

SI-8946/SYS OBSERVER PORTABLE SPECTRUM SURVEY SYSTEM



MEETING TODAY'S CHALLENGES TO PROVIDE A SECURE FUTURE

OBSERVER is a fully self-contained mobile RF spectrum monitoring and wideband recording subsystem that is designed to support demanding tactical survey missions. Its front end integrates high-speed scanning and spectrum analysis to allow simultaneous display of multiple user-defined windows. This allows quick and easy selection or recording of any view. The versatility of this system allows the user to unobtrusively monitor and record target emitters operating in the 20 MHz - 3000 MHz frequency range (or in the 20 MHz - 12400 MHz with optional frequency extension) during patrols in the conduct of counter surveillance activities and for counterintelligence purposes.



OBSERVER is a combination of proven DRS core technologies that create a high-performance survey solution that is compact, lightweight and low-power. The spectral scanning front end is an application for the DRS Picoceptor™ Software Definable Receiver. The wideband recording subsystem combines the DRS Nanoceptor receiver and the DRS Scout Solid State Recorder. The ruggedized computer contains the control interface to display the spectral analysis information. Compartments for two spare Scout storage packs (not included) are provided under the laptop PC.

- Picoceptor high-speed spectral scanning
- Scout-Nanoceptor™ wideband recording
- Rugged laptop/tablet computer
- Coverage from 20 - 3000 MHz or up to 12400 MHz with optional SI-9249/FE12 Frequency Extender
- Rugged transit case
- Portable
- Fully self-contained
- Easy to use

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SPECIFICATIONS

TRANSIT CASE SYSTEM

Overall Size (W x D x H)	20.6 x 16.9 x 8.1 inches
Weight	
Standard	33 lbs
With Frequency Extender	38 lbs
Power	
Standard	50 watts (typical) 80 watts maximum
With Frequency Extender	57 watts (typical) 87 watts maximum
Operating Temperature	0°C to +45°C

HIGH SPEED SPECTRAL VIEWER

- DRS Picoceptor Software Definable Receiver
- 2 MHz - 3000 MHz Tuning
- Tuning Up to 12400 MHz with Optional Frequency Extender

WIDEBAND RECORDING SUBSYSTEM

- DRS Nanoceptor Wideband Tuner
 - 20 MHz - 3000 MHz Tuning
 - 40 MHz Bandwidth @ 70 MHz IF
- DRS Scout Solid State Recorder
 - 40 MHz Bandwidth @ 70 MHz IF
 - Removable Solid State Storage

FREQUENCY EXTENSION (OPTIONAL)

- DRS SI-9249/FE12 12.4 GHz Frequency Extender

ORDERING INFORMATION

SI-8946/SYS

Observer Portable Spectrum Survey System

RUGGED COMPUTER

- Panasonic Toughbook or Equivalent

SI-8946/SYS OBSERVER PORTABLE SPECTRUM SURVEY SYSTEM

Comprised of one each of the following:

- Picoceptor Receiver, SI-8649A/S3B6X12
- Nanoceptor Receiver, SI-8614-3/BW5
- Scout Solid State Recorder, SCT-A7040-2
- Laptop PC, Panasonic Toughbook or equivalent
- Four port USB Hub
- RF Splitter
- Power Supply
 - AC Input: accepts 90-260 Vac (auto-ranging) @ 47-440 Hz
 - DC Input: 10-36 Vdc, MIL-STD-1275 Filter on DC Input
- System Cable set
- Transit Case, Storm iM2400 or equivalent
- Graphical User Interface (GUI)



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