



Customer Service Hotline

400-161-8661

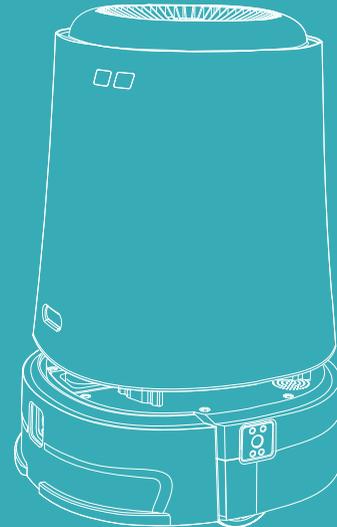
<http://www.boocax.com>



Better Robot, Better Life.



Quick Guide



Penguin

Plasma Air Sterilization Robot

1 Unpack & Inspect items

Check items

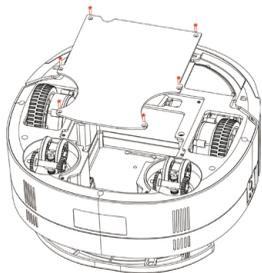
- (01) Robot cabin
- (02) Robot chassis
- (03) Charging pile, power cord
- (04) Warranty card
- (05) Quick Guide
- (06) Positioning QR code
- (07) Battery

2 Assembly

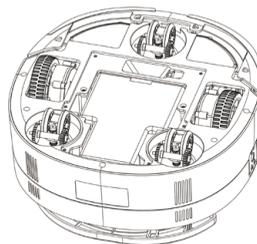
1. Install battery

Tips:

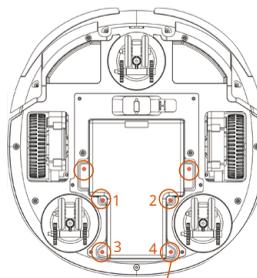
1. This battery assembling only applies to the situation that the robot and its battery are shipped separately
2. Without the manufacturer's permission, please do not disassemble the battery privately



- (1) Take out the 6 screws shown in the picture, and take out the battery cover at the same time;

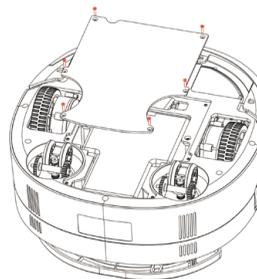


- (2) With the battery connector facing down, gently put it into the battery slot;



- (3) When the battery is placed in the battery slot and the four corners are on the same level, the battery is placed in the predetermined position. At this time, use 6 screws to fix the battery in the designated position;

Screw hole



- (4) After the battery is fixed, put the battery cover and 6 screws just removed back to their original positions. (Note that the screws that fix the battery cover cannot be used to fix the battery, and the two screws are nonstandard).

2. Docking the chassis and the cabin

(1) The direction of the cabin camera and the chassis camera should be consistent;

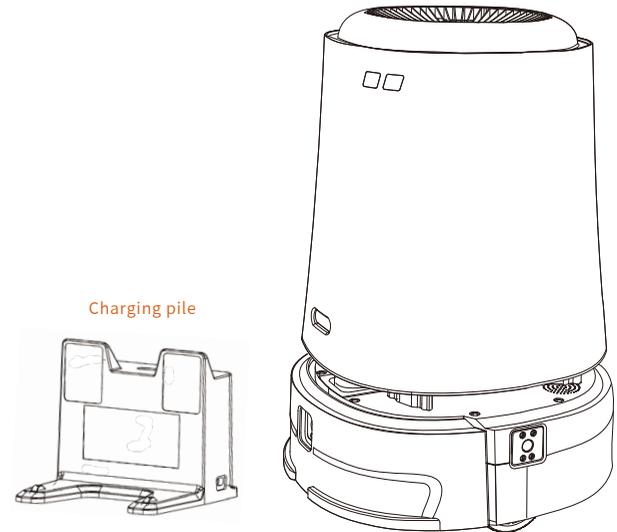
(2) Hold the cabin in hand and align it with the chassis front and rear;

(3) Put it down vertically and smoothly, and you can hear the click sound of the buckle in place, indicating that the installation is in place. Press lightly to confirm whether the upper and lower joints are firmly attached .



3. Place the charging pile

Place the charging pile against the wall and connect the power cord



3 Download & Install

Robot APP



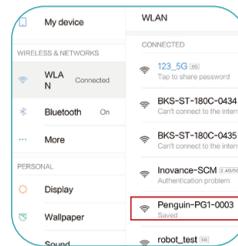
4 Start-up, Registration



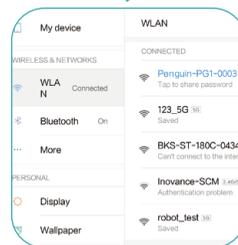
(1) Place the charging pile against the wall and connect the power cord before starting;



(2) Press and hold the power button until you hear the buzzer and release it;



(3) Turn on the WiFi of the Android device and connect the WiFi name of Penguin;



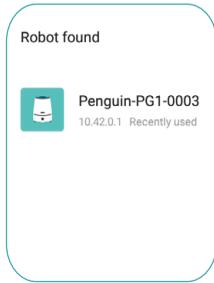
(4) As shown in the figure , click on Penguin Wifi name Penguin-PG1-XXXX, and prompt "tap to share password" robot 123, the connection is successful.

