




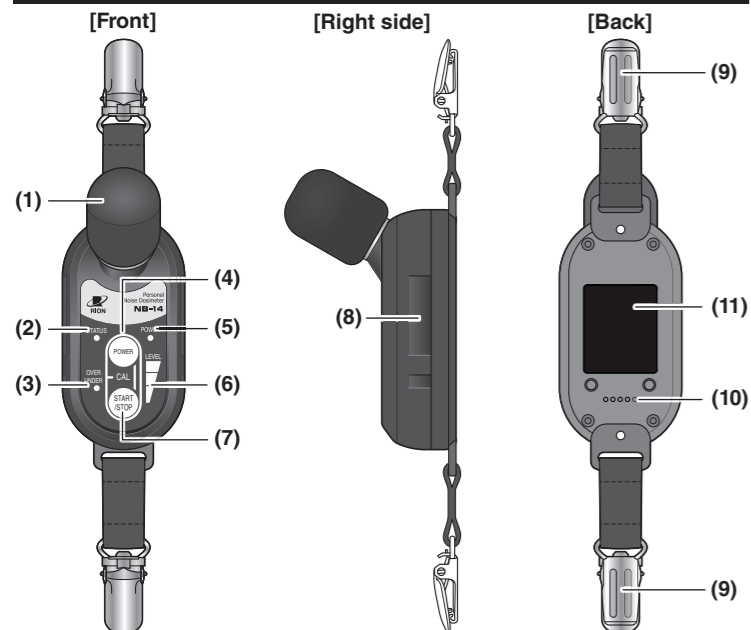
**Quick Start Guide**

- Before use, please read the safety precautions and then follow them carefully.
- Keep this manual in a safe place and refer to it as necessary.

You can download the instruction manuals (Hardware Guide, Software Guide, and Technical Guide) from our "Occupational safety and health measures related to noise" web page. 

<https://osh.rion.co.jp/nb-14/qrcode-manual>

**Name of Each Part**



No.	Name / Description
(1)	<b>Dedicated windscreen / microphone</b> <b>STATUS LED</b> Lights on when the power is turned on. Lit green : Storage capacity is available for the set storage time (Default value: 8 hours) or longer. Lit red : Sufficient storage capacity is not available for the set storage time (Default value: 8 hours). Lit blue : Calibrating Flashes orange : Measuring Flashes red : Measuring (with OVER history)
(2)	<b>OVER/UNDER LED</b> OVER/UNDER for Equivalent continuous A-weighted sound level is displayed. Lit red : The measurement level is higher than the upper limit (143 dB) of the measurement level range (OVER). Lit green : The measurement level is lower than the lower limit (58 dB) of the measurement level range (UNDER).
(3)	<b>POWER key</b> Press to turn on the power. When the power is on, press and hold to turn off the power.
(4)	<b>POWER LED</b> Lights on when the power is turned on. Lit green : The battery capacity is 8 hours or more. Lit orange : The battery capacity is less than 8 hours. Lit red : The battery capacity is less than 4 hours. Flashes red : The battery capacity is insufficient. Measurement stops.
(5)	<b>LEVEL LED</b> Percentage of the legal limit of a physical quantity of exposure (DOSE (%)) is displayed with a bar graph. The initial values are set as below. Unlit : Less than 50% One LED lit green : 50% or more and less than 100% Two LEDs lit orange : 100% or more and less than 200% Three LEDs lit red : 200% or more and less than 400% Three LEDs flash red : 400% or more
(6)	<b>START/STOP key</b> Press and hold to start measuring. Press and hold while measuring to end taking measurements.
(7)	<b>Space for label printer sticker</b> (both sides on the main unit) Label printer stickers up to 6 mm wide x 25 mm long can be affixed here.
(8)	<b>Crocodile clip</b> Secures the device in place by clipping it onto work clothes, etc.
(9)	<b>Charger / USB terminal</b> Used to connect a charger, computer, etc. using the dedicated USB cable.
(10)	<b>Nameplate</b> It shows necessary information such as the model, date of manufacture, and applicable standards of the device.
(11)	<b>Calibration</b> Press and hold the POWER key and START/STOP key at the same time to enter calibration mode. If you press and hold down the POWER key and the START/STOP key again, it will execute the calibration. Press and hold the POWER key and START/STOP key again to execute the calibration. Calibration ends automatically. If you want to cancel the calibration, press and hold the POWER key.

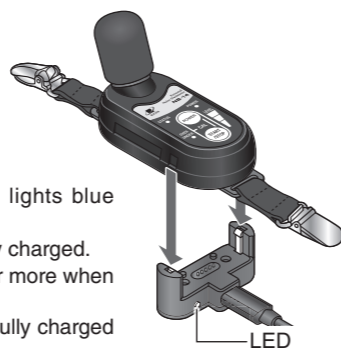
**Accessories**

- Dedicated USB cable
- Crocodile clip holder (already attached to the device)
- Instruction Manual Quick Start Guide (this document)
- Precautions when detaching the windscreen
- Document for China RoHS
- Supplied Accessories & Inspection Certificate
- Dedicated windscreen
- Sound calibrator NC-75
- Dedicated USB cable
- Dedicated windscreen
- Crocodile clip holder

**Charging Method**

When using this product for the first time, fully charge the battery before use.

