device to unused batteries.**

A short circuit between the battery terminals may cause overheating, ignition, fire, liquid leakage, or a malfunction.

# Inserting and replacing batteries



## WARNING

### Insert or switch the battery in a safe location.

If you replace the battery while the NBC is attached, it may cause the battery to fall and be damaged. In addition, if you replace the battery in an elevated location, it may cause an accident if the battery is dropped.

### Do not replace with the wrong type of battery.

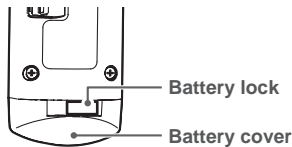
Otherwise, it may cause an explosion. Dispose of batteries that are no longer used according to local regulations.

## Insertion method

Insert the battery into the NBC.

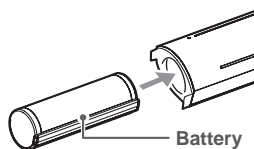
### 1 Release the NBC battery lock and remove the battery cover.

(Lock: Right, Unlock: Left)



### 2 Insert the battery.

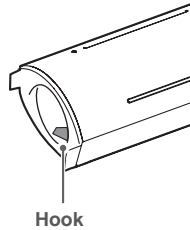
Insert the battery in such a way that the terminal is on the back side.



### 3 Close the battery cover and lock it.

## Removing the batteries

- 1** Release the NBC battery lock and remove the battery cover.
- 2** Pull out the battery while holding the hook on the inside.



## Replacement method (hot swap)

The NBC has a built-in battery that allows you to replace the battery while it is powered on.

### **MEMO**

If it takes two or more minutes to replace the battery, turn off the NBC before replacing the battery.

- 1** Remove the used battery. Then, within two minutes, insert the charged battery.
- 2** If the built-in battery runs out of power, the power will be turned off.



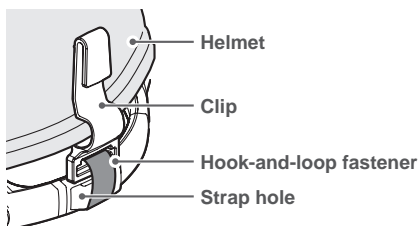
# About the Accessories

## Helmet Mounting Clip (sold separately)

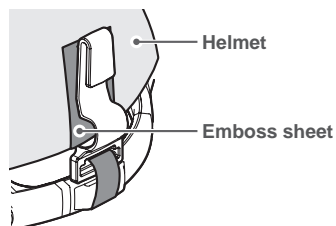
Attach the HMD to a commercially available helmet. The HMD can be attached to any helmet in principle, however, it may not be able to be attached to certain helmets depending on the shape.

### 1 Attach the clips to the left, right, and back of the helmet.

If the helmet does not have a groove, adhere an embossed sheet (sold separately) to the helmet. Stick the sheet so that it is sandwiched between the helmet and the clip.



Case with groove



Case without groove

### 2 Wrap the mounting clip and the HMD using a hook-and-loop fastener to fix it.

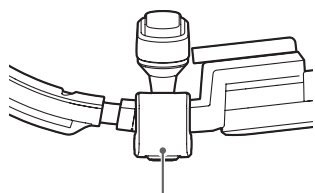
Use the strap hole to prevent slippage.

**MEMO** After mounting, check that the clips and hook-and-loop fasteners are not loose.

## IL3 Dedicated Bone-Conduction Headphones (sold separately)

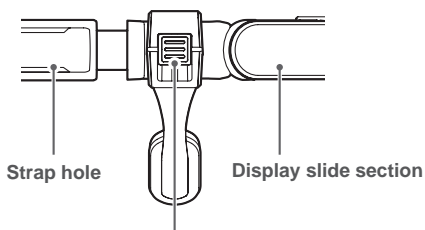
Attach the bone-conduction headphones to the HMD.

