

# Mixing Live Sound An Application Guide For The Audio Technician

History of sound recording to Sound recording. First Sounds (audio files of the earliest recorded sound, dating back to the 1850s) Song recording guide Recording History – The History The history of sound recording - which has progressed in waves, driven by the invention and commercial introduction of new technologies – can be roughly divided into four main periods: 8cae5a09fe

The Digital era (1975–present) 8cae5a09fe

Multitrack recording Multitracking became possible in the mid-1950s when the idea of simultaneously recording different audio channels to separate discrete tracks on the same reel-to-reel tape was developed. A track was simply a different channel recorded to its own discrete area on the tape whereby their relative sequence of recorded events would be preserved, and playback would be simultaneous or synchronized. multitracking, is a method of sound recording developed in 1955 that allows for the separate recording of multiple sound sources or of sound sources recorded at Multitrack recording (MTR), also known as multitracking, is a method of sound recording developed in 1955 that allows for the separate recording of multiple sound sources or of sound sources recorded at different times to create a cohesive whole 8cae5a09fe

Vehicle audio Until the 1950s, it consisted of a simple AM radio. Vehicle audio is equipment installed in a car or other vehicle to provide in-car entertainment and information for the occupants. Once controlled from the dashboard with a few buttons, they can be controlled by steering wheel controls and voice commands. Such systems are popularly known as car stereos. Such systems are popularly Vehicle audio is equipment installed in a car or other vehicle to provide in-car entertainment and information for the occupants. Additions since then have included FM radio (1952), 8-track tape players, Cassette decks, record players, CD players, DVD players, Blu-ray players, navigation systems, Bluetooth telephone integration and audio streaming, and smartphone controllers like CarPlay and Android Auto 8cae5a09fe

Delay effects range from a subtle echo effect to a pronounced blending of previous sounds with new sounds. Delay effects can be created using tape loops, an approach developed in the 1940s and 1950s and used by artists including Elvis Presley and Buddy Holly. 8cae5a09fe A multitrack recorder allows one or more sound sources to different tracks to be simultaneously recorded, which may subsequently be processed and mixed separately... 8cae5a09fe The Acoustic era (1877–1925) 8cae5a09fe Sound engineering is increasingly viewed as a creative profession and art form, where musical instruments and technology are used to produce sound for film, radio, television, music and video games. Audio engineers also set up, sound check, and do live sound mixing using a mixing console and a sound reinforcement system for music concerts... 8cae5a09fe A sound reinforcement system for a rock concert in a stadium may be very complex, including hundreds of microphones, complex live sound mixing and signal processing systems,

tens of thousands of watts of amplifier power, and multiple loudspeaker arrays, all overseen by a team of audio engineers... The use of magnetic tape for sound recording originated around 1930 in Germany as paper tape with oxide lacquered to it. Prior to the development of magnetic tape, magnetic wire recorders had successfully demonstrated the concept of magnetic recording, but they never offered audio... The Electrical era (1925–1945) Experiments in capturing sound on a recording medium for preservation and reproduction began in earnest during the Industrial Revolution of the 1800s. Many pioneering attempts to record and reproduce sound were made during the latter half of the 19th century – notably Édouard-Léon Scott de Martinville's phonautograph of 1857 – and these efforts culminated in the invention of the phonograph by Thomas Edison in 1877. Digital recording emerged in the late 20th century and has since flourished...

**Public address system** A PA system may include multiple microphones or other sound sources, a mixing console to combine and modify multiple sources, and multiple amplifiers and loudspeakers for louder volume or wider distribution. be sufficiently audible at a distance or over a large area. Typical applications include sports stadiums, public transportation vehicles and facilities, and live or recorded music venues and events. It increases the apparent volume (loudness) of a human voice, musical instrument, or other acoustic sound source or recorded sound or music. microphones or other sound sources, a mixing console to combine and modify multiple sources, and multiple amplifiers and loudspeakers for louder volume or A public address system (or PA system) is an electronic system comprising microphones, amplifiers, loudspeakers, and related equipment. PA systems are used in any public venue that requires that an announcer, performer, etc

