RHINO GEO

S3 Node 3C

- Integrated design, lightweight and compact
- No connectors (Wireless charging/wireless Harvesting)
- Built-in 4G module (Real-time waveform view)
- High-precision clock (Timing accuracy ±10 μs)
- Bluetooth QC (View waveforms and locate devices via the APP)
- Built-in signal generator
- Smart power on/off
- 40 Day (24-hour continuous operation and internal storage)
- Supports GPS/BeiDou/Glonass/Galileo positioning and timing

Physical Specs

- **Size:** 90mm*100mm*128mm (5Hz/5HS) / 90mm*100mm*189mm (2Hz)
- **Weight:** 1750g (5Hz/5HS) / 2200g (2Hz) (without spike)
- **Charging time:** 6.5 h
- **Operating life@25°C:** 40 days@2ms continuous
- **Waterproof:** IP68
- **Operating temperature:** -40°C to +70°C

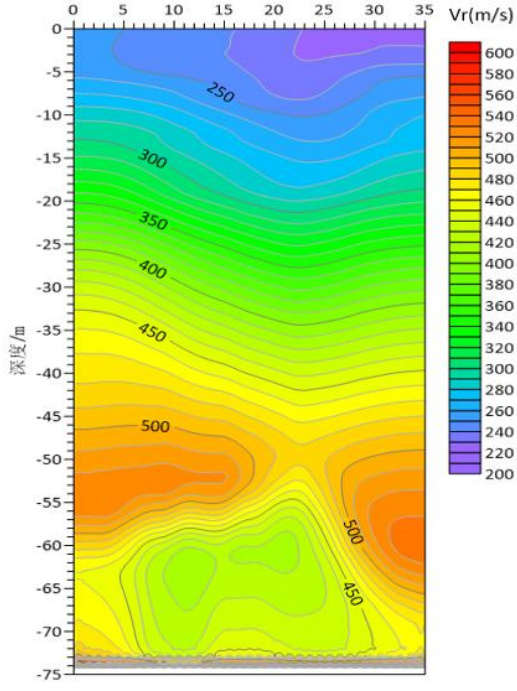
Instrument Specs

- **ADC resolution:** 32 bits
- **Sampling rate:** 0.25, 0.5, 1, 2, 4, 8, 10, 20 ms
- **Preamplifier gain:** 0-24 dB (6dB steps)
- **Low cut filter:** 1 Hz, DC removed or disable
- **Anti-alias filter:** 206.5 Hz@2 ms (82.6% Nyquist frequency) optional linear phase and minimum phase
- **0 dB @ max Input**: 2.5 V peaK
- **Equivalent input noise**: 0.5uV@0.25ms / 0.2uV@2ms / 0.14uV@4ms
- **Instantaneous dynamic range**: 118.9dB@0.25ms/126.8dB@2ms/130dB@4ms
- **Total dynamic range**: 145 dB
- **Timing accuracy**: ±10 μs
- **Internal storage**: Extended from 32GB to 128GB
- **Built-in GPS**: GPS, BDS, GLONASS, GALILEO (concurrent reception) are used for timing and positioning

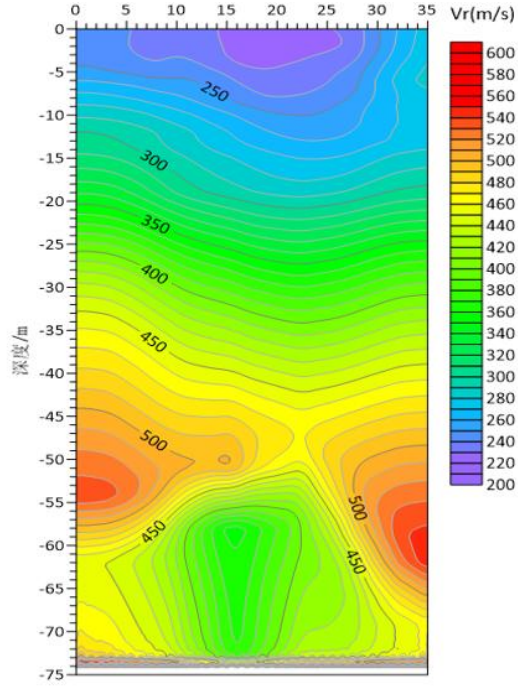
Sensor Specs

Optional Sensors	5Hz	5HS	2Hz
Natural frequency	5 Hz ± 7.5%	5 Hz ± 7.5%	2 Hz ± 15%
Coil resistance	1850 Ω ± 5%	13300 Ω ± 5%	6400 Ω ± 10%
Sensitivity	80 V/m/s ± 5%	230 V/m/s ± 7.5%	260 V/m/s ± 15%
Damping	0.7 ± 7.5%	0.7 ± 7.5%	0.7 ± 15%
Distortion	≤0.2%	≤0.35%	≤3%
Typical spurious frequency	≥170 Hz	≥120 Hz	≥90 Hz
Effective frequency range	0.2~1000 Hz	0.2~300 Hz	0.1~300 Hz

S3 Node 3C 5Hz



SmartSolo IGU-3C 5Hz



S3-3C and SmartSolo IGU-3C 5Hz were compared side by side by some client to test the karst cave