- (1) Connect the device to the dedicated USB cable.
- (2) Connect the USB Type-A connector of the dedicated USB cable to a charger, etc.



The LED on the dedicated USB cable lights blue while charging.

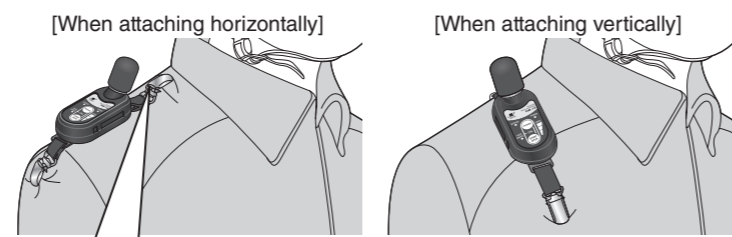
The LED turns off when the device is fully charged.

- The device can be used for 12 hours or more when fully charged.
- The device takes about 6 hours to be fully charged from zero battery capacity.

**Measuring Method**

Make sure to calibrate before and after carrying out measurement work. For the method, refer to the "Hardware Guide".

- 1 Use the crocodile clip to attach the main unit to work clothes, etc.



- Make sure that the microphone faces upwards.
- Attach the microphone of this device so that it is positioned within 1 foot of the worker's ear.
- Attach it securely so that it will not fall off easily.
- The microphone part is not waterproof, so do not use it in an environment where it may get wet.

- 2 Press the POWER key to turn on the device.

The STATUS LED and POWER LED light up.

- 3 Press and hold the START/STOP key to start measuring.

- The STATUS LED flashes orange while measuring.
- The amount of data that can be stored in one product unit is about 48 hours' worth.
- Press and hold the POWER key while measuring to end taking measurements and turning off the power.



- 4 When finished, press and hold the START/STOP key to stop measuring.

Check that the STATUS LED is now lit green. It may take about 1 minute after the measurement stops until the data is saved.

Do not turn off the power or perform other operations until the STATUS LED turns off and then turns on again.



- 5 Remove the main unit from your work clothes and connect it to the dedicated USB cable.

- 6 Import the measurement data to your computer.





For how to import measurement data, see the "Noise Dosimeter Data Management Software AS-05 Viewer Instruction Manual".

- 7 Press and hold the POWER key to turn off the power.

**Safety Precautions**


The precautions shown here are intended to help you use the product safely and correctly, and to prevent harm and damage to you and other people. Incidents that could occur as a result of incorrect handling are divided into three categories: "DANGER," "WARNING," and "CAUTION." Make sure to follow the directions of all these categories because they are serious matters related to safety.

**Examples of pictorial indications**

	Prohibitions		Instructions
	<b>WARNING</b>	Indicates a possibility of death or serious injury due to incorrect handling.	
	<b>CAUTION</b>	Indicates a possibility of personal injury or property damage due to incorrect handling.	

**Handling of rechargeable battery**


**WARNING**

-  If electrolyte leaking from the battery gets into your eyes, rinse with water without rubbing and immediately seek medical attention. Failing to do so may result in blindness.


If electrolyte leaking from the battery gets on your skin or clothes, wash it off immediately with water.


**Handling of this product**


**WARNING**

-  Never disassemble, repair, or modify the product. Doing so may cause a fire, electric shock, or an accident.

-  Do not connect the dedicated USB cable or remove the main unit with wet hands. Doing so may cause electric shock or injury.

-  Do not immerse the main unit in water or splash water on it. The microphone part is not waterproof. Immersing it in water or splashing it with water may cause electric shock or malfunction.

-  Do not use the device for purposes other than for what it is originally intended.

-  Do not use the device for purposes other than for what it is originally intended.

Keep the product away from heat sources such as fire and stoves. Failure to do so may cause a fire, electric shock, or malfunction.


Do not use the device if any abnormality such as damage is discovered. Continuing to use the device regardless of an abnormality may cause electric shock or fire. In such circumstances, please contact your dealer.

Do not use the device if there is something wrong with it, such as it becoming abnormally hot. Doing so may result in a malfunction or fire.

Do not use or charge the battery in a humid place such as a bathroom or in a place where it may get wet. Doing so may cause electric shock or malfunction.

Do not use, store, or leave the product in a hot place such as in a place exposed to fire, direct sunlight, or inside a car on a hot day. Doing so may cause fire, battery breakage, or overheating.

When disposing of the product, do not throw it into fire. This may cause a fire or the battery to explode. When disposing of the product, follow the regulations of your country or local municipality.

-  If there is dust on the charging terminal, wipe it off before connecting the dedicated USB cable. Failure to do so may result in electric shock, short circuit, or fire.

