

Phantas

QUICK START GUIDE



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INTRODUCTION

The Cleaning Robot Phantas by Gausium is a commercial floor cleaning robot that boldly integrates 4-floor cleaning modes, which grant it unrivaled versatility and usability for cleaning spaces with diverse types of flooring, both hard and soft.

1.1. Robot Appearance and Components Overview



Name	Description
Horizontal lidar	Map scanning, locating, and obstacle avoidance.
Front RGB camera	Cruising with cleaning, obstacle avoidance, and capturing the real-time colorful image.
Tilt camera	Ranging, obstacle avoidance, and capturing the real-time colorful image.
Fill-in light	Fill the light for the front camera to assist in cruising.
Squeegee assembly	Scrubbing the floor and absorbing water stains.
Tile laser	Obstacle avoidance.



Name	Description
Auto-docking sensor	Assistance to auto-docking.
Port-auto charging	The ports for auto-charging.
Port-manual charging	The port for manual charging. Open the side protection rubber skirt of the squeegee to get access to it.



Name	Description
Top camera - ToF	Participate in locating.
Power button	Long press it to power the robot ON/OFF.
Screen	Touch screen for G-mind-lite operation.
Emergency stop button	Press it to stop the robot

1.2. Technical Specification

Parameter type	Parameter	Value
DIMENSIONS	Length	540mm 21.3 in
	Width	440mm 17.3 in
	Height	617mm 24.3 in
	Net Weight	46kg 101 lb
	Vacuuming/Sweeping Width	410mm 16.2 in
	Scrubbing Width	330mm 13 in
CLEANING	Cleaning Efficiency	400 - 700m ² /h 4,305 - 7,534 ft ² /h
	Water Tank Capacity	Coverage > 1000 m ² > 10,763 ft ²
	Dust Bag	8 L 2.1 gal
	Trash Can	0.7 L 0.2 gal
MOVEMENT	Gradeability	8°
	Max. Cleaning Speed	0.8 m/s 1.8 mph
	Min. Passable Width	520mm 20.5 in
	Min. Passable Height	650 mm 25.6 in
	Min. Turn-around Width	620 mm 24.4 in
	Min. Height of Detected Obstacles	10 mm 0.39 in
	Edge Cleaning Capability	0 mm
ELECTRICAL	Runtime	Scrubbing 5h, Vacuuming 5h Sweeping 18h, Dust Mopping 10h
	Charging Time	2 hours
	Sound	< 65dB
SENSING	Standard	LiDARs, 3D Depth Cameras, RGB Camera Anti-drop Sensor, Anti-collision sensor
ACCESSORIES	Optional	Charging Dock, Water Tank Trolley

2. DELIVERY & UNPACKING INSTRUCTIONS

Before the delivery acceptance, check the crate, and the robot's appearance to confirm the robot functions well.

2.1. Unpacking Procedure

1. First, check the robot's appearance. If any scratches, dents, dirt, or other cosmetic issues are discovered, please notify AROS Technical Support.

2. Remove the shockproof package and put the machine on flat ground.
3. Remove the top cover. You will see the top accessory layer. Take out the squeegee rubber, accessory box, and dust box.
4. Remove buffer foams, corner protections, and outer box so that the machine can be lifted from the bottom.
5. Check the **Packing List** and make sure there is no shortage of shipment for the listed stuff.
6. Ensure the **Product Quality Certificate** is provided along with the robot, and that all the information mentioned is accurate.
7. Complete and send us a copy of the signed **Delivery Acceptance Form** based on the actual findings.

2.2. Preliminary Check

1. The main power switch is positioned at the right bottom side: “—” means ON, and “O” means OFF.



2. Press the button for 5 seconds to start the robot and release the button when the light bars on both sides of the robot body light up.



3. Ensure both the touch screen and display are normal, and the battery is above 40%.


3. OPERATION INSTRUCTIONS

3.1. Power On

Main Power Breaker

- The main power breaker is positioned above the right wheel.
- "O" means OFF, and "—" means ON.

Power On

1. Long press the  button for 5 seconds.
2. The screen will be turned on and you will hear the voice prompt.

Logging in

1. The boot-up sequence takes 90~120 seconds.
2. Then, the login interface appears.
3. Input the password and click the **Login** button.

Health Status & Alarms

1. Click **Alarm** in the lower right corner to check for alarms if any.
2. If no alarms are displayed, it means the robot is fine and functions well.
3. Otherwise, resolve the issues following the prompts.

