



Pioneer Leads the Mining and Exploration Industry with Multicopter UAV-MAG Surveys

Pioneer Exploration Consultants Ltd., (Saskatoon, Saskatchewan) was the first company in the world to offer commercial UAV-MAG surveys using a multicopter.

SASKATOON, SASKATCHEWAN, CANADA, January 8, 2016 /EINPresswire.com/ -- Pioneer Exploration Consultants Ltd. is a Canadian based geological consulting company that is quickly emerging as a leader in mining and exploration related UAV-based survey technology. Starting in 2014, they designed and built a multicopter UAV-MAG™ survey system, and flew the first ever 590-line km multicopter-based survey. Pioneer is currently engaged with clients world-wide, in countries such as Chile, Oman, the US and Africa, as business continues to quickly grow.

Pioneer's approach was ambitious, rather than waiting for a turn-key system to hit the market, they designed and built their own. Through this process the team at Pioneer became leaders in providing UAV-MAG™ survey services to clients as early as 2014, but also experts in sensor integration and processing mag data derived from UAV platforms. As of 2015, their services became available in the US under a FAA Section 333 exemption, which presented a large milestone achievement for the company in the world of commercial UAV services.

Using their UAV-MAG™ system, Pioneer can conduct surveys in remote, rugged areas such as in heavily forested or steep terrain and not have to worry about a large takeoff and landing zone. Once in the air, the UAV-MAG™ takes care of the rest by flying the survey autonomously and returning home for landing. This flexibility and real-world utility of the platform is invaluable for conducting remote surveys. The small size of the platform, compared to a fixed wing system allows fast flight launching and easy transport. "We can carry our fully flight-ready system by hand, ATV or vehicle, and launch within minutes. No complicated launching platforms, or landing fields required." The UAV-MAG™ System is capable of surveying hundreds of line km per day, efficiently, safely and with a crew of only two.

The helicopter-based platform offers both safety and logistical advantages in remote areas when compared to fixed-wing platforms.

"With a high payload and long flight time, our UAV-MAG™ system can safely takeoff and land from virtually anywhere, including the center of a densely treed forest, or the side of a mountain. This extreme flexibility has allowed us to conduct surveys over terrain where small fixed-wing, or ground surveys were simply not possible."

Pioneer's system uses a Gem Systems Inc. magnetometer sensor. The GSMP-35A sensor package is a proven airborne magnetometer with 0.0001 nT resolution, 0.3 pT sensitivity and 10 Hz sampling. The system includes a laser altimeter, GPS, and an IMU to record the sensor's velocity, orientation and XYZ movement. The result is the ultimate in UAV-MAG™ surveys, with single sensor or multi-sensor gradiometry configuration and the flexibility of a helicopter platform. Pioneer is able to offer industry leading airborne magnetometer survey services worldwide, in almost any terrain environment at a fraction of the cost of conventional airborne surveys, or even ground-based surveys.

“Our UAV-MAG™ Surveys quickly became a significant advantage for our clients, letting them put more resources into ground. What we have created is a truly versatile survey platform for multiple sensor packages, essentially a Swiss Army knife UAV, and our clients so far have been extremely pleased with the quality data and reduced survey costs.”

-Michael Burns,
President, Pioneer Exploration Consultants Ltd.
<http://www.pioneerexploration.ca>

For more information about our UAV-MAG™ Surveys, or to request a quote, please contact Michael Burns at: Michael.burns@pioneerexploration.ca 1-306-715-6802

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