



USERS OF THE PRODUCT SERVICE MANUAL

产品用户手册

AI Fearless Clean Endless

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Introduction

◆ Thank you for purchasing ADIBOT equipment from UBTECH ROBOTICS CORP LTD. This user manual is only applicable to the operation of ADIBOT.

◆ In order to ensure safe use of ADIBOT and quickly grasp the usage method, please read this manual carefully.

◆ Children under 12 years old should use this product under the guidance of adults.

◆ This manual is for user's reference and guidance only, and the description may not be detailed enough. If you encounter problems that cannot be solved, please contact our company for technical support.

◆ This manual will be updated from time to time, and the latest user manual will add the latest content and pictures without further notice.

◆ The model approval code of this product is displayed in the form of "product nameplate label". The nameplate label is affixed to the lower part of the back of the robot.

◆ This product contains a wireless network card module, this module is an integrity module, has FCC certification, the model approval code is FCC ID: 2AHJX-ADAS101.

◆ This product contains a wireless Bluetooth module. This module is an integrity module and has FCC certification. The model approval code is FCC ID: ****-12F-YBX01.

Part 1 Product Overview

1.1 Package List



- UVC Mobile Disinfection System *1
- UVC power cable *1
- UVC remote controller *1
- UVC warning sign (Door Sensor) * 1
- UVC protective cover
- UVC goggle *1
- Dosimeter cards *10
- UVC lamp *2 (back up)

NOTE:

- Remote controller use AAA battery *2
- Warning sign use AA battery *8
- AA battery and AAA battery are not equipped in ADIBOT

1.2 Product View



Front: PIR infrared sensor, camera, UVC tube, reflector, push rod, horn, universal wheel with brake, Daisy chain.

Back: switch key, emergency stop switch, chassis, fan port, charging port

1.3 System Framework



Part 2 Safety Information

Please read the following information carefully, the company will not be responsible for direct or indirect losses caused by improper use of the product.

Note: To ensure safety, it is strongly recommended that users follow the following safety regulations when operating the robot.

This manual does not guarantee to cover all possible situations.

The "ADIBOT" and "equipment" ("it", "its") referred to in this manual are ADIBOT equipment, and "you" ("your") refers to the user.

Note:

Please guardians to ensure that children under 6 years old stay away from ADIBOT!

Please keep pets away from ADIBOT!

2.1 Device Security

2.1.1 General

If you have no experience in operating robots, you need to be especially careful. Because you may not be familiar with ADIBOT operation at first.

Do not use robots to implement operations related to personal safety.

2.1.2 Operation Instruction

Danger

If there is no emergency, it is recommended not to touch it while ADIBOT is performing its task.

Do not put your toes under the chassis of ADIBOT, as it may run over your toes.

Warning

Please ask professional technical personnel or personnel familiar with product to operate ADIBOT.

UV light has the risk of burning skin and eyes, and may cause temporary blindness. Therefore, please do not stare at the turned on UVC lamp for a long time.

Do not insert any foreign objects into the gaps in the device, otherwise it may cause electric shock or short-circuit failure.

<p>Please keep ADIBOT dry, and avoid contact with oil, steam, water vapor, moisture, dust layer and other substances of the camera driven by the device. The normal working humidity range of ADIBOT is 10%-85%.</p>
<p>The normal working temperature range of ADIBOT is 0-40 degrees Celsius (32-104 degrees Fahrenheit). Please keep ADIBOT away from open flames and heat sources, and avoid direct sunlight, so as not to damage the image sensor of the camera.</p>
<p>Do not cover its sensor, otherwise it may affect the normal operation of its camera and sensor.</p>
<p>Do not use harsh cleaners or organic solvents to wipe the camera lens.</p>
<p>All maintenance work should be carried out under the guidance or supervision of ADIBOT technicians.</p>

