

TABLE 1—REPRESENTATIVE LOSSY-COMPRESSION ALGORITHMS, SELECTED CODEC SOFTWARE,

Codec	URL	Algorithm	Selected software
AAC	www.aac-audio.com; www.csel.it/mpeg; www.iis.fhg.de/amm/techinf/aac; www.mpeg.org	Encoder	Fraunhofer command line encoder (v3.0)
		Decoder	Fraunhofer command line decoder (v3.0)
ATELP	www.softsound.com/ATELP.html	Encoder Decoder	Softsound ATELP audio-compression manager Softsound ATELP audio-compression manager
ATRAC	www.minidisc.org	Encoder Decoder	Kenwood MD-203 via PC sound-card digital output (v4.5) Kenwood MD-203 via PC sound-card digital input (v4.5)
ATRAC3	www.minidisc.org	Encoder Decoder	RealNetworks RealJukebox Plus v2 (beta) RealNetworks RealJukebox Plus v2 (beta)
Dolby Digital (AC-3)	www.dolby.com/digital	Encoder Decoder	Sonic Foundry Soft Encode 5.1 (v1.0 build 19) Sonic Foundry Soft Encode 5.1 (v1.0 build 19)
DTS	www.dtsonline.com	Encoder Decoder	Minnetonka Software SurCode CD Professional for DTS (v1.0.9) Minnetonka Software SurCode CD Professional for DTS (v1.0.9)
ePAC	www.lucent.com/ldr; www.vedalabs.com	Encoder Decoder	VedaLabs AudioVeda (v1a build 417) VedaLabs AudioVeda (v1a build 417)
Indeo	www.ligos.com	Encoder Decoder	Ligos Technology Indeo Media Kit Ligos Technology Indeo Media Kit
MP3	www.csel.it/mpeg; www.iis.fhg.de/amm/techinf/basics.html; www.mpeg.org	Encoder	Sonic Foundry Sound Forge 4.5h (Fraunhofer built 224)
		Decoder	Sonic Foundry Sound Forge 4.5h (Fraunhofer built 224)
MPEG(plus)	www.stud.uni-hannover.de/user/73884/audiocoder.html	Encoder Decoder	MPEG(plus) encoder (v1.7.8) MPEG(plus) decoder (v1.7.6)
Ogg Vorbis	www.vorbis.com	Encoder Decoder	Ogg Vorbis Encoder (dated 8/15/00) Ogg Vorbis plugin for Winamp (v0.1)
Qdesign	www.qdesign.com	Encoder Decoder	Qdesign MVP (v1.2) Qdesign MVP (v1.2)
RealAudio	www.real.com	Encoder Decoder	Sonic Foundry Sound Forge 4.5h (RealAudio G2) RealNetworks RealJukebox Plus v2
TAC	http://kk-research.hypermart.net	Encoder Decoder	K&K Research Music Publisher 02 (beta v22) K&K Research Plugin for Winamp (v2026a)
TwinVQ	http://sound.splab.ecl.ntt.co.jp/twinvq-e; www.vqf.com; www.yamaha-xg.com/soundvq	Encoder Decoder	Yamaha TwinVQ encoder (v2.60 beta2) Yamaha TwinVQ decoder (v2.52 beta1)
Windows Media Audio	www.microsoft.com/windows/ windowsmedia	Encoder	Sonic Foundry Sound Forge 4.5h (WMA v7)
		Decoder	Microsoft command line decoder (WMA v7)

Note: Some software decoders (that is, players) also require TotalRecorder or a DAT deck connected to the PC sound-card digital output to create WAV files.

AND AVAILABLE ALTERNATIVES

Other available options

Astrid Encoder, Dolby Labs AAC professional software v1.1, FAAC (Freeware Advanced Audio Coder), Homeboy Encoder, Liquid Audio Liquifier, Psytel beta2 (Dec 29, 2000)
a2b Music Player, Astrid Decoder, Dolby Labs AAC professional software v1.1, FAAC (Freeware Advanced Audio Coder), Homeboy plugin for Winamp, Liquid Audio Player, Lorentz Istvan's plugin for Winamp, Psytel beta2 (Nov 29, 2000)

None
None

Sharp MD-MT15 via PC sound-card digital output

None

None
None

Liquid Audio Liquifier, Minnetonka Software SurCode for Dolby Digital
Liquid Audio Liquifier, Minnetonka Software SurCode for Dolby Digital

None
None

Celestial Technology AudioLib
Celestial Technology AudioLib

None
None

Blade, Gogo, MusicMatch Jukebox (Fraunhofer), LAME, Qdesign, Radium, RealNetworks RealJukebox (Xing), Syntrillium Cool Edit Pro (Fraunhofer)

Liquid Audio Player, Microsoft Windows Media Player (Fraunhofer), MPG123, MusicMatch Jukebox (Fraunhofer), Qdesign, QuickTime, RealNetworks RealJukebox and RealPlayer (Xing), Syntrillium Cool Edit Pro (Fraunhofer), Winamp 2.22 plugin (Fraunhofer), Winamp 2.71 plugin (Nitrane)

None
MPEG plus plugin for Winamp (v1.7.8)

None
None

Qdesign Music Codec 2 Professional Edition (in conjunction with QuickTime)
Qdesign Music Codec 2 Professional Edition (in conjunction with QuickTime)

RealNetworks RealJukebox and RealSlideshow, Syntrillium Cool Edit Pro
RealNetworks RealPlayer and RealSlideshow, Streambox RA2WAV/Ripper/VCR

None
None

NTT TwinVQ encoder
NTT TwinVQ decoder, plugin for Winamp

Microsoft command line encoder, Microsoft Windows Media Encoder, MusicMatch Jukebox, Nullsoft Winamp
Microsoft Windows Media Player, MusicMatch Jukebox, Nullsoft Winamp