ISOC®
Integrated Surveillance and Observation Center

ISOC is the foundation for a selection of "state-of-the-art" spectrum management tools and systems available from Aerosystems International Inc. It is specifically designed to control multiple electronic sensors, simultaneously and remotely, providing an integrated network system for management of the radio spectrum.

Although **ISOC** is capable of controlling any equipment that can be controlled remotely, its most popular application is for spectrum control and management by communication agencies of national governments.

ISOC was developed in collaboration with the Government of Canada to meet their spectrum control and management needs. More features and drivers are added continuously to meet the requirements of today's communication technologies.

ISOC is an integrated hardware/software, client-server application that runs under the latest versions of Windows Operating System.

Major Features

ISOC allows users – from across the room or across the globe – to operate equipment from a computer-generated *virtual rack*. Graphic representations of the equipment provide **full remote control** of the sensors. The following functions are fully implemented and supported:

- Occupancy scanning
- Technical measurements
- Digital audio recording (manual or automated)
- Remote digital audio listening and recording over computer speakers
- Direction finding / triangulation over digital maps
- Frequency monitoring
- Spectrum analysis
- Alarm capability
- Fixed/Mobile sites
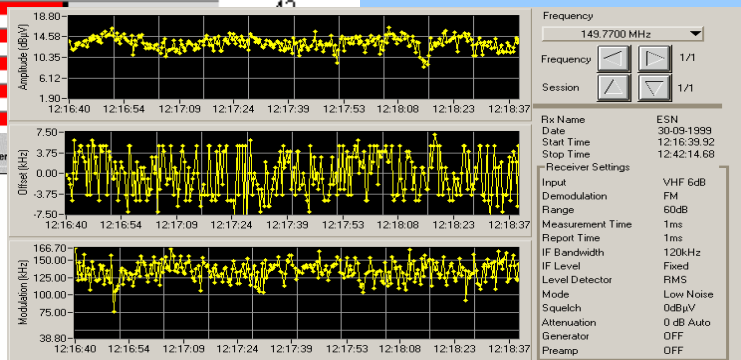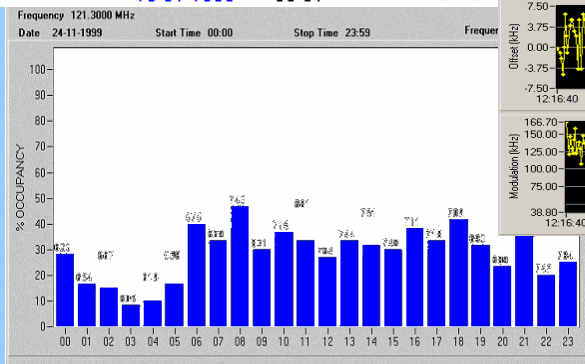- Unattended operations

For more information on ISOC®
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ISOC Applications

ISOC is utilized to collect large amounts of occupancy data over a long period of time. The collection of channel occupancy information is an essential tool in the management of the radio spectrum. The information **ISOC** provides can be used in many ways, including:

➢ Verifying the presence of licensed users
➢ Determining the existence of unlicensed or clandestine activity
➢ Providing information necessary for the planning of new frequency bands
➢ Geolocation of transmitters using direction finders and triangulation over digital maps

ISOC LITE Version

To address an ongoing need for a light, portable, remote monitoring system, Aerosystems revisited the ISOC concept. Redesigned and repackaged, the system better reflects feedback from our clients. The **ISOC-LITE** retains most of the functionality of the full ISOC system, but in a more modular form. An extremely cost efficient method of initiating a spectrum management program at a reasonable start up cost.

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