- 1 Insert the bone-conduction headphones into the arm on the camera side or the arm on the display side of the HMD.
- 2 Adjust the position and lock the attachment to fix the bone-conduction headphones.  
(Up: Lock, Down: Unlock)



Bone-conduction headphones

View from the top



Strap hole

Display slide section

Attachment lock

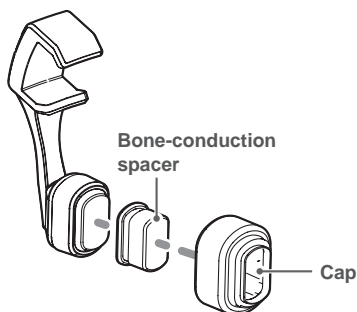
View from the side

- 3 Place the cable of the bone-conduction headphones along the groove inside the arm.
- 4 Open the bone-conduction headphone jack cover of the NBC, and connect the cable.

## Using the bone-conduction spacer (sold separately)

If the bone-conduction headphones do not fit well, attach the bone-conduction spacer (large or small).

- 1 Attach the cap to the bone-conduction spacer.
- 2 Attach the cap with the bone-conduction spacer to the bone-conduction headphones.



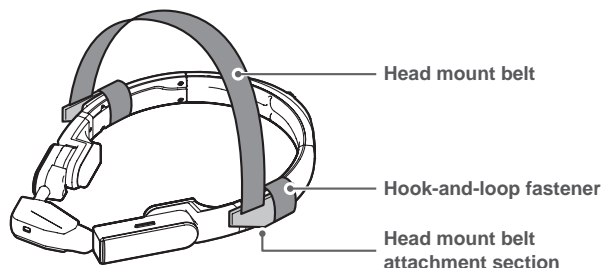
Bone-conduction spacer

Cap

## Head Mount Belt (sold separately)

Fix the HMD at the temporal region and the parietal region to make the device more stable.

- 1 Wrap the head mount strap hole and the head mount belt attachment part of the HMD with a hook-and-loop fastener to fix it.

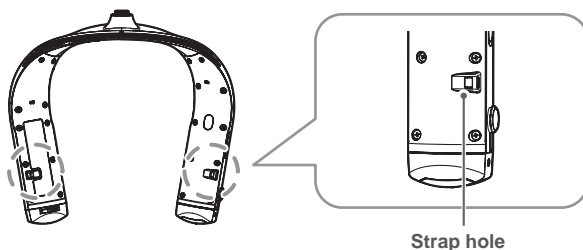


- 2 Adjust the length of the hook-and-loop fastener so that it fits the head.

## Fall Prevention Strap (sold separately)

Fix the NBC to clothes to prevent it from slipping or falling.

- 1 Attach the string of the fall prevention strap to the two neckband strap holes on the back side of the NBC.



- 2 Attach the clip of the fall prevention strap to clothes.

Make sure that the clip is securely fastened.

### MEMO

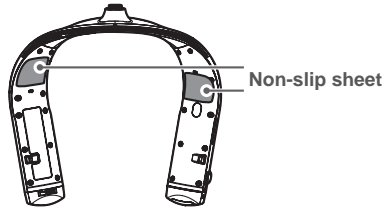
- Depending on the material your clothes are made of, they may be damaged. Before permanently attaching the clip, try attaching the clip to an area on your clothes where it will not be noticeable if it is damaged.
- For safety reasons, the joint is removed when a certain load is applied to the fall prevention strap. Do not apply excessive force to the strap.

## Non-slip Sheet (sold separately)

This sheet prevents slippage when the NBC is hung around the neck.

### 1 Attach the non-slip sheet to the two locations on the back side of the NBC.

Adhere the sheet so that the nameplate sticker, water drain hole, and air vent hole are not hidden.



**MEMO** It can also be used by attaching it to the NBC Bottom Cover.

# Inserting the SIM Card

## Insert the SIM card.

Insert the SIM (nanoSIM) for communication.



### CAUTION

Insert or remove the SIM card after turning off this device.

