

















ЛРЕС	G Audio	
Layer	Application	Quality
1	Digital Audio Cassette	Hi-fi quality at 192Kb/s per channel
2	Digital Audio and Digital Video Broadcasting	Near CD-quality at 128Kb/s per channel
3	CD-quality audio over low bitrate channels	CD-quality at 64Kb/s per channel



MPEG Audio Layers
 Layer 1: DCT type filter with one frame and equal frequency spread per band.
 Psychoacoustic model only uses frequency masking. Layer 2:
 Uses three frames in filter (1152 samples). More compact encoding of scale factors and samples.
Layer 3: Retter critical band filter is used (non-equal frequencies)
 Psychoacoustic model includes temporal masking effects.
 Takes into account stereo redundancy Huffman encoding of quantized samples.





























Ogg Vorbis

- Patent free, similar quality to AAC.
- Like AAC, MDCT used to transform to frequency domain.
- Psychoacoustic model used to determine the noise floor (envelope of masking effects) across frequency bands.
 Includes simultaneous noise masking.
- Noise floor subtracted from MDCT components.
- Noise floor and MDCT residue coded separately using a codebook-based vector quantization algorithm.

