

GroundVue2 Data Sheet

The GroundVue 2 (GV2) Ground Penetrating Radar system manufactured by Usti Electronics is specifically designed to operate with their low frequency shielded antenna. The transmitter and receiver antenna can be separated to permit Common Midpoint (CMP) and Wide Angle Reflection & Refraction (WARR) velocity analysis, in order to calibrate the radargram depth axis. The Groundvue acquisition software includes a curve fitting program. Thereafter the system can be used in common offset reflection mode to record subsurface profiles (radargrams or B-scans).



Picture of the GroundVue 2 being used to assess the depth of peat. Image & video courteous of Atlas Geophysical Ltd.

The rugged antenna design and high sampling rate makes the GV2 GPR system perfectly suited to towing behind a vehicle over rough terrain. The GV2 GPR system is commonly used for identifying geological formations to a depth of 40m; cavity detection, deep storage tank detection and monitoring the depth of peat land as part of environmental studies.

Product Dimensions

Physical	Dimensions (L x W x H)	Weight
(instrument only)	330cm x 110cm x 42cm	56kg

Technical Specifications

Frequency:	50MHz central frequency (one octave bandwidth).
Record Length:	80 to 800ns (can be extended to 1600ns)
Samples:	256 (or 512 for 1600ns version)
Data Bits:	16 ADC
Trace Interval:	Free running or every 100, 200 400 or 800mm triggered by odometer
Scan Rate:	11 scans pre second.
Stacking:	Automatic stacking function.
Pulse Repetition Frequency:	150kHz
Frequency Response:	10-150MHz
Laptop/Tablet requirements:	Windows 7,8 or 10. WiFi or Bluetooth connectivity Input for GPS via USB or RS232 com port

Videos

<https://youtu.be/iZ-R-i0Gwi4>
<https://youtu.be/iZ-R-i0Gwi4>