

Transient Electromagnetic Prospector

The transient electromagnetic prospector is used for middle and deep resource prospecting, with a depth range of 50m~1300m. It detects various metal ores, underground water, and underground electrical delaminating.



Overview

Advanced Transient Electromagnetic Prospector

This Transient Electromagnetic (TEM) system utilizes advanced electromagnetic induction theory to map subsurface conductivity and magne-to-conductivity variations. Engineered for durability, the unit features a ruggedized, waterproof, and dustproof stainless steel interface, making it ideal for harsh field environments. By integrating the receiver, signal amplifier, and power supply into a single high-density, portable housing, the system simplifies complex geophysical surveys for mineral exploration and geological problem-solving.

Connectivity

USB Interface

Key Features

System Advantages

- Intelligent, user-friendly Windows PE operation panel
- High-brightness, low-power LED display with backlight
- One-touch signal acquisition with dynamic floating amplification
- Integrated receiver, signal amplifier, and power supply
- Ruggedized, waterproof, and dustproof construction

Technical Specifications

Receiver Performance

16 Bit

A/D Converter

140 dB

Dynamic Range

1 uV

Background Noise

Transmitter Capabilities

Parameter	Values
Current Strength (A)	25, 50, 100, 200
Current Pulse Width (ms)	10, 20, 40
Max. Transmit Power (KW)	12

Hardware Configuration

- CPU: ADM-LX800 (Low power consumption)
- Memory: 512MB
- Storage: 1GB electrical disk
- Display: TFT 800x600 resolution

Sampling Rates

1uS, 4uS, 16uS