Attention

<p>Do not lean on ADIBOT.</p>
<p>In order to reduce the risk of electric shock, please choose a three-phase plug with a bottom line connection. If the plug does not fit the socket, please contact a professional to complete the correct installation of the socket.</p>
<p>If your device is out of control, press the emergency stop button.</p>
<p>ADIBOT can only be used indoors, please do not use it outdoors.</p>
<p>On uneven ground or slopes, please carefully push the equipment, especially the daisy chained equipment.</p>
<p>When ADIBOT is working, please do not stand in direct contact with UVC light (unless you wear the necessary protective equipment), so as not to affect AIMBOT's task execution.</p>
<p>The lamp tube contains mercury. Please dispose of the broken lamp tube in accordance with local laws and regulations.</p>
<p>If ADIBOT works abnormally, especially when you detect unusual sounds, smells or smoke, please take precautions and immediately press the emergency stop button, turn off the power, unplug the plug, and contact the ADIBOT technical support center.</p>



UVC Emitter Equipment



Emergency Stop



Electrical Device



DO NOT ENTER, UVC light can harm eyes and skin



Do NOT push on tower. Use the halo handle only.



Do NOT touch the lamp. Only certified personnel allowed.



Warning Sign



System Cooling

Part 3 Device System Operation

ADIBOT should be used as a supplement rather than a substitute for sanitation and sanitation. Normal cleaning and disinfection could be carried out before using UV disinfection, and then follow the steps below to deploy UV disinfection:

Step 1 After completing the basic cleaning and finishing, you can deploy ADIBOT's disinfecting system;

NOTE: Remove the object or paper to ensure that the place or object that needs to be disinfected can be exposed to ultraviolet light Under the light.

NOTE: If the home in the room moves, you need to move ADIBOT for a round of disinfecting.

Step 2 Place the device at the designated location in the room, place the access card at the door and turn it on;

NOTE: Ensure that the EMERGENCY STOP button is not pressed before activation.

IMPORTANT: If the operator does not exit the room to be disinfected within 20 seconds, the device will detect people and cause the disinfecting task to fail to start. At this time, the operator should restart the disinfecting task.

During the disinfecting process, the "XXXX access control card" should be placed in a place where people can see it to prevent people from entering the site to be disinfected.

Remove the object or paper to ensure that the place or object that needs to be disinfected can be exposed to ultraviolet light Under the light. If the home in the room moves, you need to move ADIBOT for a round of disinfecting.

Step 3 The operator leaves the room and closes the door to prevent anyone from entering the disinfecting site. Place the warning sign at the door and turn on it.

Set and start the disinfecting task on the Web terminal;

Plug the ADIBOT into the power source and press the switch on the back of the device base to start the device. After leaving the disinfecting site, the operator accesses the designated IP address to log in to the control software of the device through the mobile phone, sets various parameters on the software and executes the disinfecting task.

Note: When the device is turned on, the infrared human detection sensor will stabilize after 30 seconds. After setting the disinfect time, start the disinfect task (or set or start via the remote control). After the task is started, there is a 20-second countdown to remind the operator to leave the disinfecting site. When the time is up, the UV lamp will be lit and the disinfecting will start.

Important: The operator must leave the disinfecting site before the end of the countdown to avoid being exposed to UVC lights.

Step 4 After the disinfecting is over, enter the room to push away the equipment and close the access card.

After the disinfecting task is completed, the phone screen will display "Completed". The operator can enter the room and move the equipment to other locations to be disinfected. If the task is terminated because the sensor detects an abnormality, the task needs to be restarted after the end of the task.

