

DVD Audio Extractor

User Manual

DVD Audio Extractor: User Manual

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Chapter 1. Introduction to DVD Audio Extractor



DVD Audio Extractor is a powerful software DVD audio extracting / ripping tool. It can help you to extract audio streams from your favorite Blu-ray, DVD-Audio and DVD-Video discs and save them as OGG, MP3, Wave or FLAC files. DVD Audio Extractor can also demux audio streams directly to mlp, pcm, mpa, ac3 or dts files. Its CD Image creating feature allows you to convert DVD to Audio CD or DTS-CD in one step.

DVD Audio Extractor features on its easy-to-use interface, ultra-fast extracting speed, rich audio formats support, multi-channel capability, resample to arbitrary sample rate, audio preview and much more. It's all what you needed to get audios out of Blu-ray or DVD discs, so that you can listen on MP3 Player, play on PC, record to CD or do anything else.

Features

| | |
|-----------------------------|---|
| Easy-to-use user interface | DVD Audio Extractor is designed in sense of easy use. The program comes with a step by step wizard-like interface and all the functions can be used by simple mouse clicks. |
| Ultra-fast extracting speed | With its fully optimized processing engine, DVD Audio Extractor can convert selected audio tracks within 10% of the playback time. |

Note

Processing time differs for different audio format settings.

| | |
|---------------------------------|--|
| Support all DVD audio formats | DVD Audio Extractor can decode all the audio formats available on all DVD-Audio and DVD-Video discs: MLP (Meridian Lossless Packing), LPCM (Linear pulse code modulation), DTS (Digital Theater Systems), Dolby Digital (AC-3), and MPEG2. |
| Support multiple output formats | DVD Audio Extractor is able to encode to several formats: OGG (Mono, Stereo or 5.1 Surround), MP3 (Mono, Stereo or Joint Stereo), Uncompressed PCM Wave (unlimited channel, 8 bits, 16 bits or 24 bits, with an option to save each channel to separate file), and FLAC. You can also demux audio stream from the DVD stream and save them as separate files. It can also encode to CD Image and Cuesheet format which allows you to convert DVD to Audio CD in one step. |
| Tags and metadata support | You can enter disc metadata like artist, album, year and genre. Those information, along with the chapter names you entered, will be saved into result files as tag info. |

| | |
|-----------------------------------|--|
| | <p>Disc metadata can also be uploaded to / downloaded from our server database. All the uploaded metadata is shared between all the users, so that people don't need to enter metadata for the same disc again.</p> |
| Audio and video preview | <p>The audio and video play/preview feature allows you to listen to the selected chapters before you do extract, so that you can be sure those chapters are really what you wanted. You can also use DVD Audio Extractor as a standalone Audio and Video Player for DVD discs.</p> |
| Resample to arbitrary sample rate | <p>The resample library in DVD Audio Extractor allows you to save audios to any sample rate with high quality.</p> |
| Batch processing | <p>Select all tracks you want to rip and DVD Audio Extractor will automatically rip and encode them one by one.</p> <p>Its multi-title feature allows you to rip from all the selected titles at once.</p> |
| Detailed help document | <p>The detailed descriptions in the help file explains everything the user has to know about how to use DVD Audio Extractor.</p> |

Chapter 2. Quick Start Guide

Using DVD Audio Extractor is as easy as several mouse clicks in 1-2-3-4 steps. After starting up DVD Audio Extractor, do the following:

1. [Select Input](#)

Insert a DVD-Audio or DVD-Video disc into your DVD-ROM. Select which title and audio stream you want to use, then select all the chapters you want to rip and click the Next button.

Note

You should select at least one chapter before you can continue.

2. [Encoding Format](#)

Select which format you want to use for encoding. You can use the default setting and click the Next button.

3. [Output Setting](#)

Setup output file location and other settings. The output folder must exist. Check other setting as you wish and click the Next button.

4. [Start Encoding](#)

Click the Start button to start encoding and wait for the process to finish.

Chapter 3. Wizard Pages

DVD Audio Extractor uses a wizard-dialog style appearance to configure all details of audio extracting and encoding.

