

Dexion | Infinium Scan Drone



Product overview

The Dexion Infinium Scan Drone is an autonomous drone system designed for cycle-counting and inventory stock-taking in an indoor warehouse environment.

It aids in inventory management for full pallets and reconciles differences with the WMS automatically. It is equipped with advanced sensors which is able to navigate indoors in a GPS-denied environment.

Key features and benefits

- Fully autonomous - Programmed to move without intervention, including self-recharging
- Safe, reliable and efficient - Developed and tested with safety & robustness in mind.
- Time saving - Maximises productivity, can be deployed outside of the regular working hours.
- Highly customisable - Caters to your specific needs with our range of modifiable unmanned aerial vehicles (UAVs).
- Intuitive - Adapts to warehouse's unique layout and requirements
- Collision prevention - Senses and avoids obstacles. Sensors and algorithms empowers each robot to navigate in cluttered environments.
- Can scan up to 16,000 full pallets per day
- 4 hours operational time (Longest drone operational time duration in the industry.)

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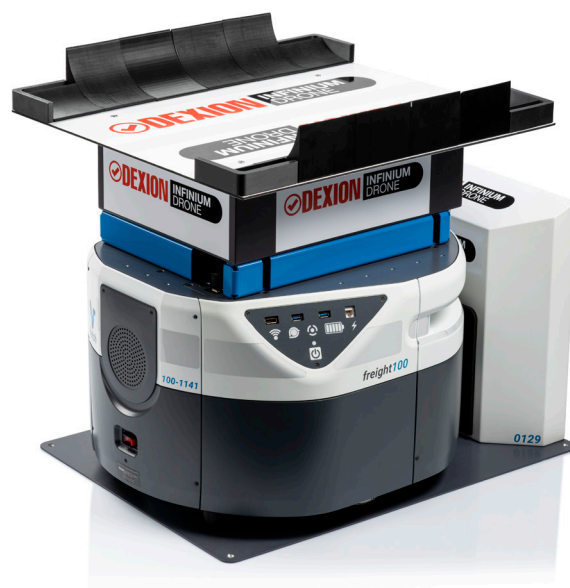
Technical specifications - Drone

Mechanical	
Frequency	2.4 GHz
Weight	5kg
Load Capacity	500g
Max Speed	1.5m/s
Autonomy	4 hours (tethered)
Batteries	Lithium Polymer
Motors	Brushless Motors
Operation Temperature	>= 0 deg Celsius
PC	
Processor	7th Generation
RAM	16GB
Storage	256 GB fast eMMC
Control	
Controller	Embedded PC with Linux
Communications	WiFi 802.11AC



Technical specifications - Base

Mechanical	
Frequency	2.4 GHz and 5.5 GHz
Weight	68kg
Load Capacity	78kg
Autonomy	9 hours of continuous motion
Batteries	LifePO4 30Ah @24V DC
Traction System	Differential drive
Traction Motor	2 x 250W servo motors
PC	
Processor	Haswell Intel i5
RAM	16GB
Control	
Controller	ROS Ubuntu Linux LTS
Communications	WiFi Integrated 802.11 ABGN 802.15.1



Contact

For more information on the Dexion Infinium Scan Drone, please contact us on 1800 100 050.

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