

The AI autonomous serving robot developed by Rainbow Robotics

Rainbow Robotics' serving robot boasts of high precision in positioning and stable performance compared to other companies thanks to localization of core components and self-developed software. Additionally, it is easy even for beginners to set up and operate with its interactive UI.



High positioning precision

By using Grid-Free SLAM, it offers higher positioning precision compared to other companies.



3-Sided Tray Open Structure

A horizontal arrangement with 3 sides opened makes tray attachment and detachment easy and increases work speed.



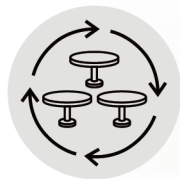
AI autonomous driving

It accurately determines the position without attaching markers.



Customization is possible

Tray positions can be adjusted to suit workability, and up to five levels can be added.



Serving Point Management

Intuitive and easy serving management by designating a serving location and a group, such as main hall, group table, alias, etc.



Interworking with call bells for staff

More efficient serving by linking call bells.



Specification



Basic Specifications	
Model name	RBM-SRV
Main body size (width × length × height)	510 x 510 x 1250 mm
Loading capacity	Max. 30 kg (about 10 kg per shelf)
Shelf size (width x length)	510 x 380 mm
Display	10.1 inches / (1280x800)
Weight	about 50kg
Number of shelves	2 + 1 (Expandable)
Sensor	2D LiDAR x 1, 3D camera x2
Network	Wi-Fi

Battery	
Battery capacity	15,000 mAh (48V)
Continuous driving time	12 hours
Battery charging time	3 hours and 30 minutes
Charging type	Wired AC adaptor included

Driving	
Driving mode	Serving mode/Collecting mode
Driving width	700 mm
Driving speed	Up to 1.0 m/s (Adjustable)
Emergency stop	EMO Switch

Others	
Sound volume control	Separate control of background music and guidance voice
Charging recognition	Recognition of charging adaptor connection
Shelf position adjustment	Adjustable
Tray attachment/detachment	Use off-the-shelf trays

※ Some specifications may be subject to change for performance improvement.

Areas of application



Restaurants



Internet cafes



Marts



Hospitals



Hotels