The following configuration wizard pages can appear in DVD Audio Extractor:

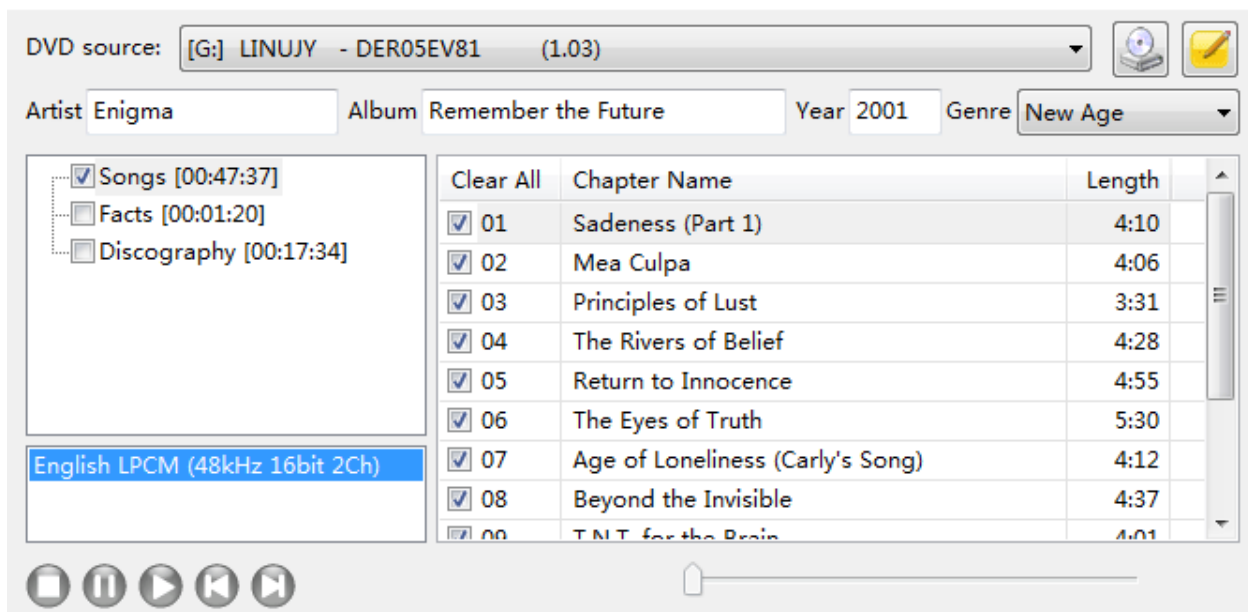
1. [Select Input](#)
2. [Encoding Format](#)
3. [Output Setting](#)
4. [Start Encoding](#)

Tip

- In any of these wizard pages, press **F1** or **Ctrl+H** to go directly to the help page of the current wizard page.
- Check the [Shortcut Keys](#) page for a complete list of all the accelerator keys available in DVD Audio Extractor.

3.1. Select Input


Step 1: select the chapters you want to extract.




Select DVD source:

Click the pull-down combo box to select which DVD-ROM you want to use for ripping. You can also open a file folder where your DVD files are stored, or open a single AOB/VOB file in case you don't have the needed *.IFO files. Default is the first DVD drive with a DVD disc in it.

Refresh DVD-ROM:

Click the refresh button  or press accelerator key **Alt+F** to refresh selected DVD-ROM. DVD Audio Extractor will try to read from the new inserted disc and refresh it's contents.


Browse to folder:

In "Open DVD files from file folder" mode, click the browse button  or press accelerator key **Alt+W** to select the file folder where your DVD files are stored. After selection, DVD Audio Extractor will try to read from that folder and refresh it's contents.

Note

The program needs to read all the IFO and AOB/VOB files so when you copy DVD disc to your hard disk, make sure to copy the whole AUDIO_TS and VIDEO_TS folders.

Open AOB/VOB file:

In "Open single DVD AOB/VOB file" mode, click the browse button  or press accelerator key **Alt+W** to select the AOB (Audio Object) or VOB (Video Object) file. After selection, DVD Audio Extractor will read from that file and refresh it's contents.

Note

This is only provided as a workaround when IFO files are not available or contain error. You should always avoid using it unless all other methods failed.

