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PinpointR3D Data Sheet

A development of the PinpointR utility mapper, the PinpointR3D is a high frequency 3D ground penetrating radar (GPR) with 450MHz antenna. Ideal for large scale infrastructure mapping. An 8ch system built up of 4x transmitters and 4 x receivers. In principle, the EM wave is emitted by the transmitter into the ground, the wave is then reflected off the feature/ change in dielectric properties and picked up by the receiver. As with all GPR systems, the resolution will depend on the site ground conditions and the moisture content of the soil, recommended dry sandy loam soils under dry conditions to obtain a good imaging depth - optimal prospection depth ranges 3-5m in the UK with this frequency range.



Using real time sampling technology (RTS) the system allows the user to acquire high quality data, using an android data logger and running the new Viewpoint2 software. With most of the same features as the PinpointR, such as

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target picking, feature tracking, you can now actively view your location alongside your 2D B scans and start to spatially visualize how the data looks in plan view on the map. To optimize data acquisition, the user can integrate an external GNSS system for greater positional accuracy and record the data as a survey file with multiple alternating lines in an x, y grid format. The data can then be transferred via USB or quick share onto your PC and processed in the Condor or Geolitix software.

User friendly model which has improved on the weight and size of previous 3D GPR systems. Now more lightweight, robust, with an easy-to-use interface ideal for mapping larger survey areas by a single user. Can be transported and deployed by a single operator it is more compact with a dynamic 8 channel design and less than 25kg in weight.

Deployment

Robust and compact design allows easy storage in the back of a standard 4-wheel cart. Easily loaded/loaded by one operator less than 25kg in weight. When ready to deploy the handle frame unfolds and is secured by a bolt, cart handles are foam lined for comfort and the recording tablet can be secured on the tablet support. The unit is supplied with a gps pole and supporting poles for use which can easily be assembled on site. The data is fed through the ethernet cable from the PinpointR 3D housing to the tablet the external GNSS data can be accessed via Bluetooth or via serial connection (an adapter cable is provided with the unit; the user will use their own GNSS to serial cable and connect this to the adapter). Powered by 2x Li ion batteries, these slide on top of the GPR housing.

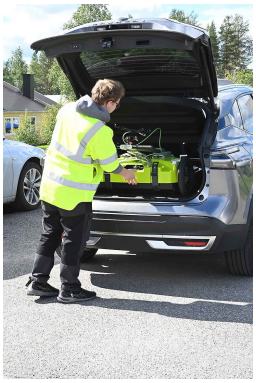
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