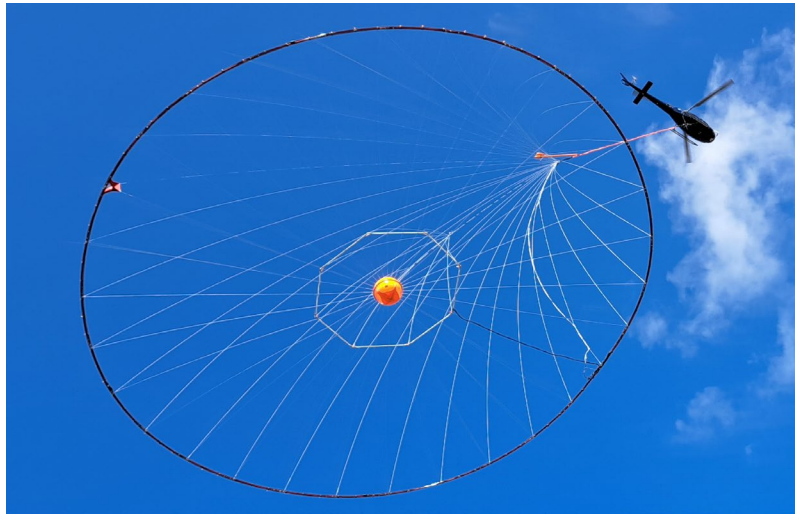


TargetEM

Advanced helicopter time-domain EM system

12.5 Hz / 15 Hz base frequency
~ 500,000 NIA dipole moment
industry-leading low noise



TargetEM is a new patent pending airborne time-domain electromagnetics system. **TargetEM** combines the latest achievements in electronics and sophisticated signal processing techniques to reliably deliver high-resolution geoelectrical data with the industry's highest quality and lowest noise level.

Specifications:

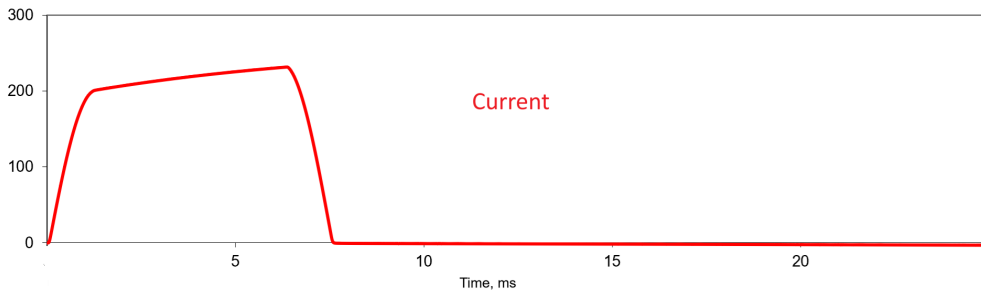
Transmitter loop diameter – 26 m
Number of turns – 4
Base frequency – 12.5 Hz / 15 Hz
Dipole moment ~ 500,000 NIA
Transmitter pulse shape – rectangular
Transmitter pulse width – selectable, typical 7 ms
Turn-off time – typical 1 ms

Receiver – 3 orthogonal coils (X, Y and Z)
Full waveform recording at digitizing rate 73,728 Hz

The system is designed to provide VLF and optional AFMAG data along with time-domain EM data

A total field magnetometer in a separate bird 25 m above the EM receiver
Two GPS antennas – one on the helicopter and the second one on the magnetic bird

Transmitter pulse waveform example (15 Hz base frequency)



TargetEM data example with corresponded resistivity-depth image

