

## Delta V differential RF detector

In areas of high RF activity, such as big cities, interference can make it difficult to pinpoint local active RF transmitters. When time is short and high-level emergency or external meetings are required it is essential to be able to quickly and easily locate active radio eavesdropping devices.

Delta V is a handheld differential RF field-strength wide band detector. Rather than measuring the absolute field strength, Delta V measures the rate of change in field strength. Ideal for use in areas with high RF activity, this technique provides a high degree of rejection of strong distant signal sources, providing greater discrimination against outside signals. The result is accurate location of active radio listening devices, wherever the meeting.

A Push Button is provided to reduce the sensitivity of Delta V whilst working close to a local transmitter. This prevents a maximum response occurring too far from a transmitter to locate the source accurately.

Portable, quick and simple to use, Delta V is the ideal tool for quick location of active listening devices.



### User Benefits

- Measures the rate of change in field-strength, allowing active transmitters to be easily identified in areas with high RF activity
- Push-button sensitivity reduction to allow more accurate pinpointing of active transmitters
- Easy to operate for non-technical users
- Silent Operation option so that detection can be as discreet as the user chooses
- Highly versatile, ideal for locating radio bugs, basic RFI/EMC testing and localising illegal high-power broadcast transmitters



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# Handheld Radio Eavesdropping Device Detectors

## Delta V differential RF detector



### Technical Specification

#### RF

Frequency	10MHz to well beyond 4000MHz (+/-5dB)
Sensitivity	Average -53dBm
Dynamic range	Greater than 50dB, typically -52dBm to +5dBm @ 1GHz
CMRR	20dB at 1GHz
Input	Maximum CW 200mW

#### Power

Battery	Alkaline 9v PP3 gives approx. 24 hours continuous operation
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#### Output

Audio	Geiger type 'click' from internal speaker or headphone
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#### Mechanical

Size	122 x 62 x 22 mm (H x W x D)
Weight	245g

### Flat Response

Delta V provides an almost completely flat frequency response over a wide frequency range from 10MHz to 6.5GHz.

This is achieved by using matched Schottky detector diodes in conjunction with a low noise wide dynamic range differential DC amplifier, which is further enhanced with automatic drift and offset cancelling.

### Differential Detection

Since the differential field from an RF transmitter falls at a greater rate than the absolute field strength, Delta V can be used to locate weak local transmissions even in the presence of stronger RF transmissions. This is achieved by measuring the differential between the matched pair of antennae.

### Warranty

Delta V comes with a return to base warranty against defective materials and workmanship for a period of 2 years from delivery. With regular authorised maintenance and recalibration of the unit the basic warranty can be extended for a further period.

### Technical Support Group

The Audiotel Technical Support Group (TSG) can be contacted during UK office hours on:

T: +44 (0) 1536 266677

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or via the Contact Us page on the Audiotel website.

Core UK office hours are (GMT):

Mon.-Thur.: 09:00am to 5:00pm

Fri.: 08:30am to 4:00pm

### Training

Audiotel is able to offer full training in the operation of our products together with general counter measures training and seminars.

Due to our policy of continuous improvement, all specifications are subject to change without notice.

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