Wipe off any water on the main unit and the charging terminal before charging. Failure to do so may result in electric shock, short circuit, or fire.

**CAUTION**

-  Do not use or store the product within the reach of children or pets. Doing so may result in electric shock, injury, or accidental ingestion.

Do not place the device in your pocket and sit with your legs under an electric blanket or near a heat source, etc. Doing so may result in the rechargeable lithium-ion battery overheating and causing low-temperature burns.

-  Stop charging immediately if the LED on the dedicated USB cable flashes. In such circumstances, please contact your dealer.

Do not pinch your hands or skin with the crocodile clip.

**Precautions for Use**

- Avoid using and storing the product in places with high temperatures and humidity, or in places exposed to direct sunlight for long periods of time.
- If there is a drastic change in the surrounding temperature, the product may malfunction due to internal condensation.
- As the main unit is a precision electronic device, avoid using or storing it in locations subject to shock or vibration.
- If you will not be using the product for a long time, do not fully charge it, disconnect the dedicated USB cable, and store it in a cool, dark place.
- To prevent over-discharging, charge the device regularly (every 2-3 months).
- Do not sit down with the product in your pocket, etc. Doing so may result in excessive force being applied and cause a malfunction.
- Do not insert wires, metal pieces, conductive plastics, etc. through any holes or gaps of the product. Doing so may result in a malfunction.
- Do not replace the microphone with those with manufacturing numbers different from those specified on the nameplate.
- If you are using the device outdoors and it starts raining, stop taking measurements and keep the device dry. If the device gets wet, wipe it off with a dry cloth and dry it in a well-ventilated environment.
- Make sure that the microphone is installed securely before conducting sound calibration. If there is any looseness, turn off the power and retighten the microphone.
- To maintain the accuracy of measurements, inspect the device regularly.
- During the inspection of the NB-14, there is a possibility that the measurement and calibration data stored within the device may be deleted. Before requesting an inspection, ensure to back up your measurement and calibration data.

**[USB driver of the connected computer]**  
If a specific USB driver (such as Red Hat's USBK.sys) is installed on the computer to which the product is to be connected, and the USB device's hidden setting is applied on the driver, the USB drive may not be displayed even if the product is connected. If this happens, uninstall the specific driver or change the hidden setting.

- [Built-in battery]**
- The time information may be set back to its factory settings if the product is left with the built-in battery used up.
  - If the built-in battery is used up, charge it as soon as possible.
  - Do not charge the device by any method other than the specified charging method.

**[Disclaimer]**

- RION shall not be held accountable for the following damages: Any damage caused by earthquakes, lightning, wind and floods, fires for which RION is not responsible, actions or accidents by a third party, intentional or negligent misuse by the customer, or use under other abnormal conditions
- RION shall not be held accountable for the following incidental damages arising from the use or inability to use this product: Alteration or loss of recorded content, loss of business profits, or the interruption of business, etc.
- RION shall not be held accountable for any damage caused by not following the directions of this document.

- [Cleaning the product]**
- Wipe the product dry with a soft cloth. If the dirt is difficult to remove, use a diluted neutral detergent.
  - Do not use organic solvents such as alcohol or thinner for cleaning. Doing so may cause deterioration such as cracking of the main unit.

**[Disposing of the product]**  
This product uses a lithium-ion rechargeable battery. When disposing of the product, follow the regulations of your country or local municipality.

**Specifications**

Applicable standards	IEC 61252:1993+AMD1:2000+AMD2:2017 IEC 61672-1:2013 class 2 JIS C 1509-1:2017 class 2 CE Marking / VCCI Class B / UKCA Marking / China RoHS	
Microphone	UC-52	
Measurement function (Measures each calculated value at the same time)	Equivalent continuous A-weighted sound level Equivalent continuous C-weighted sound level C-weighted peak sound level Percentage of the legal limit of a physical quantity of exposure	$L_{Aeq}$ $L_{Ceq}$ $L_{Cpeak}$ DOSE
Measurement level range	Equivalent continuous A-weighted sound level Equivalent continuous C-weighted sound level C-weighted peak sound level	58 dB to 143 dB 58 dB to 143 dB 75 dB to 146 dB
Measurement frequency range	20 Hz to 8 kHz	
Display	Power supply status, measurement status, overload / under-range, bar graph (Percentage of the legal limit of a physical quantity of exposure DOSE)	
Internal memory	Stores approx. 48 hours' worth of measurement data	
Power	Built-in lithium-ion rechargeable battery (secondary battery) Continuous operating time: 12 hours or more from a fully charged state (within the operating temperature range)	
Operating temperature and humidity ranges	Temperature: -10°C to 50°C Humidity: 10% to 90% RH (no condensation) Charging temperature range: 5°C to 35°C	
Dimensions / weight	85 mm (H) × 43 mm (W) × 22 mm (D) Approx. 72 g (excluding attachment)	
Dustproof and waterproof performance	IP54 (excluding microphone part)	