# Adaptive klippel nonlinear control of loudspeaker systems

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Understanding Klippel Audio and Non-Linear Noise**

**What is Klippel?**

Klippel is a German company that specializes in the design and manufacturing of audio testing and measurement equipment. Klippel's products are used by loudspeaker manufacturers, audio engineers, and researchers to assess the performance of audio devices.

**What is Non-Linear Noise?**

Non-linear noise is a type of noise that is produced by non-linear distortion in an audio system. Non-linear distortion occurs when the output signal of an audio system is not a faithful reproduction of the input signal, resulting in the addition of unwanted frequencies to the output.

**What is Klippel Audio?**

Klippel audio refers to the use of Klippel's testing and measurement equipment to evaluate the performance of audio devices. Klippel's products allow engineers to measure various parameters of an audio device, including frequency response, distortion, and non-linear noise.

**NFS Measurement Klippel**

NFS measurement is a technique developed by Klippel to measure non-linear noise in audio systems. NFS measurement quantifies the amount of non-linear noise

present in the output signal of an audio device.

**Non-Linear Sound Examples**

Examples of non-linear sounds include:

- Clipping distortion
- Crossover distortion
- Intermodulation distortion

**Linear vs. Non-Linear Audio**

Linear audio is produced when the output signal of an audio system is a faithful reproduction of the input signal. Non-linear audio is produced when the output signal is distorted, resulting in the addition of unwanted frequencies.

**K-Weighted Audio**

K-weighted audio is a type of audio measurement that uses a standardized filter to compensate for the non-linear frequency response of the human ear. K-weighted measurements are commonly used to assess the loudness of audio signals.
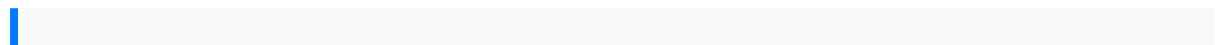
**KTV Audio**

KTV audio refers to the sound systems used in karaoke bars. KTV audio systems typically consist of a microphone, a mixer, an amplifier, and loudspeakers.

**KB in Audio**

KB in audio refers to kilobytes per second (Kbps), which is a unit of measure for data transfer rates. Kbps is used to specify the bitrate of audio files and streams.

**Xonar Audio**

Xonar audio is a brand of sound cards manufactured by ASUS. Xonar sound cards are designed for gamers and music enthusiasts, and offer features such as high-quality audio playback, low latency, and support for surround sound.

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