



DRONSCAN

*Innovative Inventory
Technologies*

Who We Are

About Us

DroneScan has developed an airborne data collection system to provide large, uniform warehouses with a robotic solution for stock take (inventory), providing live feedback and integration with Warehouse Management systems. It has proven to save hundreds of man-hours, but most importantly, has provided a safer alternative to traditional, labour intensive methods involving reach trucks, forklifts, man-cages and scissor-lifts.

DroneScan uses a drone to scan the barcode on each pallet and records the location of each item in the warehouse management system, proving to be up to 50 times faster than manual capturing.

DroneScan uses the latest drone platforms, hardware, software, scanning and communications technology and integrates to existing warehouse management systems and Excel.

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Frequently Asked Questions

Is DroneScan autonomous?

Not yet. Our current system requires an operator to guide the drone down the aisle. It's easier than it seems, the drone is inherently stable and will not crash into obstacles in front, behind and to the sides of it, even if you try!

How long is the battery life?

Hadeda: The battery lasts 10 minutes. To scan continuously, all day, you need to buy 12 batteries, have 6 on charge and 6 in the aisle, fly for 60 minutes using the 6 batteries then put them on charge and collect a fresh set of 6.

Buffalo: The battery lasts 4-6 hours

What is the scanning performance like?

The fastest we have scanned is one pallet every 2 seconds. This is possible when the barcodes are large and all aligned at the same height. In most warehouses an operator can scan between 6 and 11 pallets per minute.



Where are your products currently in use?

- Malaysia
- Brazil
- Chile
- Australia
- South Africa

Product Add Ons

- Extended battery
- Flow racking
- Height sensor- vertical
- RFID
- Radio beacon
- Void test-laser range finder
- Frozen pack (for certain temperature warehouses)

The DroneScan system provides two revolutionary solutions to scanning products and pallets in warehouses. The Hadedra system, consisting of a Drone and Dronescan payload, which reaches the high shelves and methodically moves down the aisles scanning pallet barcodes and the Buffalo unit, which is lifted by forklift to the correct shelf height, while the operator receives live feedback as it scans.

"LF Logistics has engaged DroneScan to explore strategic application and deployment of drone as a way to continually uplift its vast operations in Asia." LF Logistics



Sample ROI DroneScan savings vs manual scanning of inventory using a cage, forklift and handheld RF barcode scanner, full time scanning.



Integration

The Drone logs its data to the DroneScan database, the ground station software integrates to customer systems, files and the cloud, not only for storing the data scanned, but to provide position and navigation information.

The DroneScan ground station tablet and software communicates with the Drone via a peer to peer RF connection. This leaves the tablet's wifi connection available for communicating with the customer's network, allowing for real time integration.

Customised integration solutions can be developed using the following technologies:

- File import/export (e.g. Excel, CSV, Tab Delimited, XML)
- Web Services (e.g. REST, SOAP)
- API (e.g. RFC, BAPI)
- IoT (Azure IoT hub)

