



ADIBOT ADA201 A AI Fearless Clean Endless User Manual

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ADIBOT

USER MANUAL
AI Fearless | Clean Endless



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Preface

- Thank you for purchasing ADIBOT-A equipment from TGR Solutions, Inc. This user manual is only applicable to the operation of ADIBOT-A.
- In order to ensure safe use of ADIBOT-A and quickly grasp the usage method, please read this manual carefully.
- “ADIBOT-A”, “robot”, and “it” mentioned in this manual refer to the ADIBOT-A robot, and “you” refers to the user.
- This manual is for user’s reference and guidance only, and the description may not be detailed enough. If you encounter any problems that can not be solved, please contact TGR Solutions, Inc. 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 functions of Wireless Access Systems including Radio Local Area Networks (WAS/RLANS) within the band 5150-5350 MHz for this device are restricted to indoor use only within all European Union countries (BE/BG/CZ/DK/DE/EE/IE/EL/ES/FR/ IT/CY/LV/LT/LU/HU/MT/NL/AT/PL/PT/RO/SI/SK/FI/ SE/TR/NO/CH/IS/LI/NL).



AT	BE	BG	CZ	DK
EE	FR	DE	IS	IE
IT	EL	ES	CY	LV
LI	LT	LU	HU	MT
NL	NO	PL	PT	RO
SI	SK	TR	FI	SE
CH	HR	UK(NI)		

Disclaimer

- Failure or damage caused by the user not following the method described in the operating instructions.
- Failure or damage caused by the repair being operated by a non designated service organization.
- Failure or damage caused by unauthorized modifications of parts and circuits of this product.

- Failure or damage caused by force majeure factors (such as fire, earthquake, weather, etc) .
- Failure and damage caused by using a non-designated power supply (voltage or frequency) or abnormal voltage.
- Failure and damage caused by using a non-specified charging dock or charging cable.

Part | Product Overview

1.1 Packing List

1. Packing List

a. Robot Body*1	g. Dosimeter card*10
b. Protective Cover*1	h. UVC goggle*1
c. Safety Sign*1	i. USB Dongle(4G)*1
d. Charging Dock*1	j. Tablet PC*1
e. Power Adapter*1	k.3*50mm
f. User Manual*1	Cross Screwdriver*1



(a)



(b)



(c)



(d)



(e)



(f)



(g)



(h)



(i)



(j)



(k)

2. List of self-provided materials

- a. USB 4G SIM Card*1
- b. AA batteries*8



(a)



(b)

Note: Due to the need for better display of products, the product ratio of this icon (including all the images below) is not 1:1.

1.2 Product Overview

ADIBOT-A adopts the strongest ultraviolet sterilization band 253.7nm. It destroys the gene structure of pathogens to deprive their reproductive capacity and make them lose infectivity. Strong irradiation can eliminate more than 99.99% of harmful pathogens, including COVID-19 virus, SARS virus, fungi, and bacteria.

