



CODEVINTEC
Tecnologie per le Scienze della Terra

SIR-3000 Rugged, High-Performance Single-Channel GPR Data Acquisition System



The SIR-3000 is the industry's number one choice for data accuracy and versatility

Features

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

Modular Design

- > Compatible with all 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



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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.

Technical specifications

System

Antennas	Compatible with all 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 Transmit Range	10.8 V DC, internal 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

SIR-3000 System Includes

- > SIR-3000 control unit
- > Transit case
- > 2 batteries
- > Battery charger
- > AC adapter (also works as charger)
- > User manual
- > Sunshade

Antennas and accessories sold separately
CE and FCC Compliant

