

DRONESCAN BUFFALO



The DroneScan Solution

About DroneScan

DroneScan has developed an airborne data collection system to provide large, uniform warehouses with a robotic solution for stock take, 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 (or buffalo/forklift model) 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.

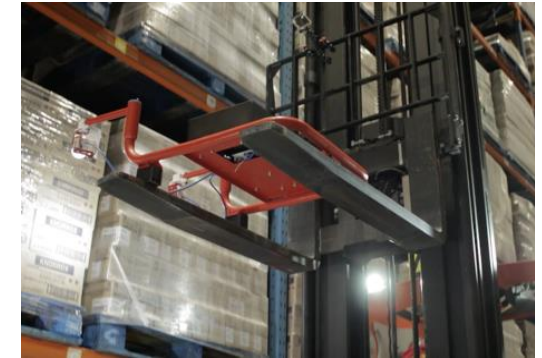
DroneScan uses the latest drone platforms, hardware, software, scanning and communications technology and integrates to existing warehouse management systems and Excel.

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Specifications

Theoretical maximum barcode Scanning Speed	2 barcode scans per second
Actual scanning speed	One barcode every 5 seconds
Target scanning speed	One barcode every 2 seconds
Optimal barcode scanning distance	30 – 90 cm
To scan one section of 4 racks with 10 pallet positions	7 minutes
In comparison: Traditional forklift and hand held scanner to scan 4 racks with 10 pallet positions	80 "man" minutes
Battery life	4-6 hours
Dimensions	90cm long x 54cm x 32cm high
Maximum width of warehouse	100m
Maximum height	25m
Minimum pallet position width	50cm

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*Innovative Inventory
Technologies*



The Buffalo has rapidly gained interest in markets that want to leverage the following use cases:

- Leverage the same Tablet Software and Integration with the WMS that DroneScan provides.
- Allow for Markets where Drones are not allowed to be used indoors.
- Longer operational use and additional technologies like depth scanning to be used.
- Incorporated into other autonomous ground vehicles for testing.
- Provide less impact to a current environment where forklifts are already in use.

Why Buffalo?

Most people will associate the African Buffalo as one of South Africa's "Big Five" and describe it as "extremely robust".

The DroneScan Buffalo was instantly named by our team for its dual "horns" that it uses to scan barcodes on product pallets and racking.

"DroneScan have impressed us with the ease of use of their solution and the speed and enthusiasm with which they have turned around incremental innovations." Project Manager, A large FMCG multinational

How DroneScan supports the business goals and strategies

- Improve Health and Safety
- Improve Efficiencies
- Keep Current with Technological Improvements
- Reduce Cost
- Reduce Carbon footprint
- Reduce Headcount



Integration

The Buffalo 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 Buffalo 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)

