

GroundVue 6 Data Sheet

The Groundvue 6 & 6C is inline towed antenna specifically designed for mapping sub-surface geological formations in harsh environments. Ideal for quick lithology investigations, identifying deep void structures or mineral exploration. When undertaking a simple common offset reflection survey the systems can be triggered to sample at a specific time interval and GPS positions are autonomously recorded.



Data is transferred via wireless network or Bluetooth (please specify on order) to a Windows OS device. The intuitive and user interface means data acquisition is simple and quick.

The GV6 & 6c do not require a reference cable between the transmitter and receiver, the receiver automatically synchronises to the transmitter. No reference cable means preforming CMP and WARR velocity calibrations is effortless. WARR records can be acquired by one operator in seconds by simply detaching the transmitter from the receiver and pulling the receiver away from the transmitter at a steady pace.

Unlike most other GPR systems the GV6 & 6c are spread spectrum systems. This means that unlike Impulse systems- where an impulse is directly transmitted- a sequence of different pulses are transmitted which the receiver correlates in order to achieve a longer transmit pulse and higher mean transmit power, resulting in deeper penetration.

If the aim of the investigation is to resolve shallow to mid depth targets then we advise using the Groundvue7 which is very similar to the GV6 &6c but an impulse system.

The GV6 &6c antenna are low frequency and unshielded, therefore users will need to check if there are any national or local restrictions which may prohibit their use. In many cases the local communications regulator will need to be notified know when and where a survey is to take place. For use in the UK a Non- Operational Licence Application Form (OfW 225) must be submitted with [Ofcom](#). Please contact Geomatrix for further information.

Product Dimensions

| Physical | Dimensions (L x W x H) | Weight |
|-------------------|------------------------|--------|
| (instrument only) | 16m x 7cm x 7cm | 15kg |

Technical Specifications

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|------------------------------------|---|
| Antenna: | Resistively loaded wire dipoles. |
| Antenna Bandwidth: | 7MHz to 30MHz or 15MHz to 60MHz |
| Record Length: | 1.6us |
| Trace Interval: | Continuous sampling, 5 scans per second. |
| Pulse Repetition Frequency: | 150kHz |
| Stacking: | Automatic real time stacking of 7500 traces. |
| Samples: | 256 samples per trace. |
| Data Format: | Utsi Electronics: .hrd RADAN: .dzt SEGY: .sgy |
| Frequency Response: | 3MHz to 80MHz |
| Data Storage: | Hard Drive or solid state memory |
| Data Transfer: | Bluetooth or WiFi link |
| GPS: | Will integrate External GPS NMEA GGA sentence through RS232 comm. Port or USB on data logger. |
| Power Supply: | 6 Ah Internal Li-Ion battery, offering 15 hours operating time. |
| Output Voltage: | 100V |
| Laptop/Tablet requirements: | Windows 7,8 or 10. WiFi or Bluetooth connectivity |

Input for GPS via USB or RS232 com port