Part 4 Web and Remote Controller

Operation

4.1 Web Software Features

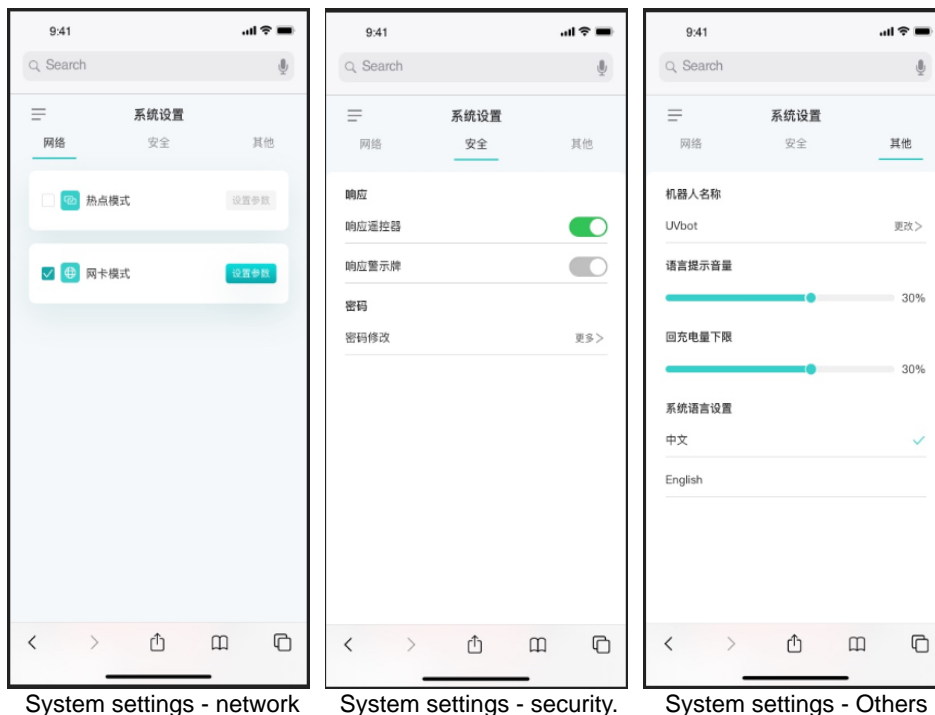
No.	Feature		Decription
1	System Settings	Internet Settings	Choose network mode or hotspot mode. Specify the Wi-Fi router SSID, password, server IP, and port. Switch to the network mode to access the central network.
2	User Login	Login	Default User: "admin" Default passwords: "123456"
3	Task Management	Disinfection Mode Settings	Choose disinfection onsite
4	Report Management		View, download reports, review videos

5	Daily Maintenance	Warning	Warning views
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4.1.1 System Setting

The system settings page provides settings for various parameters of the robot, including network, security and other parameters.

- The user can set the network card mode and hotspot mode, the default is the hotspot mode.
- Specify the Wi-Fi router SSID, server IP, and port. At this time, the Wi-Fi module will switch to card mode and access the central network.
- After selecting the hotspot mode and completing the IP settings, the user can enter the IP address in the web browser to access the software interface.
- The remote control and warning signs are on by default and cannot be modified.
- The user name cannot be modified, only the password can be modified.