**Delay (audio effect)** The delayed signal may Delay is an audio signal processing technique that records an input signal to a storage medium and then plays it back after a period of time. playback is mixed with the live audio, it creates an echo-like effect, whereby the original audio is heard followed by the delayed audio. When the delayed playback is mixed with the live audio, it creates an echo-like effect, whereby the original audio is heard followed by the delayed audio. The delayed signal may be played back multiple times, or fed back into the recording, to create the sound of a repeating, decaying echo

**Sound reinforcement system** On the other hand, a sound reinforcement system can be as simple as a small A sound reinforcement system is the combination of microphones, signal processors, amplifiers, and loudspeakers in enclosures all controlled by a mixing console that makes live or pre-recorded sounds louder and may also distribute those sounds to a larger or more distant audience. In many situations, a sound reinforcement system is also used to enhance or alter the sound of the sources on the stage, typically by using electronic effects, such as reverb, as opposed to simply amplifying the sources unaltered. loudspeaker arrays, all overseen by a team of audio engineers and technicians

Equalizers are used in recording and radio studios, production control rooms, and live... Simple PA systems are often...

**Audio equalizer** simply EQ, in sound recording and reproduction is the process of adjusting the volume of different frequency bands within an audio signal. The circuit or equipment used to achieve this is called

an equalizer. The circuit or Equalization, or simply EQ, in sound recording and reproduction is the process of adjusting the volume of different frequency bands within an audio signal 8cae5a09fe

Analog effects units were introduced in the 1970s; digital effects pedals in 1984; and audio plug-in software... 8cae5a09fe In motion picture and television production, a sound effect is a sound recorded and presented to make a specific storytelling or creative point without the use of dialogue or music. Traditionally, in the twentieth century, they were created with Foley. The term often refers to a process applied to a recording, without necessarily referring to the recording itself. In professional motion picture and television production, dialogue, music, and sound effects recordings are treated as separate elements. Dialogue and music recordings are never referred to as sound effects... 8cae5a09fe

Sound effect A sound effect (or audio effect) is an artificially created or enhanced sound, or sound process used to emphasize artistic or other content of films, A sound effect (or audio effect) is an artificially created or enhanced sound, or sound process used to emphasize artistic or other content of films, television shows, live performance, animation, video games, music, or other media 8cae5a09fe

Initially implemented for listening to music and radio, vehicle audio is now part of car telematics, telecommunications, in-vehicle security, handsfree calling, navigation... 8cae5a09fe

Tape recorder An audio tape recorder, also known as a tape deck, tape player or tape machine or simply a tape recorder, is a sound recording and reproduction device An audio tape recorder, also known as a tape deck, tape player or tape machine or simply a tape recorder, is a sound recording and reproduction device that records and plays back sounds usually using magnetic tape for storage. Tape-recording devices include the reel-to-reel tape deck and the cassette deck, which uses a cassette for storage. In its present-day form, it records a fluctuating signal by moving the tape across a tape head that polarizes the magnetic domains in the tape in proportion to the audio signal 8cae5a09fe

Audio engineer Audio engineers work on the "technical aspect of recording—the placing of microphones, pre-amp knobs, the setting of levels. produce sound for film, radio, television, music and video games. Audio engineers also set up, sound check, and do live sound mixing using a mixing console An audio engineer (also known as a sound engineer or recording engineer) helps to produce a recording or a live performance, balancing and adjusting sound sources using equalization, dynamics processing and audio effects, mixing, reproduction, and reinforcement of sound. The physical recording of any project is done by an engineer..." 8cae5a09fe

Most hi-fi equipment uses relatively simple filters to make bass and treble adjustments. Graphic and parametric equalizers have much more flexibility in tailoring the frequency content of an audio signal. Broadcast and recording studios use sophisticated equalizers capable of much more detailed adjustments, such as eliminating unwanted sounds or making certain instruments or voices more prominent. Because of this ability, they can be aptly described as "frequency-specific volume knobs." 8cae5a09fe The Magnetic era (1945–1975) 8cae5a09fe

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