



Digital 3-Component Seismometer



Applications

- Traditional seismic exploration, seismic station prediction system
- Transient multi-point Rayleigh wave exploration
- Civil engineering inspection
- Long time micromotion measurement
- Blasting vibration monitoring

Specifications

- Outer size: 170mm*170mm*260mm
- Net Weight: $\leq 8\text{Kg}$
- Waterproof depth: 1 m
- Number of channels: 3 with 24 bits A/D converter
- Continuous working time: 45 days (@25°C/100sps/in autonomous operating mode)
- Frequency bandwidth: 10s-100Hz
- Dynamic range: $\geq 120\text{db}$
- Amplitude consistency between channels: $< 5\%$
- Phase difference between channels: $< 0.1\text{ ms}$
- Crosstalk suppression between channels: $> 100\text{dB}$
- Transverse vibration suppression: better than 0.1%
- Self-noise level: below the NHHM curve in the whole frequency band, below the NLNM curve from 10s to 10Hz.

Specifications

- Power consumption: <0.5W (Self-storing operating mode, off network mode)
- External power supply: 9V to 18V, rechargeable
- Sampling rate: 100, 250, 500, 1000, 2000sps
- Time stability: 5×10^{-7} s, built-in BD+GNSS positioning timing, can receive BeiDou satellite BDS observation frequency
- Storage capacity: 32 GB (expandable to 64GB)
- Data format: MiniSEED (can be converted to SAC, SEG-Y, PSD, SEG-2 format)
- Data interface: RS232, USB, WIFI, Ethernet, 4G (optional)
- Interactive platform: Windows, Android, Linux
- Working angle: ≤ 10 degrees
- Operating temperature: -20/+55°C

