

**Summitek OASIS for Willtek 9100 Handheld Spectrum Analyzer Series**  
Spectrum monitoring software for a wide range of applications



boosting wireless efficiency

# Spectrum Monitoring and Interference Analysis

OASIS extends the feature set of the Willtek 9100 Series Handheld Spectrum Analyzers by adding monitoring, data logging and remote analysis capabilities.

Based on the comprehensive remote control capabilities of the 9100 Handheld Spectrum Analyzer Series, you can now drive all the spectrum analysis mode functions from your local PC and display results in an innovative way. Change your frequency, span, bandwidth and level settings from the intuitive OASIS menus, define markers and limits and monitor up to four instruments from one PC. To keep an overview, OASIS offers different views in the frequency domain: 2D, 3D and mixed, an example is shown in Figure 1.

The 9100's powerful Ethernet interface eases the IP configuration and speeds up the connection. Setting a gateway IP address in the 9100 enables you to run the remote connection even via routers and other network address translation (NAT) devices (see Figure 2).

Installed on a Windows PC, OASIS allows you to

- record spectrum activity for later playback and evaluation
- record and view multiple frequency bands - even if you have only one spectrum analyzer
- perform unattended data logging for hours, days or weeks for later analysis
- remotely monitor the site and change test scenarios over an Ethernet connection
- apply emission masks and trigger monitoring alarms to identify unexpected transmitter characteristics

**Spectrum monitoring is helpful in many application areas, including**

- planning, maintaining and troubleshooting the frequency resource
- mobile or satellite communication
- patient monitoring
- wireless inventory control
- any other form of wireless transmission or data monitoring

OASIS provides the tools to make sure your network is available when you need it. And, to determine why when it is not.

Monitoring and interference questions you can answer using OASIS

- Is this frequency band available for my wireless service?
- What has changed since my last visit to this site?
- What transmitters in the area can create interference?
- What transmitters were active when my noise floor increased?

## Highlights

- Site monitoring
- Spectrum activity recording
- Interference analysis
- Remote results fetching over the Ethernet

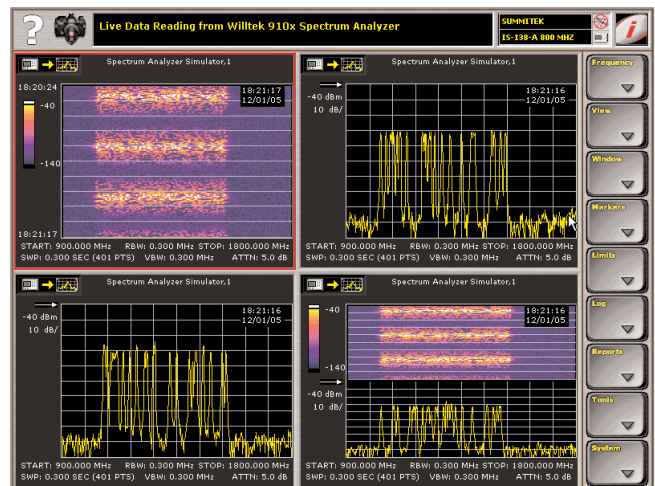


Figure 1: Oasis controls up to four Willtek analyzers

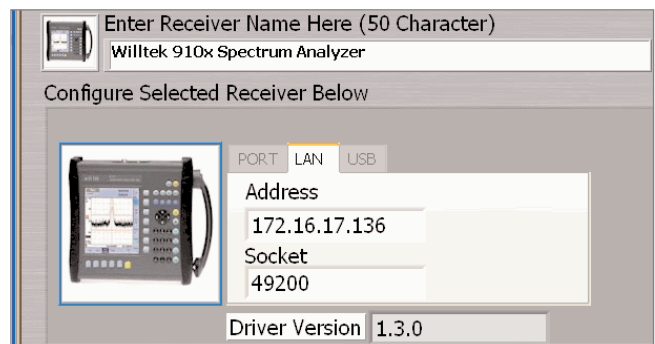


Figure 2: The configuration screen just requires input of the IP address

# OASIS Functions

## Measurement & Analysis

Provides powerful spectrum monitoring capabilities when used with a customer furnished receiver/spectrum analyzer.

Frequency	Start/Stop, Center/Span, Channels, Update Rate, Select Receiver
Display	2D, 3D, 2D/3D, Scale, Reference Level, Average Data, Peak Hold
Window	Displays up to four windows simultaneously. Each window can display data from up to four different receivers and/or log files.
Markers	Displays up to four markers with a delta marker. Identifies emitter by license name or ITU regulation. Snap to Peak, Snap to Local Peak, Snap to Frequency
Limits	Allows to define a simple limit line, create a complex limit from measured data, export and import limit definitions (for example, a channel plan), view limit break history.
Log	Log to File, Replay Log, Pause, Step through File, Jump to Time. Supports jump to the point in the log file where the limit break occurred. Note that all display, marker and limit functions can be used with log files.
Reports	3D power vs. time (multiple frequency), Power vs. time (single frequency), Channel occupancy vs. time (multiple channel), Channel occupancy vs. time (single channel), Number of channels occupied vs. time, Average power vs. time (single channel), Distribution plot of signal levels (single channel), Distribution plot of signal levels (single frequency)

## Analysis

Same as Measurement & Analysis, but it does not include any instrument control. Analysis is used to replay and evaluate logged data.

## Ordering information

### Standard delivery for OASIS

OASIS II program and driver CD

License agreement

User's manual

Installation guide

### Ordering details

OASIS Spectrum Monitoring Software M 897 828

9100 Ethernet cable, cross connect,

two RJ-45 connectors, 2m

M 880 629

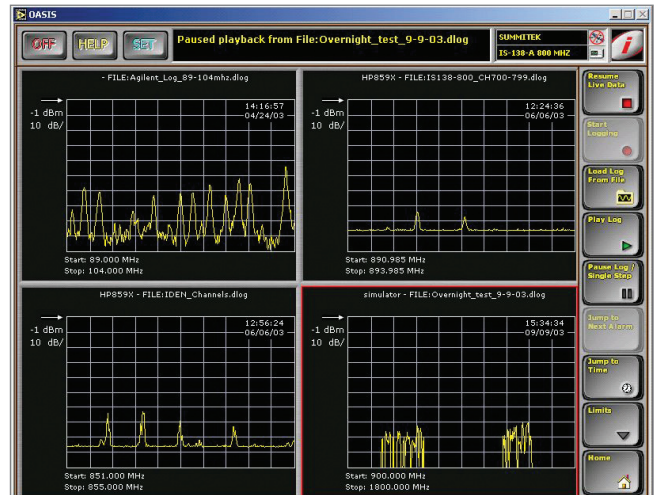


Figure 3: OASIS provides all the functions necessary to log, save, recall and replay measurements



Summitek OASIS is a product of Summitek Instruments, a Smiths Group Company

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