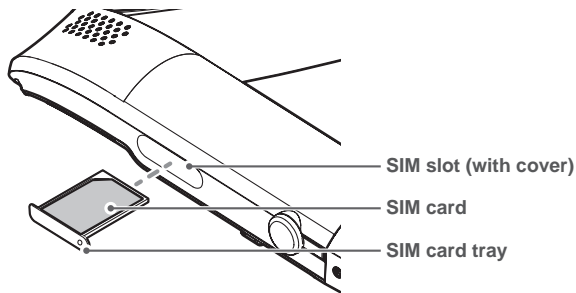
### NOTE

Securely attach the SIM slot cover.

Make sure that insert the SIM card tray straightly.  
Do not pull out the SIM card tray forcibly.

### 1 Remove the SIM slot cover of the NBC.

Be careful not to lose the removed cover.



### 2 Insert the pin into the hole in the SIM card tray.

The SIM card tray comes out. Slowly pull the tray, and remove it.

### 3 Insert the SIM card.

Insert the SIM card placed on the SIM card tray.

### 4 Attach the SIM card tray.

Return the SIM card tray to the SIM slot.

### 5 Attach the SIM slot cover.

Securely attach the cover.

# How to Wear the Device

## Wearing the HMD and NBC



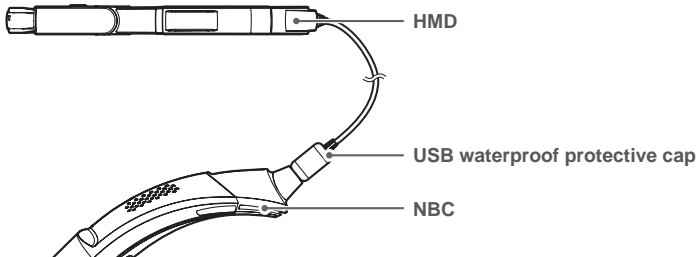
**DANGER**

**Always wear this product with eyeglasses to protect your eyes.**

Otherwise, you may be injured due to your eyes being scratched by the display.

### 1 Connect the NBC connection cable to the HMD connection port.

Make sure that the USB waterproof protective cap is attached to protect the device.



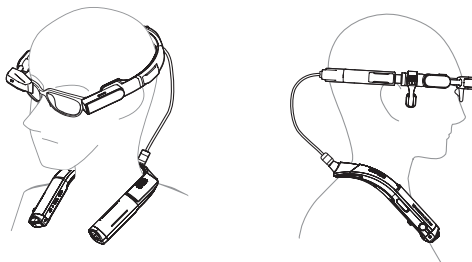
### 2 Hang the NBC around your neck while holding both the HMD and NBC.

If you have the HMD on your helmet, hold the helmet and NBC together, then wear the helmet and hang the NBC around your neck.

If you have the HMD using the head mount belt, hold the helmet and NBC together, then wear the HMD and hang the NBC around your neck.

### 3 Hold the HMD and wear it on your head.

### 4 Adjust the slide section and flexible arm to set the camera and display in the correct position.



## NOTE

Excessive force applied when extending the slide section may cause damage.

## MEMO

- When removing the HMD temporarily, hang it around your neck.
- If the HMD is attached to the helmet, remove the helmet, HMD, and NBC together.

## The HMD can be attached to both left and right eyes.

It is possible to change the setting of the display for right eye or left eye by setting the application.

# Basic Operations

## Turning on/off the power

### Turning on the power

- 1 Press and hold down the Power button (three seconds) while the power is turned off.

After a while, the screen is displayed on the HMD. When the power is turned on, the status LED of the NBC lights up green. When the power is on, the status LED indicates each power status as follows:

#### Indication of status LED

Status	Charging	Full charge	Not charged
Power OFF	Orange light (It takes time to light up)	Not lit	Not lit
Starting up	Lights up green	Lights up green	Lights up green
Power ON	Blinks green	Lights up green	Lights up green (When the battery level is 10% or less: Blinks red.)
Sleep	Blinks blue	Lights up blue	Lights up blue
Sleep (Power Saving mode)	Not lit	Not lit	Not lit
Error detection	Blinks red	Blinks red	Blinks red

### Turning off the power

- 1 Press and hold down the Power button (for approximately five seconds) when the power is on.



