INCREASED INVENTORY ACCURACY
StockBot avoids human error and allows employees to focus on improving customer experience, with reliable up-to-date stock data. Misplacements, out-of-stock situations, planogram and price tags can be controlled daily.

EFFICIENCY PROVED IN STORES
StockBot runs autonomously. A single initial set-up is all that StockBot needs to start working. Its advanced navigation allows the platform to automatically adapt to any change in the environment.

INCREASED INVENTORY ACCURACY
StockBot avoids human error and allows employees to focus on improving customer experience, with reliable up-to-date stock data. Misplacements, out-of-stock situations, planogram and price tags can be controlled daily.

ABOUT PAL ROBOTICS
Based in Barcelona (Spain), PAL Robotics has worked in service robotics since 2004. Besides R&D in robotics, the company leverages its expertise to develop products with specific functions that make our lives easier, like StockBot.

Sensing the environment
StockBot uses RFID to detect all products and/or vision cameras to enable image recognition.

3D map of products
StockBot provides a daily report with the products’ list and location.

Big data opportunities
Reliable information, delivered daily, enables data-driven decisions.
**TECHNICAL SPECIFICATIONS**

**Advantages of automating inventory-taking with StockBot:**

<table>
<thead>
<tr>
<th>QUALITY</th>
<th>Area control without human error</th>
</tr>
</thead>
<tbody>
<tr>
<td>TIME</td>
<td>Faster than human inventory</td>
</tr>
<tr>
<td>COST</td>
<td>Reduced labour costs and more frequent inventories (daily)</td>
</tr>
</tbody>
</table>

**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**

| Width x Depth x Height | 50 cm x 50 cm x 190 cm |

**CONNECTIVITY**

| Wi-Fi                  | 802.11 ac 2x2 Dual Band |

**ELECTRICAL FEATURES**

| Charging              | 4 hours complete recharge |
|                       | 12 hours continuous use   |
| Battery autonomy      |                           |

**OPERATIONAL ENVIRONMENT**

| Temperature           | 5 ºC to +50 ºC |
| 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 |

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