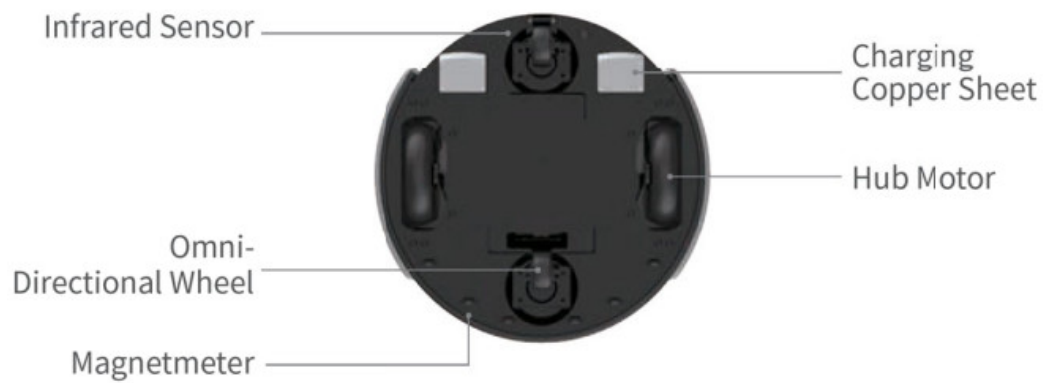
- Front View



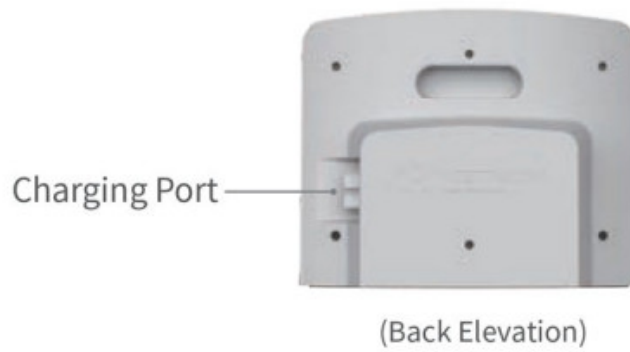
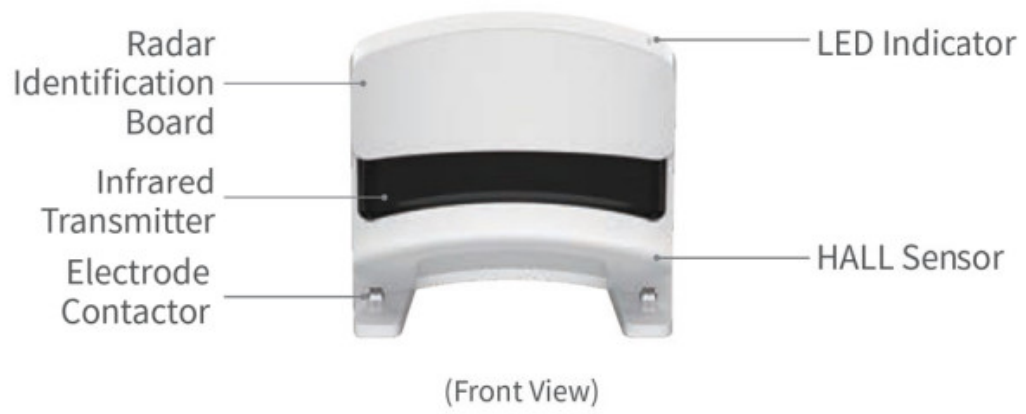
- Rear View



- Bottom View



- Charging Dock



1.3 product parameters

- Basic Parameters

Product Model	ADAA201
Product Design	Mobile tower-type robot, with lamp Set on the flanks
Product Size	555* 609* 1725(mm)
Product Weight	79kg
Tablet PC	Lenovo Tab M10 FHD Plus
Storage Temperature	-20°C-60°C
Storage Humidity	≤95%
Acoustic Equipment	amplifier speaker*2
Acoustic Equipment Power	6W*2
English Abbreviation	ADIBOT-A
Product Color	Grey lower body and stainless steel armrest
Package Size	780* 840* 1880(mm)
Gross Weight of Product	160kg
Working Temperature	0 to 40°C (for indoor use only)
Working Humidity	10%-85% (for indoor use only)
Bactericidal Factor	UVC(ultraviolet ray)
After-sales Service	1-year warranty, 2-year extended warranty can be purchased

- UVC Lamp

Disinfecting Lamp	UVC lamp 1 * 8+ UVC lamp 2 * 8
Irradiation Intensity of Lamp 1	141μW/cm²
Length of Lamp 1	851mm
Irradiation Intensity of Lamp 2	40μW/cm²
Length of Lamp 2	295mm
Total Power of Lamps	440W
Radiation Wavelength	253.7nm
Power of Single Lamp 1	41W
Life of Lamp 1	12000h
Power of Single Lamp 2	14W
Life of Lamp 2	12000h

- Main Chip and Memory

CPU	Intel X86 processor
RAM	8G
Operating System	Ubuntu 18.04
Operating System	8
ROM	64G

- Network

WiFi	2.4GHz/5GHz 802.11b/g/n/ac
Bluetooth	Bluetooth 5.1

- Battery

Battery Type	Lithium iron phosphate Battery
Charging Duration	About 3.5H
Battery Capacity	24V100AH
Disinfection Duration	About 5H in-place disinfection

- Power supply

Input Voltage	AC100-240V
Frequency	50/60Hz
Output Voltage	DC29.2V
Output Current	30A

- Motion Capability

Number of Chassis Wheels	2 driving wheels “+” 2 driven wheels
Turn Mode	Spin turn supported
Ditch Crossing Capability	$\leq 2\text{cm}$
Ditch Crossing Capability	≥ 0.5
Move Mode	Forward
Obstacle Clearing Capability	$\leq 7\text{mm}$
Climbing Height	$\leq 5^\circ$

Safety

2.1 General Rules

Please read the following information carefully. Any direct or indirect losses caused by the unnormal operation of the product will not be beared.

