TITAN 24 DCIP & MT array-based system provides the most sophisticated and accurate 2D electrical imaging of the subsurface available today. Introduced in 2000, Quantec has performed over 400 TITAN surveys globally.

- Drill planning, accurate target delineation
- Over 200 minesite surveys completed
- 48 hour turn around time per line (if requested)
- From surface to depths of 2000 metres (DCIP to 750m, MT to 2000m)
- Property and deposit scale imaging prior to drill programs

Overview

The array-based TITAN 24 Deep Earth Imaging system provides advanced 2D electrical earth imaging. TITAN 24 is a multi-parameter distributed ground geophysical survey system that acquires large volumes of highly accurate subsurface physical property information from surface to great depths.

- Imaging through overburden conditions
- Detection of deep, more subtle geophysical responses
- Delineation and evaluation of ore deposits
- Focused deep drilling
- Discovery of new targets
- Regional deep earth studies

APPLICATIONS:
- Mineral exploration (massive sulphides, porphyries, IOCG, gold, VMS, SEDEX, uranium, and diamond)
- Minesite investigations • Brownfield exploration • Hydrocarbon exploration • Geothermal exploration

Web: www.quantecgeoscience.com • Contact: info@quantecgeoscience.com • Head Office: Toronto Ontario 416 306 1941
TITAN 24

**TITAN - Unique characteristics for best possible data**

- 100% duty cycle all the time provides cleaner data and less noise
- All transmitter signal is recorded and deconvolved (removed) from the recorded data
- Superior signal to noise ratio
- Digital signal processing with optimized noise rejection and reduction strategies
- Telluric cancellation option available for IP surveys
- Full-waveform time series data acquisition
- Current monitoring for processing optimization and noise cancellation
- Multi-fold acquisition – pole-leading and pole-lagging – for unbiased 2D high data density
- Scalable, n=1-24 with flexible “a” spacing (25, 50, 100, 150, 200 or 400 metres)

**Options with TITAN**

- Titan IP mode only or Titan MT mode only
- Current extensions for enhanced imaging under ends of lines
- Optimized layouts to achieve desirable depth of investigation over any grid size
- Variable imaging array geometry (detailed in central portion of line)

**TITAN 24 system specifications:**

- Array configuration: Pole-Dipole, Dipole-Dipole, Variable
- Sample rate-DCIP: 240/250 Hz
- Transmit electrodes: Stainless steel rods
- Receiver electrodes: Stainless steel rods/ steel plates/ pots
- Power supply (DCIP surveys): Up to 30k W generator
- Receiver configuration (DCIP & MT Surveys): 61 channels per system - 2 Central recording units - 2 GPS synchronization clocks - 2 Central processing units (CPU)
- Magnetic induction coils (MT): High frequency (100kHz to 10Hz): EMI BF-6; Low frequency (1kHz to 0.0002Hz): Phoenix P50 or EMI BF-4)
- Sample rate-MT: 48k, 12k, 100 or 120 sps.
- Transmitter: Full duty cycle - ZONGE or GDD available
- Transmitter pulse length: 256/30 for 60Hz or 256/25 for 50 Hz
- Power line noise rejection: 60 Hz or 50 Hz
- Operating temperature: -55 C to +60 C
- Crew size: 8-12 people
- Daily production rate: Up to 3 line km depending on terrain and area access
- Shipping: standard packaging (approximately 5000 lbs)