3.2. Power Off and Storage

Switch to Manual Push Mode

1. Click **Manual mode**.
2. Click **Push**.
3. Click **Confirm the switch**.

Move Manually

1. Hold the robot with your hands and move it to the storage place.

Power Off

1. Turn off the switch to the "O" position and turn off the circuit breaker.

Open Top Lid

1. Press the **Open** button to open the top lid.
2. Take out the water tank/dust tanks and clean them.

3.3. Charging the Battery Manually

Switch to Manual Mode

1. Click **Manual mode**.
2. Click **Push**.
3. Click **Confirm the switch**.
4. Move the robot to the charging dock.

Start Charging

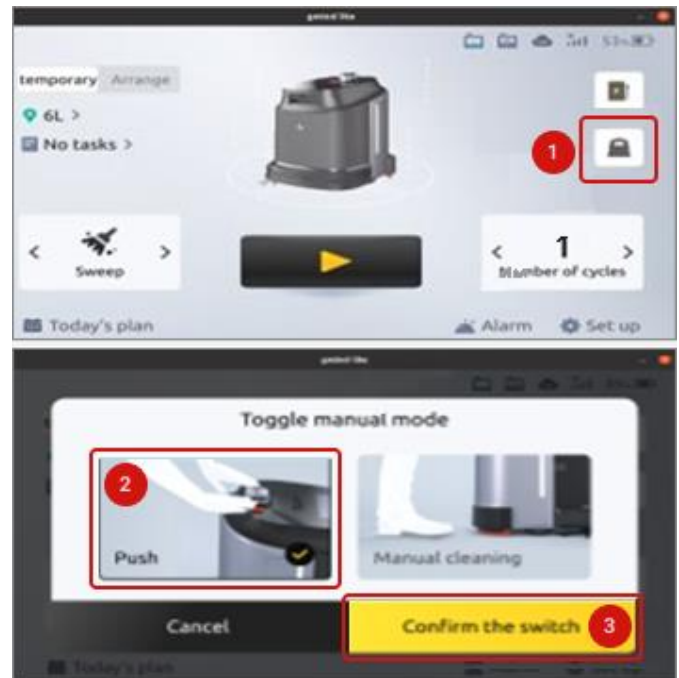
1. Insert the plug into the port of the robot, then connect the plug to the power supply.
2. The **red** indicator flashes when charging starts.

Fully Charged

- The indicator turns **green** when the robot is fully charged.

Remove Plug

- Cut off the power supply first, then remove the plug from the port. Turn the **blue** coupling counterclockwise to unlock the plug.



3.4. Adding/Draining Water Manually

Switch to Manual Mode

1. Click **Manual mode**.
2. Click **Push**.
3. Click **Confirm the switch**.

Move the Robot to the Maintenance Point

- Hold the 2 sides of the robot and push it to the maintenance point.

Open Top Lid

- Press the **Open** button to open the top lid.

Take Out the Wastewater Tank & Drain

- Open the top lid, take out the wastewater tank, and pour out the wastewater. Then clean it and put it back into the robot.

Add Clean Water

- The clean water inlet is in the upper right corner. Use a hose or measuring cup to add water manually.

Empty the Clean Water Tank

- There is a valve behind the left wheel that is for draining clean water.
- Move the robot to a proper place and turn on the valve to empty the water tank if necessary (it takes 3-4 minutes.)

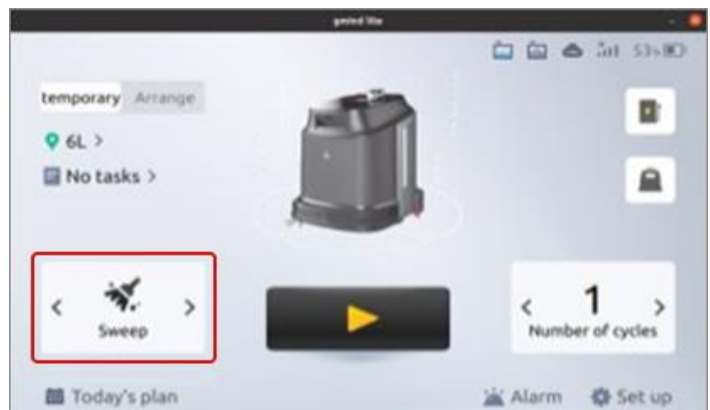
3.5. Manual Operation

Select Cleaning Mode

- Select a cleaning mode (scrubbing, dust mopping, sweeping, vacuuming).

Switch to Manual Mode

1. Click **Manual mode**.
2. Click **Push**.
3. Click **Confirm the switch**.
4. Push the robot slowly to do manual cleaning operations.



Clean Water Stain

- To prevent water contamination after manual mode ends, suction & squeegee will keep working for a while. Continue to slowly push the robot for 1-2 meters to clean the water stain.
- The suction and squeegee keep working with 30 seconds of delay by default.

3.6. Auto Operation

Choose a Map

- A map is the area you want the robot to clean.

Check the Position

- Check the robot's position. If the position is wrong, choose the map again and reposition the robot.

Choose a Task

- Choose a cleaning task that matches the map.

Choose a Cleaning Mode



- There are four options to choose from scrubbing, dust mopping, sweeping, and vacuuming. The cleaning mode will be switched after each click.

Start Auto Operation

- Click **Start** to proceed.

