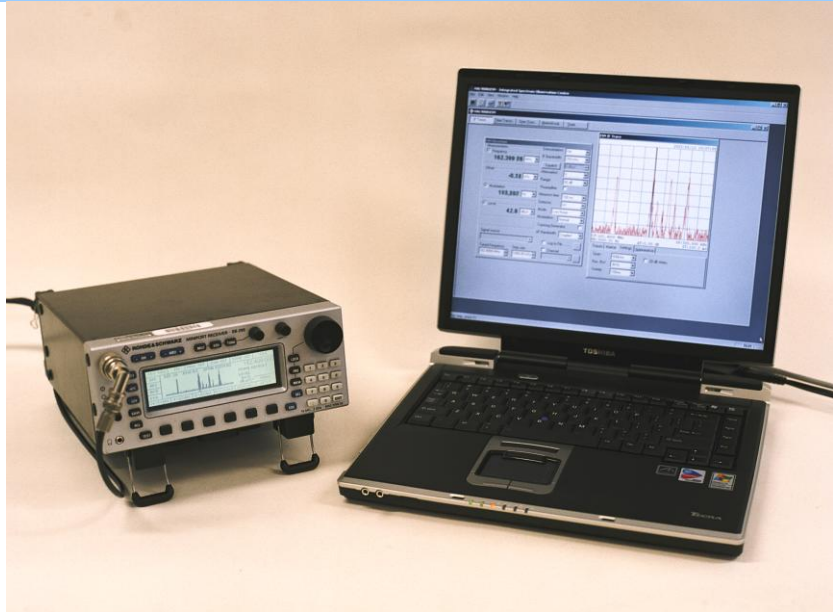


## Integrated Surveillance and Observation Center - Lite

To address an ongoing need for a light, portable, remote monitoring system, ASI has revisited the ISOC concept, and through discussions with the users, redesigned and repackaged the system to better reflect feedback from the field. **ISOC-LITE** retains all 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.

System modularity and overall size were the primary design criteria. The result allows the end user to easily configure the system for the task to be performed, while maintaining easy portability.

The primary package consists of a suitcase style case measuring approximately 21" by 13" by 12" and only 12kgs in weight. Standard features include a laptop computer and a basic EB200 receiver. This package with the supplied processor supports scanning functions from 10Khz to 3000Mhz. In this mode a user supplied ASCII frequency list of up to 500 frequencies is easily downloaded into the system. Alternatively a start and end frequency and step size can be provided, with the system generating the frequency list and programming of the receiver.



### Major Features

**ISOC-Lite** allows either local or remote download/upload of scanning files over a LAN or dial up link. Additionally, **ISOC-Lite** supports digital audio recording capability with time stamp.

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

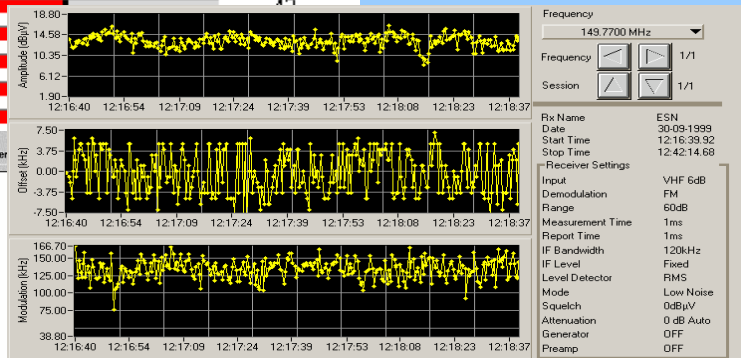
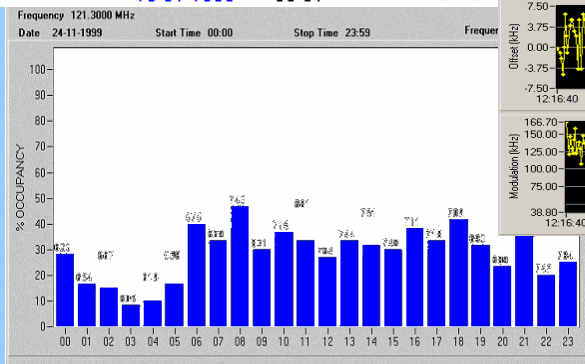


# ISOC Applications

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

Frequency	Date	Peak Hour	Minutes						Peak Value
			0	10	20	30	40	50	
163.5900 MHz	08-01-1999	23-24							28
	09-01-1999	19-20							45
	10-01-1999	19-20							50
	11-01-1999	19-20							53
	12-01-1999	01-02							49
	13-01-1999	02-03							35
	14-01-1999	19-20							49
	15-01-1999	00-01							40
	16-01-1999	06-07							40
	17-01-1999	23-24							40
	18-01-1999	00-01							40
	19-01-1999	00-01							40



For more information on ISOC-Lite®  
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