

STOCKBOT®

TECHNICAL SPECIFICATIONS

StockBot is an autonomous platform that takes daily inventory in retail stores and warehouses without supervision. The robot combines **RFID technology, vision cameras and autonomous navigation** to speed up stocktaking and has proved to overcome conventional handheld readers. It eliminates human error and frees up workers' valuable time. StockBot doesn't need any modification of the environment and only requires a first initial set-up. After that, it automatically **adapts to any spatial** change.

StockBot detects all items and their spatial location, reflecting them in a **3D map**, and also provides visual information for further analysis. The platform provides access to **applications** such as out-of-stock situations and misplacements detection, planogram and price tag checking while enhancing data-driven decisions.



Advantages of automating inventory-taking with StockBot:

- QUALITY *Area control without human error*
- TIME *Faster than human inventory*
- COST *Reduced labour costs and more frequent inventories (daily)*

AN AUTONOMOUS PLATFORM THAT TAKES DAILY 3D INVENTORIES

AUTONOMOUS STORE INVENTORY

- Optimization of inventory management
- Automatic in-store item localization (0.5m accuracy)
- Increase sales by reducing OOS
- Misplacement detection
- Better data-driven decisions

SIMPLE DEPLOYMENT

1. Easy set-up: create a map moving the robot around
2. Define regions in which to perform the inventory
3. Schedule inventories in any region
4. Stockbot moves autonomously detecting all items
5. Results easy to integrate into any platform
6. API for remote functionality control

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DIMENSIONS

Height	190 cm
Width	50 cm
Depth	50 cm

CONNECTIVITY

Wi-Fi	802.11 ac 2x2 Dual Band
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ELECTRICAL FEATURES

Charging	4 hours complete recharge
Battery autonomy	12 hours continuous use

OPERATIONAL ENVIRONMENT

Temperature	5 °C to +50 °C
Humidity	5% to 95%, non-condensing

RFID

Air interface	EPC global UHF Class 1 Gen 2 / ISO 18000-6C
Antennas	4 on each side
Transmit power	+10.0 to +32.5 dBm
Max. received sensitivity	-82 dBm
Polarization	Circular

VISION CAMERAS

Resolution	3840 x 2160
Max. capture height	2.4m

