

TargetEM

helicopter time-domain EM system



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 highest quality.

Specifications:

Transmitter loop diameter -21 - 26 m Number of turns -4 - 6Peak transmitter current -230 A Dipole moment -320,000 - 700,000 NIA Transmitter pulse shape - rectangular Transmitter pulse width - selectable, typical 6 ms Turn-off time - typical 1 msec Base frequency -25/30 Hz

Receiver – 3 orthogonal coils (X, Y and Z) Number of turns – 120 Z coil diameter – 1 m Full waveform recording at digitizing rate 73,728 Hz Very high signal-to-noise ratio Two formats of time-domain EM data output: - raw streaming data; stacked and processed data

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

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 mag bird

www.expertgeophysics.com



Transmitter pulse waveform example



www.expertgeophysics.com