

Phantas

All in One One for All



reddot winner 2022



Phantas

About Phantas

Phantas is an AI-powered floor cleaning robot designed for small- and medium-sized commercial facilities, particularly office buildings. It integrates 4 cleaning modes and all kinds of Gausium's latest technology breakthroughs to deliver a highly productive and cost-effective all-in-one cleaning solution.

Compactly designed, Phantas has strong passibility and enables cleaning in tight spaces such as under-table areas. This, combined with its powerful edge cleaning capacity, guarantees maximum floor cleaning coverage.

Driven by deep learning, Phantas is able to identify floor types and automatically adjust operation modes. It can also detect filth and perform autonomous spot cleaning, and recognizes obstacle types to make smart avoidance decisions.

Phantas is developed to free up manpower and reduce human intervention to the greatest extent. The workstation and IoT connectivity provide Phantas with highest level of autonomy. In the meantime, with the user-friendly Gausium App, operators can control the floor cleaning via any smart mobile devices from anywhere, anytime.

The superb versatility and ease of use make Phantas a product accessible to all – it is created to serve everyone, everywhere.



COMPACT BUT COMPREHENSIVE

All-in-one Floor Cleaning Solution

Phantas boldly integrates 4 floor cleaning modes, which grants it unrivaled versatility and usability for cleaning spaces with different types of flooring, both hard and soft.



Every Inch Matters

Strong Passability

Compactly designed, Phantas can effortlessly pass through and clean narrow aisles and under-table areas.

Edge Cleaning

Zero Distance

Backed by the side brush and high-precision sensors, Phantas is able to clean along the edges 0cm-close.

The easy access to tight areas and powerful edge cleaning capacity guarantee maximum cleaning coverage

Every inch of your floor spaces, Phantas cares!

DISTANCE



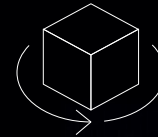
AI-POWERED LEARNING WHILE CLEANING

Gausium SLAM

Industry-leading Navigation Algorithms

Hassle-free Map Construction

Upon initial deployment, Phantas will automatically navigate the landscape and creates a semantic map without any external tools for assistance.



3D

Real-time Localization & 3D Environmental Perception

In a dynamic environment, Phantas will locate itself and update the map in real time. The multi-sensor fusion endows Phantas with 3D environmental perception, which greatly enriches its knowledge of the surrounding environment.



Flexible Path Planning

Phantas offers 2 different path planning modes for you to customize your cleaning plan, including Real-time AutoCover (zigzag motion) and Auto Spot Cleaning (point-to-point).

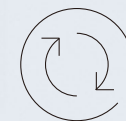
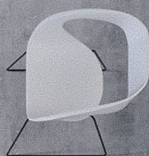


Deep Learning

Smart Obstacle Avoidance

Phantas detects static and dynamic obstacles from all directions and perform autonomous smart avoidance in real time, generating collision-free paths within its workspaces.

