

## OVERVIEW

# Nexidia AudioFinder

Bringing the power of phonetic search to the desktop



### NEXIDIA AUDIOFINDER

The need to analyze data gathered from low-quality telephony audio sources, in multiple languages, is mission critical for many organizations. Nexidia's technology is specifically designed to search the actual content with a high degree of accuracy, providing the ability to immediately playback the most crucial aspects of the audio files.

Nexidia AudioFinder is a flexible, stand-alone application that enables users to index and search audio-video content. It has been architected especially for remote locations without network access. AudioFinder brings the full

power of Nexidia's technology into a simple application that users can install and use on a single machine. No other software can help with the daunting problem of processing large volumes of audio in challenging conditions.

AudioFinder works in over 30 languages across a broad range of acoustic qualities, including almost any collection of low quality audio, voicemails and video files, providing a fast and efficient means of collecting information and analysis. It also provides flexibility in including and excluding topics based on relevance. And with sophisticated review tools, the user is able to start audio playback at

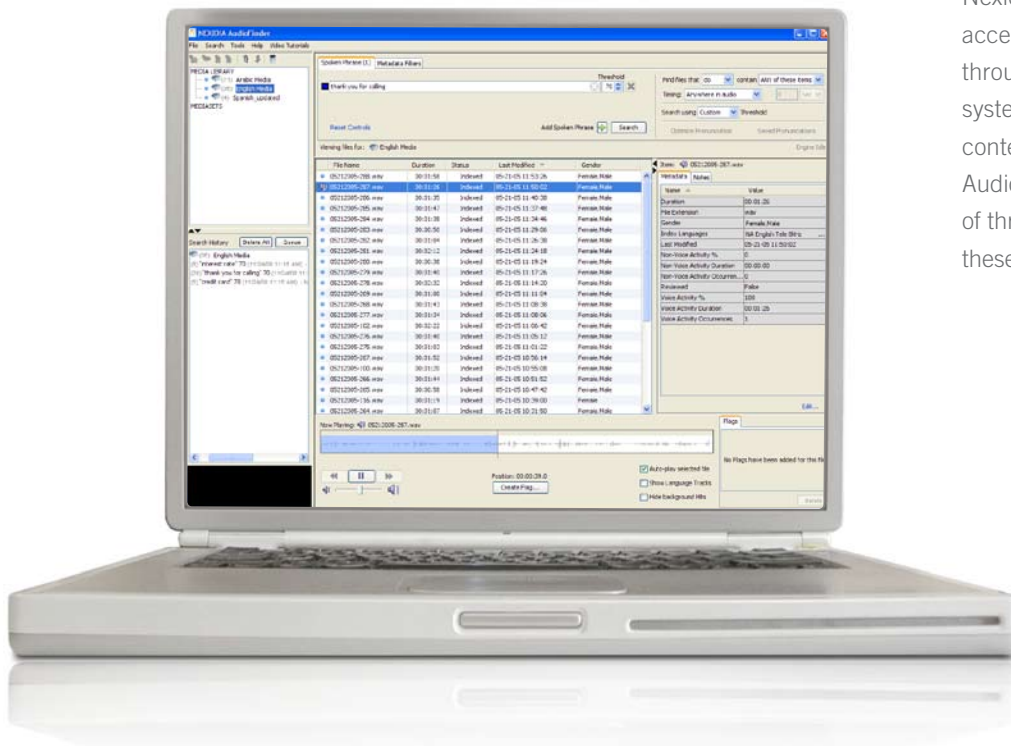
the exact point the hit occurred or prior to that point to fully understand the context of the discussion.

### HOW IT WORKS

Nexidia's award-winning, patented Phonetic Search Engine (PSE) technology enables audio-video search using phonemes—the smallest unit of human speech. As media files are added into AudioFinder, they are phonetically indexed—broken down into phonemes—which can be searched for the most accurate, relevant results. This phonetic approach supports almost all generally available audio qualities and audio variances such as a speaker's language, accent, dialect, gender and age.

Nexidia's phonetic solution can vastly accelerate the audio mining process through "automated listening," which systematically ingests and identifies content within voice recordings. AudioFinder delivers timely identification of threats and trends contained within these recordings.

Nexidia's phonetic indexing technology searches on the spoken word content contained within the media



AudioFinder is quickly and easily installed on a standard desktop machine or laptop; users can immediately begin to create and import new media for search and analysis. Minimum system requirements include a computer running Windows XP with a 1.8Ghz processor and 2Gbytes of RAM.

## FEATURES

**Phonetic Search:** At the core of Nexidia's strength is the ability to execute search criteria against the phonetic indexes that Nexidia creates. This method allows users to enter simple words or phrases and find them wherever they exist in the recordings. The Search function includes the ability to specify multiple search terms in a single query, to nest searches at different levels, and to apply BOOLEAN logic (e.g. AND, OR, NOT) and even time-based proximity logic to a query.

**Smart MediaSets:** Users can establish standing queries, which are designed to run against any combination of recordings in the application. These Smart MediaSets execute their search criteria and collect all the results in a single place, allowing for rapid retrieval and review. Any newly added audio will be automatically analyzed and those that match the specified search criteria will be added to the existing Smart MediaSets.

**Pronunciation Optimizer:** Pronunciation Optimizer allows the user to do test searches and identify those results which are most relevant. This feature is

essential for words that may be obscure or hard to pronounce. Based on the results of the test search, the system generates a new search term in Nexidia's unique phonetic notation that most closely represents the best hits. This query can then be used to re-run the current search, or saved and later used in any other search function, dramatically improving the overall results. Additionally, AudioFinder can search by example when users identify a specific segment of audio that contains the desired term.

**Language ID:** AudioFinder automates the process of identifying languages, and even dialects, spoken in media files. Files can be grouped by primary language spoken, and therefore can be routed to the appropriate specialists for further processing and searching.

### Exporting/Importing of Media:

AudioFinder supports collaboration and information sharing via easy export and import of selected media files (optionally including metadata) as well as optimized phonetic pronunciations from the Pronunciation Optimizer.

**Portability:** AudioFinder is designed to integrate with other applications and not place a large strain on the CPU. If another application requires system resources, AudioFinder will automatically drop into the background, utilizing only whatever resources are "left over." As other applications unload system resources, it will utilize them as needed to most efficiently perform its tasks.

**Collaboration:** AudioFinder helps users annotate and share the results of their investigation. Files can be easily organized into multiple sets, and flexible export options allow sending both the audio files and their meta data in different formats. AudioFinder has the ability to select, save and export specific segments of an audio file, to facilitate review and playback outside the application.

### FLEXIBLE, OPEN ARCHITECTURE

**Multiple File Types:** Users can import media into the application in a wide variety of audio and video formats, including: .aif, .avi, .mp2, .mp3, mp4, mpeg, .mov, .wav, .wmv, and many more.

**Language Support:** AudioFinder supports the full range of languages that are available across the Nexidia product suite. These language packs are produced by collecting many audio samples from native speakers of the language with different backgrounds, from various regions, collected in-country. Because the language packs are phoneme-based and do not require a dictionary, new language capabilities can be developed relatively quickly.

Nexidia currently supports over 30 different languages, with many more planned for development.

**Metadata Support:** The system allows importing of metadata from various sources which can be used to view, categorize and sort recordings. In addition, users can create new categories for their media and easily assign values for any recording.

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