

SPG1700

A TRULY AIRBORNE GPR SYSTEM



The first complete GPR system mounted on a drone

The SPG-1700 is the first complete GPR system mounted on a drone. This ground breaking technology is available thanks to Geoscanners light and compact antennas together with a careful and meticulously planned system architecture.

The new generation SPG-1700 is capable of storing the collected data via a WiFi link, an Ethernet link or directly on an onboard SD card for autonomous flight mode. The quality of the data and easy to use interface are easily identified trademarks of Geoscanners AB.



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The first and only complete Ground Penetrating Radar system with bi-static antennas and onboard storage below 1kg

SPG-1700

The SPG-1700 is an all in one Ground Penetrating Radar unit. This unit comprises the transducer, both transmitting and receiving ones, as well as the control electronics and power supplies needed for the operation of the unit.

The control application runs on Windows operating system and can establish communications with the unit via the Ethernet port of the computer or via WiFi where the SPG-1700 functions as an access point.

The SPG-1700 has also the possibility to record the data to a local micro SD card for autonomous roving operation.

The SPG-1700 counts with one port for connecting an external GPS receiver to be able to attach coordinates data to each and every collected radar trace.

The extremely low power consumption of the unit allows for long time operation without interruption.

Parameter	Value
Center Frequency	608 / 1150MHz
10dB Bandwidth	113%
Trace Range	32ns (Offset of 64ns Available)
Sampling Rate	8GSa/s
Samples/Trace	256
Data Storage	Compressed 16-bit Data
Power Consumption @ 12VDC	2.64W
Dimensions WxLxH	220x220x130mm
Weight	991g



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