

# Survey-Grade Accuracy



The Kespry Drone 2s system uses Post-Processed Kinematic (PPK) technology to increase the accuracy of photogrammetric aerial images. Integrating PPK improves the speed, efficiency and reliability of gathering survey-ready data in commercial environments.



- Add survey quality data to your aerial intelligence
- Overlay design plans with up-to-date insights from the field
- Execute on site measurements with confidence



## Designed for Accuracy

Kespry makes it easy to integrate existing civil survey data, such as topographic maps, mine plans, and reclamation plans, with rich 2D and 3D aerial data captured with the Kespry Drone 2s. The accuracy of the system means Kespry customers can now work with previously referenced survey information or use Kespry data as a baseline for ongoing earthwork operations.

- Regulatory inspection standards can be more quickly met with increased credibility
- Inventory reserves, quantities removed and depth information can be accurately verified
- Proposal development, mine planning and blasting patterns can be defined with confidence

In short, all the speed, convenience and efficiency of the Kespry system, now with even greater accuracy and flexibility.

## Reliable in the Field

To improve the accuracy of aerial data, many systems typically use several Ground Control Points (GCP). Setting referenced control points across a single site has always been a time consuming and cumbersome process.

The Kespry Drone 2s system uses a GNSS base station and one known control point. During a Kespry Drone 2s flight, imagery from the drone and GNSS data from the base station are simultaneously collected. Both data sets are automatically uploaded for processing in the Kespry Cloud where accurate survey-grade data is automatically generated.

Repeatable survey-grade aerial data can now be captured and processed quickly and efficiently in a single flight.

[www.kespry.com](http://www.kespry.com)

## Kespry Drone 2s Specifications

Drone	Micro UAV Quadcopter
Airframe	Carbon Fiber
Weight	4.4 lbs (2 kilograms)
Diameter	22 inches (56 centimeters)
Propulsion	T-Motor propellers and motors
Flight Time	30 minutes single battery
Ground Coverage	150 acres per flight (60 hectares), 500 acres per map (200 hectares)
Wind Resilience	25 mph sustained (40 kmh), 35 mph gusts (55 kmh)
Camera Sensor	Sony UMC-R10C-20 megapixel (30 degree fixed mount)
Obstacle Avoidance	55 yard (50 meter) forward-facing LiDAR
Data Resolution	Down to .2 inch (.5 cm) per pixel Ground Image Resolution
Data Processing	WiFi data upload and unlimited online data storage
Positional Accuracy (with PPK)	Up to 2 inches (5 centimeter) Horz., 4 inches (10 centimeter) Vert.



## Kespry GNSS Base Station Receiver

GNSS	L1, L2, (GPS and GLONASS)
Waterproofing	IP67
Channels	132
Memory Storage	Internal 8GB
Weight	1.5 lbs (.7 kilograms)



For more information or to request  
a demonstration:  
[www.kespry.com/contact](http://www.kespry.com/contact)

kespry 

Copyright © 2017, Kespry Inc. All Rights Reserved.