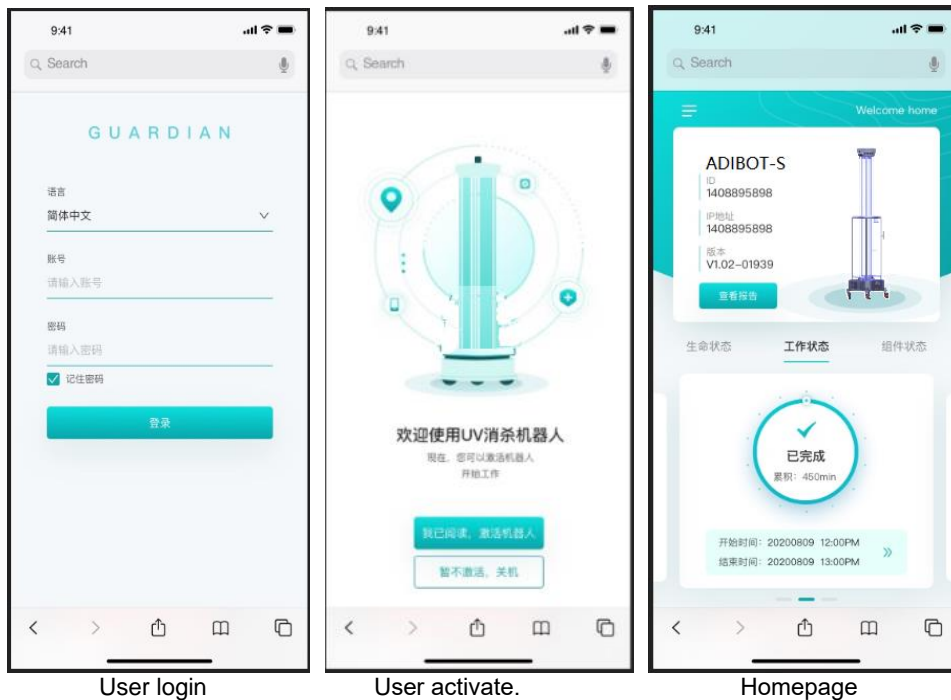
4.1.2 User Login

The effective access of the software is realized through user login, and the management of ADIBOT business can be realized only after verifying the user and password. After logging in, you can view the work, life, and component status on the home page.

- The user needs to be activated for the first login, and can access the login interface after viewing the user guide.
- The boot guide includes instructions on how to control the device, use the remote control, use the access control card, emergency stop processing, change the

password, reset the password forgotten, and remote networking mode.

- Log in to the home page to learn about the working status, life status, and component status of the device.
- Working status, display status, room, remaining time. The time and report link of the last kill mission. The status includes idle, disinfection, disinfection pause, and failure.
- Life status, showing the current usage and expected usage of the device's disk status and lamp life.
- The component status shows the main version number of the device, which is closely related to the upgrade. Component version can see the sub-version numbers of different modules, including business components and MCU components.



4.1.3 Task Management

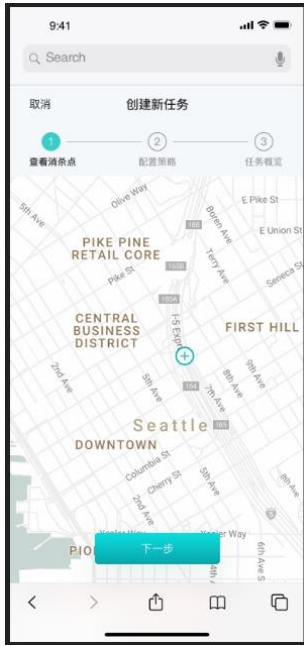
The entire disinfection process includes arriving at the disinfection room, setting the disinfection parameters, starting the disinfection, suspending/continuing the disinfection, and ending the disinfection. At the same time, because there is no central server, there is no way to watch real-time video.

- The device can only perform one task at a time.
- Kill on the spot: Start disinfection at the current position.
- The policy setting is to set the disinfection parameters that should be used for a certain disinfection point. As shown in the figure, configuring the disinfection point is divided into two parts.
 - Elimination mode: There are two levels of "full power" UV lamps with full on and "low power" with half UV lamps on.
 - "Time to kill": 3, 5, 10, 15, 30, 60 minutes.
 - The security settings are all turned on by default. Check "Access Control Card", "PIR", and "Remote Control". The user cannot cancel.
- Frequent switching affects the UV life, so the UV lamp will not be turned off while moving.

- Before starting the disinfection, ADIBOT will prompt the operator "prepare to kill, please leave as soon as possible, 20 seconds countdown." Please be sure to leave the disinfection scene within the specified time to avoid injury.
- The robot enters the arming mode: the video is turned on, the PIR is activated, and the instruction is issued to notify the access control card, and the access control card "disinfection" indicator light is on.
- When the user needs to temporarily kill UV temporarily due to emergency affairs, it can be done in the following ways:
 - Click the "Pause" button of the task on the screen;
 - Click the "Pause" button on the remote control.
- Click the software screen or the "Continue" button on the remote control to resume the disinfection, re-implement the exit reminder process, and restart the exit countdown for 20 seconds.
- When the disinfection time is up, there is no abnormality in the disinfection, and the disinfection task ends and the message "completed" is displayed.
- Man-made active control of the end of the disinfection task, prompts the "terminated" icon to display the active end; non-man-made active control, such as PIR detection abnormality and the end of the disinfection task, prompts the "terminated" icon to display passive end.
- After the task is terminated, it can no longer proceed, and the disinfection task needs to be recreated.



