

Product Overview

- **Fully Autonomous Operation** Navigate in complex environments and complete assigned tasks without requiring human intervention.
- **Advanced Precision Navigation** Powered by SAHA Simultaneous Localization and Mapping technology, our robots possess advanced spatial awareness.
- **Autonomous Charging** Our robots autonomously navigate to charging stations when the battery is low, ensuring they're always ready to serve.
- **Battery Life** All-Day Operation with an extended battery life, our robots can operate continuously, minimizing downtime and maximizing productivity.
- **360° Wide LiDAR Scan** Speedy Robots scan and map their surroundings with unparalleled accuracy, enabling safe and reliable operation in dynamic environments.
- **Suspension System Designed** with advanced suspension systems, our robots glide effortlessly over various surfaces, ensuring smooth and stable navigation.
- **Fleet and Traffic Management** Efficient coordination of multiple robots ensures seamless collaboration and optimized performance.
- **Double 32" Touchscreen Interface** Ensures visibility and interaction from both sides, supporting promotional content and dynamic visuals for maximum engagement.
- **SAHA Remote Monitor** Analytics at Your Fingertips. You can easily oversee your robot's actions, analytics, and effectiveness from any location, ensuring you maintain peace of mind.



General Specifications

Dimensions	525 x 525 x 1310 mm
Weight	75 kg
Cruise Speed	0,6 - 1,1 m/s
Slope Angle	≤5°
Tray Count	3
Endurance	6 - 8 hours
Languages	Turkish, English, Spanish, German, French, Arabic
Additional Features	Touch Screen

Hardware

Materials	ABS+PC and aluminum alloy
Sensors	2D Lidar, Stereo Vision Sensor, IMU
Sensor Coverage	Lidar detection range: 360°, <=30 m Stereo Vision range: 87°(H) × 58°(V) <=4 m
Positioning Method	Sensor Fusion with Lidar, Wheel Odometry and IMU
Wireless	Wi-Fi: 2.4 GHz Lora 868 Mhz or 900 Mhz (According to regulations)
Additional Display	32 inch Display(Optional touch support)

Power

Battery Type	LiFePO4 (Lithium iron phosphate)
Battery Capacity	30 Ah
Dismountable Battery	No
Charging Input	100-240V AC, 50/60Hz
Charging Time	3h 3m

Environment

Maximum Coverage Area	160.000 m ² (400 m x 400 m)
Operating Temperature and Humidity	0 - 40°C, RH: 20% - 80%
Operating Environment	Indoor environment, flat ground

Compatible Accessories

Speedy Pixel Double Screen can be seamlessly integrated with a wide range of complementary systems and components to enhance its functionality and user experience:

- **IoT Controller Board:** Enables integration with turnstiles, automatic doors, and elevator systems for seamless access control in complex environments.
- **UWB Based Indoor Localization System:** Provides precise indoor positioning by detecting customer locations in dynamic seating areas such as food courts, ensuring accurate delivery to any table.
- **QR Menu Integration:** Allows customers to scan QR codes for placing orders, which the robot can then autonomously deliver.
- **POS System Integration:** Synchronizes with Point-of-Sale systems to streamline order processing, real-time status tracking, and payment coordination.
- **AI-Powered Assistant HeyHolo:** Elevates the dining experience with a voice-interactive holographic avatar that intelligently manages order workflows, supports upselling, and delivers a cutting-edge, contactless customer journey.

Technical Drawings