## Sleep

The display (screen) can be switched between on/off. Even when the display is turned off, the application is continuously working. Therefore, battery power continues to be consumed. The status LED lights up blue in Sleep mode.

### **1 Press the Power button briefly while the power is turned on.**

The device is placed into Sleep mode. Press the Power button briefly again to turn the display on and release the Sleep mode.

#### **MEMO**

In Sleep mode, after a certain period of time has elapsed, the device may shift to Sleep mode (Power Saving mode) depending on the application being used.

## Forced reboot

### **1 Hold down the Power button and Function Key 4 (12 seconds).**

## Touch pad operation

This device can be operated intuitively using the NBC touch pad.

Touch pad operations vary depending on the application being used.

# Audio input/output

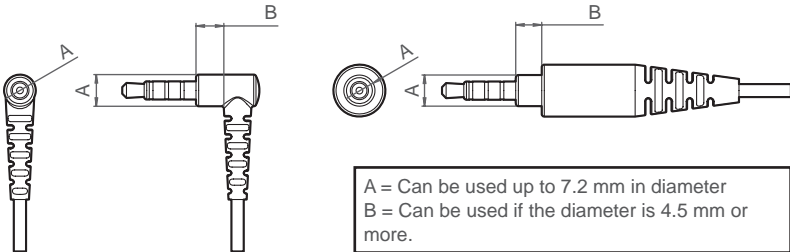
## About audio

The built-in speaker and built-in microphone are used by default. You can also use the dedicated bone-conduction headphones or other earphones.

### MEMO

When connecting earphones or a headset to the earphone jack (4-pole mini plug), be sure to insert the plug securely. Otherwise, noise may be generated..

- Plug available for the earphone jack (4-pole mini plug)



## Audio input/output

The audio input/output of this device has next four types of supported.

- Bone-conduction headphones (Audio output only)
- Bluetooth® headsets
- Earphone jack
- Built-in microphone, speaker

### MEMO

- If the cable is connected to both the bone-conduction headphone jack and the earphone jack, the microphone of the earphone jack is also enabled.

## Connection to PC

If you connect this device to a PC using the USB cable supplied with this device, the data in the internal storage can be sent to the computer. Data backup or deletion can be performed in this status.

### 1 Turn this device on.

#### MEMO

It's unable to transmit data communication to PC If connected to the NBC power supply port.

### 2 Connect the USB cable to the HMD connection port of the NBC.

### 3 Connect the USB cable to the PC.

If the device is connected to the computer for the first time, the device driver software is automatically installed in the PC. Wait until the installation is completed. Once the installation is complete, this device is recognized as a portable device on the PC.

### 4 After the process has finished, confirm that no data is being transferred, and disconnect the USB cable.

# Disposal Information

## Disposal of the device and accessories

This product contains recyclable parts. In addition, the main body has a built-in lithium-ion battery as a sub-battery. The sub-battery cannot be removed by the customer. When disposing of a product that is no longer used, please contact your local government for information regarding disposal.

## About recycling of IL3 dedicated battery



### **WARNING**

**Do not put the IL3 dedicated battery in the fire.**

Otherwise, it may explode and cause a fire.

The IL3 dedicated battery is a lithium-ion battery.

When you no longer need the IL3 dedicated battery, please contact our Westunitis Customer Support.

If you wish to collect or recycle batteries in a country other than Japan, please check the method in the relevant country.



Li-ion

The recycle symbol is provided on the back of the NBC and on the side of the battery.

