

ELECTRONIC COUNTER MEASURES

PNG-2

Portable Noise Generator and Test Tone Generator

PNG-2 is a small, compact and power very effective white noise generator optimized to neutralize function of audio listening devices and concealed audio recorders.

Other very useful function is a generator of special variable test tone which is optimized for activation of voice controlled listening devices.

The PNG-2 is powered by a built-in battery or accumulator. Microprocessor controlled power amplifier ensures the highest possible power consumption efficiency in the whole output power range.

For the standard output power the built-in battery can ensure up to 20 hours of continues operation time. If required external loudspeakers or piezoelements can be connected. External power supply can be connected for permanent application and/or for charging of the built-in accumulator.

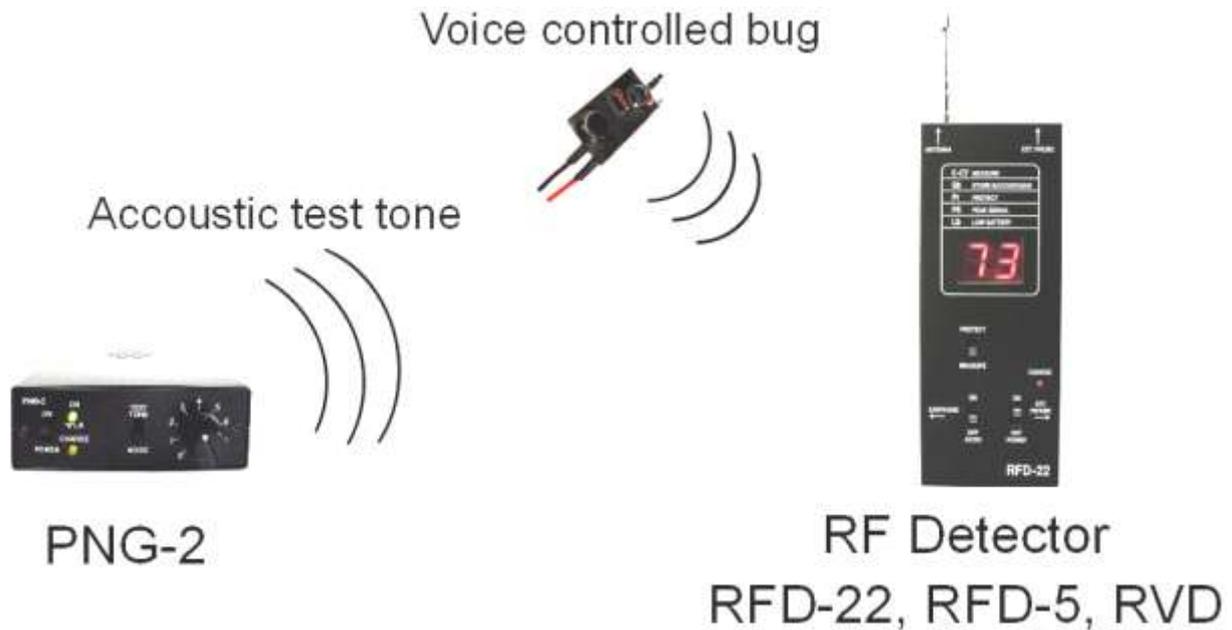
The noise generating circuit is based on the certified noise circuit using a thermal principle of a random noise generation. This design ensures the highest possible resistance against digital filtering methods of reconstruction of the recorded sound.



Example of noise protection during a meeting. PNG-2 should be placed between negotiating persons, if possible closer to the visitor

The test tone is a periodic set of audio frequencies optimized to activate voice controlled listening devices.

The PNG-2 in the TEST TONE mode is recommended accessory for RF detectors to ensure the most effective RF bug countermeasures. The TEST TONE activates voice controlled listening devices which are then easily detectable by wide band detectors RFD-22, RFD-5 or RVD. The detection and bug localization is based on the signal level measurement and on listening to an unmistakable test tone in the RF detector earphone.



Principle of activation and detection of a voice controlled device

Technical specification

- Noise generation principle: thermal
- Output power: 4 to 500mW / 25ohm load
- Power regulation: fluent 21dB
- Power efficiency: maximum P=500mW 95%, standard P=100mW 88%
- Internal loudspeaker, external output 3,5mm jack
- Output noise voltage: max. 10V p-p
- Activation test tone: 6x harmonic frequency, 1. harmonic 300 – 2700Hz
- Power: 9V 6F22 battery or NiMH accumulator
- External power: 10 to 20V DC, 2,1/5,5mm jack
- Current consumption: 5 to 36mA according to output power
- Low battery indication: below 7V
- Battery life (100% charged): medium power 20 hours
- Battery charge time: 14 hours, over charge limiter
- Size: 123 x 88 x 29mm
- Weight: 256g