



AI SIGNAL RESEARCH, INC.

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PC-SIGNAL® General Licensing Agreement

Code Capabilities:

PC-SIGNAL is a dynamic signal analysis software package for vibration analysis/diagnostics of rotating machinery. PC-SIGNAL is a commercial software product that compiles a number of algorithms and procedures that were developed for NASA SBIR Phase II and Phase III programs. ASRI developed these advanced signature analysis techniques for rocket engine/machinery fault detection and diagnosis. PC-SIGNAL was created to transfer NASA-developed technology to industry. The software package is designed to be highly user-friendly, and makes dynamic data analysis with either a large volume of data or extensive data analysis requirements a simple task. The analysis capabilities of PC-SIGNAL include a wide range of signal waveform and spectral analysis techniques. These include new processing capabilities for signal detection, signal enhancement, and source identification. Developed for use under the MS Windows environment, PC-SIGNAL provides powerful visualization for studying the signal properties in two-dimensional or three-dimensional displays in the time domain, frequency domain, or joint time-frequency domain. For a large and repeated data processing requirement, PC-SIGNAL can automate the task with an easy-to-use batch mode. PC-SIGNAL provides various output formats for report and presentation (ASCII, Excel file, or electronics copy). All of these capabilities do not require any programming experience; with a few simple clicks and checks, users can start analyzing data on a PC. PC-SIGNAL provides a cost effective solution for many engineering applications. All that is required is your PC computer plus PC-SIGNAL.

Licensing Fee:

The cost of a single seat annual license (one user) for various PC-SIGNAL modules is:

- \$1,650 (USD) for the Basic Module (Required for all modules).
- \$2,750 (USD) for the Advanced Module.
- \$2,200 (USD) for Database Module (Also requires Advanced Module).
- \$2,200 (USD) for the Array Processing (AP) Module.

Special Considerations

A number of special modules (e.g. AP module) were developed as deliverable items under special customized software implementation contracts, paid for by CUSTOMER (Government or commercial). These modules implemented special requirements, using PC-Signal as the base platform by building upon the existing PC-Signal software elements (data structures, signal processing, Graphics, GUI, etc.). ASRI grants the CUSTOMER free licenses for the use of the contract deliverable software version of these special modules. If major upgrades or improvements are made to these special modules after the original contracts are completed, and

if the CUSTOMER elects to use the upgraded versions, there will be a software upgrade/maintenance fee for each user, which is 25% of regular licensing fee of these special modules.

Terms:

- PC-Signal license is leased, NOT SOLD, and to be renewed annually.
- Annual single seat license allows PC-SIGNAL to be installed and executed on one computer. Installations on additional computers require the purchase of additional user licenses.
- An Annual License entitles the user to:
 - 1) Free upgrade to new released version of PC-SIGNAL for the remaining term of the existing license.
 - 2) PC-Signal program bug fixes.
 - 3) Off-site (ASRI's Facility) Standard Technical Support (Q&A) via phone or email.
- Special Technical Support (On-site or off-site) is available at ASRI's standard labor rate plus any applicable travel and per-diem expenses.
- Training (on-site or off-site) is available at ASRI's standard labor rate plus any applicable preparation cost.
- Custom Software implementation on PC-SIGNAL can be acquired through a time-and-materials (T&M) support contract with ASRI.
- Specialized Data Analysis and Diagnostic Evaluation Support (Process & Analyze data, Build & Maintain Database) can be acquired through a T&M support contract with ASRI.

Prices and/or terms may change without notice.

Supported Systems:

PC-SIGNAL is available for operation on Windows-based personal computers (PCs).

Multiple Installations:

The single seat annual license allows PC-SIGNAL to be installed and executed on one computer from one site. Installations to execute PC-SIGNAL on additional computers or from additional sites require the purchase of additional licenses.

Delivery and Installation:

Upon receipt of the signed license agreement and license fee at ASRI, the user will be supplied a secure username and password via e-mail that will permit downloading PC-SIGNAL and its associated documentation from the PC-SIGNAL website. Installation instructions will be supplied as needed as part of the download process.

ASRI Contact Information:

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