

PICOCEPTOR™ HIGH-SPEED SCAN SOFTWARE



MEETING TODAY'S CHALLENGES TO PROVIDE A SECURE FUTURE

The High-speed Scan Software Package provides all the necessary software loads to allow a single-channel Picoceptor to function as an extremely fast spectral search engine providing a scanning rate of up to 4 GHz/sec. The software load provides the ability to detect RF energy as narrow as 4.5 kHz in bandwidth. The user may task the Picoceptor to search the entire Picoceptor RF tuning range or multiple independent RF segments.

The High-speed Scan Software offers four modes of operation: spectrum analyzer, channel scan, general search and new energy detector. With these capabilities, the High-speed Scan software can be used in a variety of applications including RF spectrum analyzer, spectrum

management, threat warning, technical surveillance countermeasures (TSCM), and EMI compliance testing, among others.



In addition to the embedded software and firmware, the package also includes a Picoceptor High-speed Search application to allow the user to control and monitor the search operation via a simple and easy-to-use GUI. This application operates on any standard computer running a Windows operating system. The embedded software and firmware are compatible with the SI-8649A/S3B6X12 and the SI-8649A/S3B6X60 models of Picoceptor and can be loaded or unloaded as desired.

- Spectrum analyzer (continuously streaming spectral data of defined RF regions)
- General search (monitoring defined RF regions and reporting only signals over the programmable detection threshold)
- Channel scan (stepping through a list of user's pre-defined frequencies)
- New energy detector (monitoring and learning defined RF regions and reporting only changes in the environment – new or lost signals detected)

PICOCEPTOR™ HIGH-SPEED SCAN SOFTWARE

SPECIFICATIONS

Scan Rate	>4 GHz/sec
Bin Resolution	~4.5 kHz
Number of Bands	100 embedded and 10 at GUI

COMPATIBILITY

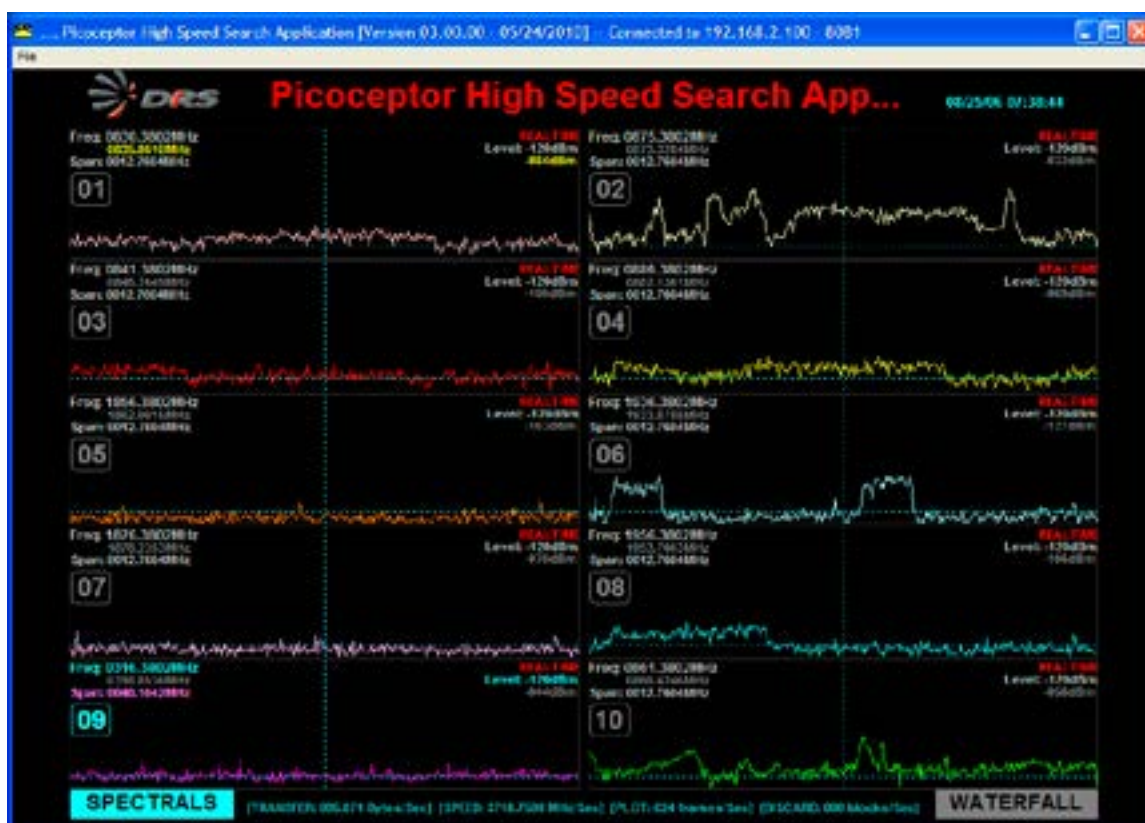
SI-8649A/S3B6X12	Single-channel, 6 MHz bandwidth, low-power
SI-8649A/S3B6X60	Single-channel, 6 MHz bandwidth, high-performance

ORDERING INFORMATION

8649A/SW/HSCAN	Picoceptor High-speed Scanning Software Package
----------------	---

KEY BENEFITS

- Fast detection of signal energy
- Easy deployment with supplied GUI
- Simple to install
- Low-power, low-cost replacement for spectrum analyzer
- Small size and light weight
- RF spectrum server
- Threat warning
- TSCM
- Frequency management



Picoceptor High-speed Search Application Spectral Screen

Cleared by DRS for Public Release under case number 12-DS-085 dated July 30, 2012. Export of DRS SIGNAL SOLUTIONS, INC. products is subject to U.S. export controls. Licenses may be required. This material provides up-to-date general information on product performance and use. It is not contractual in nature, nor does it provide warranty of any kind. Information is subject to change at any time. Copyright © DRS SIGNAL SOLUTIONS, INC. 2010, 2015. All Rights Reserved.