Inventory Robot

Product Dimension	498*428*1827 mm
Battery Capacity	18Ah
Charging Time	3~4h
Endurance	≥8h (full payload)
Maximum Slope	10°incline
Maximum Speed	1.0m/s
Emergency Brake	yes
Automatic Back	yes

Features

● **Plug & Play**

No changes to be made to the library environment makes it widely used at different types of libraries. The outfitted self-adjusting navigate algorithms allow it to create a map based on the library's interior, and deftly travel through passages between bookshelves.

● **Autonomous Navigation**

The robot mainly relies on several types of sensors including lidar, depth cameras, physical magnetic, and physical collision to traverse any environment without crashing into the obstacles.

● **Easy Operation**

Library staff are allowed to preset inventory management methods or view the real-time stocktaking of books on the 15.6" capacitive touch display.

● **Automated Stocktaking**

The robot can finish the inventory tasks more productively at a very high speed scanning more than 40,000 books per hour because the vision mapping technique allows it to follow the more flexible preprogrammed virtual pathways.

● **Automatic Height Adjustment**

The robot can change its height to fit bookshelves at the maximum attainable height of 2.2 meters, and takes stock of books with 99 percent accuracy when books are not damaged and the image is not disturbed.

● **Self Charging**

The robot will drive itself back for charging if experiencing low battery or reaching the preset remaining.

● **Sync Cirulation Information**

It logs the library materials' updated location into the library system and OPAC system periodically or in real-time which can be quickly searched by librarians and patrons.

Intech Inventory Robot transforms shelf-reading from manual to automated. Using cutting-edge technologies, like map-building, navigation, vision inventory, AI, etc., the robot acts as a tireless worker to fulfill stocktaking tasks safely and autonomously. It maximizes profitability by freeing up the staff from repetitive, laborious tasks to higher-value work, and executing the counting of inventory at very high speed and accuracy.

≥40,000 books	99%	15.6 inches	500m*500m
fulfil task per hour	read data with accuracy	intuitive large screen	build a big map