# Specifications

## InfoLinker3 (NBC): Neckband type computer

Item	Specifications
Model No.	WL-03ANBZ
Weight	Approx. 395 g (Battery and NBC Bottom Cover included)
Operating system	Android™ 10
RAM (main memory)	4 GB
ROM (user memory)	64 GB
Vibration function	Provided
GPS	GNSS, GLONASS, QZSS (Michibiki), Beidou (Hokuto)
Microphone	Two pieces (with noise canceling function)
Built-in speaker	Two pieces, arranged on the left and right. (Stereo composite monaural output)
4-pole 3.5 mm earphone jack	4-pole earphone jack (CTIA)
Bone-conduction headphone jack	For bone-conduction headphones only (Φ2.5 mm, 4-pole earphone jack, stereo composite monaural output)
Button	Four buttons (Function key) + one button (Power button)
Bluetooth®	Bluetooth 5.0 (BLE compatible) GAP, GAVDP, A2DP, AVRCP, HSP, HFP, HID, GATT, SPP
Wireless LAN	2.4 GHz (b/g/n) + 5 GHz (n/a/ac)
4 G/LTE (SIM module)	Single nano SIM card dedicated to data communication Band1, 3, 8, 19, 26, 41
USB terminal: 1	Power supply port (for power supply only, Type-C) 5V 2-3A
USB terminal: 2	HMD connection port USB3.1 Gen1 (Type-C): Connection with HMD or PC (OTG, ADB) Displayport Alternate Mode support (720p compatible)
IL3 dedicated battery	Replaceable (can be replaced by the user), hot swappable
Sub battery	Built-in (cannot be replaced)
Touch pad	Provided
Dustproof/waterproof	IP65 equivalent
Operating temperature	-20°C to 50°C
Storage temperature	-30°C to 70°C

Item	Specifications
Place of origin	Japan

## InfoLinker3 (HMD) head mount display

Item	Specifications
Model No.	WL-03AHMZ
Weight	Approx. 150 g
Optical display	Resolution: nHD+ (640×400) FullColorOLED
Brightness adjustment	Illuminance sensor (Changes the brightness of the display depending on external light.) Change of brightness: Possible
9-axis sensor	3-axis acceleration
	3-axis gyro
	3-axis magnetism
Camera	F value: 1.8 Angle of view: 78.2° Number of effective pixels: 12 million
Camera LED	Red LED (Lights up when the camera is being used)
Button	One button (Function button)
Torch light	Provided
Dustproof/waterproof	IP65 equivalent
Operating temperature	-20°C to 50°C
Storage temperature	-30°C to 70°C
Place of origin	Japan

## IL3 dedicated battery

Item	Specifications
Model No.	WL-03ALBZ
Weight	Approx. 84 g (Cap included)
Battery type	Li-ion
Voltage	3.63 V

Rated capacity	4900 mAh
Accessory	IL3 dedicated battery cap
Operating temperature	-20°C to 60°C
Storage temperature	-20°C to 60°C (Recommended: -20°C to 23°C)
Place of origin	Taiwan

## IL3 dedicated battery charger (sold separately)

Item	Specifications
Model No.	WL-03ABCZ
Weight	Approx. 112 g
Rated input	12.0 VDC, 1.7 A
Rated output	4.15 VDC, 2 A
Operating temperature	0°C to 40°C, Humidity: 25% - 85% (no dew condensation)
Storage temperature	-20°C to 70°C, Humidity: 25% - 90% (no dew condensation)
Place of origin	Japan

## AC adapter for battery charger (sold separately)

Item	Specifications
Model No.	ATM-024T-W120V
Weight	Approx. 130 g (Conversion plug included)
Rated input	100 V to 240 VAC, 0.58 A to 0.32 A
Rated output	12.0 VDC, 2.0 A 24W (max.)
Frequency	50 to 60 Hz
Accessory	Conversion plug (Type-A) / Conversion plug (Type-A for China)
Operating temperature	0°C to 40°C, Humidity: 20% - 80% (no dew condensation)
Storage temperature	-20°C to 80°C, Humidity: 10% - 90% (no dew condensation)
Place of origin	China

# Using this Product

## Display based on the Radio Law and the Telecommunications Business Law

This product complies with the rules concerning the Technical Regulations Conformity Certification, etc. of Specified Radio Equipment based on the Radio Law and the rules concerning the Technical Conditions Compliance Approval, etc. of Terminal Equipment based on the Telecommunications Business Law. As proof of this, the "Technical Conformity Mark" is provided on the main unit (NBC).

