

EVOLUTION OF SOUND
REPRODUCTION AND
RECORDING DEVICES

HISTORY OF SOUND RECORDING

1º STAGE

MECHANICAL
SOUND
REPRODUCTION



FROM THE MIDDLE
AGES

S. XIX

2ª STAGE

MECHANICAL
SOUND
RECORDING
AND PLAYBACK



ENDS S. XIX

3ª STAGE

MAGNETIC
SOUND
RECORDING AND
PLAYBACK



UNTIL THE
DECADE OF
70 S. XX

4ª STAGE

DIGITAL SOUND
RECORDING AND
PLAYBACK



FROM THE 70's
UNTIL NOW

1^a STAGE: MECHANICAL SOUND REPRODUCTION

Mechanical sound reproduction has existed since the middle ages, mechanical instruments are made that reproduced sound with a system of pulleys, weights, etc.

Pianola



Music box



Carillon



Barrel organ



MECHANICAL SOUND RECORDING AND PLAYBACK

Video Summary

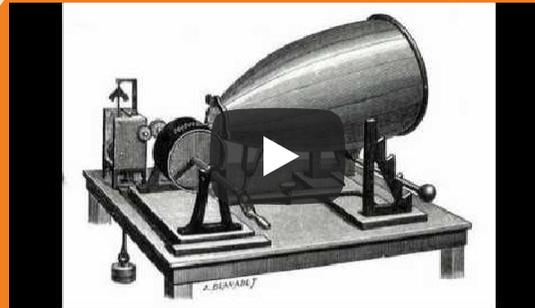
The Complete History of Sound Recording



2^a Stage: MECHANICAL SOUND RECORDING AND PLAYBACK

Mechanical sound recording begins in the mid-19th century with the phonautograph. In these devices the recording of the sound waves is produced by its own impulse, the sound remaining in a material (tin foil...). material (paper of tin...) that later can be reproduced by reversing the process.

PHONOAUTOGRAPH



1857 Edouard-Leon Scott

PHONOGRAPH



1878 Tomas Alva Edison

GRAMOPHONE



1887 Emile Berliner

3^a STAGE: MAGNETIC SOUND RECORDING AND PLAYBACK

The electric recording of the sound arises from the year 1920 and incorporates new elements: the microphone, the amplifier and the speaker. The new reproduction and recording devices were the turntable and the magnetophone.

TURNTABLE



1925

Magnetophone



1935

Cassette 1963



Walkman



1979

4^a Stage: DIGITAL SOUND RECORDING AND PLAYBACK

In digital recording, a digital converter encodes numerically the analogue sound signal and transforms it into binary codes which are then interpreted by the digital media

Compact Disc



1979

MP3



Mp4



1998

iPod



2001

4^a Stage: DIGITAL SOUND RECORDING AND PLAYBACK NOWADAYS

smartphones

Now thanks to smartphones we have all the devices on our mobile phones. with the revolution of technology we now find platforms like spotify, soundcloud, youtube, etc. where we find music of all times and genres.

smartphones