Create a new task



View disinfection points



Configure parameters



Task review



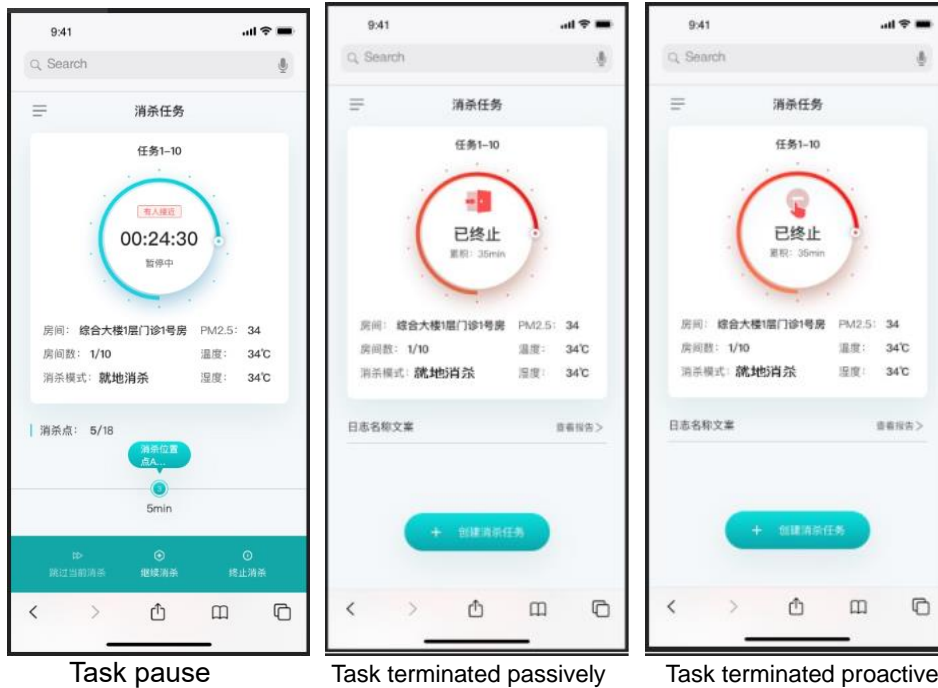
Initiation countdown



In disinfection



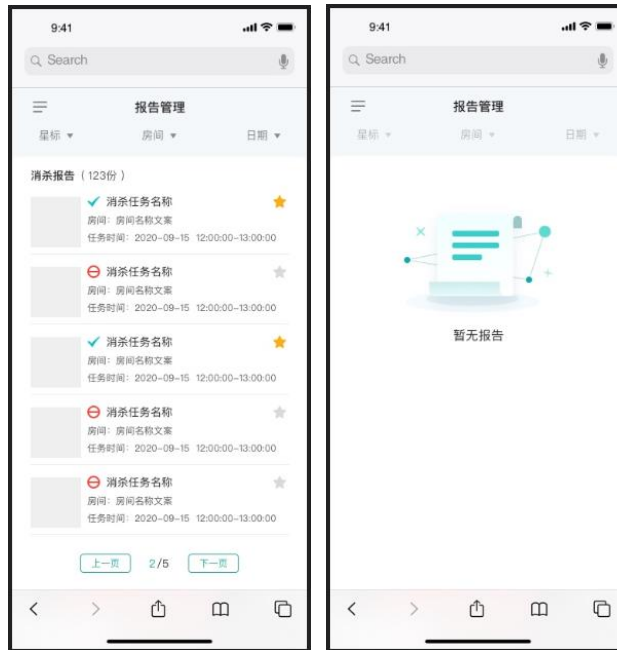
Task complete



4.1.4 Report Management

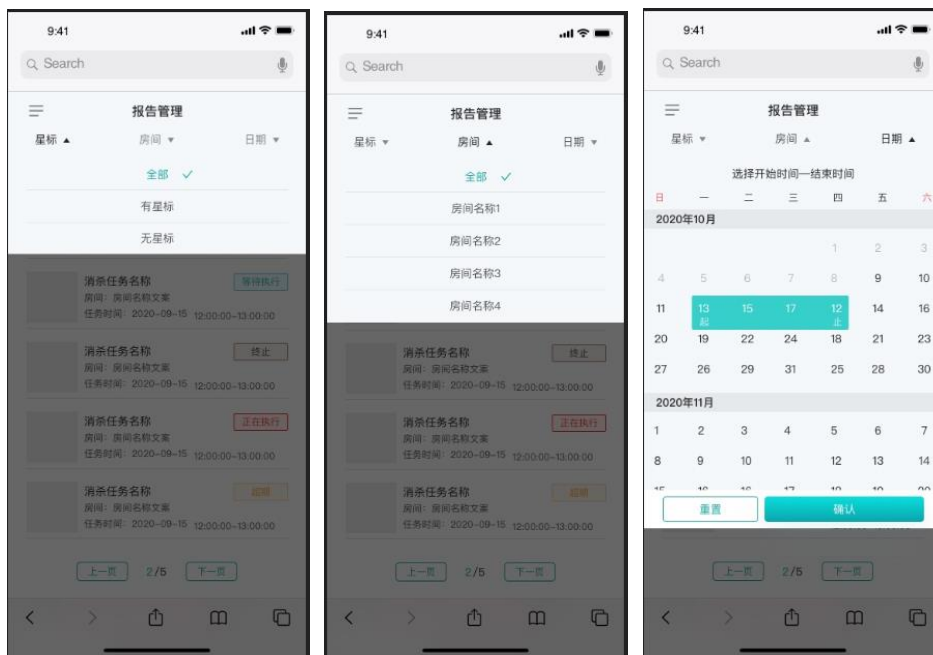
The killing report list shows the results of all killing tasks. The marking task is aborted or completed.

- The report has multiple entries:
 - On the homepage, select "Report Management" from the pop-up menu to enter the killing report list;
 - From the link of the last task on the home page, click "View Report" to enter the killing report details;
 - On the task main screen, you can quickly click "View Report" to enter the details after completing the task;
 - In the history task list, click "View Report" to enter the details.
