SIR® 4000 ADVANCED PRODUCT SPECIFICATIONS

System

Antenna Support	Compatible with all GSSI antennas
Number of Channels	Records data from 1 single-frequency antenna or 1 dual-frequency antenna
Data Storage	32 GB Flash, 1 GB RAM
Display	Enhanced 10.4" LED display with internal high brightness, Active matrix 1024 x 768 resolution and 32-bit color
GPS	Data logged internally
Display Modes	Linescan, Linescan plus O-scope, Wiggle trace Full 3D, 256 color bins are used to represent the amplitude and polarity of the signal

Data Acquisition

Data Format	RADAN (.dzt)
Output Data Format	32-bit
Scan Interval	User-selectable, up to 400 scans/sec
Number of Samples per Scan	256, 512, 1024, 2048, 4096, 8192, 16384
Operating Modes	Continuous (time) or survey wheel (distance triggered) or point mode
Time Range	0-20,000 nanoseconds full scale, user-selectable Gain: manual adjustment from -42 to +126 dB Number of segments in gain curve is user-selectable from 1 to 8
Standard Real-Time Filters	Infinite Impulse Response (IIR) - Low and High Pass, vertical and horizontal Finite Impulse Response (FIR) - Low and High Pass, vertical and horizontal
Advanced Real-Time Filters	Migration, Surface Position Tracking, Signal Noise Floor Tracking, Adaptive Background Removal
Automatic System Setups	Storage of an unlimited number of system setup files for different survey conditions and/or antenna deployment configurations
Automatic Antenna Recognition	Automatic recognition of Smart Antennas to allow maximum compliant transmit rate

Languages

	English, Spanish, Chinese, Japanese, French, Portuguese, Dutch

Operating

Operating Temperature	-20°C to 40°C external (-4°F to 104°F)
Battery	Inspired Energy Ni2040ED, 3 hour runtime*
Transmit Rate	Up to 800 KHz (International), US/Canada and CE rates depend on antenna model

Input/Output

Available Ports	Antenna inputs analog and digital (one at a time), DC power input, Serial RS232 (GPS port), Accessory connector, HDMI video output, Ethernet to PC, USB 2.0 port, mini USB
Ethernet	RJ45 100BT Ethernet
USB Host	USB host with external keyboard support, USB flash drive support and USB HUB support

Mechanical

Dimensions	14x10x2.75 in (36x25x7 cm)
Weight	10 lbs (4.53 kg) with battery
Relative Humidity	<95% non-condensing
Storage Temperature	-40°C to 60°C (-40°F to 140°F)
Environmental	IP-65 Rated

GSSI