



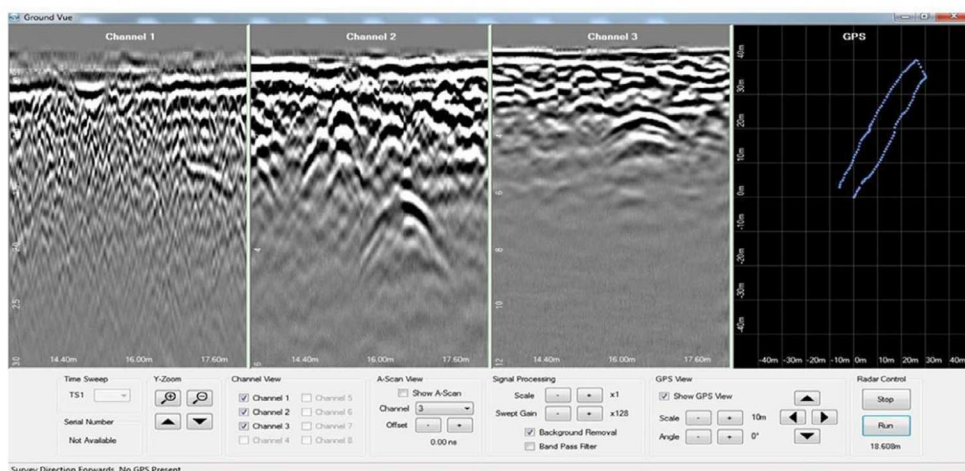
TriVue

TriVue is a multi-frequency Ground Penetrating Radar (GPR) system, housed in a single light weight, rugged casing.

The 250MHz, 500MHz and 1GHz central frequencies of the 3 fully shielded, bistatic, bow tie antennas within, provide users with an effective bandwidth of 125MHz to 2GHz, permitting detailed investigation of the subsurface at depth, making TriVue ideal for use in utility detection, road profiling, ground engineering projects, environmental applications and railway ballast investigations.

The wired/wireless connection option allows the antenna to be up to 250m from the data recording device, making the system uniquely suited to use on otherwise difficult surfaces such as quarry faces or earthen/concrete dams.

The intuitive user interface and versatile display tools allow the user to analyse data quickly and easily in the field and apply quality control procedures. The high Pulse Repetition frequency (prf) coupled with unique stacking functions permit the three independant data sets to be recorded simultaneously without crosstalk. The record length for each channel may be set independently, permitting the operator complete control over data acquisition.



Sample Screen display with 1, 2 and 4m depth settings and GPS path map

Data is recorded directly onto a rugged laptop or tablet equipped with Windows OS via wired or wireless connection. A built-in GPS chip will time stamp each trace accurately and provide a simple location means. An external Survey grade GPS may be connected for more Accurate positioning

TriVue data can be processed in a range of software packages including ReflexW, GPR Slice, GPR Soft, Road Doctor and Geolitix.

TriVue is available with 2 Wheel Lightweight Folding Trolley, 4 Wheel Heavy Duty Cart or, with Single Trailing Wheel. Each of these being equipped with a built-in odometer.



Technical Specifications

Channels	3
Depth in ns (Time Sweep)	10ns to 160ns, individually set by channel. Extended time sweep by request.
Samples per trace	256 or 512
Digitisation	16 bit A to D Converter
Data Format	Utsi Electronics .dat/.hdr Radan .dzt SEG Y .sgy
Anti alias filter	10kHz
Transmitter pulse repetition frequency	2MHz jittered to reduce EMC interference
Max scan rate	532Hz with 256 samples and 3 channels 266Hz with 512 samples and 3 channels.
Stacking	Automatic stacking. Number of stacks set from the time sweep, number of samples per record and scan rate. To increase stacking, use a lower scan rate.
Triggering	Single TTL pulse. Dual A/B inputs for directional information. Self trigger for continuous operation.
Power	Internal 12V Li Ion battery – 7 hours operation. External supply 11V – 15V, 400mA
Antenna Separation (Tx-Rx)	250MHz – 416mm 500MHz – 188mm 1GHz – 70mm
Impulse Width	250MHz – 1ns 500MHz – 600ps 1GHz – 300ps
Transmission Voltage	250 MHz – 20V 500MHz – 12V 1GHz – 8V
Bandwidth	250MHz – 125MHz to 500MHz 500MHz – 200MHz to 800MHz 1GHz – 500MHz to 2GHz
Internal GPS	SPS GPS precision. Records NMEA GPGLGA & GNGAA sentence.
Skid Plate	Ultra High Molecular Weight Polyethylene

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