Cautions!

- To ensure Safety, you are strongly recommended to follow the safety rules below when operating the robot.
- Wedo not guarantee that the manual covers all the possible circumstances.
- Please operate the product carefully and ask technical suport for help if not familiar with the operation.
- ADIBOT-A is equipped with multiple safety sensors that can ensure safe operation. They work in parallel to minimize risks to r others
- Please do not use the robot to perform any operations related to personal safety.
- Please keep children under 6 years old far away from ADIBOT-A.
- Please keep any other persons , animals and plants far away from ADIBOT-A.

2.2 Safety Precautions

DANGER

Danger is a situation that will cause very serious injuries if not being avoided.

WARNING

Warning is used to indicate a dangerous situation,which may cause severe injuries if not being avoided.

CAUTION

Caution is used to remind you of a dangerous situation,which CAUTION may Cause minor or moderate injuries if not being avoided.

NOTIFICATION

Notification is used to indicate the safety practice that is not harmful to human body such as maintenance informations which may cause the robot damaged.

DANGER

- Donot touch ADIBOT-A when it is working, unless emergency circumstances.
- Donot put your toes into the chassis of ADIBOT-A, which may damage your toes.
- Donot stare at a turned-on UVC lamp for a long time,for the UV light may burn your skin and eyes, which may cause temporary blindness.
- Donot allow ADIBOT-A to be used in areas with incline, cliff or ladder.
- Donot allow any other substances fall into the gap of the robot, which may cause an electric shock or short circuit fault.
- When ADIBOT-A is operating, do not stand in a place directly exposed to UVC light (unless you are wearing qualified protective clothing). Standing there might hurt you.

WARNING

- Please make sure that ADBOT-A is operated by professional and technical personnel or those who are familiar with the product.
- Please avoid any other substances fall into the gap of the robot, which may cause an electric shock or short circuit fault.
- Please keep ADIBOT-A dry,and prevent it from being operated in a humid environment, that can prevent the camera of the robot body from coming into contact with substances such as oil, steam, water vapor, moisture and dust. The normal operating humidity range of ADIBOT-A is 10% to 85%.
- Please keep ADIBOT-A away from open fire and heat sources, for the purpose of avoiding direct sunlight, which may damage the imaging sensor of the camera,lidar and other sensors . For the normal operating temperature range of ADIBOT-A is 0 to 40°C (32 to 104°F).
- Please do not cover any sensor of the product, which can affect the normal operation of its sensor.
- Please do not use irritating detergent or organic solvent to wipe the camera lens.
- Please make sure that all the maintenance operations be performed under the guidance or supervision of a technician of ADIBOT-A.

CAUTION

- Please do not lean on ADIBOT-A.
- The ADIBOT-A ultraviolet sterilization lamp produces very little ozone during use, but the ozone concentration is harmless to human body.
- Please choose a three-phase plug to reduce the risk of electric shock.
- Please press the emergency button if your robot is out of control.
- Please make sure that ADIBOT-A is used indoors only.
- Please do not allow ADIBOT-A to be used on sloping areas.
- Please ask assistance to help pass when the ground bulge is higher than 5mm, the free push of Adibot-A is easily blocked.
- Please dispose any broken lamp according to the local laws and regulations-based on mercury which is in the lamps.
- If ADIBOT-A failed to operate normally, especially when you detect unusual sound, smell, or smoke. Please take protection measures, and immediately press the emergency button, turn off the power supply of the robot,

unplug the power cord, and contact the ADIBOT-A technical support for help.

- Please be sure to stick a geomagnetic stripe near the area where the robot may falling.

Battery Safety Alerts:

- Risk of explosion if the battery is replaced by an incorrect type.
- Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion.
- Leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas.
- A battery subjected to extremely low air pressure that may result in an explosion or a leakage of flammable liquid or gas.










2.3 Warning Sign



2.4 Charging Indicator

The lamp signals of different colors provide the operator effective status indication of the robot. You can indicate the various states of the robot through the indicator light.