5 Connet robot

Penguin APP

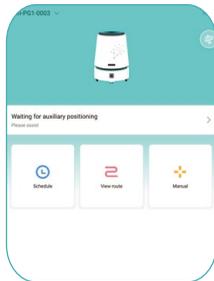


Serial Number



Next, open the Penguin APP, display the Penguin serial number (shown as below), click to enter the APP interface

Home Page



5 Connet robot

Notes:

1. The principle of WiFi configuration is that the mobile phone sends the WiFi account and password in the environment to the robot through Bluetooth, and the robot starts to connect after receiving the information;
2. The network distribution process is relatively slow, and it may also occur that the configuration is unsuccessful and requires multiple configurations;
3. After the configuration is successful, Penguin will automatically turn off its own hotspot WiFi (Penguin-PG1-XXXXXX). If you need to search for the robot, you need to connect to the WiFi connected to Penguin, and you can see it in "Local" page.

6 Build a scene map

Build a map



(1) Click "**Deploy**" at the bottom of the homepage- "**Build a map**";

(2) Click " Build New Map" , start building the scene, at this point you can name the newly built map;

(3) Push or remotely control the robot to build a map of the area to be delivered (LIDAR scanning). It is recommended to push the robot by hand when building the map to improve efficiency.



7 Deploy walking route

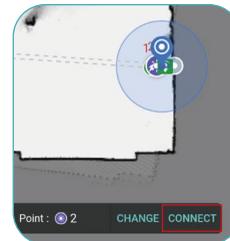
Rapid Deployment



(1) Deploy route - rapid deploy, follow the prompts to set the "charging point", "path point" and "disinfection point".

Disinfection point:
the point where disinfection must pass

Path point:
assist in setting the working path;



(2) Set the walking path interface, you can use the "CHANGE" and "CONNECT" button to improve efficiency. "CHANGE" means to switch different position points, and "CONNECT" can connect two position points;

(3) Road planning supports editing functions to facilitate the adjustment of the robot's walking route at any time.

8 Precautions:

Composition Precautions

Precautions for composition :

(1) When composing a picture, it is recommended to start from 1m in front of the charging pile; after scanning the work area, you need to return to the starting point of the composition and use the APP to complete the composition;

(2) When building a map, do not get too close to the wall and keep a distance of at least 0.5m;

(3) The operator must stand behind the robot to avoid leaving image noise on the map;

(4) When turning, walk slowly to allow the robot to collect as much feature point data as possible.

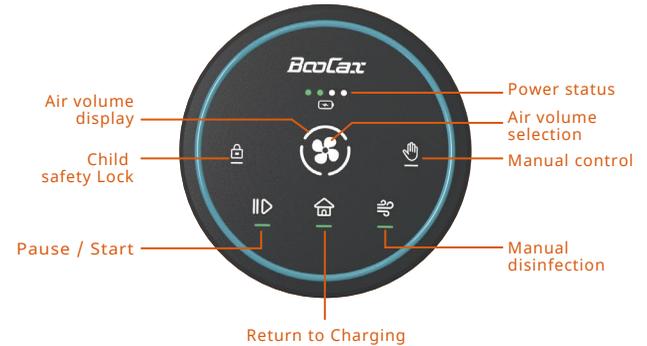
(5) In abnormal environments (glass, mirror, pure black objects, grids, etc.) lidar will not be able to identify accurately, it is recommended to use appropriate Auxiliary processing, such as pasting frosted stickers, gray tape, reflectors, etc.;

(6) If the scene is too large, you can use "INCREMENT" to repair and expand the map;

(7) When passing through the QR code, stay in front of it for more than 1s and there will be a corresponding voice prompt when the entry is successful.

9 Panel control

Panel control



(1) Function button status light description:

- Green always on - task's being executed
- Blinking Green - task paused
- Green off - task terminated

(2) Description of lighting status:

- Blue always on - Disinfection unit switched on
- Blue goes out - Disinfection unit off

10 Legal Disclaimer

Legal Disclaimer

★ Please clear all kinds of obstacles blocking the robot's route before the robot works (Sills higher than 10mm, narrow doors less than 600mm, and slopes greater than 5 degrees), so as not to affect the normal operation of the equipment;

★ Please use disinfectants that meet the local disinfection product qualifications and are used for air disinfection. The types include: chlorine dioxide, hypochlorous acid, hydrogen peroxide, etc. Before adding disinfectant, be sure to follow the national disinfection technical specifications and refer to the manufacturer's instructions. For implementation, if the disinfectant liquid needs to be diluted for use, please use pure water;

★ The company will not be responsible for the loss caused by exceeding the scope of use.