

UNMANNED AIRBORNE ELECTROMAGNETICS MINERAL EXPLORATION | GROUNDWATER | GEOLOGICAL RECONNAISSANCE

FAST SURVEY COMPLETION IDEAL FOR PROSPECT SIZED SURVEY AREA DOUBLES THE DEPTH OF INVESTIGATION

Airborne Electromagnetics (AEM) are an efficient way in geological surveying and have been widely used in mineral exploration, and environmental monitoring. MGT has developed a Multicopter borne AEM technique that uses an electromagnetic source on the ground and the receiver is transported by the Multicopter along flight lines.





UAV SEMI AIRBORNE ELECTROMAGNETICS

OBILE

GEOPHYSICAL

ECHNOLOGIES

"Semi Airborne EM combines the features and advantages of ground and airborne methods. Its design allows to look deeper than all airborne EM methods"

MGT has engineered the next generation of an airborne geophysical electromagnetic system designed specifically to increase the exploration depth while delivering both cost effective and time-saving solutions. The method uses the signals generated by an extended electric dipole on ground. This source generates the fundamental frequency signal and a large number of harmonics in a wide frequency band. The technical benefits are:

- $\circ~$ High spatial resolution due to the low speed of the octocopter.
- High resolution of conductivity changes at depth.
- This technique doubles the exploration depth of other airborne EM methods.
- Semi Airborne EM is ideal for mining projects on prospect scale.









Celler Str. 13 | 29229 Celle | Germany phone +49 (0) 5141 - 88 93 55 1 info@mgt-geo.com | www.mgt-geo.com