

# SEEKER LITE

Test Equipment  
Depot  
1-800-517-8431

99 Washington Street  
Melrose, MA 02176  
Fax 781-665-0780  
TestEquipmentDepot.com



## Leakage Detector



Numerical  
Measurement Display

Sensitive, Stable  
Measurements

Directional Antenna  
that Helps Locate  
Leaks

Multi-Channel  
Operation

Long Battery Life

The Seeker Lite™ is a tough, convenient and flexible leakage test tool. It assists in subscriber installs by verifying that leakage in the house is not great enough to contribute to the cable system's Cumulative Leakage Index (CLI). Leaks can also be important sources of ingress that can hinder communication on the return band. The Seeker Lite can also be used to find leaks during troubleshooting.

Seeker Lite works by measuring ambient RF leakage in and around a subscriber's premises and can be used to identify and locate all RF leaks greater than 10  $\mu\text{V}/\text{m}$ .

### Easy Frequency Configuration

Seeker Setup™, a configuration software application with the Seeker Lite, simplifies the process and makes configuring multiple units quicker and easier. Instead of going to the factory to make hardware modifications, you can use Seeker Setup to adjust frequencies.

### Multiple Frequency Presets

The Seeker Lite can be set up to operate on up to 10 different frequency presets, which makes it easier to monitor and maintain multiple cable systems. These presets define the leakage monitoring frequency and, if desired, the tag detection frequency as well. You have the option of setting up only one frequency preset for simple operation, or multiple leakage frequencies for maintaining multiple cable systems. Frequency settings range from 120 MHz to 147.2500

147.2500 MHz and have to be entered in .00625 MHz (6.25 kHz) increments.

### Superior Antenna

An improved antenna design provides more directionality than typically available from other leakage meters.

### Channel Tag Compatibility

Compatibility with both the Trilithic CT-2™ and CT-3™ channel tag devices is another feature of the Seeker Lite. Channel Tag refers to the process of adding frequency tags to a broadcast channel signal. The Seeker Lite can be set up to detect a tagged leak and to ignore leaks that are not tagged. This feature helps you avoid chasing false alarms from signals originating outside your system.

### GT Noise Discrimination

For systems employing digital set top terminals that cannot tolerate "tagged" leakage carriers, the Seeker Lite has enhanced "false alarm" resistance. The Seeker Lite analyzes the detected RF energy and automatically rejects all noise and signals that are not caused by leaks from your system.

### Squelch Operation

Squelch level is the RF signal threshold that the Seeker Lite uses to determine the validity of the signal. The signal "breaks squelch" when the RF leakage is greater than the squelch level, as long as any enabled tag or GT noise qualifiers are met as well.



The receiver will not alarm for signals below the squelch level. The squelch level has a factory default of 20  $\mu\text{V}/\text{m}$ ; however, it can be reconfigured using the included Seeker Setup software.

### Source Localization

The Seeker Lite emits an audible tone to help you pinpoint the leakage source. Finding a leak is like playing the childhood game “hot and cold.” You point your Seeker Lite in various directions and listen to the pitch of the tone being emitted. Keep heading in the direction where the pitch is the highest. The closer you move toward the leak, the higher-pitched the tone will be.

## SEEKER LITE MODES

### Measurement Mode

The Seeker Lite turns on automatically as soon as you flip open its lid. Within a few moments it begins to measure and then display ambient RF leakage. This is called Measurement Mode. Measurement Mode is used to accurately determine the strength of a leak, pinpoint its location and provide a leakage value for documentation. Measured RF leakage values can range from 10 to 2000  $\mu\text{V}/\text{m}$  and are displayed in large, easy-to-read numbers. A bar graph at the bottom of the display illuminates proportionally to the signal strength of the leak.

Additionally, an audible tone will sound if the measured signal breaks squelch. The signal breaks squelch when the RF leakage is greater than the squelch level, as long as any enabled tag or GT Noise Discrimination qualifiers are also met. This tone can be used to help locate the leak source.

### Cruise Mode

As long as the Seeker Lite’s power is still on, closing its lid activates Cruise Mode. The LED on the top of the Seeker Lite will slowly blink to show the meter is operating in Cruise Mode. In contrast to the continuous monitoring done during Measurement Mode, Cruise Mode monitoring is done in cycles. The Seeker Lite “sleeps” for a short period of time, wakes up and then takes a measurement. An alarm will beep if the measured signal breaks squelch. If the technician wants to investigate the alarm, opening the Seeker Lite’s lid immediately returns the meter to Measurement Mode. Less battery life is used during Cruise Mode than Measurement Mode.

<b>Frequency Range:</b>	120 to 147.25 MHz settable using PC configuration software.
<b>Frequency Setting Range:</b>	Up to ten operating frequencies, selectable by tabbing. Selections loaded into detector using Seeker Setup PC configuration software.
<b>Level Range:</b>	10 to 2000 $\mu\text{V}/\text{M}$ . Can freeze current numeric reading.
<b>Numerical Display:</b>	Readout of any detected leakage within sensitivity range.
<b>Audible Tone:</b>	Tone is present if leakage amplitude exceeds squelch setting. Pitch is proportional to strength of leak.

### INCLUDES THE FOLLOWING:

**120 – 147.25 MHz Leakage Detector w/ Built-in antenna**

**Universal Charger**

**Users Manual**

### OPTIONAL ACCESSORIES:

**Seeker Lite Setup Software**  
P/N 0930109000

**Seeker Lite Bag w/ Holster (CC-22)**  
P/N 2131142000

**Seeker Lite Vehicle Power Adaptor (CL-7)**  
P/N 0610169001