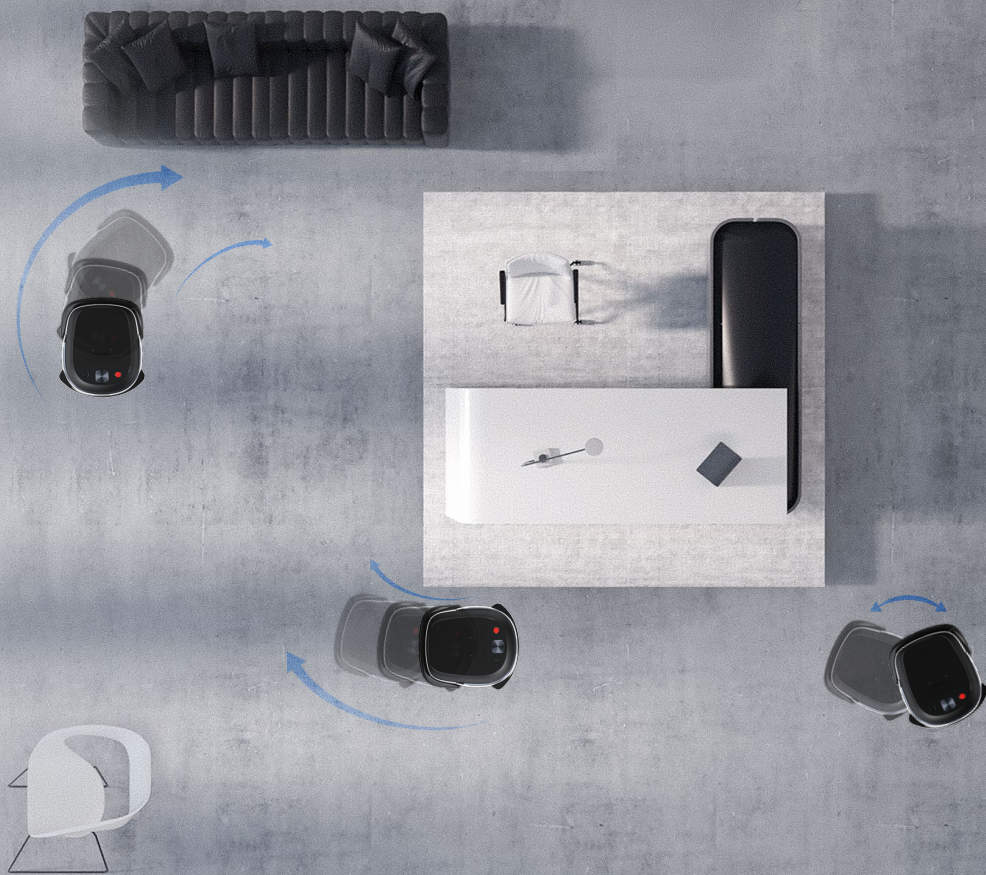
Driven by deep learning based on a million-scale benchmark dataset, Phantas has robust obstacle recognition capability and makes behavior decisions according to the types and features of obstacles, e.g., It would bypass electric wires rather than passing them over directly.



Auto Spot Cleaning 4X Efficiency Improvement

Phantas incorporates Gausium's groundbreaking Auto Spot Cleaning into its path planning. Under this mode, the robot scans the cleanliness of the nearby floor and autonomously performs spot cleaning where waste or stains are detected, removing the stains right off before they're spread all over the floor.

By cleaning only where it is needed, Phantas brings up to 4X efficiency improvement and significantly reduces energy consumption.



Floor Type Recognition

Phantas identifies flooring types and automatically adjust brush height to protect flooring materials and ensure the best cleaning effect.

It is applicable to a variety of hard or soft flooring:

Low pile carpeting (Nylon, Polyester, Olefin, etc.)

Natural Stone (Marble, Granite, Belgian Bluestone, etc.)

Artificial Marble/Granite/Ceramic Tiles

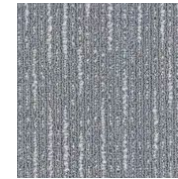
Hardwood

Concrete

PVC

Epoxy

.....



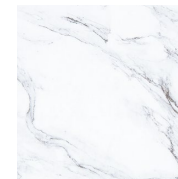
Nylon



Polyester



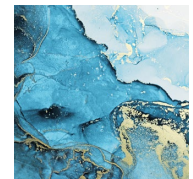
Olefin



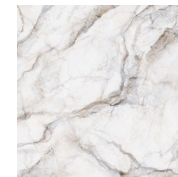
Marble



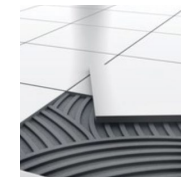
Granite



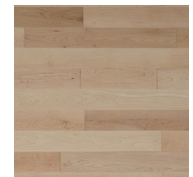
Belgian Bluestone



Artificial Marble



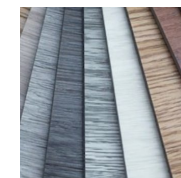
Ceramic



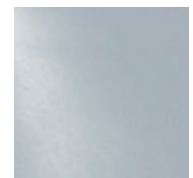
Hardwood



Concrete



PVC



Epoxy



INTELLIGENT MANAGEMENT WITHIN YOUR PALM

Gausium Mobile

All on Your Smartphone

The Gausium App allows you to control floor cleaning from anywhere, anytime. It offers plentiful options like map editing, remote control, task scheduling, data reporting, etc.