Metadata (tag) editor:

Metadata (tag) editor allows you to edit the global applied information to all chapters. You can type in the artist's name, the album's title, the year that album was published, and select the corresponding genre. Along with the chapter names you setup, these information will be saved into output file as ID3 tags/Vorbis tags/RIFF INFO/FLAC tags, or CD Text, whichever applie.

Select title (and angle):

Specifies the DVD title (and angle, if more than one angle present) you want to use for ripping. DVD Audio Extractor supports ripping from multiple titles at once. When a title is selected, you can define which chapters on that title will be extracted. If you click on a title's check box, or select the title and press the **SPACE** key, then all the chapters in that title (or angle) get selected or unselected. If no chapter on that title is selected, then the title is not selected for ripping.

Select audio stream:

All the audio streams on the selected title are displayed. You can select the one you want to use. Default is the first audio stream.

When multiple title are selected at once, the maximal output channels and samplerate will be calculated from the selected audio stream of the selected titles. For example, if you selected PCM (96kHz 2ch) on Title1, and AC3 (48kHz 6ch) on Title2, then the maximal output channel will be 2ch and maximal output samplerate will be 48kHz.

Select chapters:

All the chapters on the active title are displayed. Select the chapters you want to play or rip by clicking the chapter's check box. If no chapter is selected, then the active title is not selected for ripping.

You must select at least one chapter to continue. By default, all the chapters in first Title (and first Angle, if more than one angle present) are selected.

Tip

- Press the title "Select All" will select all the chapters in the active title for you. Accelerator key: **Ctrl+A**.
- To select/unselect all the chapters in all titles, press accelerator key: **Alt+A**.






Rename chapters:

You can edit name for any track/chapter by clicking at the grid for that chapter. Accelerator key: **F2**.

The chapter names will be saved into output files as track names, in forms of Tag info or CD Text, whichever applies.

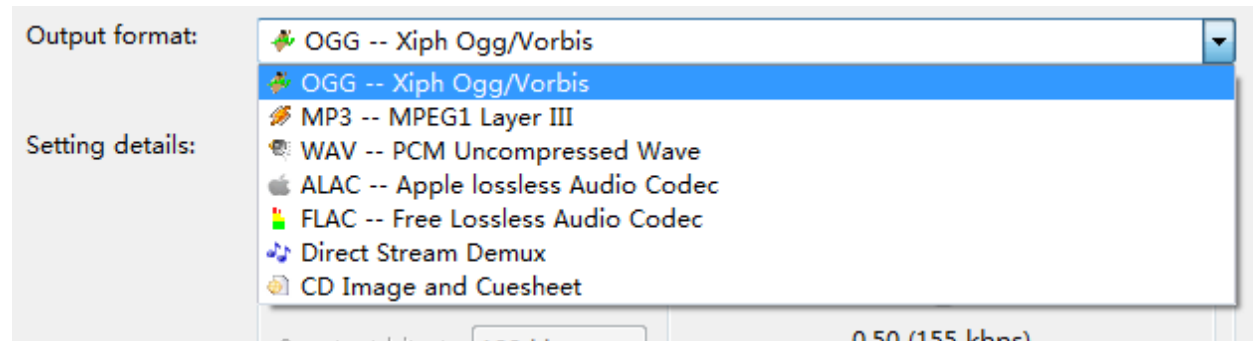
Play selected chapters:

Use the playback control buttons to preview/playback the selected chapters, so that you can be sure those are really the chapters you want to extract.

| | |
|---|---|
|  | Start playing the selected chapters, or resume if paused. Accelerator key: Alt+P . |
|  | Pause. Accelerator key: Alt+U . |
|  | Go to last chapter. Accelerator key: Alt+< . |
|  | Go to next chapter. Accelerator key: Alt+> . |
|  | Stop playing. Accelerator key: Alt+T . |

3.2. Encoding Format

Step 2: select which format you want to use for encoding.



Output format:

Click the pull-down combo to select which format you want to use for encoding. Default is to use OGG/Vorbis format. Follow the links below to see description of each format and when to use that format.

