



Rugged, High-Performance Single-Channel GPR Data Acquisition System

SIR® 3000

www.geophysical.com

The SIR-3000 is the industry's number one choice for data accuracy and versatility. This small, lightweight control unit is designed for single-user operation. The SIR-3000 provides the essential features and flexibility that experienced GPR users require, as well as simplified, application-specific user interfaces for novice GPR users.

The SIR-3000 incorporates advanced signal processing and display capability for 'in-the-field' 3D imaging. Unlike other data acquisition products on the market, the SIR-3000 is interchangeable with all GSSI antennas, making it an affordable and flexible option for multi-application users.

Typical Uses

- Concrete inspection
- Utility location
- Geological investigation
- Archaeology
- Forensics
- Bridge deck inspection
- Mining
- And many other custom applications

Modular Design

- Compatible with most GSSI antennas
- Lightweight and portable
- Removable, rechargeable batteries

Integrated System

- Windows-based user interface
- GPS integration
- High-resolution color screen that is visible over a wide range of light conditions
- Rugged and weather resistant

Deliver Results

- Removable compact flash card memory
- Large internal data storage



"Our customers are always interested to see the GPR technology that we use on the jobsite. It feels good when they are interested in what we are doing."

Chris Hoag, GPRS Charlotte

SIR® 3000 Specifications

System	
Antennas	Compatible with most GSSI antennas
Number of Channels	1 (one)
Data Storage	Internal memory: 2 GB Flash memory card Compact Flash port: Accepts CF memory up to 8 GB (using FAT 16 file format)
Display	Enhanced 8.4" TFT, 800x600 resolution, 64K colors
Display Modes	Linescan, O-scope, 3D
Data Acquisition	
Data Format	RADAN (.dzt)
Scan Rate Examples	220 scans/sec at 256 samples/scan, 16 bit 120 scans/sec at 512 samples
Scan Interval	User-selectable
Number of Samples per Scan	256, 512, 1024, 2048, 4096, 8192
Operating Modes	Free run, survey wheel, point mode
Time Range	0-8,000 nanoseconds full scale, user-selectable Gain: Manual or automatic, 1-5 gain points (-20 to +80 dB)
Filters	Vertical: Low Pass and High Pass IIR and FIR Horizontal: Stacking, Background Removal
Languages	
	English, French, Italian, German, Spanish, Japanese, Chinese
Operating	
Operating Temperature	-10°C to 40°C ambient
Charger Power Requirements	15 V DC, 4 amps
Battery	10.8 V DC, internal
Transmit Range	Up to 100 KHz
Input/Output	
Available Ports	Antenna input DC power input Serial RS232 (GPS port) Compact Flash memory USB master slave
Mechanical	
Dimensions	12.4 (l) x 8.7 (w) x 4.1 (h) in (31.5 x 22 x 10.5 cm)
Weight	9 lbs (4.1 kg) including battery
Environmental	Water Resistant



See Our Website For
More Information

System Includes

- SIR-3000 control unit
- Transit case
- Two batteries
- Battery charger
- AC adapter (also works as charger)
- User Manual
- Sunshade

sales@geophysical.com

12 Industrial Way • Salem, NH 03079-2837
Tel: 603.893.1109 • Toll Free: 800.524.3011 • Fax: 603.889.3984

Geophysical Survey Systems, Inc.

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