

# 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. 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 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**

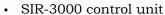
- · Removable compact flash card memory
- · Large internal data storage



## SIR-3000 System Specifications

Antennas	Compatible with all GSSI antennas
Number of Channels	1 (one)
Data Storage	Internal memory: 2 GB Flash memory card
Data Storage	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	· · · · · · · · · · · · · · · · · · ·
Mechanical Dimensions	· · · · · · · · · · · · · · · · · · ·
	USB master slave  12.4 (l) x 8.7 (w) x 4.1 (h) in

#### SIR-3000 System Includes



• Transit case

• 2 batteries

Battery charger

· AC adapter (also works as charger)

User manual

Sunshade



CE and FCC Compliant



