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GP1

Robotic Scrubber & Vacuum



About GP1

GP1 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 our latest technology breakthroughs to deliver a highly productive and cost-effective all-in-one cleaning solution.

Compactly designed, GP1 has strong passability 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, GP1 is able to identify floor types and automatically adjust operation mode. It can also detect filth and perform autonomous spot cleaning, and recognizes obstacle types to make smart avoidance decisions.

GP1 is developed to free up manpower and reduce human intervention to the greatest extent. The docking station and IoT connectivity provide GP1 with highest level of autonomy. In the meantime, with the user-friendly App, operators can control the floor cleaning via any smart mobile devices from anywhere, anytime.

The superb versatility and ease of use make GP1 a product accessible to all - it is created to serve everyone, everywhere.







COMPACT BUT COMPREHENSIVE

All-in-one Floor Cleaning Solution

GP1 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.

in 1 Solution

Vacuuming

Sweeping

Scrubbing

Dust Mopping

Every Inch Matters

Strong Passability

Compactly designed, GP1 can effortlessly pass through and clean narrow aisles and under-table areas.

DISTANCE

Edge Cleaning

Zero Distance

Backed by the side brush and high-precision sensors, GP1 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, GP1 cares!**



AI-POWERED LEARNING WHILE CLEANING

Industry-leading Navigation Algorithms



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Real-time Localization & 3D Environmental Perception

In a dynamic environment, GP1 will locate itself and update the map in real time. The multi-sensor fusion endows GP1 with 3D environmental perception, which greatly enriches its knowledge of the surrounding environment.

Hassle-free Map Construction

GP1 offers easy and hassle-free mapping and map editing via the touchscreen and the mobile app, no need for professionals or external tools for assistance.

Flexible Path Planning

GP1 offers different path planning modes for you to customize your cleaning plan, including zigzag motion, square spiral motion and Auto Spot Cleaning.

Deep Learning

Smart Obstacle Avoidance

GP1 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, GP1 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.

TRUE AUTONOMY FREEING YOUR HANDS

Docking Station

One Stop Self-Service

GP1 is paired with a charging dock to minimize human intervention during operation. It is able to perform self-services by autonomously connecting with the docking station.

An optional water tank trolley is available to save your effort for water refilling.



Charging Dock Auto power charging



Floor Type Recognition

Auto Cleaning Mode Switch

GP1 identifies flooring types and automatically adjusts brush height to protect flooring materials and ensures the best cleaning effect. It would automatically turn on the vacuuming mode when driving on a carpet.



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

Ероху







Olefin

PVC



Marble

Nylon



Granite

Hardwood



Polyester





Ceramic

Belgian Bluestone

Artificial Marble





Concrete



Ероху

INTELLIGENT MANAGEMENT WITHIN YOUR PALM

All on Your Smartphone

The 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

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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.



Cloud Platform

Cloud-based Maintenance



OTA Updates

GP1 connects to the Cloud Platform to receive over-the-air software updates, offering free and easy access to new features and ongoing innovations.



Remote Maintenance Center

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



SPECIFICATIONS

DIMENSION	
Length	540 mm (21.3 in)
Width	440 mm (17.3 in)
Height	617 mm (24.3 in)
Net Weight	46 kg (101 lb)
Vacuuming/Sweeping Wi	idth 410mm (16.2 in)
Scrubbing Width	330 mm (1 3 in)
CLEANING	
Cleaning Efficiency	400-700 m²/h (4,305-7,534 ft²/h)

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Water Tank Capacity	> 1000 m ² (10,763 ft ²) coverage
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	520 mm (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 h
Sound	< 65dB
SENSING	
Standard	LiDARs, 3D Depth Cameras, RGB Camera, Anti-drop Sensor, Anti-collision sensor
ACCESSORIES	
Optional	Charging Dock, Water Tank Trolley

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