

Micro Tech - Group Inc.

Micro Tech Instruments

The Micro Tech Mfg. Inc. Super Snoop III has been designed specifically to locate noise sources that cause radio and television interference. These noise sources include gap and sparking noise sources. Studies done on RF/TV interference point out that most interference sources on power distribution systems are caused by gap and sparking noise sources. This noise is most commonly caused by hardware problems such as slack bell insulators, loose tie wires, cracked insulators, slack guy wires, loose hardware and damaged hardware.

The Micro Tech Mfg. Inc. Super Snoop III is compact, reliable, rugged and easy to use. The unit has two signal strength meters and operates on an internal Ni-Cad battery pack. It has been designed with a unique detector circuit which provides the unit with wide frequency response, optimal sensitivity, and 80 Db of usable dynamic range. This 80 Db of usable dynamic range gives the unit long range detection capability and short range pinpointing accuracy. The Super Snoop III is equipped with an eight element high gain antenna.

### Receiver Specifications:

**Frequencies:** 250, 318, 380 Mhz  
**Sensitivity:** 1.0 microvolt  
**3 DB Bandwidth:** 700 Khz  
**Max. RF Input:** +13 DBM

### Antenna Specifications:

**Type:** Eight Element Yagi  
**Front to Back Ratio:** 20 DB Max.  
**Gain:** 8 DB Max.

## **SPECIAL FEATURES OF THE SUPER SNOOP III**

### **Threshold and RF Gain Control:**

The two knobs allow the operator to create a “noise window” that can be adjusted to fit the extreme range of noise sources that are encountered in the field. The Threshold knob is used to increase the size of the “noise window.”

The RF Gain knob is used to fine tune the noise source within the “noise window.” With stronger sources at close range, you can narrow the noise window and pinpoint the noise source to a specific pole or structure. This allows you to squelch out unwanted noise signals. super strong noise sources do not overload the unit because you can narrow the noise window, fine tune the noise source, and still pinpoint the source. The tremendous amount of dynamic range keeps the unit from becoming overloaded in the presence of strong signals yet still allows long range noise detection.

With weaker sources at long range, you can open the noise window as far as possible and allow the receiver to hear a faint noise source at a long distance. As you move closer, you can narrow the “noise window” again for pinpointing the source.

### **Frequency Selector Knob:**

The frequency selector knob selects one of three frequencies that can be used to find the noise source. At 250 Mhz noise sources can be heard at further distances. At 380 Mhz, noise sources can be pinpointed effectively and easily to the exact problem pole or problem structure.

**Front End Filter:**

The front end filter is designed to keep radio signals and other out of band continuous wave signals from desensitizing the receiver.

**External Speaker:**

A powerful audio system provides excellent noise identification and allows all types of noise to be heard in volume.

**Peak Detecting Slide Back Threshold Circuit:**

This circuit is part of the Threshold and RF Gain control circuit and allows the operator to electrically narrow the beamwidth of the antenna. This is done by raising the threshold level to just below the amplitude of the signal. By doing this only the peak or the strongest level of the signal will be heard. Used in conjunction with the antenna, this will allow the operator to narrow the detection angle of the antenna to the point where a strong source can easily be detected and confined to a small area of a pole.

The Super Snoop III is shipped with the receiver, antenna, battery charger, headphones, manual, and carrying case.

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