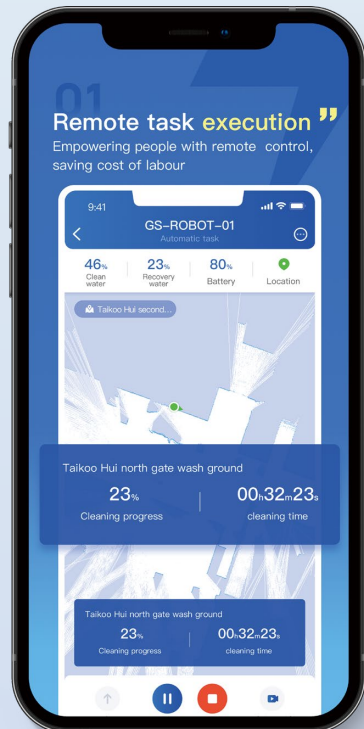
Task Scheduling

Set up a task on the App and the robot will automatically start cleaning at the scheduled time.



Data Reporting

Receive detailed reports of operational metrics and charts of historical statistics via the App to gain data insights and enable data-driven management decisions.



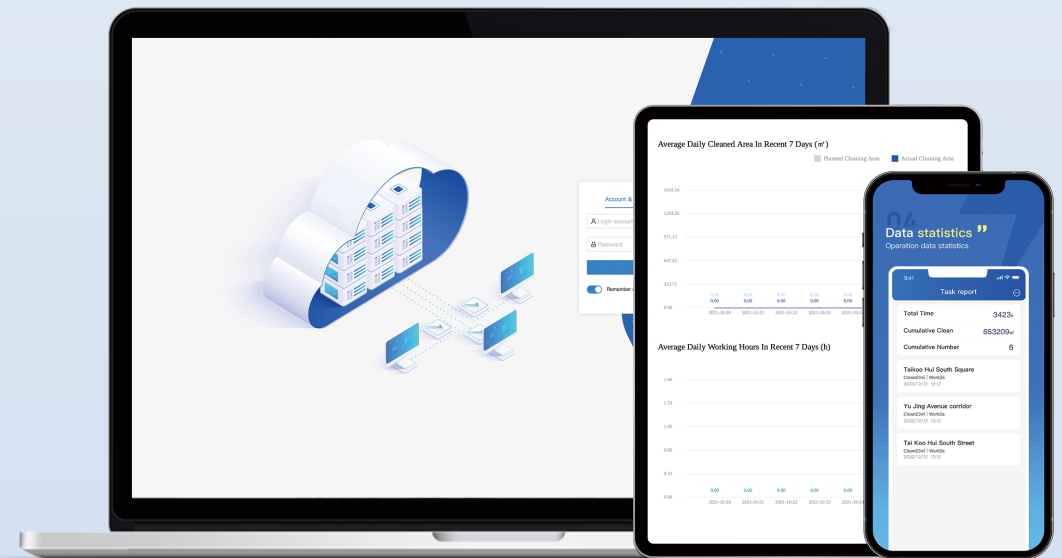
Map Editing

Edit your floor map by setting virtual walls or No-go zones to avoid cleaning restricted areas.



Remote Control

Remotely activate, pause or terminate a cleaning task on your smartphone.



Gausium Cloud Platform

Cloud-based Maintenance



OTA Updates

Phantas connects to the Gausium Cloud Platform to receive over-the-air software updates, offering free and easy access to new features and ongoing innovations.



Remote Maintenance Center

The Gausium Remote Maintenance Center provides 24/7 cloud-based diagnostics and troubleshooting for your machine.



EXTENSIVE APPLICATIONS



Workspaces



Retail stores



Apartments



Hospitals



Redefining Service by Technology

©Gaussian Robotics 2022

Subject to changes and errors. The information given in this document only contains general descriptions and/or performance features which may not always specifically reflect those described, or which may undergo modification in the course of further development of the products. The requested performance features are binding only when they are expressly agreed upon in the concluded contract.

All product designations may be trademarks or other rights of Gaussian Robotics, its affiliated companies or other companies whose use by third parties for their own purposes could violate the rights of the respective owner

Gaussian Robotics

Valeton 4 N, 5301LW Zaltbommel, The Netherlands



Our Offices:

Singapore: 3 Fusionopolis Place, Galaxis Work Loft #04-52/53 Singapore

Hong Kong SAR: RM 212, Core Building No.1E, Hong Kong Science Park Phase 1, 1 Science Park East Avenue, Shatin, NT

Mainland China: No. 666 Shengxia Rd., Pudong District, Shanghai, China.



www.gausium.com



+31 (0) 611872148



support@gausium.com



@Gausium