

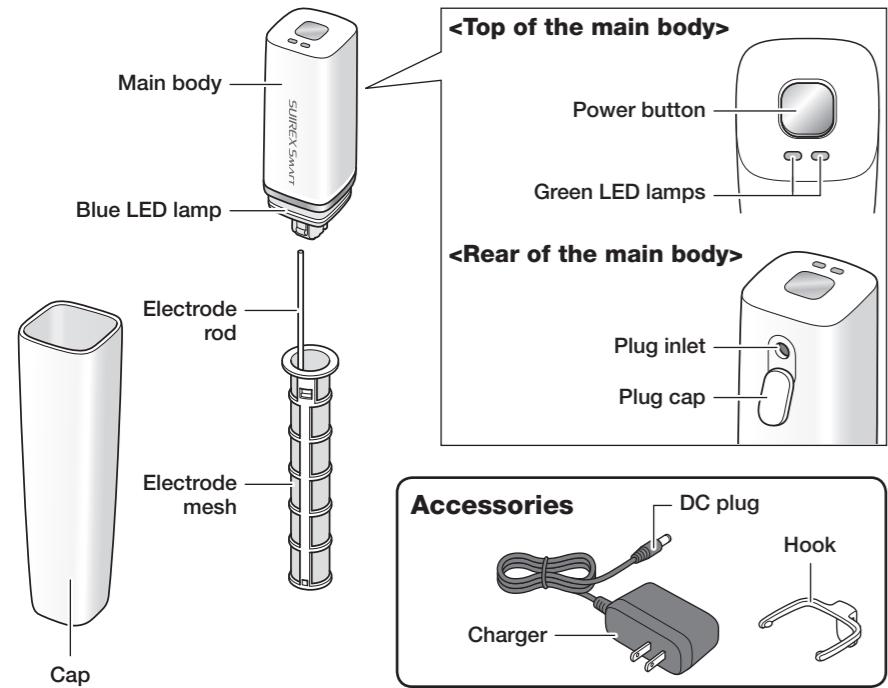
Hydrogen Water Generator

SUIREX SMART

Operating Instructions [With Warranty Certificate]

- Read the "Safety Precautions" before use, and use the product correctly.
- Store the Operating Instructions in a safe location, and use when it is required.

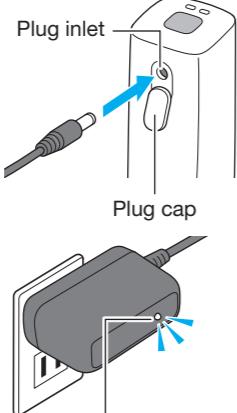
Name of Each Part



Charging

Make sure to charge before using the product for the first time.

- 1 Open the plug cap, and securely insert the DC plug of the charger into the plug inlet.



- 2 Connect the charger to the wall outlet.

The LED lamp on the charger will illuminate in red while charging. It will illuminate in green once the charging is completed. Disconnect the charger from the wall outlet once charging is completed.

* The charging time for the first time varies depending on the condition of the shipment.

* It takes about 1.5 hours until it is fully charged.

- Always close the plug cap once the charging is completed.
- Guideline of how many times the product can be used after charging once (Varies depending on the condition of the water to be used)
 - For 10-minute mode: Approx. 7 times
 - For 20-minute mode: Approx. 4 times
- Charge approximately once a year to prevent performance degradation due to self-discharge and to prevent fluid leak when the product is not to be used for a long period of time.
- The battery is a consumable part. General guideline for replacement is approximately 1800 uses (approximately 5 years when used twice daily) (there will be a cost for replacement). Consult with the retailer or COSMOS Inc., for replacing the battery.

Water to be Used

Use tap water (cleaned water) or mineral water.

The concentration of generated hydrogen will vary depending on the water quality of the used water.

● Hydrogen is not generated by water not containing minerals (distilled water or pure water).

● The product will not operate when used with water with conductivity too high. The blue LED will flash rapidly.

● Use water between 5 and 40°C. The product may not operate normally in a temperature out of the range.

● Do not use in any beverages other than tap water or mineral water. (Such as carbonated beverage, sports beverage, etc.)

● White object (minerals such as calcium) may float or deposit in the water when mineral water high in hardness is used. There is no problem with the water quality of the generated hydrogen water, but it may damage the electrode.

How to Use

Repeat following procedures 1 to 3 for 3 or 4 times before using for the first time (discard the water that was used).

1 Remove the cap of the main body.

2 Insert the electrode into a container such as a plastic bottle.

Be careful so the container does not tip over with the weight of the main body.

- The water may spill over when the electrode is inserted or when hydrogen is generated depending on the manufacturer of the mineral water. Use in a location where there is no problem of getting wet.
- Do not use hot water 40°C or hotter. Doing so may cause deformation or damage of the main body.

