

GroundVue 100 Data Sheet

The GroundVue 100 is a monostatic shielded 100MHz central frequency antenna. The Antenna utilises a real time analogue to digital converter to provide unbeatable signal to noise at long two way time travels.



GroundVue 100 with trailing odometer wheel.

The Real time A/D with internal stacking, giving a total of 24 bits data width, and improving the signal to noise ratio of late arrivals. The system has been designed for environmental studies and brownfield site investigations. With a strong yet light rugged housing the GV100 can be pulled by a single operator for small areas surveys or towed behind a vehicle for larger surveys over uneven ground. In continuous recording mode the GV100 will record 11 traces per second; alternatively the system can be triggered via a trailing odometer wheel which connects to the rear of the antenna.

Applications

- Depth of Peat.
- Depth to bedrock.
- Shallow cavity detection.

Data is transferred via wireless network or Bluetooth (please specify on order) to a Windows OS device. Goespatial positions can be integrated through the recording device. The intuitive and user interface means data acquisition is simple and quick.

The Latest version of the GroundVue data acquisition software can be accessed from this link - [GroundVue Software](#).

Product Dimensions

Physical	Dimensions (L x W x H)	Weight
(instrument only)	110cm x 110cm x 42cm	29kg

Technical Specifications

Frequency:	100MHz central frequency.
Antenna type:	Concentric Bistatic (zero offset)
Pulse Repetition Frequency:	1MHz
T/R switch:	With variable attenuation.
Output Voltage:	50 V
Digitisation:	Real time ADC.
Stacking:	Real time stacking, giving a total of 24 bits data width.
Trace Interval:	Continuous sampling, 11 scans per second.
Record Length:	fixed 180ns, 256 points. Option with 360ns and 512 points available.
Data Format:	Utsi Electronics: .hrd RADAN: .dzt SEGY: .sgy
Power:	Internal rechargeable Lilon, 6Ah giving >10 hours operation without recharge. Can also run on external 12V supply.
Laptop/Tablet requirements:	Windows 7,8 or 10. WiFi or Bluetooth connectivity Input for GPS via USB or RS232 com port
Positioning:	Built in GPS chip for time stamp and ± 1 m positioning, External GPS receiver can be integrated for better positioning