



Phantas

All in One One for All



reddot winner 2022



IF
AWARD
WINNER 2022
SILVER

Phantas

Det här är Phantas

Phantas är en AI-driven och automatiserad städrobot designad för små och medelstora ytor, den passar utmärkt i exempelvis kontorsbyggnader och offentliga miljöer. Phantas integrerar 4 städlägen och Gausiums senaste robotteknik för att leverera en högproduktiv och kostnadseffektiv allt-i-ett städrobot.

Phantas är kompakt designad, har utmärkt framkomlighet och möjliggör rengöring i trånga utrymmen under bord och liknande. Detta, i kombination med dess möjligheten att städa ända in till kanten, garanterar maximal städning av golven.

Med djupinlärning kan Phantas identifiera golvtyper och automatiskt ändra städlägen. Den kan också upptäcka smuts och utföra autonom punktrensning, den känner också igen olika typer av hinder för att kunna undvika hinder på smartast sätt.

Phantas är utvecklad för att frigöra tid och underlätta den annars tunga städningen. Arbetsstationen och IoT-anslutningen ger Phantas högsta nivå av självständighet. Under tiden kan operatörer styra städningen av golven via den användarvänliga Gausium-appen, var som helst, när som helst.

Den enastående mångsidigheten och användarvänligheten gör Phantas till en städrobot tillgänglig för alla - den är framtagen för att göra autonomstädning tillgänglig för alla!



KOMPAKT MEN OMFATTANDE

Allt-i-en städrobot

Phantas integrerar 4 olika städlägen, vilket ger den oöverträffad mångsidighet och användbarhet för områden med flera typer av golv, båda hårt och mjukt.



Varje centimeter är viktig

Otrolig framkomlighet

Phantas är kompakt utformad och kan enkelt passera genom och städa smala gångar och områden under exempelvis bord.

Inget mellanrum

Tillsammans med sidoborsten och högprecisionssensorerna kan Phantas rengöra ända in mot kanterna. Den kommer åt överallt och kantstädningen garanterar renare ytor. Phantas bryr sig om varje centimeter av dina golv!

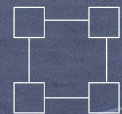
DISTANS



AI-POWERED LEARNING WHILE CLEANING

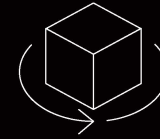
Gausium SLAM

Industry-leading Navigation Algorithms



Hassle-free Map Construction

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



3D

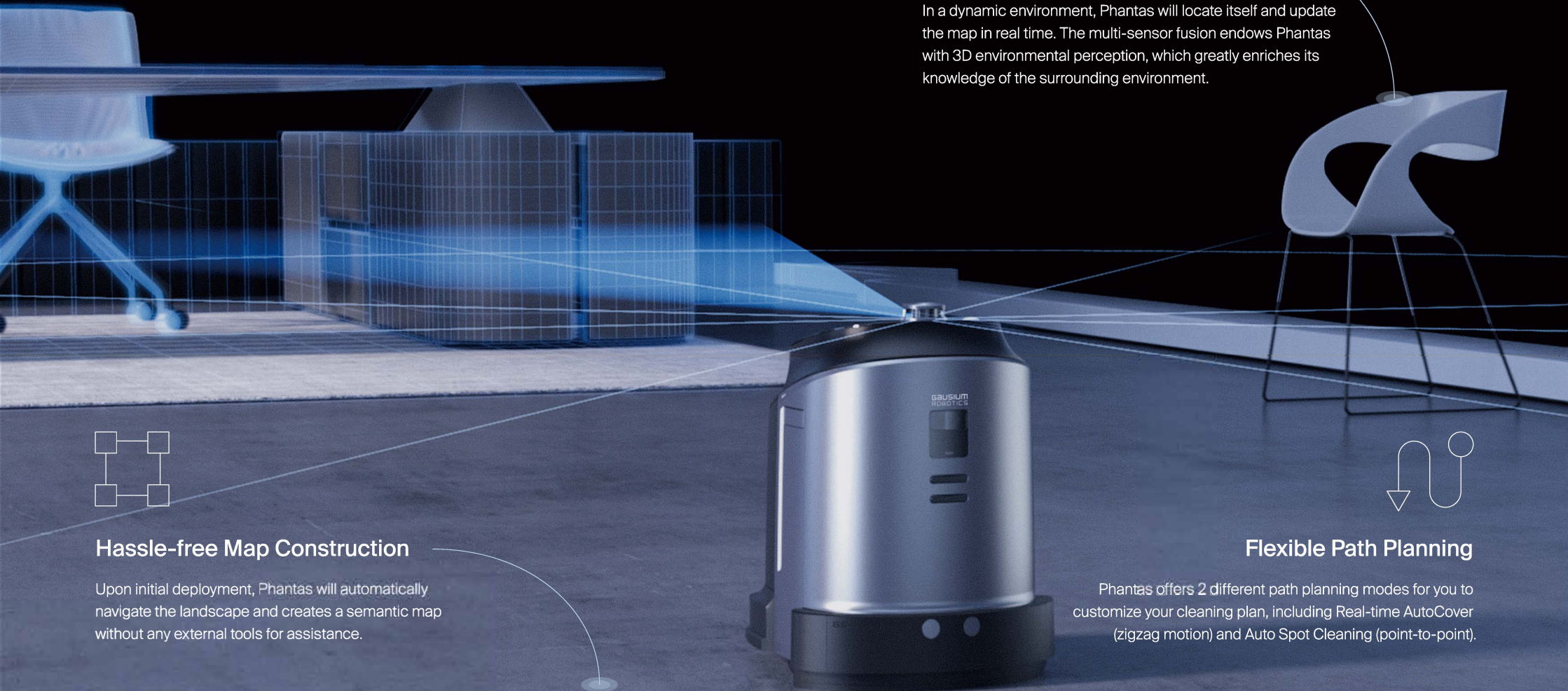
Real-time Localization & 3D Environmental Perception

