

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."

# **SIR 3000 Specifications**

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 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 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 Bmaster slave  Mechanical  Dimensions 12.4 (I) x 8.7 (w) x 4.1 (h) in		· •
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	Mechanical	Provident
(31.5 X 22 X 10.5 CM)	Dimensions	12.4 (l) x 8.7 (w) x 4.1 (h) in (31.5 x 22 x 10.5 cm)



Weight

Environmental

See Our Website For More Information

#### **System Includes**

9 lbs (4.1 kg) including battery

Water Resistant

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

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