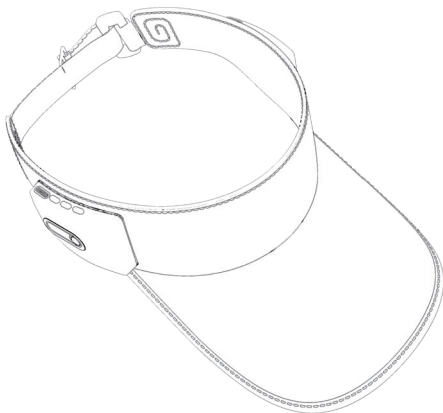


Solar-Powered Smart Audio Hat



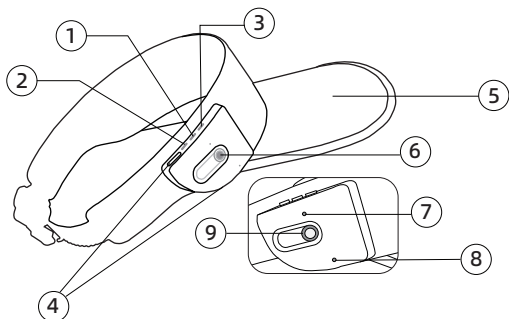
User Manual

Thank you for purchasing this solar-powered smart audio hat. To ensure optimal performance, please read this manual thoroughly before use and follow all operating instructions.

Catalogue

Product Introduction	1
Product Parameters	1
Key Operation	2
Solar Panel	3
Charging Introduction	3
Start and Bluetooth Pairing	4
Troubleshooting	4
Safety Precautions	5
FCC Statement	6

Product Introduction



- | | | |
|----------------------------------|---------------|-------------------------|
| ① Power Button | ② Volume - | ③ Volume + |
| ④ Speaker | ⑤ Solar Panel | ⑥ Multi-Function Button |
| ⑦ Solar Charging Indicator Light | ⑧ Microphone | ⑨ Breathing Light |

Product Parameters

Product Name:
Solar Smart Audio Hat

Pairing Name:
LONNV P100

Net Weight:
162±5g

Frequency Response:
20Hz-20kHz

Bluetooth Version:
Bluetooth 5.4

Dynamic Driver Unit:
22mm

Bluetooth Distance:
Up to 12m

Battery Capacity:
500mAh

Waterproof Resistance:
IPX5

Charging Method:
Solar Charging
Type-C Charging

Maximum Charging Power:
1.3W

Audio Codec:
SBC, AAC

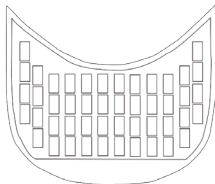
Button Operation

Button	Operation
Power Button	Long press: power on / off
Power Button	Short press four times quickly (when powered on): restore factory settings
Multi-Function Button	Single press: answer / end call
Multi-Function Button	Double press: decline incoming call
Multi-Function Button	Single press: play / pause
Multi-Function Button	Double press: activate / deactivate voice assistant
Volume +	Long press: next track
Volume -	Long press: previous track
Volume +	Single press: increase volume by one level (maxed out)
Volume -	Single press: decrease volume by one level (down to mute)

Solar Panel

High-Efficiency Solar Cell :

Equipped with high-efficiency 161 Sunpower solar cell , it delivers higher conversion efficiency and excellent low-light response. Additionally, the product features a sleek appearance, high system safety, and superior weather resistance.



161 Sunpower Solar Cell Parameters:

Maximum power: 1.3 W

Dimensions: 18*8.32mm

Peak operating voltage: 6.6V

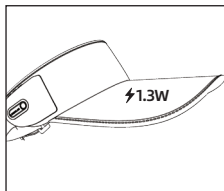
Peak operating current: 200mA

Open-circuit voltage: 8V

Charging Instruction

Solar Panel Charging:

The integrated design of Solar Panel and Visor converts sunlight directly into electrical energy with a maximum output of 1.3W, enabling direct charging or power supply for Bluetooth headphones.

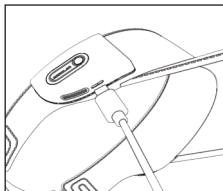


Type-C Charging:

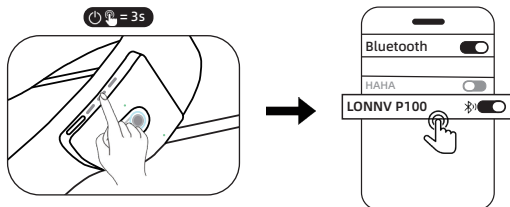
Input: 5V/0.5A

The white light flashes during charging.

The white light turns off once fully charged.



Start and Bluetooth Pairing



1. Power on: In the off state, long-press the middle button for 3 seconds to enter pairing mode, and the White light flashes
2. Pairing: Search for the Bluetooth name "LONNV P100" on your phone, and tap the name to pair
3. Pairing successful: The white light flashes and then turns off (Prompt tone will play).

Note: the device can only connect to one bluetooth device at a time. To pair with a new device, disconnect the current device first.

Troubleshooting

Problem Issue	Solutions
Failed bluetooth connection	1.Restart the device; 2.Clear the bluetooth cache on your phone and reconnect
The volume is too low	1.Check the device volume level; 2.Clean dust from the speaker grilles
No response when charging	(for solar charging); retry charging

Safety Precautions

Daily Maintenance:

1. Proper use of the Solar Smart Audio Hat can extend its service life.
2. Do not place heavy objects on it during use to avoid deformation and damage.
3. If the surface of the hat is damp, please wipe it with a dry cloth and dry it at room temperature.
4. As the solar hat contains core components such as charging cables and circuit boards, it cannot be washed with water.

Precautions for Solar Charging:

1. Ensure the solar panel is unobstructed during charging. Even partial shading may significantly reduce charging efficiency.
2. Although the solar panel has a certain water-resistance, we recommend protecting the hat in heavy rain or severe weather to prevent water damage to the solar panel and charging port.
3. Excessive bending will damage the internal solar cells and circuits of the solar panel, leading to performance degradation and a shortened service life.
4. The charging performance of the solar panel on the smart audio hat is affected by environmental factors, mainly including: sun elevation angle, light intensity, ambient temperature, and object obstruction.
Sun elevation angle: best charging efficiency is achieved when the solar panel faces the sun directly (perpendicularly).
Light intensity: the stronger the sunlight, the higher the charging efficiency.
(Note: Excessively high / low temperatures and physical obstruction will significantly reduce charging efficiency.)

Note: All performance parameters above are based on test data.
Actual usage effects may vary due to environmental fluctuations.

FCC Statement

**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;
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

CE FCC UK
Made in China