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).

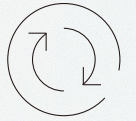
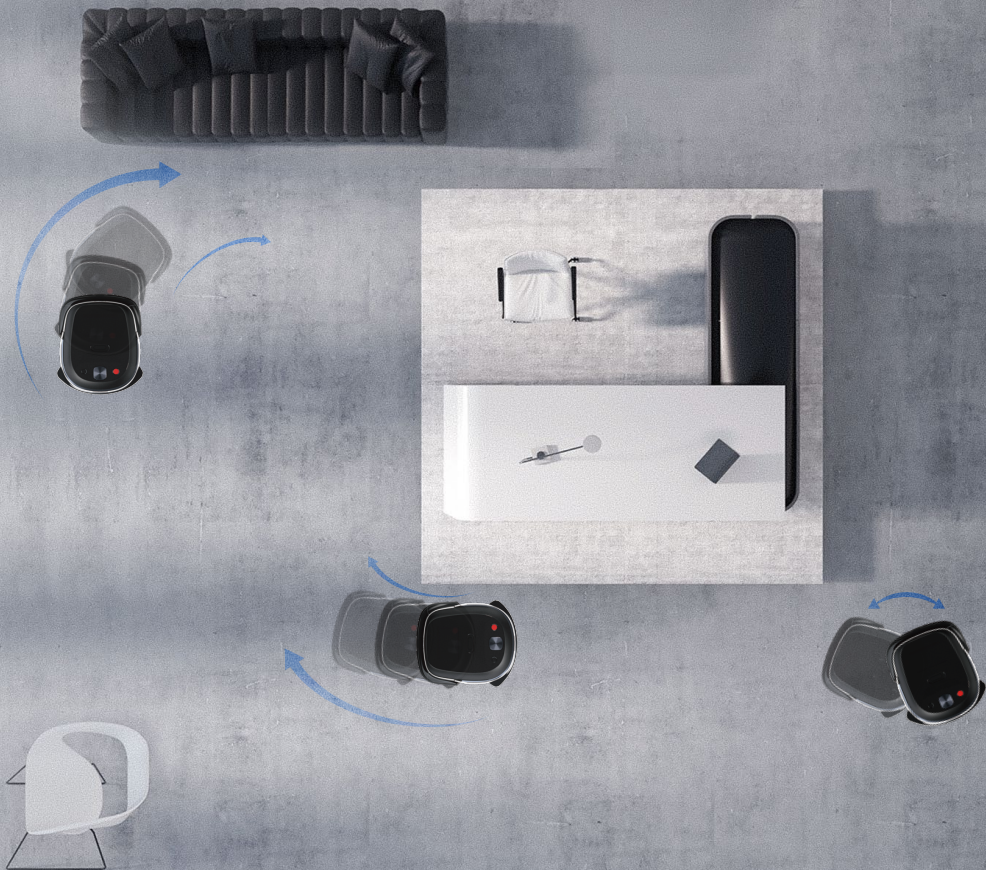
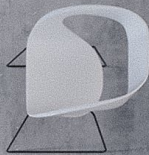


Deep Learning

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 adjusts brush height to protect flooring materials and ensures 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

