

# Seeker Lite<sup>2</sup>

## Leakage Detector

- Numerical Measurement Display
- Sensitive, Stable Measurements
- Directional Antenna that Helps Locate Leaks
- Multi-Channel Operation
- Long Battery Life



The Seeker Lite<sup>2</sup>™ is a tough, convenient, and flexible leakage test tool. It assists in subscriber installations by verifying that the leakage within the house is not great enough to contribute to the cable system's cumulative leakage index (CLI). Leaks can also be important indicators of ingress that can hinder communication on the return band. The Seeker Lite<sup>2</sup> can also be used to find leaks during troubleshooting.

The Seeker Lite<sup>2</sup> 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

Trilithic's Seeker Setup™ software simplifies the process and makes configuring multiple units quicker and easier. Instead of returning your Seeker Lites to the factory to make hardware modifications, you can use Seeker Setup to adjust frequencies.

### Multiple Frequency Presets

The Seeker Lite<sup>2</sup> can be set up to operate on as many as 10 different frequency presets, making 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 118.5 to 147.25 MHz and can be entered in .00625 MHz (6.25 kHz increments).

### Superior Antenna

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

### Channel Tag Compatibility

Compatibility with Trilithic's CT-2™ and CT-3™ channel tag devices is another feature of the Seeker Lite. Channel tagging refers to the process of adding frequency tags to a broadcast channel signal. The Seeker Lite<sup>2</sup> 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 of your system.

### GT Noise Discrimination

For systems employing digital set-top terminals that cannot tolerate "tagged" leakage carriers, the Seeker Lite<sup>2</sup> has enhanced "false alarm" resistance. The

Seeker Lite<sup>2</sup> 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<sup>2</sup> uses to determine the validity of a detected 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 Seeker Setup software.

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## Leakage Detector

### Source Localization

The Seeker Lite<sup>2</sup> emits an audible tone to help you pinpoint the leakage source. Point the Seeker Lite<sup>2</sup> in various directions and listen to the pitch of the tone being emitted. Move in the direction from where the pitch is the highest. The closer you move toward the leak, the higher-pitched the tone will become.

### SEEKER LITE MODES

#### 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 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

The LED on the top of the Seeker Lite<sup>2</sup> 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<sup>2</sup> "sleeps" for a short period of time, wakes up, then takes a measurement. An alarm will sound if the measured signal breaks squelch. If the technician wants to investigate the alarm, he switches the meter to measurement mode. Less battery power is used during cruise mode than measurement mode.

### INCLUDES THE FOLLOWING:

118.5 to 147.25 MHz leakage detector  
**P/N 2011002001**

Battery charger  
**P/N 0610169003**

CC-22 carrying case with holster  
**P/N 2131142000**

User's manual on CD

### OPTIONAL ACCESSORIES:

Seeker Setup software  
**P/N 0930109002**

CL-8 vehicle power adaptor  
**P/N 0610169005**

I/O-17 data cable  
**P/N 2071585003**

### RELATED PRODUCTS:

CT-2 Channel Tagger  
**P/N 2010670001**

CT-3 Channel Tagger  
**P/N 2010762000**

### SPECIFICATIONS

<b>Frequency Range</b>	118.5 to 147.25 MHz Settable using the Seeker Setup software, in 6.25 KHz steps <b>Default frequency settings:</b> 121.2625 MHz 127.2625 MHz 133.2625 MHz 139.2500 MHz 146.2625 MHz
<b>Frequency Setting Range</b>	Up to 10 operating frequencies, selectable by tabbing Selections loaded into detector using Seeker Setup 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 the sensitivity range
<b>Audible Tone</b>	Tone is present if leakage amplitude exceeds squelch setting Pitch is proportional to strength of leak