Body Lights Status:

LED	Status
 Normally on in white	Normal operation
 Normally on in white	Standby mode
 Normally on in blue	In disinfection with lights on
 Blue breathing	In disinfection task
 Normally on in green	Charge finished
 Green breathing	In charging
 Normally on in red	Robot status abnormal
 Flashing red	Emergency button pressed
 Red Breathing	Low battery reminder

Device Operations

3.1 Power on/off

3.1.1 Power-on

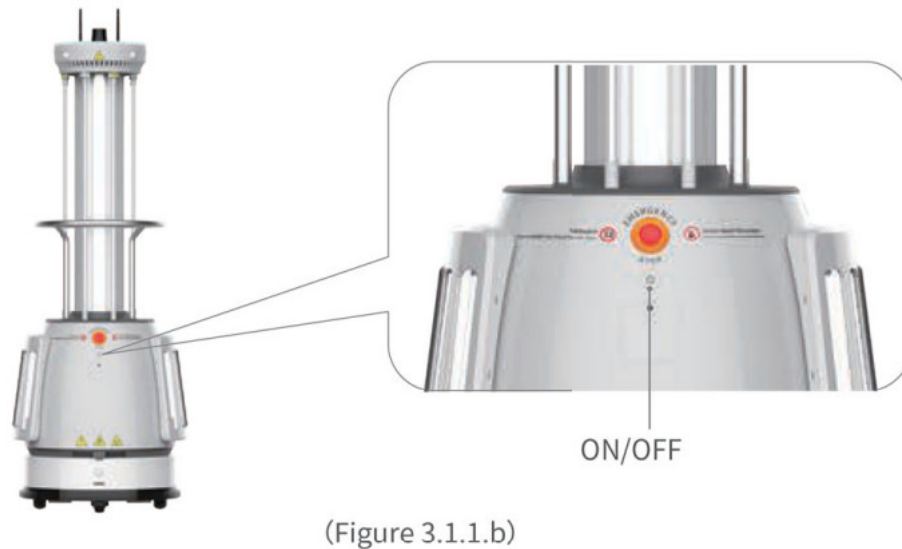
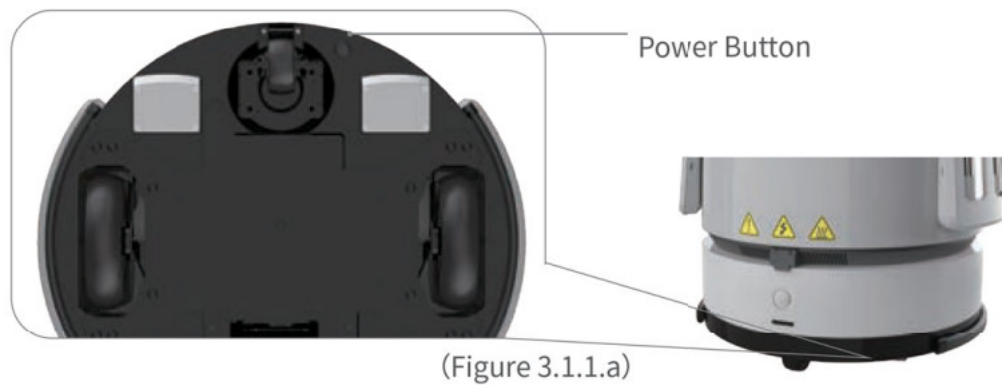
Steps:

Step 1: Press the power button (Figure 3.1.1.a) on the chassis;

Step 2: Press and hold the ON/OFF button (Figure 3.1.1.b) on the back for 3 seconds to start the robot.

Cautions:

1. Perform step 1 only if the power button is turned off, i. e. for first time use;
2. If the power button is turned on, just go to step 2.



3.1.2 Power-off

Steps:

Step 1: Press and hold the On/Off button (Figure 3.1.1.b) on the back for 3 seconds to shut down the robot;

Step 2: If the product will be used in a long time) Press the power button (Figure 3.1.1.a) on the chassis to turn off the power supply.

Cautions:

1. Decide whether to turn off the power supply according to the actual situation;
2. It is strictly forbidden to Shut down the robot by perform step 2 before step 1, as it may damage the robot.

3.2 Install the Charging Dock

Cautions:

1. Plug the charging cable into the dock and keep the back of the robot against a wall.
2. Place the charging dock on a dry and flat ground and beside a wall where few people pass by.
3. We highly recommend that no obstacles within 2m in front and 1m on the left and right of the charging dock.