Pause

1. Press the **red** button to execute an emergent stop.
2. The robot re-starts 30 seconds after an emergency stop is pressed.
3. Click **Confirm** to retain the stop.

Continue

- Click the continue button to continue auto operation.

End

- Click the stop button to stop auto operation.

3.7. Switching/Relocating Map


Switch to Manual Mode

1. Click **Manual mode**.
2. Click **Push**.
3. Click **Confirm the switch**.

Move the Robot

- Move the robot to the area to be cleaned.

Relocating

1. Click  and select the map for relocating.
2. A message will pop out informing you whether locating succeeds or fails.
3. If locating failed, please check the map or move the robot to another place and try again.

3.8. Going Back to Charging Dock

- Click the **Back to charging dock** icon. Locating should be correct before clicking the icon. The robot will go back to the charging pile automatically.

Docking

- After auto-docking succeeded, the screen will show the current charging status.

On-charging

- The light indicator of the charging pile and the light strip of the robot turn **green**.

Fully charged

- The light strip of the robot turns **blue**.

3.9. Switching Cleaning Mode

Robot has 4 cleaning modes, and each mode requires specific hardware.

Switch between Vacuum and Scrubbing

1. A dust tank is for vacuum cleaning.
2. A wastewater tank is for scrubbing mode.
3. Open the top lid to change the tank.

Switch between Sweep and Dust Mop

1. A bristle roller brush is for sweep mode.
2. A cloth roller brush is for dust mop cleaning.
3. Take out the roller brush assembly from the right side of the robot and replace the sub-brush.



4. MAINTENANCE INSTRUCTIONS

4.1. Cleaning the Exterior

Switch to Manual Mode

1. Click **Manual mode**.
2. Click **Push**.
3. Click **Confirm the switch**.
4. Push it manually to the maintenance area.
5. Press **OPEN** to open the top lid.
6. Use a dry and lint-free wipe to smoothly clean lidar, cameras, and sensors.
7. Clean the lens of the laser on the anti-collision shell and PSD-side tracking sensor.
8. Wipe the screen and top lid.



4.2. Cleaning Dust Tank

Switch to Manual Mode

1. Click **Manual mode**.
2. Click **Push**.
3. Click **Confirm the switch**.
4. Push it manually to the maintenance area.
5. Press **OPEN** to open the top lid.

Take out the dust tank

1. Remove all assemblies from the dust tank.
2. Remove the top cover of the dust tank and take out the dust bag.
3. Lift the white sheet to seal the dust bag to prevent dust from spraying out.
4. Pull the sealing strip out and empty the trash.



4.3. Cleaning Wastewater

Switch to Manual Mode

1. Click **Manual mode**.
2. Click **Push**.
3. Click **Confirm the switch**.
4. Push it manually to the maintenance area.

5. Press **OPEN** to open the top lid.

Remove the wastewater tank

1. Remove all assemblies from the wastewater tank.

Clean the filter

- Open the cover of the wastewater tank, remove the filter from it, and dump the garbage into the waste basket.



Pour out wastewater

- Dump the wastewater into the sewer or cleaning pool, rinse the wastewater tank with clean water (you can clean the dirt inside the tank via a fur brush), and place the tank into the robot.

4.4. Cleaning/Replacing Air Filter

1. Open the lid to find the air filter.
2. Press the button from left to right to open the filter shell.
3. Take out the filter, clean it, or replace it with a new one.



4.5. Cleaning/Replacing Side Brush

1. Open the side window.
2. Grab the rubber boot and pull down to remove the side brush.
- Do not hold the bristles!**
3. Clean the side brush with wipes or replace it.
4. Align the magnetic catch and push the side brush up to install it.



4.6. Cleaning/Replacing Roller Brush Assembly

1. Open the side window.
2. Press the button and take the roller brush assembly out.
3. Take the front and rear brushes off the assembly and clean them with a steel wire bristle brush or replace them.



4.7. Cleaning/Replacing Dust Collector

1. Open the side window.
2. Press the button and take the dust collector out.
3. Empty and clean or replace it.

4.8. Cleaning Squeegee

1. Use wet wipes to clean the surface of the inner and outer strips.

2. Clean the gap between the inner and outer strips.
3. Use wet wipes to clean the exterior.

4.9. Cleaning/Replacing Rubber Strips

Switch to Manual Mode

1. Click **Manual mode**.
2. Click **Push**.
3. Click **Confirm the switch**.
4. Push it manually to the maintenance area.
5. Open the side protection skirt first, press down, and remove the shell of the squeegee, then move the lid to the left side to take it off.
6. Press the silver button on the squeegee to pull the 2 rubber strips out.
7. Clean and wipe them.
8. For installation, insert the inner strip (the shorter one) first.
9. Press and hold the silver button and insert the strip into the slot.
10. Confirm it is well-locked.
11. Install the outer strip in the same way.
12. Install the shell back.
13. Push the shell upward and cover the side strip.

