



SURVEY GRADE INDUSTRIAL DRONE

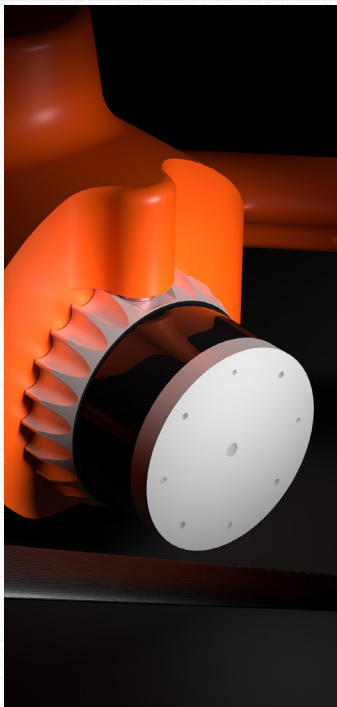
MAGELLAN™

Magellan™ is a value-priced, American-made industrial drone designed specifically with surveyors in mind. Get the ease of use and reliability you expect from a critical field tool with the accuracy and US-based support your work depends on.



Built for the work. Built for the workflow.

Magellan™ is engineered from the ground up for the realities of land surveying. It isn't an all-purpose drone, over-engineered with features you don't need or shouldn't have to pay for.



Fewer flights. Reliable Deliverables.

With up to 39 minutes of uninterrupted flight time and the ability to cover up to 150 acres per flight, Magellan™ is built to do the job in fewer flights and provide reliable deliverables. This includes a high-performance LiDAR engine that delivers:

- 5.2 million pts/sec
- 0.15 ft (4.5 cm) LiDAR accuracy
- 170 m max range
- Dual returns for canopy & ground data



Survey-grade positioning & accuracy

Magellan's™ survey-grade, NDAA-compliant INS & GNSS system offers 0.15 ft (4.5 cm) absolute accuracy and support for all major constellations—GPS, GLONASS, BeiDou, and Galileo—giving you the precision required for accurate mapping and confident decision-making on the ground.



Field-proven. Field ready.

With 20 mph wind resistance, a 32–110°F operating range, and a unique, enclosed payload design, Magellan™ offers something most platforms don't: an out-of-the-box solution with real protection. Whether you're working in heat or wind, your LiDAR and cameras stay shielded and operational instead of dangling from a gimbal waiting to get clipped. No drone experience, new hires, or specialized training required—your team can just unpack, launch, and capture survey-grade results immediately.

MAGELLAN™

vs. Other Commercial Drones

Feature	Magellan™	DJI Matrice 400	Wingtra Ray	Freefly Astro Max	IF800 Tomcat
Per Flight Coverage	150 acres	Approx. 80–100 acres* (depends on payload)	Approx. 940–1,210 acres* (based on payload & flight conditions)	30–100 acres* (depends on payload & conditions)	40–120 acres* (depends on payload & conditions)
Flight Time (per bat.)	39 min	Up To 59 min (no payload, H30T gimbal); ~25 min with L2 LiDAR	Up to 59 min (MAP61, Survey61, RedEdge-P), 30–45 min (LiDAR)	39 min (no payload); ~28 min w/ camera; ~18 min max payload	Up To 54 min (no payload); ~42 min w/ 1.5 kg payload
LiDAR Points / Sec	5.2 million	~520,000pts/sec (Zenmuse L2)	640K pts/sec	300K–600K pts/sec (w/ Hovermap ST-X)	240K pts/sec (w/ YellowScan Mapper+)
Vertical Accuracy	~4 cm	~1.5 cm (with RTK + L2 LiDAR)	~3 cm (with PPK, with GCPs)	~4 cm (w/ Hovermap ST-X LiDAR)	~4 cm (w/ YellowScan Mapper+)
Wind Resistance	20 mph	27 mph / 12 m/s	27 mph / 12 m/s (max takeoff: 11mph)	~18–22 mph (8–10 m/s max)	22–27 mph (10–12 m/s gusts)
Operating Temperature	32–110 °F	–4 °F to 122 °F (–20–50 °C)	14 °F to 104 °F (–10–40 °C)	–4 °F to 122 °F (–20–50 °C)	–4 °F to 113 °F (–20–45 °C)
Weight	11 lbs (w/ batteries & payloads)	21.47 lbs (w/ batteries & no payload)	11.5 lbs (w/ batteries & LiDAR payload)	~11 lbs (w/ batteries & Hovermap ST-X)	18.7 lbs (w/ batteries & no payload)
Payload Protection	Enclosed	Exposed Payload	Enclosed (requires payload swapping)	Exposed Payload	Exposed Payload
System Type	Purpose-Built for Surveying	Multi-Purpose	Multi-Purpose	Multi-Purpose	Multi-Purpose
U.S. Manufacturing	American-Made	Chinese import	Swiss Import	American-Made	American-Made
Software	Pulse Processor	DJI Terra	WingtraCLOUD	Third-Party Required	Inspired Ground Control
System Price (3-Year total**)	\$49,999 (with pre-launch offering)	\$61,420 (incl. LiDAR & Camera payloads)	\$132,652–138,652 (incl. LiDAR & Camera payloads)	\$80,775–\$86,775 (incl. LiDAR & Camera payloads)	\$97,000–103,000 (incl. LiDAR & Camera payloads)

* Varies on flight pattern, altitude, payload weight, sensor type, and mission parameters.

** Includes estimated total platform with LiDAR & camera payloads as well as 3 years of software costs.



The future of drone mapping
is **American**.
We're built for it.



Contact products@smartdrone.com to tell us about your
surveying needs or visit smartdrone.com to learn more
about our drone products and services.