



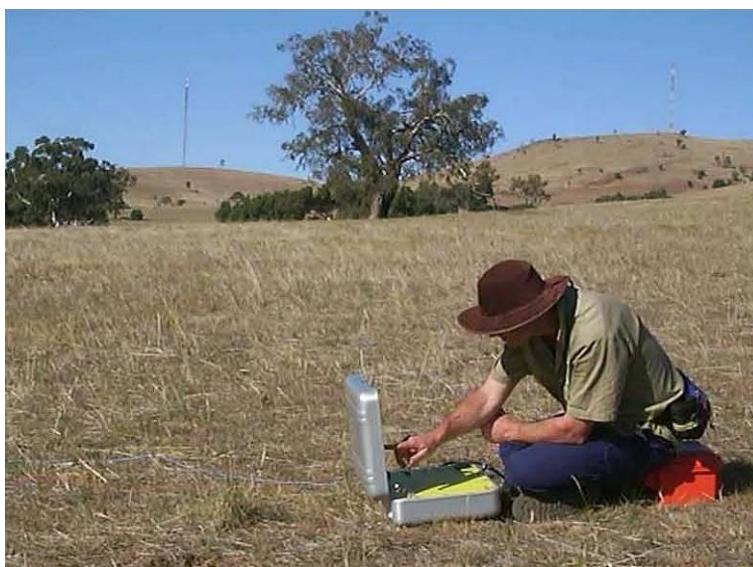
terraTEM System

The terraTEM is a new transient electromagnetic survey system designed and constructed in Australia. It incorporates a 10 Amp transmitter and a true simultaneous 500 kHz 3-component receiver. The unit is powered by an external 24 V battery pack system allowing 6-8 hours of continuous operation. An inbuilt GPS is mounted on the front panel, allowing location information to be automatically recorded with soundings. All connectors are external to the case allowing easy transportation without having to shutdown between sites.

The user interface comprises a 15" colour LCD panel and a touch-screen. Menus are designed to allow intuitive and rapid transition between critical acquisition parameters and data display. Spectral analysis, combined with DSP options, allows the user to design specific filters to suit local site conditions. A diagnostic menu provides access to a spectrum analyser as well as time-domain views of the input signal for rapid troubleshooting or optimisation of acquisition parameters to ambient site conditions.



Data is stored in an expandable 1 GByte solid-state memory, this provides the user with essentially unlimited storage space (up to 500,000 soundings), making the terraTEM system ideal for rapid, high-resolution surveys. System parameters are stored automatically with each sounding for post-survey quality assurance. Data is transferred using a USB flask memory stick. The terraTEM is packaged with data reduction and processing software and can generate on-site standard profile and decay plots, apparent conductivity pseudo-sections, and contour plan maps. Images can be saved as bitmaps and inserted directly into reports. All data in this brochure was derived from the internal terraTEM software. Synchronisation with an external transmitter is optional.



The terraTEM has been developed and manufactured by Monash Geoscope and distributed worldwide by Alpha Geoscience.

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