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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.

Product Dimensions

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

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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 LiIon, 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 ±1m positioning, External GPS receiver can be integrated for better positioning

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