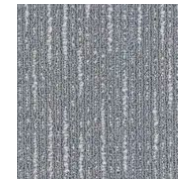
Hardwood

Concrete

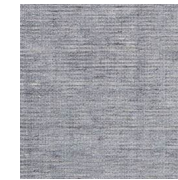
PVC

Epoxy

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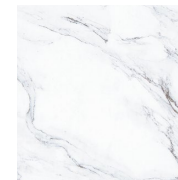
Nylon



Polyester



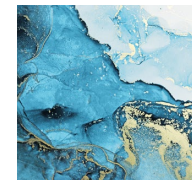
Olefin



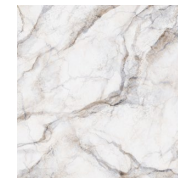
Marble



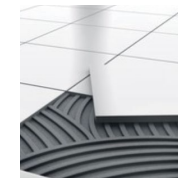
Granite



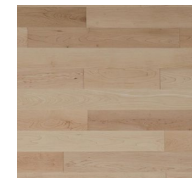
Belgian Bluestone



Artificial Marble



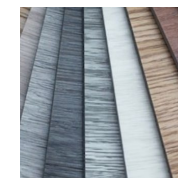
Ceramic



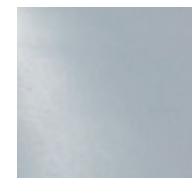
Hardwood



Concrete



PVC



Epoxy

TRUE AUTONOMY FREEING YOUR HANDS

Workstation

One Stop Self-Service

Phantas is paired with a workstation to minimize human intervention during operation. It is able to perform all-round self-services by autonomously docking with the workstation:



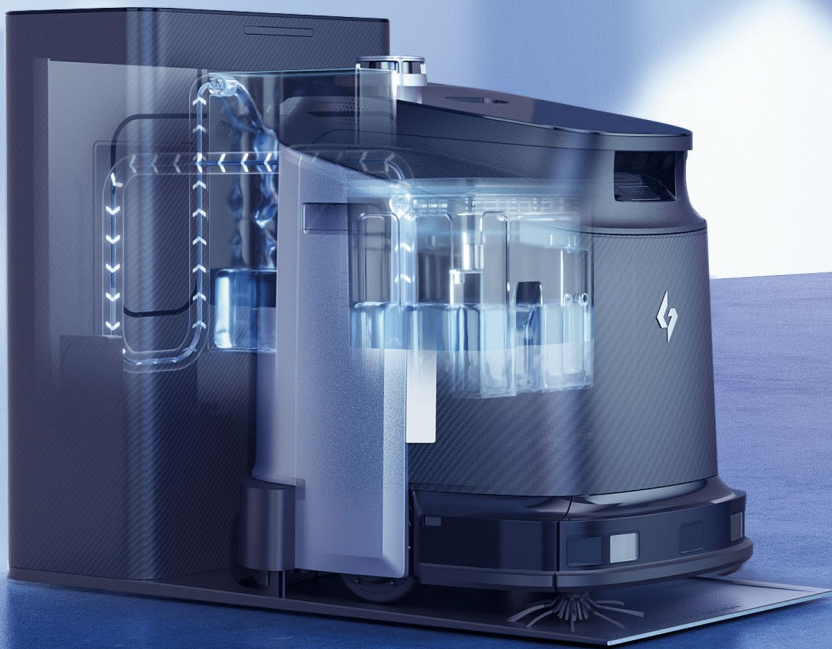
Auto power
charging



Auto water refill
and discharge



Auto water
tank cleaning



IoT Integration

Freedom to Go Anywhere

Phantas can be interconnected with the IoT system of a building through API or NFC. It can autonomously take elevators to perform cleaning across floors and pass through fare gates without human assistance. This significantly extends the boundary of "Autonomy" for cleaning robots.

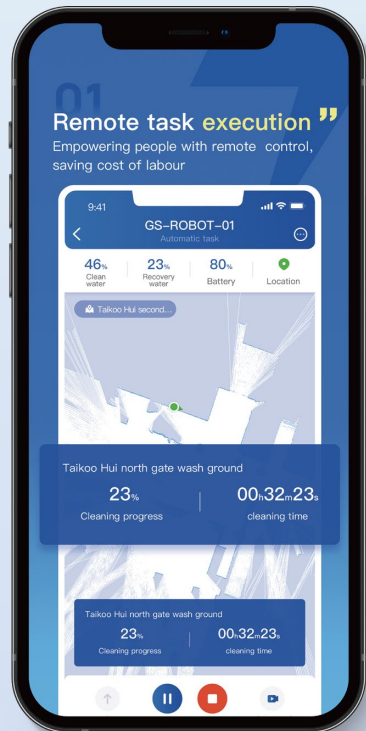


INTELLIGENT MANAGEMENT WITHIN YOUR PALM

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.