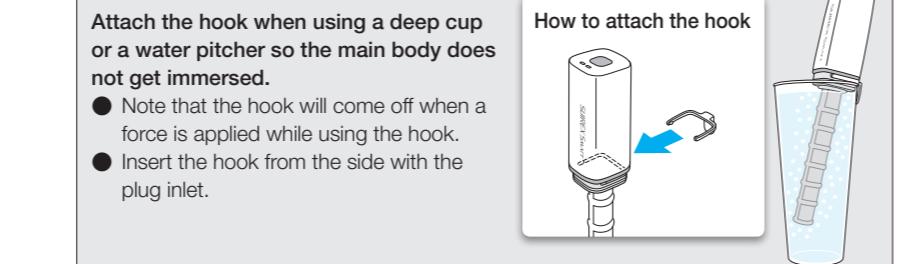
The container that can be used

- Plastic bottle with capacity of 500 ml or less (with internal diameter of the mouth with 20 mm or larger)
- Water pitcher
- Cup
- Canteen

Note

Attach the hook when using a deep cup or a water pitcher so the main body does not get immersed.

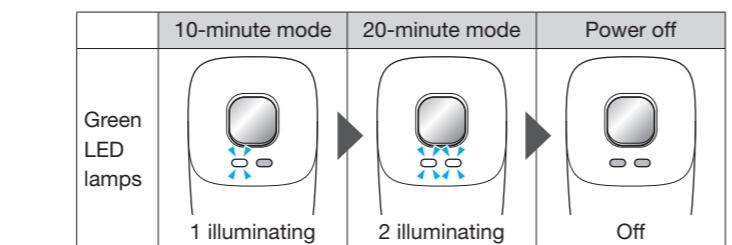
- Note that the hook will come off when a force is applied while using the hook.
- Insert the hook from the side with the plug inlet.



3 Start generation of hydrogen by pressing and holding the power button.

The mode is changed by pressing and holding the power button.

Set to 20-minute mode when a larger amount of hydrogen is to be dissolved.



- Generation of hydrogen will start when the mode is set. The blue LED lamp will flash slowly while generating hydrogen. The power is automatically turned off when the set time has elapsed.
- The dissolved hydrogen concentration will decrease over time. Consume the hydrogen water quickly after it is generated.
 - Charge when the green LED lamps are alternately flashing.
 - Hydrogen can be generated while charging, but the safety mechanism will operate 1.5 hours after the charging is started, and charging will be stopped. To continue the charging, disconnect the charger from the wall outlet once, and connect it again.

After Using

Remove the electrode from the plastic bottle, etc., wipe off the moisture in the electrode with a dry cloth or tissue paper, dry thoroughly, and then store in the cap.

- Do not touch the electrode directly with hands for the hygienic reason.
- Do not flip the main body upside down while the electrode is wet. Water will drip onto the main body.
- This is not totally waterproof, so wipe off immediately with a dry cloth or tissue paper when water drips onto the main body.
- Bacteria may culture when there is moisture, so take extra caution. Also, periodically wash inside the cap and dry it thoroughly.

Caution

- Do not clean this product with organic solvent (thinner, benzine, etc.). Doing so may cause deformation, discoloration, or damage.
- Do not rub the electrode with a hard object such as brush, etc. Doing so may cause failure or lower performance.
- Do not use neutral detergent or alcohol disinfectant to clean the electrode. Doing so may cause failure.

Cleaning After Use

Cleaning of the Electrode

Guideline for cleaning When white incrustation forms on the electrode

White incrustation will form on the electrode mesh when used repeatedly (this is the minerals in the water precipitated, and it is harmless). Generation of hydrogen will decrease when there is white incrustation on the electrode, so clean the electrode in the following method.

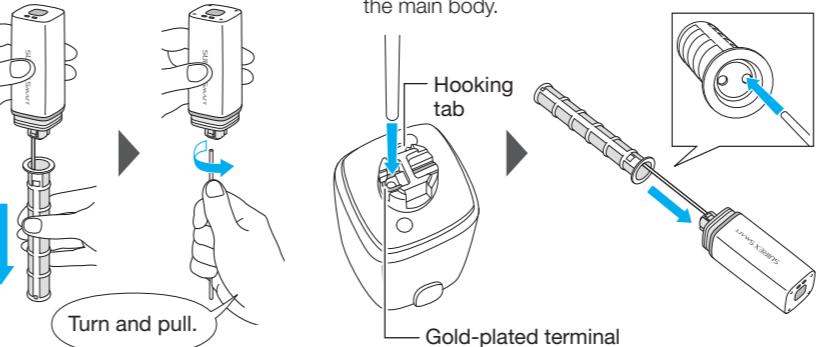
- (1) Immerse the electrode for approximately 24 hours in a commercially available pot cleaning agent (or food grade citric acid, etc.).
- (2) Rinse thoroughly with water, and wipe the water off.

- The electrode is a consumable part. General guideline for replacement is approximately 1800 uses (approximately 2.5 years when used twice daily) (there will be a cost for replacement).

