

# HearAlert Audio Datasets - Complete Overview

## ESC-50 Dataset

Format: WAV | Sample Rate: 44100 Hz  
Bit Depth: 16-bit | Channels: Mono  
Duration: 5 seconds | Files: 2,000  
Categories: 50 | Source: GitHub karolpiczak/ESC-50

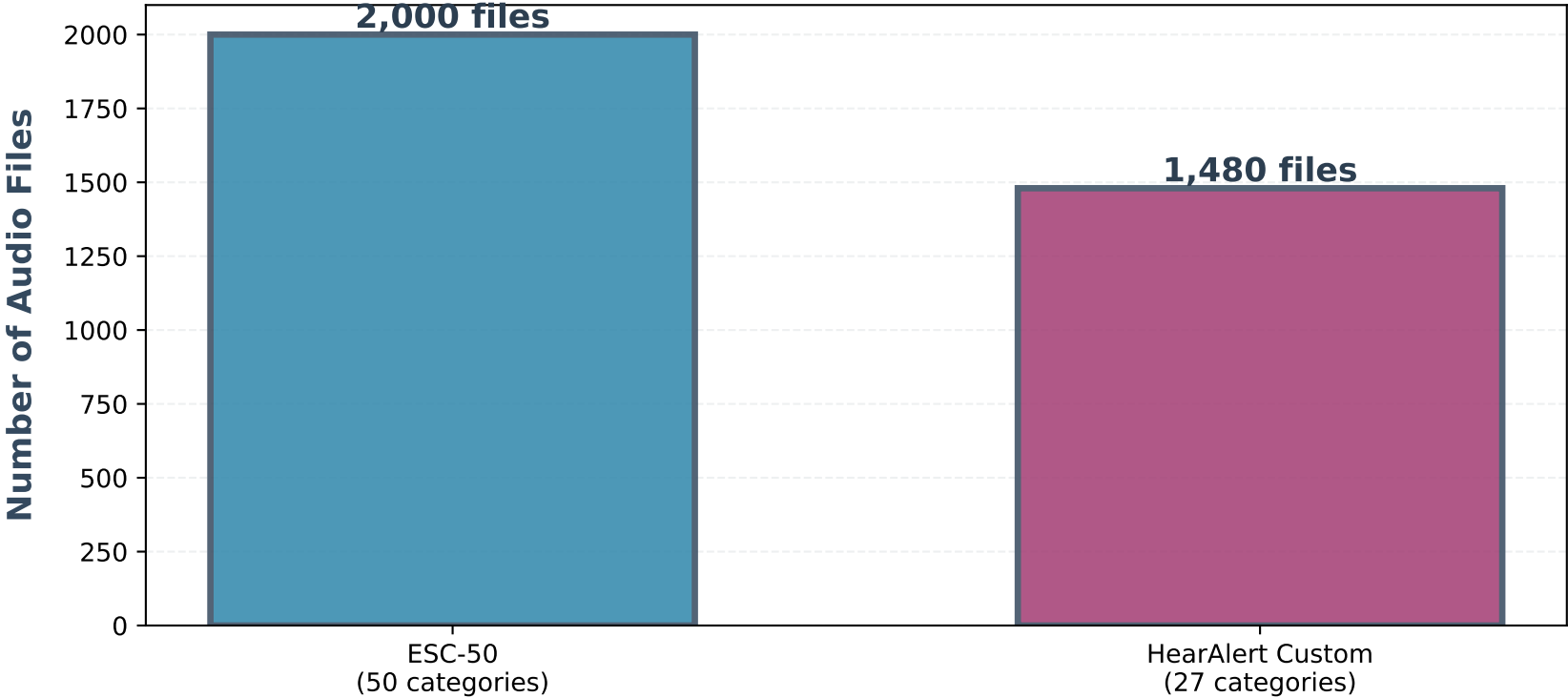
## HearAlert Custom Datasets

Format: WAV | Sample Rate: 16000 Hz  
Bit Depth: 16-bit | Channels: Mono  
Duration: 5 seconds | Files: 1,480  
Categories: 27 | Source: Custom Generated + Downloaded

### Audio Format Specifications

Dataset	Format	Sample Rate	Bit Depth	Channels
ESC-50	WAV (PCM)	44.1 kHz	16-bit	Mono
HearAlert Custom	WAV (PCM)	16 kHz	16-bit	Mono

### Dataset File Counts



### HearAlert Custom Dataset Categories (by Priority Level)

#### CRITICAL (P10)

- Baby Crying: 80 files
- Fire Alarm: 80 files
- Smoke Alarm: 80 files
- Car Horn: 40 files
- Emergency Siren: 40 files
- Gunshot/Fireworks: 40 files

#### HIGH (P8-9)

- Human Voice/Speech: 120 files
- Traffic/Vehicle: 80 files
- Door Knock: 80 files
- Power Tools: 80 files
- Train: 40 files
- Glass Breaking: 40 files
- Doorbell: 40 files
- Door Opening: 40 files

#### MEDIUM (P6-7)

- Heavy Breathing: 80 files
- Phone Ring: 40 files
- Dog Barking: 40 files
- Thunderstorm: 40 files
- Coughing: 40 files
- Helicopter: 40 files
- Footsteps: 40 files
- Washing Machine: 40 files

#### LOW (P4-5)

- Keyboard/Mouse: 80 files
- Cat Meowing: 40 files
- Vacuum Cleaner: 40 files
- Airplane: 40 files
- Clock Ticking: 40 files

Total: 3,480 audio files across 77 categories | All audio in WAV format | Generated: 2026-02-11