

TrueVoice™ Noise Cancellation



Digital and Analog



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MOBILES and portables



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TrueVoice™

How does it work?

- 1 Characterize noise frequencies for commonly found noise sources.
- 2 Filter out noise source frequencies.
- 3 Transmit remaining human voice.

Vehicle Noise



Construction



Road Noise



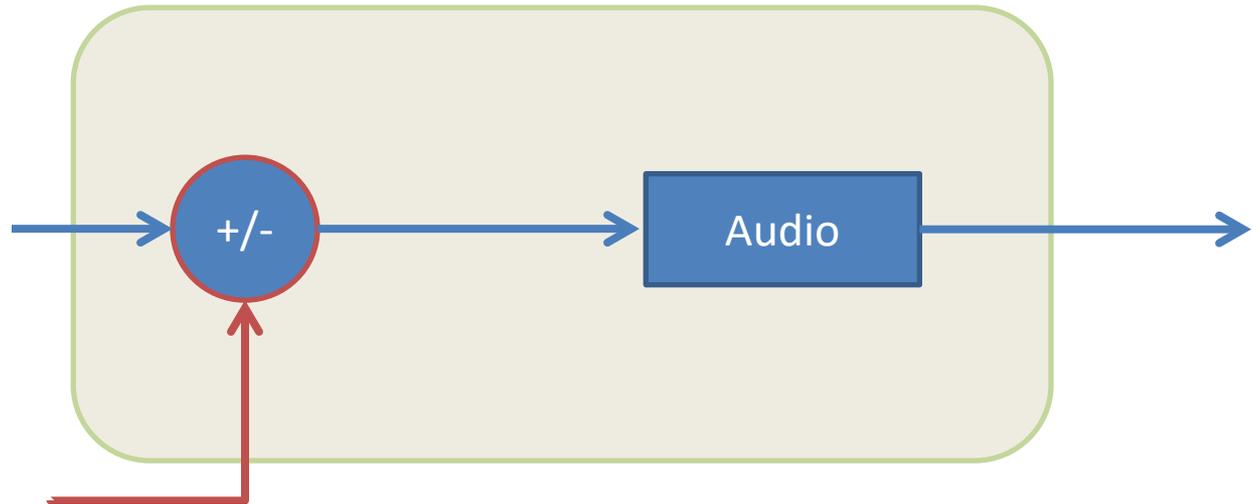
Equipment Noise



Only Human Voice is Received

Noise Cancellation

Dual or multiple Mic (Hardware)



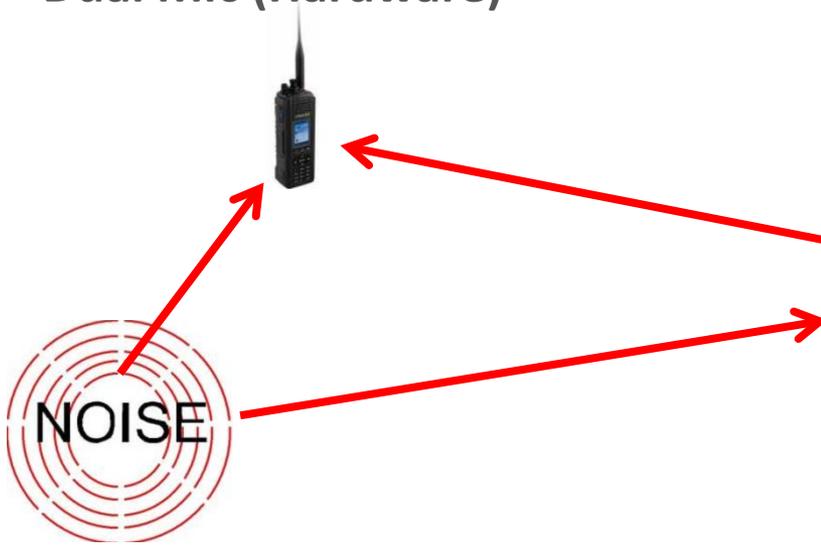
Multiple Mic – Theory is simple . . .

Sample the audio “environment”

Subtract “environment” from voice

Noise Cancellation

Dual Mic (Hardware)



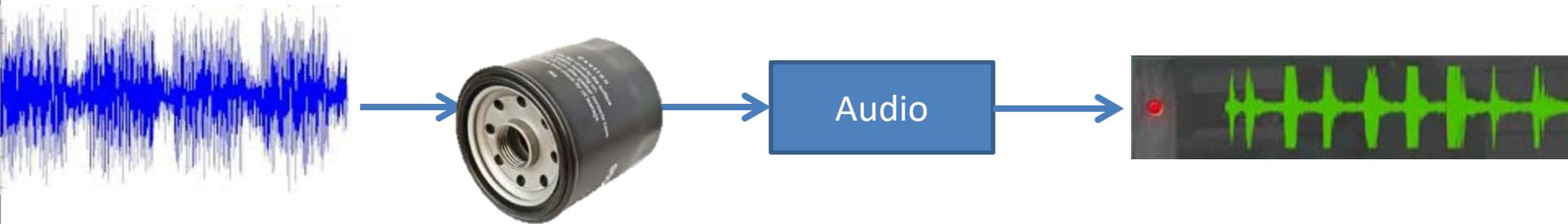
Dual Mic – Limitations . . .

- Multi-path noise is problematic
- Extremely high noise is problematic
- Noise direction is problematic (mic adjustment needed)
- 2nd mic can be blocked (holster, pouch, etc)
- Different noise environments are a challenge

TrueVoice™ Noise Cancellation



Frequency Based (Software)



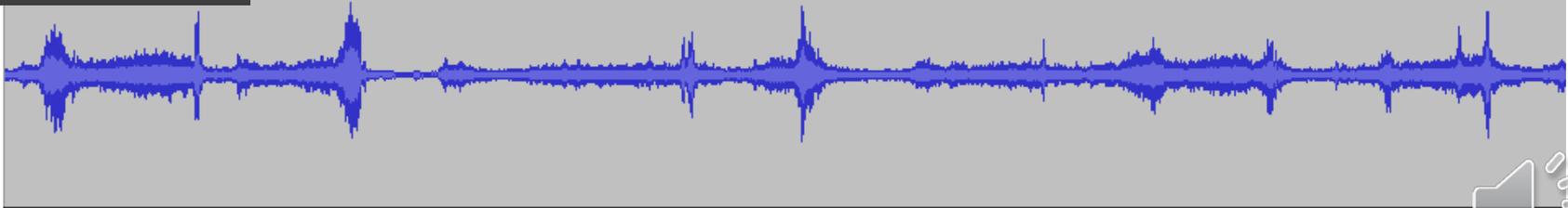
Strip out noise frequencies. . .

- Handles multi-path noise – no problem
- **No custom settings** for different environments
- No special speaker microphones
- Works in both Analog and Digital

Same test environment

NOTICE DIFFERENCE IN VOLUME LEVELS

Dual Mic



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