



# ON-DEMAND AERIAL SURVEYS

Automated site monitoring & mapping



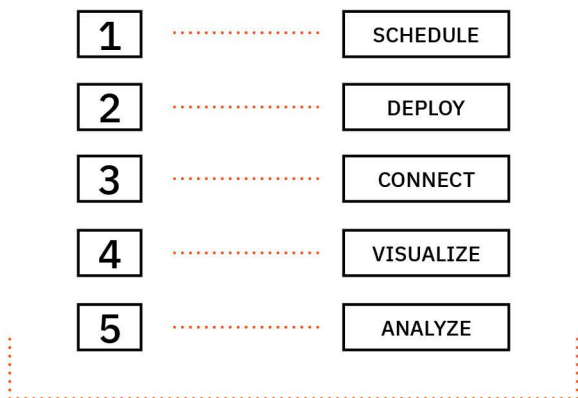
## AERIAL TOPOGRAPHIC SURVEYING

Access the most advanced automated drone surface operations monitoring solution. ODAS can boost the overall efficiency of small and large sites. Field data traditionally collected with ground-based survey equipment can now be gathered quickly and more precisely.

## WORKING WITH DRONES

Throughout the years, we have optimized our workflow to support mining operations. First, our team assesses your site and installs the adequate drone infrastructure to support your needs. On a regular schedule or on-demand, our team will remotely operate the drones making sure that the data collected meets our quality standards. Once collected, the data will be processed through our rendering software and then delivered to you via cloud or local platform. Advanced stockpile reports as well as digital surface models and 3D models will be accessible to you without the need for complex GIS software.





Surface operations report offered on a daily, weekly and monthly basis

## VOLUMETRICS AND AGGREGATES

Each of our flights gives us the possibility to construct a centimetre-level accurate 3D model that provides stockpile inventories, haul road width analysis and site changes reports.

## FLY EVEN IN BAD WEATHER

Drones hit a limit when it comes to wind and temperature resistance, and that limit can be quite low. That is why we design and build drones that will be able to resist high wind conditions (up to 45 km/h) and capable of operating in arctic temperatures.

## NO DRONE PROGRAM REQUIRED

We take full responsibility for the drone flight and maintenance program, implemented by qualified experts that respect the highest standards in terms of safety and security. Your team will only need to be trained in how to handle, deploy and monitor the drone. Our certified pilot will remotely operate it from our command and control centre.



## **RPAS BASIC SPECIFICATIONS**

- › Weight with batteries: 15 kg
- › Max transmission distance: 4 km
- › Flight time: 35 min
- › Max flight velocity: 8 m/s
- › Max surveyed area: 72 hectares
- › Operating temperature: -20/50 °C
- › Max wind resistance: 45 km/h

## **RENDER SPECIFICATIONS**

- › Centimetric precision
- › Ground resolution : up to 1 cm/px
- › Type : orthophoto, DSM, mesh, .LAS
- › Cloud-based delivery platform
- › Fastest reporting time : 6 hours



## WHO WE ARE

We are a Montréal-based Canadian company that manufactures and integrates high-end automated drone technology for commercial, civilian and military purposes. Thanks to our expertise in Autonomous Robotic Aviation (ARA), we offer ready-made robotic aircraft solutions to help automate more and more of our clients' daily tasks and activities.



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