- Click the filter icon to filter the search results of the task according to the time interval of the star, map name, calendar start and calendar end.
- The overall statistics of the report details are mainly used for data analysis of the entire killing situation, including the following:
 - Task name, start time, end time and status;
 - Number of overall killing points, overall killing completion rate, actual killing time, expected killing time, time efficiency;
 - The number of alarms. Including the number of intrusions, approaching, abnormal operation (lamps, fans, emergency stop, failure to avoid obstacles, loss of positioning, etc.).



Report management homepage

No Report



Report - Starred

Report - Room

Report - Date

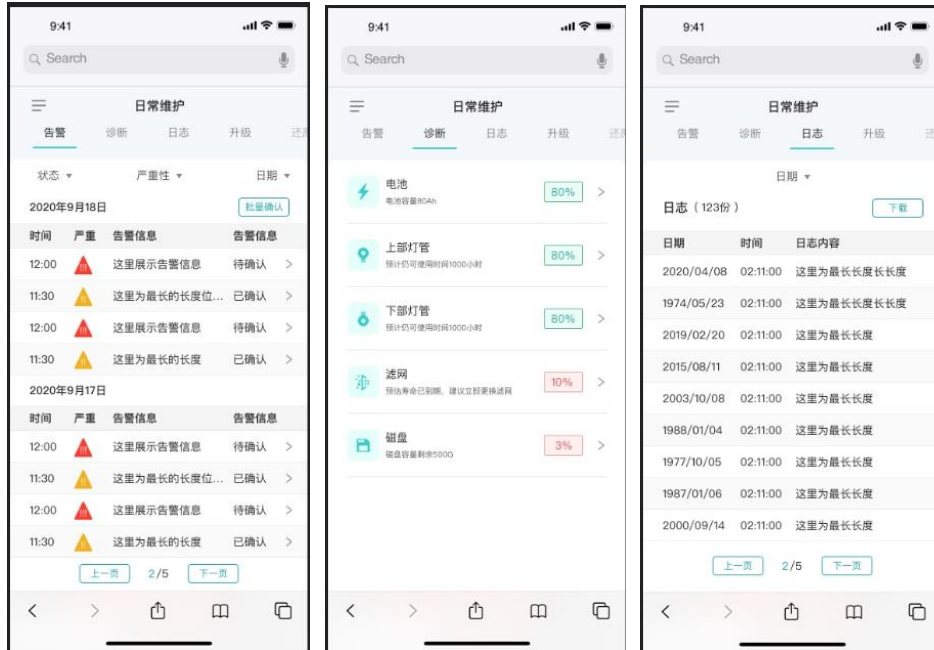
4.1.5 Daily Maintenance

Routine and routine maintenance of the equipment. The maintenance content includes alarm, diagnosis, log, upgrade and restore.