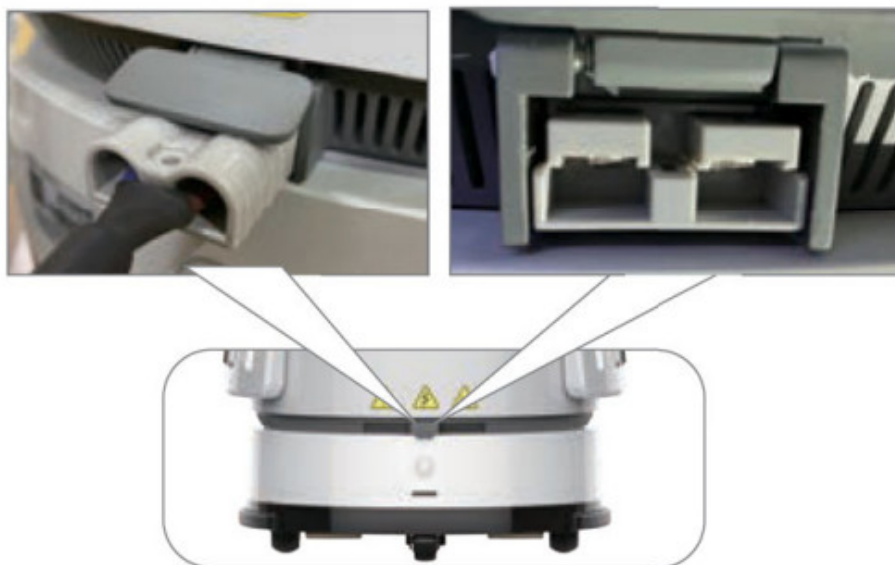
(Figure 3.2)

Charging Dock Lights Status

LED	Status
● Green light for a long	In charging
● Red light for a long	Waiting for charge
● Red lamp flashing	Charging Dock abnormal

3.3 Charging

Method 1: You can select a suitable power adapter and insert it into the charging port of the robot straightly(Figure 3.3.a).



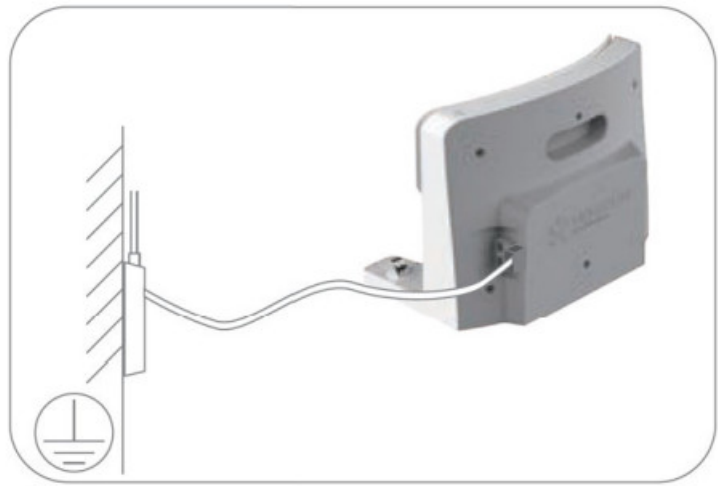
(Figure 3.3.a)

Method 2:

You can insert the adapter into the charging dock (with the alignment of the positive and negative poles), which allowing the robot to be charged on the dock (Figure 3.3.b).



(Figure 3.3.b)



(Figure 3.3.c)

Adapter Lights Status:

LED	Status
● Blue lights flashing	In charging
● Green light for a long	Charging finished/standby
● Red lamp flashing	Charging abnormal

3.4 Hand Push Function

The chassis motor is locked by default and the robot cannot be moved even the power is on. To push the robot, you should double press the On/Off button in a second of time when the robot is powered off (Figure 3.4) to unlock the robot chassis, and then push the robot when the robot is powered on.



(Figure 3.4)

3.5 Disinfecting Process

ADIBOT-A is intended to function as a supplement of routine disinfection and should not be considered as a substitute for usual disinfection equipment. Standard processures need to be carried out simultaneously with the deployment of ADIBOT-A and also ensure that ADIBOT-A has been set correctly before use to maximize the disinfection effect.

To help you get started quickly, please follow the instructions below:

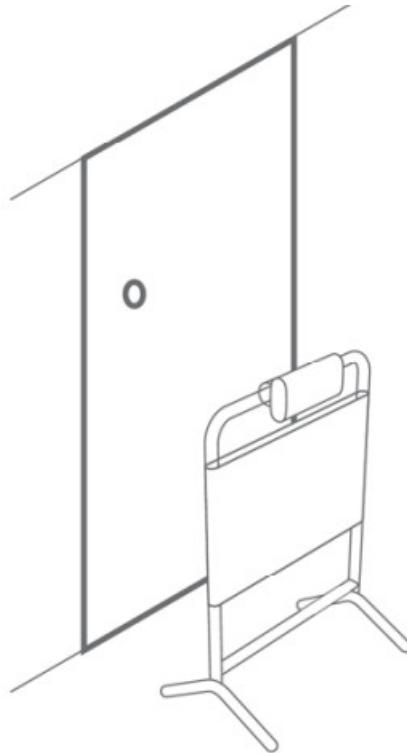
Step 1: Perform basic cleaning and maintenance operations for the robot. (Refer to section 5.3 for the specific operations.) Make sure that the emergency stop button has not been pressed before starting the robot.

