

## **Information On Ultrasonic**

We are sorry you are experiencing the problems you described to us. We have found that in all most all cases, it is consumer products using ultrasound that is causing your problem.

Ultrasonics are the newest item to hit the consumer market. Ultrasound is described as sound that is more than 20,000 Hz. Most people cannot hear this sound, but there are exceptions with people who have extremely sensitive hearing. Some of the newer products for the home using ultrasound are burglar alarms, motion detection light switches, automated vehicle sensors, fish finders, ultrasonic cleaners, automatic door openers, parametric loudspeakers, and electronic pest control devices as well as the dog control device that keeps your dog on your property. Our dogs and cats have a much broader range of hearing and can hear most of these ultrasounds.

Now if the ultrasound is emitted at certain sound pressure levels it can cause hearing damage as well as headaches, tinnitus, fatigue, dizziness as well as nausea. Some have reported cognitive thinking loss from exposure to ultrasonics as well.

Unfortunately, since it is a consumer product and most people cannot hear it, there is no move to stop producing these items.

In order to find out just what is bothering you, we suggest you disconnect any of the above items you might have in your home and see if the sound stops. If not, you may have to disconnect the service at the main electrical box to see if that stops the noise. If any of these items have a back up battery system you would also have to disconnect that.

Because the above can be a complex step to do, you might want to purchase our HT90P which is a ultrasonic receiver with a directional microphone which can help you pinpoint the direction of the bothersome sound. Once you can prove these sounds you can go to your local authorities, such as the building superintendent, the zoning board, the local police, etc and seek their assistance in removing these sounds.

You need to be aware that ultrasonics will not clearly penetrate walls or windows, when inside they will bounce off the walls making it hard to pinpoint the direction of the sound. Depending on the obstruction the sound will only transmit from 200 feet down to about 20 feet. If the ultrasound goes through windows or walls the sound will be reduced.

The other end of the spectrum is infrasound. This is the lower end and is sound between 1 to 20Hz . It is below what the normal human can hear.

Infrasound can be found in your ac units, heating units, fans, compressors combustion and rotating machinery as well as sub-woofers.

Infrasound can also cause, headaches, tinnitus, fatigue, dizziness and have an effect on your cognitive thinking.

Because you have super sensitive hearing you may want to contact an audiologist to see if they can suggest anything that may reduce or eliminate the sounds you are experiencing.