

Applications



Surveying & GIS



Mining & aggregates



Construction & infrastructure



Environment & research



Why Wingtra?

Eight reasons for surveying with WingtraOne



Down to 1 cm (0.4 in) absolute accuracy

Using an L1/L2 PPK GNSS receiver, WingtraOne delivers best-in-class absolute accuracy down to 1 cm (0.4 in). This level of accuracy is achievable under optimal conditions, on hard surfaces, using well-marked, highly visible, manually measured control points and well-established stations.



Take off and land vertically (VTOL)

Fly everywhere and avoid damaging your drone in belly landings. WingtraOne is able to take off and land like a helicopter and fly like a fixed-wing aircraft.



42 Megapixels / 0.7 cm (0.3 in) GSD

Best image quality in the industry for the highest map quality and accuracy.



Save time

Up to 80% faster surveying operations compared to terrestrial methods and multicopters.



One drone, many applications

Multiple exchangeable payloads for one drone to produce all types of drone data.



Improve drone ROI

Longer drone lifetime and reduced operating costs.



Learn operation in 1h

Easy to use from fully-automated flights to PPK processing.



Robust and safe

Engineered in Switzerland, sturdy even on gravel and in rough weather conditions.

WingtraOne Bundle

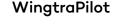


What's in the WingtraOne Bundle?

- WingtraOne drone and a carrying sleeve (backpack)
- + A fully integrated payload cameras of choice
- + A tablet with WingtraOne pre-installed mission planning software WingtraPilot
- + Remote control and telemetry units
- + Charging station, 2 sets of smart batteries
- + Pilot case for accessories & spare parts (1 pair of propellers, 1 pitot tube)



- + Free online support & live chat
- + Languages: English, Chinese, German and Spanish
- + Extensive knowledge base
- + Video tutorials & best practices





WingtraPilot is the intuitive mission planning software deeply integrated with the drone and its payloads. Among other features it offers KML import, terrain following and corridor mapping.



Smart Batteries

WingtraOne's Li-ion smart batteries are shock, over/ undervoltage, temperature and short circuit protected. They also have a state-ofcharge indicator and are fully UN compliant.

Additional Products



Hardcase

For easy and safe WingtraOne drone bundle transportation



PPK module

For precision mapping and surveying with accuracies down to 1 cm (0.4 in)











Photogrammery software

For a complete drone solution from data collection to post processing

Modular WingtraOne payloads







RGB cameras

Sony RX1R II The highest quality payload for subcentimeter GSDs and accuracy down to 1 cm (0.4 in) Sony QX1 Professional payload for surveying Sony QX1 15 mm (0.6 in) A high quality lens for 3D reconstruction and largest coverage

Technical specifications

42 MP Full-frame sensor 35 mm (1.4 in) lens 20 MP APS-C sensor 20 mm (0.8 in) lens 20MP APS-C sensor Voigtlander lens 15 mm (0.6 in) lens



Specialty cameras

MicaSense RedEdge-MX—multispectral payload for precision farming, forestry and

environmental research

Technical specifications

5.5 mm (0.22 in) lens

5 individual custom sensors

multispectrall

WingtraOne Technical Specifications

Drone type	Tailsitter vertical take-off and landing (VTOL)
Weight (empty)	3.7 kg (8.1 lb)
Max. payload weight	800 g (1.8 lb)
Wingspan	125 cm (4.1 ft)
Battery capacity	99 Wh (a pair of batteries required)
Flight planning & mission control software	WingtraPilot
Tablet (supplied)	Samsung Galaxy Tab Active 2, Android pre-installed
Updates	free
Operational cruise speed	16 m/s (35.8 mph)
Wind resistance	12 m/s (28 mph) in cruise 10 m/s (22 mph) for landing
Maximum flight time	Up to 55 min, depending on payload, flight plan, and flying conditions
Min. space for take-off and landing	2 m × 2 m (6.6 ft × 6.6 ft)
Designed temperature range*	-10° C to 40° C (14° F to 104° F)