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.



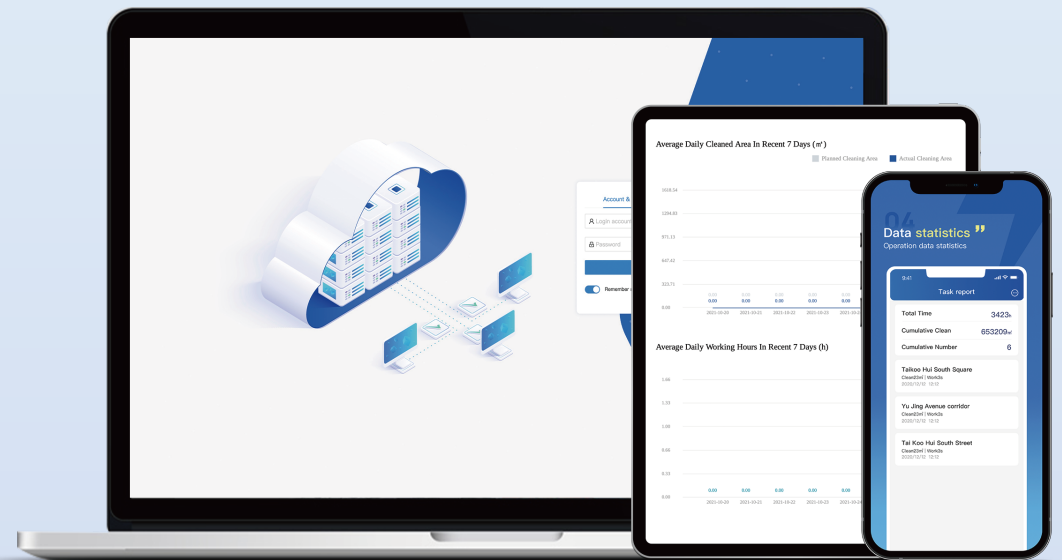
Task Scheduling

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.



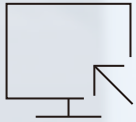
Gausium Cloud Platform

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.



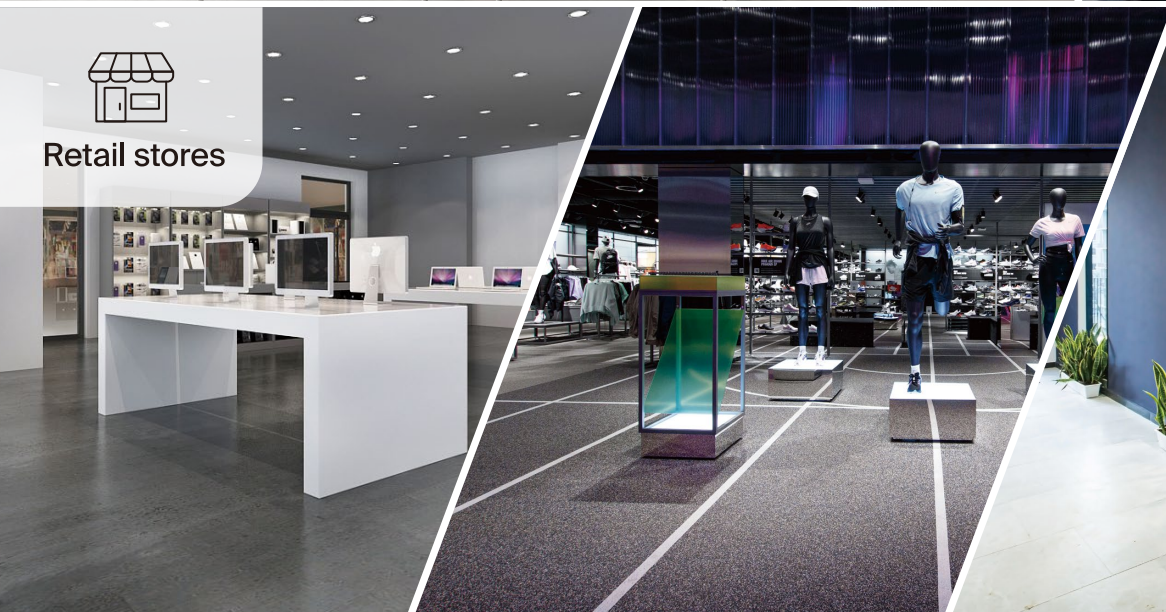
EXTENSIVE APPLICATIONS



Workspaces



Retail stores



Apartments



Hospitals



Redefining Service by Technology

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