

# Phantas

All in One One for All





# 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.







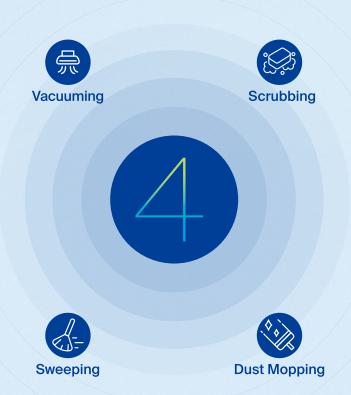




## COMPACT BUT COMPREHENSIVE

### **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 Passibility

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 Ocm-close.

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

Every inch of your floor spaces, Phantas cares!





## AI-POWERED LEARNING WHILE CLEANING

Gausium SLAM

**Industry-leading Navigation Algorithms** 



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## 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.



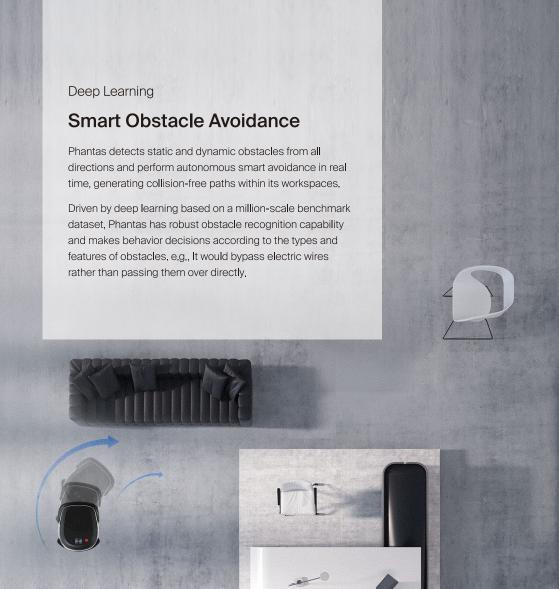
#### Hassle-free Map Construction

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



#### 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).





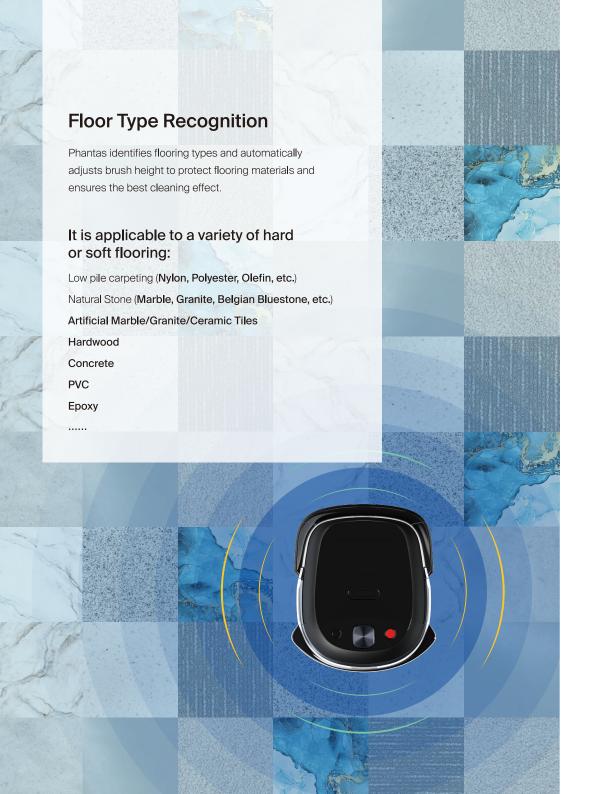


## Auto Spot Cleaning 4X Efficiency Improvement

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.











Polyester



Olefin



Marble



Granite



Belgian Bluestone



Artificial Marble



Ceramic



Hardwood



Concrete



PVC



Ероху

# 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.



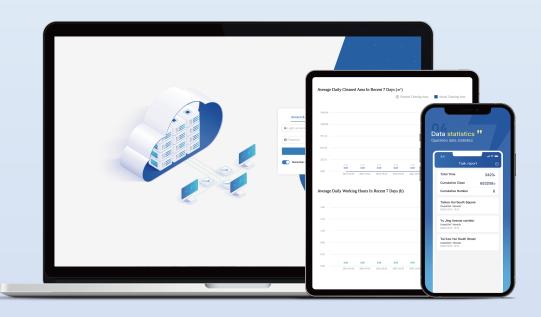
#### Task Scheduling

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.





### **EXTENSIVE APPLICATIONS**



### Redefining Service by Technology

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