

V-FULL WAYER



V-Full Wayer, compact recorder for full wave signal

2 CHANNELS
IP FULL WAVE RECORDER
MINERAL EXPLORATION

- **2 Simultaneous Dipoles**
- **Up to 8 hours recording**
- **Time Stamped Data**

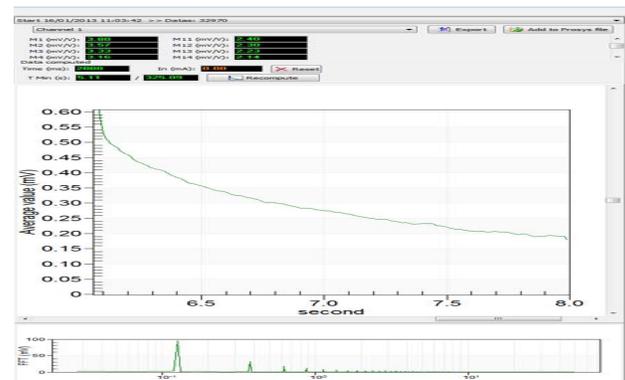
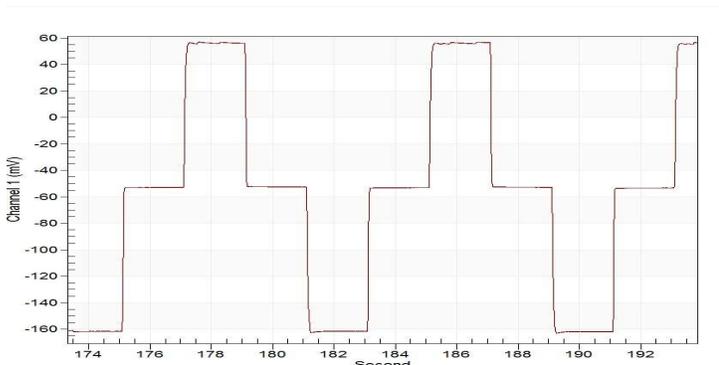
V-Full Wayer: this logger for electrical signal is a new concept of compact and low consumption unit designed for advanced Time Domain Induced Polarization, Resistivity and SP measurements. It can work in all field conditions, small, discrete, autonomous and can record continuously without operator.

Compactness: light, discrete and easy to setup on the field, even on remote areas. Autonomous two dipoles logger , no need of the operator during acquisition. V-Full Wayer allows a high productivity for dipole-dipole, gradient, extended poly-pole and other arrays. A network of several tens of channels can be quickly installed on the field for deep exploration and advanced processing (perpendicular dipoles, remote reference...)

Internal GPS: an internal gps, very accurate and providing PPS signal (one pulse per second) allows to store all time series with time information. This is crucial to process data from several V-Full Wayer loggers installed in a same area. This is also useful to correlate with injection dipole waveform, in case this has also been recorded with a I-Full Wayer logger.

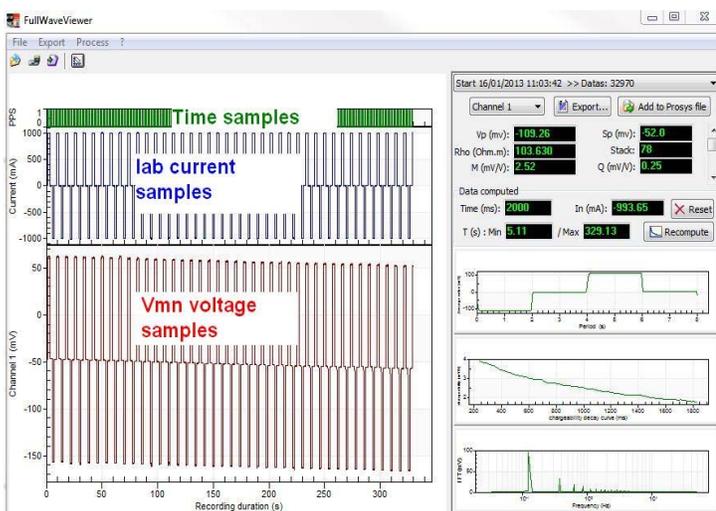
High resolution: samples are recorded every 10 (ten) milliseconds (100 Hz sampling frequency). Data from several recorders can be merged and processed together with the Full Wave Viewer program delivered with the system. All data is synchronized through the GPS-PPS time stamping. A post acquisition processing permits to improve the signal-to-noise ratio and to get good quality IP data for deeper investigations or in case of noisy areas.

Internal memory the memory can store up to 8 hours corresponding to 2 860 000 samples. Then data can be transferred to a computer or directly to a SD card on the field by using a pocket SD card reader.



FULL WAVE VIEWER PROGRAM

The instrument is delivered with a pc program to transfer data through USB to a pc. Samples can be displayed, filtered and processed. Resistivity, chargeability, Self potential are computed and displayed. Windows of samples can be selected to be processed in order to remove noisy data. A frequency analysis is performed and several filtering options are available. Files can be processed together in correlation with the times series recorded at the transmitter. All time pulses, every second, are shown. All data can be printed and exported in text file for a user advanced processing.



SD CARD READER

All samples can be transferred directly on the field to a SD card without any pc. The SD CARD reader can be carried in a pocket and collect the full memory within a few minutes. For Instance a 4 GB card can store 900 hours of data recording.



FEATURES

TECHNICAL SPECIFICATIONS

- Input voltage: Max. input voltage: 15 V
- Protection : up to 1 000 V
- Accuracy: 0.2 % typical
- Resolution: 10 μ V
- Sampling rate : 10 milli seconds (100 Hz)
- Induced Polarization (chargeability) measured every 10 milliseconds (200 IP windows for a 2 sec pulse)
- Input impedance: 100 M Ω
- Low pass filter Cut off frequency : 10 Hz
- Upper frequency which can be resolved : 50 Hz
- Frequency resolution : up to 34 micro Hz
- Internal GPS with PPS (one pulse per second)
- Time resolution : 250 micro seconds (time stamped samples)
- Battery test
- Contact resistance check

GENERAL SPECIFICATIONS

- Lcd display , alpha numeric with 4 lines of 20 characters
- Data flash memory: 2 860 000 samples corresponding to 8 hours continuous recording on one channel
- After acquisition : possibility of data storage on external SD card with a capacity of 900 hours for 2 channels (option)
- USB and serial link RS-232 for data download
- Power supply: internal Li-Ion rechargeable battery ; optional external 12V standard car battery can be also used
- Autonomy : 40 operating hours with the internal Li-Ion battery
- Weather proof IP 67
- Shock resistant resin NK-7, case with handle
- Operating temperature: -20 $^{\circ}$ C to +70 $^{\circ}$ C
- Dimensions: 31 x 25 x 15 cm
- Weight: 2.8 kg