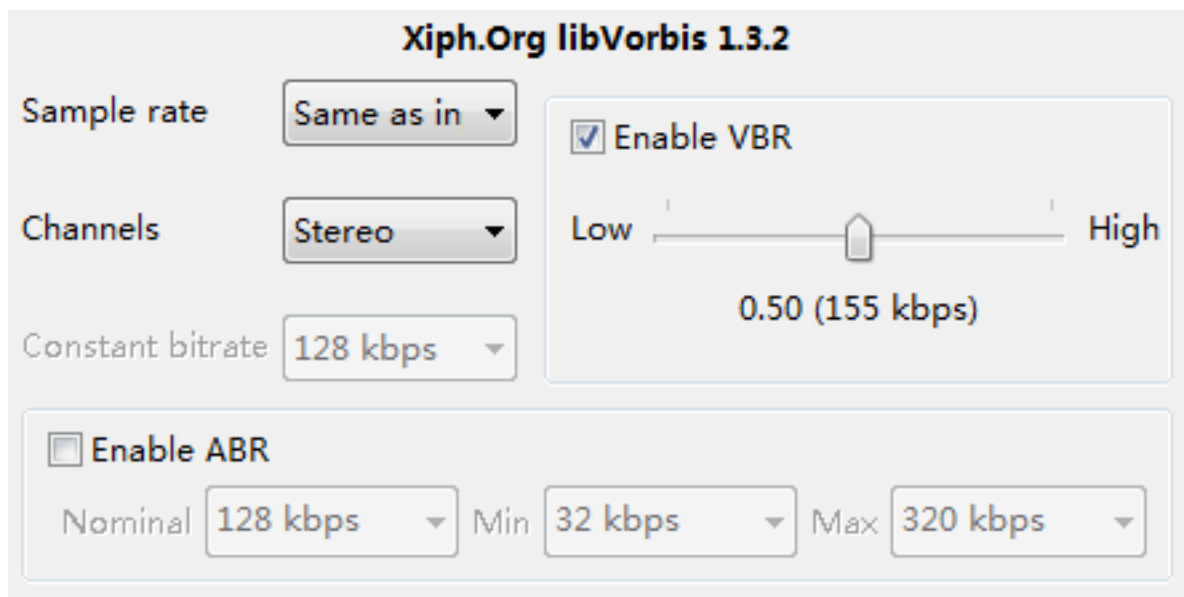
- [OGG -- Xiph OGG/Vorbis](#).

- [MP3 -- MPEG1 Layer III.](#)
- [WAV -- PCM Uncompressed Wave.](#)
- [ALAC -- Apple Lossless Audio Codec.](#)
- [FLAC -- Free Lossless Audio Codec.](#)
- [Direct Stream Demux.](#)
- [CD Image and Cuesheet.](#)

3.2.1. Ogg Vorbis Format

[Ogg Vorbis](#) is a fully open, non-proprietary, patent-and-royalty-free, general-purpose compressed audio format for mid to high quality (8kHz-48.0kHz, 16+ bit, polyphonic) audio and music at fixed and variable bitrates from 16 to 128 kbps/channel. Ogg Vorbis also features on it's multiple channel support. Ogg Vorbis has been designed to completely replace all proprietary, patented audio formats including MP3. It provides higher quality than MP3 and is the recommended format to use. Most of the popular audio players like [foobar2000](#) and [winamp](#) can play OGG files.

Ogg Vorbis Format Settings:



The screenshot shows the 'Xiph.Org libVorbis 1.3.2' settings window. It features several controls: 'Sample rate' set to 'Same as in', 'Channels' set to 'Stereo', and 'Constant bitrate' set to '128 kbps'. A 'VBR' (Variable Bitrate) section is active, showing a slider between 'Low' and 'High' with a value of '0.50 (155 kbps)'. Below this, an 'ABR' (Average Bitrate) section is visible with 'Enable ABR' checked, and 'Nominal' set to '128 kbps', 'Min' set to '32 kbps', and 'Max' set to '320 kbps'.

| | |
|-------------------------|--|
| Sample rate: | Specifies the number of samples per second. Specify one of the 32000Hz, 44100Hz, 48000Hz, etc to re-sample it in the appropriate sampling frequency. Most DVD audio tracks are sampled in 48000Hz. You can also select Same as input, in that case whatever samplerate used in the source audio will be used at output, and no resampling will be done. |
| Channels: | Specify the number of distinct channels of the encoded file. You can select from Mono, Stereo or 5.1 Surround (when the original audio contains 6 channels). |
| Variable bitrate (VBR): | This is the most recommended mode to use. In this mode, you choose the desired quality from lowest to highest. Then encoder tries to maintain the given quality |

in the whole file by choosing the optimal number of bits to spend for each part of your music.

