

STOCKBOT[®]

TECHNICAL SPECIFICATIONS

StockBot is an autonomous robot that takes daily inventory in retail stores and warehouses. It works every night without supervision, detecting the items and their spatial location thanks to the combination of robotics with RFID technology. StockBot overcomes the conventional handheld readers by eliminating human error and allowing more valuable time for workers.

StockBot only requires a first easy set-up, without any environment modification needed. After that, StockBot will constantly adapt to any store modification. Misplacement or stolen items detection are other applications available for StockBot.

Benefits of automating inventory-taking with StockBot:

- QUALITY Control of areas without human error.
- TIME Stockbot is faster than people for inventory.
- COST Reduced labour costs and more frequent inventories (daily).



AN AUTONOMOUS ROBOT THAT TAKES DAILY 3D INVENTORIES

AUTONOMOUS STORE INVENTORY

- Increase sales by reducing OOS
- Optimization of inventory management
- Automatic In-Store item localization (1 m accuracy)
- Better data-driven decisions & big data opportunities
- Misplacement detection

SIMPLE DEPLOYMENT

- Easily create a map by moving the robot with a joystick around the working area
- Define regions where to perform the inventory
- Schedule inventories in any region
- Stockbot moves autonomously reading all RFID tags
- Results easy to integrate in any platform
- API for remote functionality control

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DIMENSIONS

Height	190 cm
Width	50 cm
Depth	50 cm

MOBILITY

Steering	Differential
Turning Radius	0°
Max Speed	1 m/s

CONNECTIVITY

Wi-Fi	802.11 ac 2x2 Dual Band
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ELECTRICAL FEATURES

Battery	720 k Wh Li-ion
Charging	4 hours complete recharge
Battery Autonomy	8 hours continuous use

OPERATION ENVIROMENT

Temperature	5 °C to +50 °C
Humidity	5% to 95%, non-condensing
Enviroment	Indoor wheelchair accessible

RFID

Air Interface	1EPCglobal UHF Class 1 Gen 2 / ISO 18000-6C
Antennas	8 (4 on each side)
3 dB Beamwidth - Azimuth	70°
Transmit Power	+10.0 to +32.5 dBm
Max Receive Sensitivity	-82 dBm
Polarization	Circular

SUPPORTED REGIONS

US, Canada	And other regions following US FCC Part 15 regulations.
Europe	And other regions following ETSI EN 302 208 v1.2.1 without LBT regulations.
Other regions	Available