

GeoScope

3-Dimensional Ground Penetrating Radar



The GeoScope GPR is designed for high-resolution 3-dimensional subsurface mapping using innovative radar and antenna technology.

The radar uses a digitally generated step-frequency waveform which gives optimum signal quality for various applications. The electronically scanning antenna array allows rapid and accurate 3D data acquisition.



The radar system is a flexible tool for applications like utility mapping, archaeological investigations, road/railway inspection, and landmine/UXO detection.

3d-radar as

Specifications:

Frequency range:	30 MHz - 960 MHz (2 GHz optional)
Waveform:	Step-frequency
Modes of operation:	Array scanning 3-dimensional GPR
Transmitter power:	100 mW
Antenna options:	Up to 64 element bow-tie array, 2.4 meter wide
System Performance:	172 dB @ 10 ms integration time, 10 dB SNR
Digitizer:	2.5 MSa/s, 16 bit
Embedded Computer:	Pentium 4 mobile, 2.4 GHz
Data storage:	60 Gbyte Hard Disk Drive, 1Gbit/s ethernet output
Options:	RTK GPS data input (serial port) IEEE 802.11b/g Wireless LAN
Power supply:	12V DC or 24V DC, < 150 Watts
Size & Weight (radar unit)	534 x 500 x 208 mm, 27 kg