

GCB-1500

Datasheet



GCB-1500 expands the Geoscanners microwave frequency antennas. The purpose of this antenna is to be able to define small structures in concrete at shallow depths without compromising the penetration of it. It is possible to do rebars mapping, central heating pipes mapping, ice thickness in winter roads, as well as asphalt thickness measurements in surveys where the antenna can be in contact with the road.

This antenna has been proven on many occasions to be the best all-in-one tool for concrete inspections and ice roads as well. Stability and clear output result in good data that can easily be interpreted.



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Area of Application

- Concrete inspection
- Ice thickness
- Snow measurement
- Low speed Road and Bridge assessment surveys
- Shallow utility
- Forensics

Mechanical and Environmental Specifications

Dimensions LxWxD (mm/inches)	248x138x97 / 9.76x5.43x3.81
Weight (kg/pounds)	1.05 / 2.31
Fastening points LxW (mm/inches)	124x100 / 4.88x3.93
Ingress Protection	IP65
Operating Temperature (°C / °F)	From -25 up to +40 / From 14 up to 104

Electrical Specifications

Antenna Type	Bow tie antenna
Shield Type	Top and Side Shield
Distance between the TX and RX (mm/inches)	58 / 2.3
Antenna Bandwidth (at 10dB)	101%
Antenna Center frequency (MHz at 10dB BW)	1428
Survey Wheel Output Voltage (Volts)	5.01

Recommended Specifications

Pulse repetition Frequency, PRF (kHz)	≥100
Scan Rate, Traces/Second	100
Range (ns), (depends on soil penetration)	5-20
Low Pass Filter Cut-Off Frequency (MHz)	3000
High Pass Filter Cut-Off Frequency (MHz)	750
Gain	Adjust to 75% Swing

Accessories*

- K-1500 adapter for a SVC-820 cart
- MWH-132 hand cart
- MWH-EXT Extender for MWH-132 hand cart

*Accessories are not included

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