If this product is modified, the Technical Regulations Conformity Certification, etc. will become invalid. If you use it in that state, it will violate the Radio Law and the Telecommunications Business Law, therefore, do not modify this product. When using this product overseas, please check the conditions such as the laws and regulations of that country or region.

## GPS function

- Be careful when using the GPS system. Please note that we are not responsible for any damage caused by a system abnormality.
- Please note that we are not responsible for pure economic damage such as damage caused by missing the opportunity to check the positioning (communication) result due to external factors (including a dead battery) such as a failure, malfunction, abnormality, or power failure of this product.
- This product cannot be used as a navigation device for aircraft, vehicles, people, etc. Therefore, please be aware that we are not responsible for any damage caused by navigation using location information.
- This product cannot be used as a high-precision surveying GPS. Therefore, please be aware that we are not responsible for any damage caused by position errors.
- The Satellite Positioning System (GPS) is built and operated by the US Department of Defense. The ministry is in charge of system accuracy and maintenance. Therefore, any changes made by the ministry may affect the accuracy and functionality of the GPS system.
- Wireless communication products (such as mobile phones and data detectors) can interfere with satellite signals, which may cause unstable signal reception.
- Depending on the legal system of each country or region, the display on the map based on the acquired location information (latitude/longitude information) may not be accurate.
- We do not guarantee the accuracy of any location-based service, not limited to navigation services.



## Places where it may be difficult to receive satellite signals

Please note that GPS uses radio waves from satellites, therefore, radio waves may not be received, or may be difficult to receive, under the following conditions:

- Inside or directly below a building
- In a bag or box
- Inside and below dense trees
- Inside cars, trains, etc.
- If there are obstacles (people or objects) around this product
- Underground, tunnels, in the ground, underwater
- Building districts and densely populated residential areas
- Near high voltage lines
- During bad weather such as heavy rain or snow

## Disclaimer

- We do not take any responsibility for natural disasters such as earthquakes, lightning, storms and floods, fires beyond our responsibility, acts by third parties, other accidents, and damage caused by your intentional actions, negligence, misuse, or use under other abnormal conditions.
- We are not liable for any incidental damage (change or loss of the recorded contents, loss of business profits, business interruption, etc.) resulting from the use or unavailability of this product (including accessories).
- We are not liable for any damage caused if the contents of the "Introduction Manual (this manual)" are not observed.
- We are not liable for any damage caused by malfunctions due to the combination of connected devices and software that we are not responsible for.
- The settings may be changed or lost due to a malfunction, repair, or other handling of this product, however, we are not liable for any damage or lost profits caused by these causes.
- We recommend that you save important data on your computer's hard disk, etc. Please note that we are not responsible for any change or loss of the registered information regardless of the cause of a malfunction or failure.
  - \* The term "we" as used in this manual refers to the following company:  
Manufacturer: Westunitis Co., Ltd.

## Precautions regarding use of this product

If you use this product (including accessories, hereinafter referred to as the "product") under conditions that do not comply with the contents described in the Introduction Manual, the product may malfunction. Please use the product after observing the items described in the Introduction Manual. In the unlikely event that the product breaks down (including abnormalities) or is damaged, stop using it immediately and contact us for repair services. Please note that we are not liable for any malfunctions or damage caused by the use of the product under conditions other than those listed.

