

MBROMBIR



KEY FEATURES

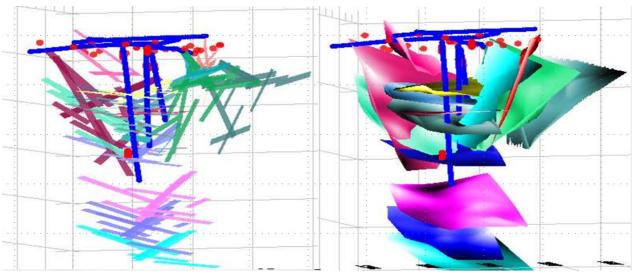
- Adjustable gain: 8 steps from 1-100
- Up to 24 modules
- Wide-band capability
- 44 mm or 56 mm versions
- Rugged field-proven construction
- Microcontroller driven clamping system
- Independent clamping of each module, current controlled
- Interfaces with Vibrators, VIBSIST, weight-drop and explosive sources

APPLICATIONS

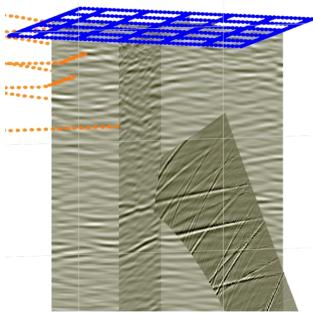
- Oil and gas exploration
- Reservoir characterization
- Mineral exploration
- Resource delineation
- Hazardous waste geologic disposal
- Hydrogeological assessment
- Rock mechanical studies
- Research and education

MULTI-LEVEL 3-COMPONE

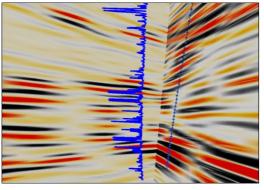
3D reflection and VSP STRUCTURAL MAPPING. Olkiluoto Nuclear Waste Repository Site, Finland



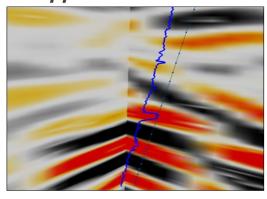
VSP 3D cohesive geometrical model of the Olkiluoto site, 2002.



Inline and crossline slices through the 3D cube (2006) together with a 3D migrated VSP profile (2002). Very good match of sub-horizontal reflectors mapped by the two independent investigations.



Apparent reflectivity in hole matches well with reflectors mapped in the 3D cube



P-wave velocity variation in hole matches well with reflectors mapped in the 3D cube

ENTS ANALOG RECEIVERS

SPECIFICATIONS

System Modules

- 1 to 24 elements with 3 axis oriented geophones and electronics
- 3 Components: Double Differential-Element Orthogonal (15 Hz Natural Frequency, 0.52 V/cm/sec)
- **Level Spacing 10 m** *Other spacing available on request*
- Power supply & controller for gain adjustment and clamping control.
- A variety of seismographs can be used, which include all industrystandard recording systems.

Software controlled

- Gain adjustment
- Clamping

Dynamic Range

≥ 80 V/µs

Total Harmonic Distortion

 \leq 130 dB (22 * 10⁻⁶ %)

Common Mode Rejection Ratio

≥ 80 dB

Gain Accuracy between Channels

≤0.5 %

Analogue Low-Pass Filter

10 kHz 6 dB / Octave

Operation Temperature Range

-40°C to +105°C

Dimensions of one receiver unit

780 mm length, 44 or 55 mm diameter

Power

90-260 VAC

Maximum Depth

2,000 m

Frequency Range options:

Version LF 5 Hz - 500 Hz **Version SF** 16 Hz - 2000 Hz **Version HF** 40 Hz - 6000 Hz





ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE

VIBROALETIRC/

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