Step 2: Manage the room requiring disinfection, and then deploy ADIBOT-A to start disinfection.

Cautions:

- Please clean up any inflammable and explosive objects and paper to prevent a fire caused by high temperature on the surface of UV lamp.
- Please move away plants and animals in case the UV lamp can kill organic cells.
- Please make sure that the target place or object can be exposed to ultraviolet light. If any furniture in the room is moved, a new round of disinfection will then be needed.

Step 3: Place the robot at the disinfection position in the room and the safety sign in front of the door.

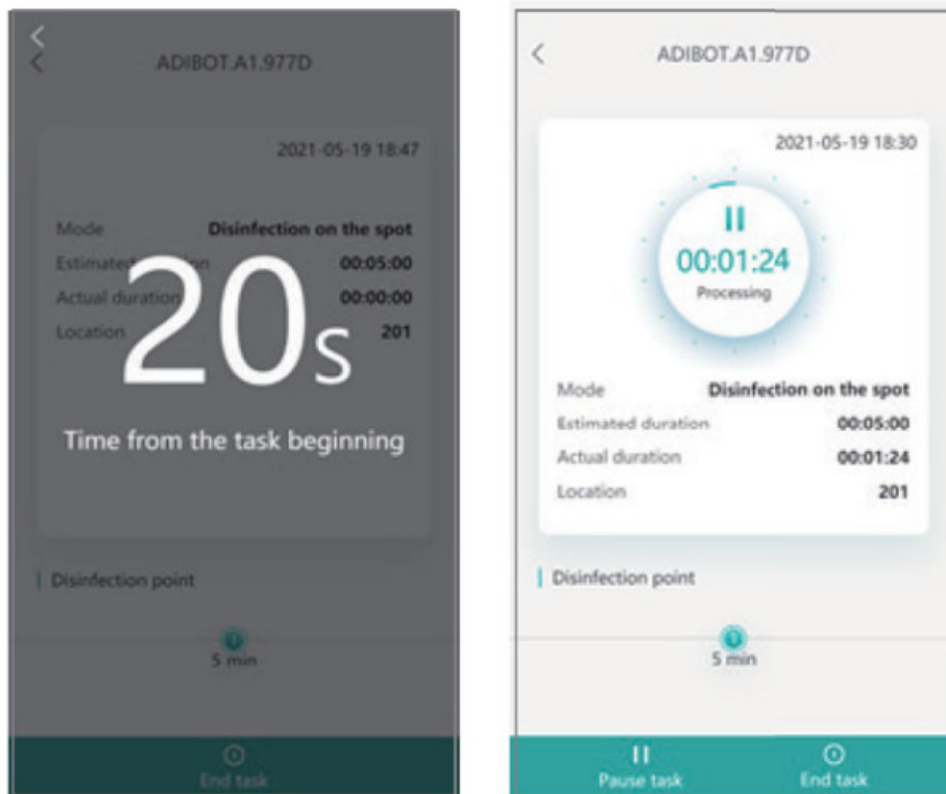


Caution:

Please ensure that all the other doors and of the disinfection room is closed and all windows are closed before starting disinfection. The robot will return to the charging dock automatically after finishing the disinfection if it was started at the dock.

Step 4: Select the in-place disinfection/auto-exploration disinfection solution (Refer to section 4.3.1 for details).

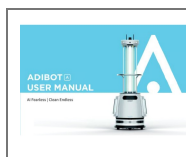
Step 5: After you tap to start disinfection on the tablet, ADIBOT-A will notify that ready for disinfection, please leave as soon as possible and counting down in seconds. Be sure to leave the disinfection site within the specified time to avoid being injured.



(Figure 3.5.a)

ADIBOT A

Documents / Resources



[ADIBOT ADAA201 A AI Fearless Clean Endless](#) [pdf] User Manual
ADAA201 A AI Fearless Clean Endless, ADAA201 A, AI Fearless Clean Endless, Clean Endless

[Manuals+](#)