

GroundVue 7 Data Sheet

The Groundvue 7 is an inline towed antenna specifically designed to map deep sub-surface anomalies in harsh environments. When undertaking a simple common offset reflection survey the systems can be triggered to sample at a specific time interval and GPS positions are automatically recorded.



GroundVue 7 in operation.

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 GV7 Transmitter and receiver are not joined by a reference cable, the receiver automatically synchronises to the transmitter pulse repetition rate. No reference cable means performing 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.

The GV7 antennas are low frequency and unshielded, therefore operators 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 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](http://www.ofcom.gov.uk). Please contact Geomatrix for further information.

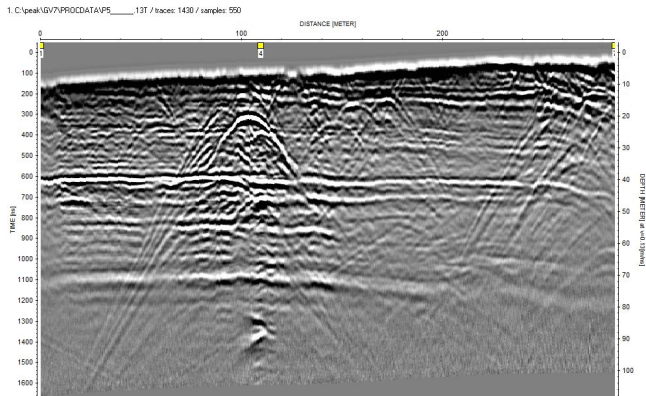
Product Dimensions

Physical	Dimensions (L x W x H)	Weight
(instrument only)	800cm x 7cm x 7cm	12kg

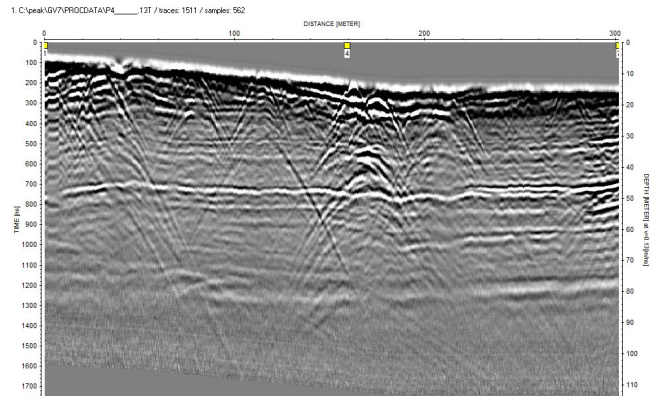
Technical Specifications

Frequency:	40MHz or 80MHz central frequency. (specified at time of order)
Output Voltage:	100V
Repetition Rate:	150KHz
Antennas:	Resistively loaded wire dipoles.
A/D Conversion:	15dB preamplifier followed by real time 14bit ADC.
Stacking:	Real time stacking of 7500 traces, giving a total of 24 bits data width.
Frequency Response:	10MHz to 80MHz. or 40MHz to 160MHz.
Record Length:	1.6uS
Sample:	256 samples per trace.
Data Format:	Utsi Electronics: .hrd RADAN: .dzt SEGY: .sgy
Communication:	Bluetooth or wireless network.
Power:	internal Lilon, 6Ah giving 15 hours transmit time without recharge.
Laptop/Tablet requirements:	Windows 7,8 or 10. WiFi or Bluetooth connectivity Input for GPS via USB or RS232 com port.
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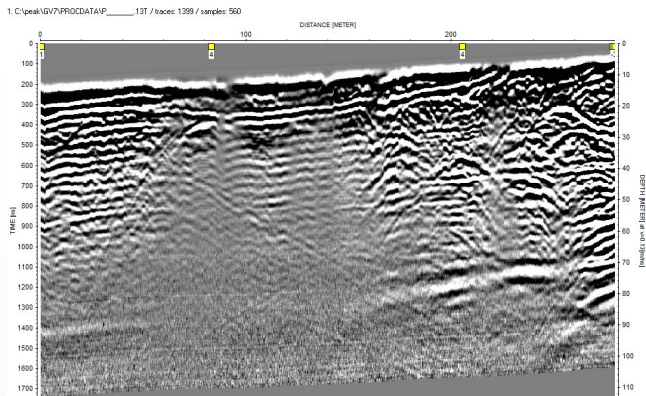
Gallery



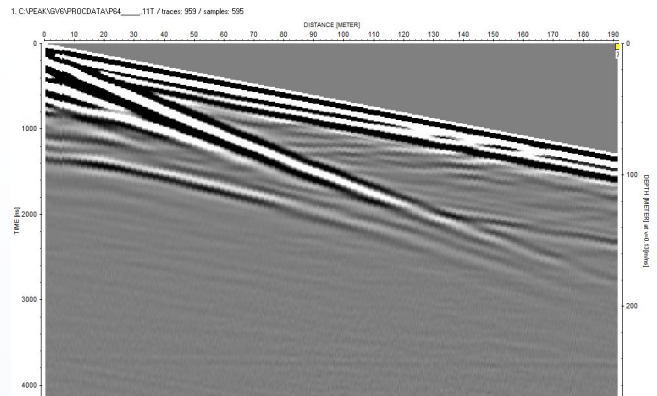
GV7 example data on limestone geology, UK. Traverse 1



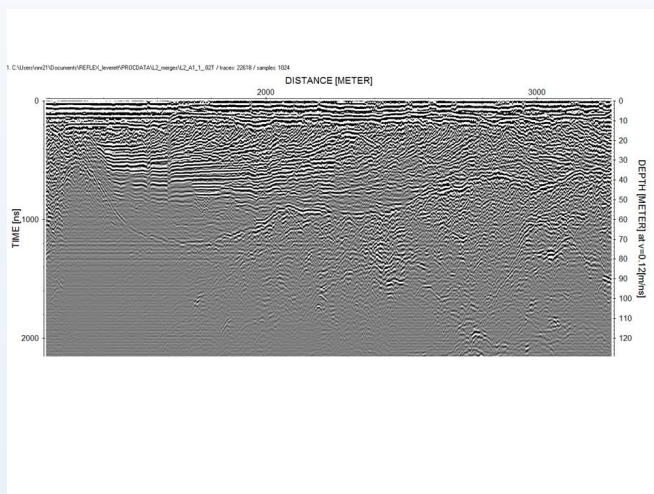
GV7 example data on limestone geology, UK. Traverse 2



GV7 example data on limestone geology, UK. Traverse 3



GV7 example WARR data on limestone geology for wave velocity calibration, UK.



GV7 example data through a Glacier in Greenland, Data courtesy of Newcastle University