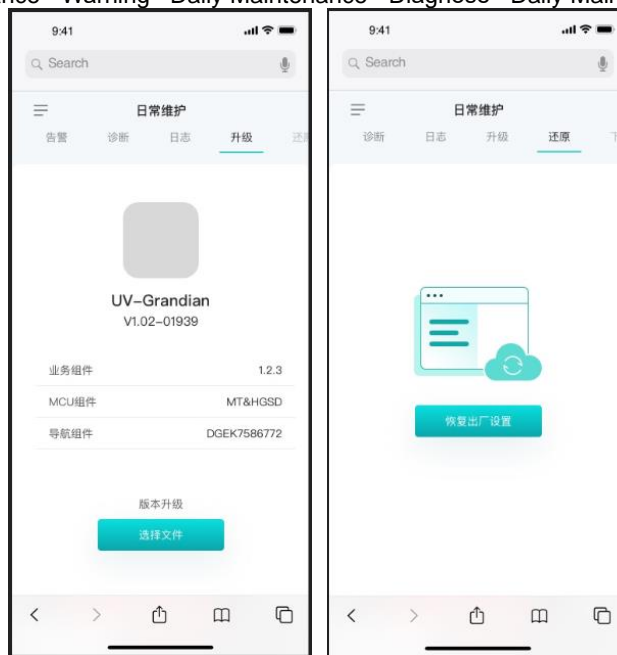
- The alarm module can obtain current system alarm information and recent historical alarm information, and users can operate on it according to their own management methods.
- The diagnostic module provides corresponding maintenance instructions based on the information and usage status of the accessories commonly used in the system.
- With the log module, users can query and download the operation log of the robot on the web page. At the same time, it can also download the robot debugging log to

the local one-click, which is convenient for customer operation, easy for operation and maintenance to troubleshoot problems, and improve response efficiency.

- The upgrade module provides the function of querying and upgrading the robot version.
- Restore the module to restore the factory settings of the robot.



Daily Maintenance - Warning Daily Maintenance - Diagnose Daily Maintenance - Log



Daily maintenance - upgrade Daily maintenance - Reset

4.2 Remote Control Feature

In addition to the control of ADIBOT via the web-side software, ADIBOT can also be activated, paused, continued or terminated via the remote control. The remote control can be used as a kind of safe equipment to prevent the termination of no network or for

emergency.



Step 1 Activate the remote control

First, you need to start ADIBOT. After 30 seconds, the software is started; then, set the remote control to be in the Bluetooth pairing state by ("Start" + "Continue" simultaneously press for 3 seconds).

Step 2 Set parameters

Set the kill time "X minutes" and set the kill mode "full power/low power".

Step 3 start operation

Start the killing mission by pressing the "Start" button, ADIBOT will start the killing mission after the 20-second countdown ends. During the killing process, the operator can pause, continue or terminate the task via the remote control.

During the entire operation, you can control the volume of the voice broadcast through the "Volume" button.

"Broadcast" button can complete the broadcast of the current status of the device.

Step 4 Stop operation

The task in progress can be suspended by pressing the "Pause" button, and the suspended task can be restarted by the "Continue" button.

For emergencies, you can completely stop the ongoing task by pressing the "Stop" button. At this time, the task cannot be continued and a new killing task needs to be restarted.

Part 5 Transporting, Clean and Storage

5.1 Transportation

If you need to transport ADIBOT, please put it in the box.

Remarks: The lamps are shipped separately, and the subsequent supplier will directly ship to the customer or the customer to purchase by themselves.

