

## 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

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