- Enable VBR -- Check this to enable VBR encoding.
- VBR quality -- Specify the quality of VBR encoding by using the slider. A text is displayed to show the approximation of kbps of the resulted stream.

Average bitrate (ABR):

In this mode, you choose the encoder will maintain an average bitrate while kipping the whole file within lower and upper bitrate bound. The result will be of higher quality than CBR encoding, so this mode is highly recommended over CBR.

- Enable ABR -- Check this to enable ABR encoding.
- Nominal bitrate -- Average bitrate that will commonly used to encode the track..
- Minimum bitrate -- The minimum (lower bound) bitrate.
- Maximum bitrate -- The maximum (upper bound) bitrate.

Constant bitrate (CBR):

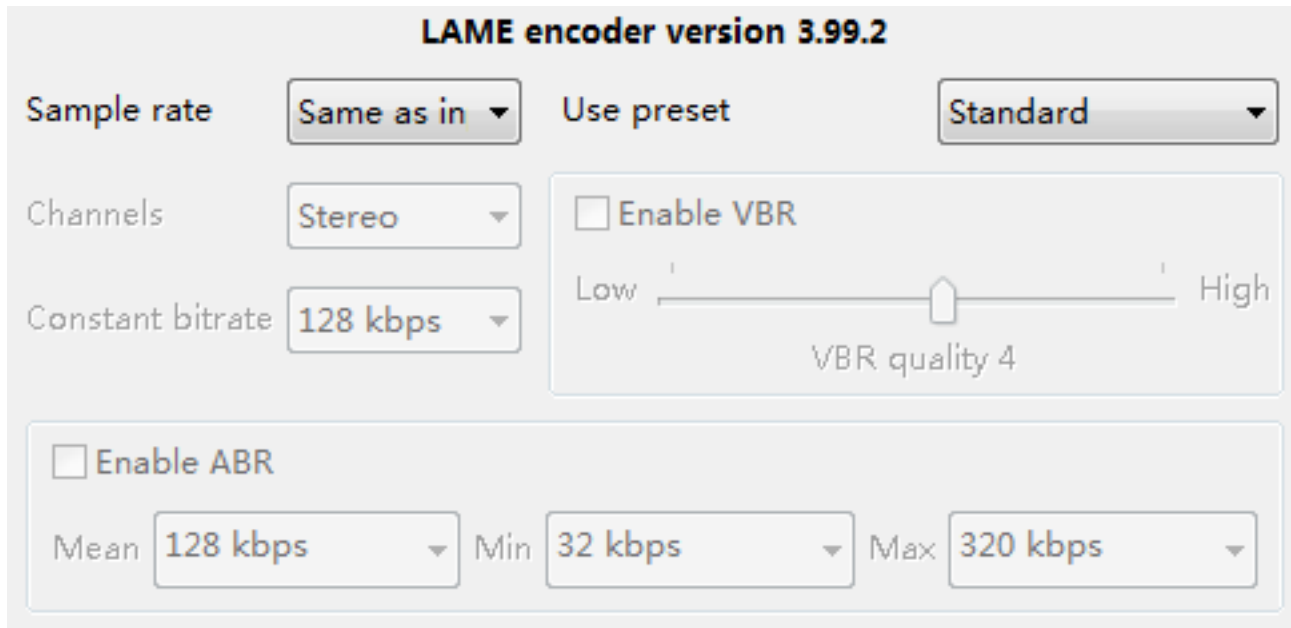
This is the most basic encoding mode. In this mode, the bitrate will be the same for the whole file. It means that each part of your ogg file will be using the same number of bits.

Note

When none of Enable ABR and Enable VBR is checked, CBR encoding is used

3.2.2. MP3 Format

MP3 or [MPEG1 Layer III](#) is a sound compression format that can create near CD-quality sound files while maintaining a small file size. It is still one of the world's most popular audio compression formats on use but likely to be replaced by Ogg Vorbis. Since there is not yet as many Ogg (Hardware) Players available as MP3 Players, you may want to use MP3 format for playback on portable devices.

