WingtraOne

GEN ∥

Mapping drone for fast and accurate photogrammetry data every time

wingtra

GEN∥

2321

DESIGNED AND ASSEMBLED IN SWITZERLAND

Applications

Mining & aggregates	Surveying & GIS	Construction & infrastructure	Environment & research	Agriculture

wingtra

WingtraOne GEN II

- ✓ Cut mapping time
- ✓ Reduce field labor costs
- ✓ Finish field work early
- ✓ Save time in post-processing

Maximum coverage with one flight*
at 1.9 cm/px (0.75 in/px) GSD

WingtraOne RGB61
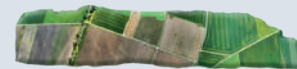61 MP camera
310 ha (766 ac)
120 m (400 ft)

Other fixed-wing drones
20 MP camera
170 ha (420 ac)
93 m (305 ft)

Multicopter drones
20 MP camera
29 ha (71 ac)
69 m (226 ft)

Do a lot of work in a short time

With the WingtraOne drone, you reduce the number of surveyors in the field and conduct frequent site surveys faster than with other tools, even for large open-pit mines and quarries. Projects that were previously impossible to map with a drone takes you now just a few hours.

Up to

11x

faster than
multicopter drones

Up to

2x

faster than standard
fixed-wing drones

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*   Numbers refer to most widely used competitor drone and camera models. This number can vary depending on factors such as overlap, altitude and drone and camera model. The model takes into account data collection only. Flight planning, setting up GCPs, data processing, time to relocate between flights are not taken into account in this model.

A camera for every job

WingtraOne makes no compromises on aerial image quality. Whether you need data for orthophotos,
3D models or multispectral mapping, it carries the best camera for every application.
As you exchange cameras in the field, various types of data can be acquired with the same drone.

RGB cameras nadir

	RGB61 High accuracy and most efficient	Sony a6100 Most affordable
Sensor	Full-frame sensor 61 MP	APS-C sensor 24 MP
GSD down to	0.7 cm/px (0.28 in/px)	1.2 cm/pxx (0.47 in/px)
Absolute horizontal accuracy down to	1 cm (0.4 in)	2 cm (0.8 in)
Absolute vertical accuracy down to	3 cm (1.2 in)	4 cm (1.6 in)

RGB cameras oblique

	Oblique Sony a6100 3D mapping camera
Sensor	APS-C sensor 24 MP
GSD down to	1.6 cm/px (0.63 in/px)
Absolute horizontal accuracy down to	2 cm (0.8 in)
Absolute vertical accuracy down to	4 cm (1.6 in)

Multispectral cameras

	MicaSense RedEdge-P Multispectral & panchromatic sensors	
Sensor	5 individual sensors Red, Green, Blue, Rededge, Near-infrared,	panchromatic sensor
GSD down to	2.0 cm/px 0.78 in/px	
Absolute horizontal accuracy down to	3 cm (1.18 in)	
Absolute vertical accuracy down to	5cm (1.97 in)	

What's included in the bundle?

1x WingtraOne GEN II drone
1x carrying sleeve
1x carrying case for accessories
　　(pilot box)
1x tablet including WingtraPilot
　　flight planning software
1x telemetry module (2.4 Ghz)
2x pairs of batteries
1x charging station
1x anemometer
1x SD card adapter
1x micro SD card reader
1x pair of side stands
1x middle stand
1x Torx screw driver T10
1x Torx T10 key

Additional products

Hardcase

For easy and safe WingtraOne
drone bundle transportation

PPK licenses

A built-in multi-frequency
(L1-L2 included) PPK GNSS
receiver, which ensures best-in-
class image geotag correction
after the flight with accuracy
down to 1 cm (0.4 in)

Agisoft　**Bentley**
esri　**propeller**
PIX4D　**Trimble**

Recommended photogrammetry software

For a complete drone solution from
data collection to post-processing

Wingtra AG　　Giesshübelstrasse 40　　hello@wingtra.com
　　　　　　　　8045 Zürich, Switzerland　wingtra.com