5.2 Maintenance

Warning:

Do not use abrasives, aerosols, alcohol-containing liquids or other liquids to clean ADIBOT, because they may contain flammable substances or may damage the plastic casing of ADIBOT; do not spray or shower ADIBOT with water or other liquids, please let ADIBOT Keep it dry. The product itself can be self-cleaning.

Follow the steps below to ensure safety and avoid damaging the robot:

1. Press the chassis power button to turn off the device;
2. Disconnect the charging cable from ADIBOT to ensure that the device is completely powered off;
3. Check if the lamp tube is damaged, if there is no damage, follow the next steps;
4. Clean the outside of the equipment with a soft damp cloth;
5. Thoroughly wipe the outside of the equipment with a soft dry cloth;
6. Check if the equipment is wiped dry.

Warning:

Please clean the dust on the camera and sensors. The dust will affect the normal operation of the sensors.

Do not clean the reflector behind the lamp to avoid leaving scratches on the reflector.

When the lamp tube breaks, ventilate the room for 20 minutes before disposing of the glass fragments. At this time, the gas in the lamp tube will not enter the human respiratory tract.

Note: If the equipment is damaged, abnormal sound or not working properly, please contact the local after-sales service.

Part 6 Reference

6.1 Device Specification

Dimensions	
Size	1935(H)*555(W)*555(D) (mm)
Weight	50kg
Operating temperature	0°C~40°C
Operating humidity	10 to 85% relative humidity (indoor use only)
Storage temperature	-40°C~60°C
Storage humidity	≤95% (non-condensation indoor only)
Robot Body Material	Aluminium Alloy, PC+ABS
Robot System	

Main Processor	Nvidia Nano 4GB RAM, 16GB ROM, 64G USB Storage
Main Operating System	Linux
Wireless Module	2.4GHz/5Ghz Band 802.11a/b/g/n/ac, Bluetooth 5.1
Acoustics	1x 10W Speaker
Environment sensors	PIR Sensor
Recording camera	2MP Front view , 480P
External Interface	Emergency Stop Button
Surface disinfection	
No. of lamps (Top)	8x 155W
UVC wavelength	253.7nm
UVC Intensity at 1m	min. 1000uW/cm2
Reflector	Oxidized Aluminum
Lamp Life	12000 Hours
Power Supply	
Input Voltage	~120 VAC
Current	15A
Frequency	60Hz or 50/60Hz
Motion System	
Type of Motion	4x Driven Universal Wheel
Type of Control	PC Client System, Mobile APP

6.2 Replacement Parts

Part #	Part Description
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6.3 FAQ/Troubleshooting

FAQ	Solution
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ADIBOT 无法启动	<ul style="list-style-type: none"> - 检查底盘电源插口是否松动异常； - 检查底盘开关机按键是否松动异常； - 如果问题仍然存在，请联系 AIMBOT 技术支持中心。
设备地盘过烫	<ul style="list-style-type: none"> - 如果地盘太烫且您无法触摸它，这可能是由故障引起的。 - 请迅速从插座断开，并联系 ADIBOT 技术支持中心。

Part 7 Declaration of Conformity

7.1 FCC compliance 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, and (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.

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.

7.2 FCC Radiation Exposure statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Appendix 1

产品中有害有毒物质或元素的名称及含量						
部件名称	有害有毒物质或元素					
	铅(Pb)	汞(Hg)	镉(Cd)	六价铬(Cr(VI))	多溴联苯(PBB)	多溴二苯醚(PBDE)
封装元器件	×	○	○	○	○	○
金属结构件	×	○	○	○	○	○
PCBA	×	○	○	○	○	○
塑料/橡胶件	○	○	○	○	○	○
标贴	○	○	○	○	○	○
线材	○	○	○	○	○	○
本表格依据 SJ/T 11364 的规定编制。						
<p>○：表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下。</p> <p>×：表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 规定的限量要求。</p> <p>（上表中部件铅含量超出 GB/T 26572 规定说明：铜合金、封装器件中的焊料的铅，由于技术原因，目前尚未能替代化。除非破坏产品，否则消费者接触不到相关组件）</p>						