1. Please note that we do not guarantee the operation of the product, the compatibility with the purpose of use, equipment, etc., and the accuracy or reliability of the result of use. Please refrain from using this product for applications (for nuclear power- and energy-related, aerospace and transportation equipment (when driving or maneuvering automobiles, trains, ships, aircraft, etc.) and for life-sustaining medical equipment, etc.) that require extremely high reliability and safety; otherwise, it may cause harm to your life or body, damage to property, or serious impact on society due to the inability to fully use the product due to a malfunction, accident, breakdown, etc.
2. Any problems that occur with the product shall be dealt with at your own risk and expense, except as guaranteed by us.
3. We shall be able to change or correct the specifications or contents of the product, or change the distribution method without prior notice or prior consent.
4. We are not obligated to provide any technical services such as technical support, maintenance, or functional improvement related to the product.
5. Do not disassemble, modify, or repair the product. Please note that we are not responsible for any damage caused by disassembly, modifications, or repairs.
6. Please note that we are not responsible for any malfunctions or failures caused by the combination with equipment or software that we are not responsible for.
7. The software and systems described in the Introduction Manual, etc. are provided to explain the operation examples and usage examples of the product. We do not guarantee the appropriateness of operations and use in all the devices and systems that you actually use. Please note that we are not responsible for any malfunctions or damage caused by the use of this information.
8. Please note that we are not responsible for any infringements of patent rights or other rights due to the use of the product.

9. We make every effort to post the contents described in the Introduction Manual after confirming them with great care, however, this information may be changed or deleted without notice. Please note that we are not responsible for any damage caused by this information.

## **About incidental damage**

Regarding all types of incidental damage (including indirect damage, special damage, incidental damage, consequential damage, lost opportunities, lost profits, etc., but not limited to these types of damage) that are caused because the product is or is not available, we will only replace or repair the product or deal with it within the range up to the selling price. Please note that we do not take any responsibility or guarantee other than the above.

## **End user license agreement**

The customer shall comply with the items described in the software license agreement concerning the software included in this product (including accessories).

## **| About export control regulations**

This product (including accessories; hereinafter referred to as the "product"), software, and technical documents may be subject to Japanese export control regulations ("Foreign Exchange and Foreign Trade Law" and related laws and regulations). It may also be subject to the US Export Administration Regulations. When exporting and re-exporting the product, please take the necessary procedures at your responsibility and expense.

Please contact the Ministry of Economy, Trade and Industry or the US Department of Commerce for detailed procedures.

## **| About intellectual property rights**

### **About copyright and portrait rights**

Content that is copyrighted by a third party, such as text, images, music, and software that the customer has downloaded from a website on the Internet using this product (including accessories; hereinafter referred to as the "product"), cannot be copied, modified, and sent to the public without the permission of the copyright holder, unless permitted by copyright law, such as reproductions and citations for private use.

In addition, the customer may use the product to take a portrait of another person without the consent of the person, or post the portrait of another person taken on the website on the Internet without the consent of the person, and disclose it to the general public. Please refrain from doing so as it may infringe on portrait rights.

## **| Change of terms**

- Please note that this agreement is subject to change without your consent and without notice or contact.
- The customer is kindly requested to check the latest Terms and Conditions. We will not be liable for any disadvantage, damage, problems, etc. that affect the customer or a third party that occurred because the customer did not check the latest Terms and Conditions.

## **| Prohibited items**

- All or part of this product (including accessories, hereinafter referred to as the "product") cannot not be duplicated, modified, or reverse-engineered such as reverse compiled or disassembly (mainly refers to "analyzing the content and converting it into a human-readable form").
- The product may not be licensed, sold, rented, assigned, disclosed or leased to any third party(s).
- Our copyright notice and other rights notices attached to the product cannot be deleted or modified.
- Our technical information or any other information that you have learned about the product cannot be used for purposes other than the purposes of this agreement, or cannot be disclosed or leaked to any third party(s).
- Reproduction or duplication of the product, this manual, and portions or all of the introduction manuals without our permission is strictly prohibited.

# About Trademarks

- InfoLinker is a registered trademark of Westunitis Co., Ltd.
- The Bluetooth ® word mark and logo are trademarks of Bluetooth SIG, Inc, and Westunitis Co., Ltd. uses these marks under license.
- Google and Android are trademarks of Google Inc.
- All rights not expressly contained in this document belong to their owners.

# After Sales Service

If you have any questions regarding use of this device, please check the URL below,  
and

contact our Westunitis Customer Support.

<https://www.westunitis.co.jp/support/>

## **Manufacturer**

Westunitis Co., Ltd.

1-1, Ofukacho, Kita-ku, Osaka

web : <https://www.westunitis.co.jp>