How to remove the electrode How to attach the electrode

Remove in the order of the electrode mesh, and then the electrode rod.

(1) Insert the electrode rod into the main body.
(2) Attach the electrode mesh to the main body.



- Do not apply excessive force on the hooking tab and gold-plated terminal when inserting or removing the electrode mesh or the electrode rod. Doing so may cause damage or contact failure.
- The electrode rod may get scratched when the electrode rod is inserted or removed, but this will not affect the performance.

Troubleshooting

Symptom	Reason	Action
The LED lamp does not illuminate even when the power switch is pressed and held.	The battery is dead.	Charge the battery.
	The battery is at its end of life.	Consult with the retailer or COSMOS Inc.
Left and right green LEDs are rapidly flashing alternately.	The battery is close to empty.	Charge the battery.
	It was used while the charger is connected.	The safety mechanism is operating. Disconnect the charger from the wall outlet, and charge by connecting it again.
Overcurrent	Replace the water to appropriate one.	
The blue LED is flashing rapidly.	Electrode shorting	Confirm that the electrode mesh is not contacting the electrode rod. Replacement is required if it is deformed (with charge).
Contact failure	Confirm if there are any impurities affixed to the electrode, and clean it if there is any.	
The blue LED turns off immediately after illuminating.	The electrode is not immersed in the water.	Insert the electrode so that more than half of it is immersed in the water.
The electrode has discolored to brown or rainbow color.	Chemical reaction	This does not affect the performance, so use it as it is.

* Consult with the retailer or COSMOS Inc., if the symptom does not improve with the above method.

Safety Precautions

The precautions described here are for using the product safely and correctly, to prevent harm and damage to the people using the product and other people. The contents assumed to occur by incorrect usage are categorized to "Danger," "Warning," and "Caution." They all are important contents regarding safety, so always abide to them.

Example of pictogram

Description of the prohibition may be described in the figure.



Danger	This is the content with imminent danger that may cause death or severe injury.
Warning	This is the content assuming possibility of death or severe injury.
Caution	This is content assuming possibility of injury to a person or property damage with incorrect handling.

Handling of the rechargeable battery

Danger

- Wash with water without rubbing and immediately consult the physician when the fluid from the battery has gone into the eyes.
- Immediately wash with running water when the fluid from the battery has contacted the skin or clothing.
- There is a possibility of causing a damage.

Handling of the Product

Warning

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

- Use in an AC 100 V region. Not doing so may cause electric shock or accident.

- Disconnect the DC plug from the main body and disconnect the charger from the wall outlet when cleaning.

- Not doing so may cause electric shock or accident.

- Do not use for any purpose other than the intended purpose.

- Do not place close to flame or the heating equipment such as stove. Doing so may cause fire, electric shock, or failure.

- Do not use if there is any damage or abnormality.

- Continue to use may cause electric shock or ignition. Consult the retailer.

- Do not immerse or pour water on the main body or the charger.

- This product is not totally waterproof, so doing so may cause electric shock or failure.

- Do not use if there is any abnormality to the main body, such as abnormally hot. Doing so may cause failure or fire.

- Always consult with the retailer or COSMOS Inc., when discarding.

- Do not use or charge in a location that has high humidity or water may splash, such as bathroom.

- Doing so may cause electric shock, shorting, or ignition.

Caution

- Do not charge with anything other than the supplied charger. Doing so may cause ignition or failure.

- Do not charge the charger from the wall outlet when not charging. Not doing so may cause overheating or ignition.

During use

Warning

- A person applicable to the following should consult with a physician before using.

- A person receiving treatment by a physician
- A person with a kidney disorder (person with restriction of fluid intake)
- Any other person who has physical abnormality

- Do not use or store in a location where a child or pet can reach.

- Doing so may cause electric shock, injury, accidental ingestion.

Precaution of Use

Take note of the following points when using. Using in an incorrect method may cause failure.

- Do not drop, step on, place something heavy on top, twist, or apply strong impact.
- Do not apply excessive force, bend, or twist when inserting the electrode or plug. Doing so may cause damage or failure.
- Take care not to press the power switch when carrying the product.
- This product is not a medical device. Also, remedy of pre-existing condition or beauty effect by using this product is not guaranteed.
- Note that the repair will be with charge (customer is liable for the shipping) even during the warranty period for the failure due to immersion into water.

Specifications

Size	Approx. W 37 x D 37 x H 237 (mm)
Mass	Approx. 210 g (including battery and charger)
Battery	Nickel hydride battery, capacity 800 mAh
Charging time	1.5 hours
Charger	Input: AC 100 V, 50/60 Hz, 0.15 A Output: DC 5.5 V, 0.65 A

Made in Japan

When discarding

This product uses a nickel hydride battery. Nickel hydride battery is a precious resource that can be recycled.

Always consult with the retailer or COSMOS Inc., when discarding the used product.



Warranty Certificate

Product name	SUIREX SMART

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