

SEISMOGRAPH SEISMUT 6 - 50 – 200 channels

50 channels seismograph with removable notebook. It allows interpretation of the acquired data in terrain. A/D converter, delta-sigma - ADS1254 - 40 kHz max.sampling rate, 24 bits resolution, effective: 19 bits – 118 dB. Operates with any notebook with USB-2.

Basic specifications:

- number of channels: 50
- sampling rates: from 25 μ s, 50 μ s to 4 ms (in increasing steps)
- record length: 128 to **16384** samples in case of 32 MB RAM **32768** samples
- record time length: up to 2 minutes
- maximum number of stacks: 999 in one recorded file
- pre-trig recording: 0-100% of recording length (in the case of active shot)
- delay time: - minimal
- trigger inputs: make/break(=switcher) or analog
- A/D converter resolution: from minimal: 18,5 bits, effective (higher sampling rate), to 24 bits maximal
- dynamic range: 114 to 148 dB (MK6 has 126 dB theoretical= 21 bits ADC)
- minimum input signal: +- **0,1** μ V (0,4 μ V) (two regimes of reference voltage on A/D converters)
- maximum input signal: +- 0,8 V (3,2) – theoretical +-23 bit
- frequency range: 13 kHz to Hz
- low cut (high pass): - possibly on request
- notch filter: digital - (on request analog 50 or 60 Hz)
- antialiasing: automatically according to sampling frequency
- memory: 16 - **32** MB RAM SDR
- *preamp gain*: two regimes of reference voltage on A/D converters
- anti-alias filters: - (on request)
- weight: 5.5 kg

Multiline operation:

- possibility connect up to 3 instruments simulating one with 100 or 150 channels

Stack mode:

- fast stack – stacking without screening the sum
- autostack – shows the sum on monitor in reduced resolution (you can cancel last stack)
- preview – shows every shot record offering the choice to sum it or not

Recording format:

- SEG-2 (or on request)

Applications:

- Mineral exploration
- Geotechnical surveys
- Engineering geology
- Groundwater surveys
- Depth-to-bedrock
- Fault location
- Oil & Gas Exploration
- Surface wave analysis
- Rippability surveys
- Teaching and Research
- VSP and tomography

Connectors:

- AMP PA66-6F25 (57 pins)

Reflection mode:

- Possibility of joining up to 4 seismographs in line with common trigger and with up to 200 channels