MP3 Format Settings:

The screenshot shows the LAME encoder version 3.99.2 settings window. It features several dropdown menus and checkboxes. The 'Sample rate' is set to 'Same as in', 'Use preset' is set to 'Standard', 'Channels' is set to 'Stereo', and 'Constant bitrate' is set to '128 kbps'. There is a checkbox for 'Enable VBR' which is unchecked, and a slider for 'VBR quality' ranging from 'Low' to 'High', currently set at 'VBR quality 4'. Below this is a checkbox for 'Enable ABR' which is also unchecked. At the bottom, there are three dropdown menus for 'Mean', 'Min', and 'Max' bitrates, set to '128 kbps', '32 kbps', and '320 kbps' respectively.

Sample rate: Specifies the number of samples per second. Specify one of the 32000Hz, 44100Hz, 48000Hz, etc to re-sample it in the appropriate sampling frequency.

You can also select `Same as input`, in that case whatever samplerate used in the source audio will be used at output, and no resampling will be done.

Note

Most DVD audio tracks are sampled in 48000Hz. Some MP3 player (hardware or software) might have problem playing back 48000Hz MP3 files. In case this happened please use the CD default 44100Hz sample rate.

Use preset: Lame built-in presets are designed to provide the highest possible quality. They have for the most part been subject to and tuned via rigorous listening tests to verify and achieve this objective. These are continually updated to coincide with the latest developments that occur and as a result should provide you with nearly the best quality currently possible from LAME. If your goal is quality, these presets are highly recommended over any custom set of parameters you might use.

- `Custom settings` -- Do not use any preset, setup all the parameters yourself.
- `Medium` -- This preset should provide near transparency to most people on most music. The resulting bitrate should be in the 150-180kbps range, according to music complexity.
- `Standard` -- This preset should generally be transparent to most people on most music and is already quite high in quality. The resulting bitrate should be in the 170-210kbps range, according to music complexity.

- **Extreme** -- If you have extremely good hearing and similar equipment, this preset will provide slightly higher quality than the "standard" mode. The resulting bitrate should be in the 200-240kbps range, according to music complexity.
- **Insane** -- This preset will usually be overkill for most people and most situations, but if you must have the absolute highest quality with no regard to filesize, this is the way to go. This preset turns on CBR 320 kbps encoding and is the highest preset quality available.

Note

The default Standard preset is good enough for most use. Unless you have special needs, it is always good to stick to the built-in presets and using custom settings is not recommended.

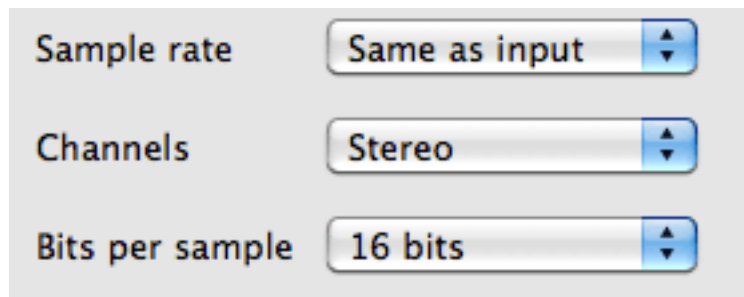
| | |
|-------------------------|---|
| Channels: | Specify the number of distinct channels of the encoded file. MP3 streams supports Mono, Joint stereo, Stereo channels. You normally use Joint stereo for low bitrates (96-128Kbs). For higher bitrates it is recommended to use Stereo since its quality is better than Joint. |
| Variable bitrate (VBR): | <p>This is the most recommended mode to use. In this mode, you choose the desired quality on a scale from 9 (lowest quality/biggest distortion) to 0 (highest quality/lowest distortion). Then encoder tries to maintain the given quality in the whole file by choosing the optimal number of bits to spend for each part of your music. The main advantage is that you are able to specify the quality level that you want to reach, but the inconvenient is that the final file size is totally unpredictable.</p> <ul style="list-style-type: none"> • Enable VBR -- Check this to enable VBR encoding. • VBR quality -- Specify the quality of VBR encoding by using the slider. |
| Average bitrate (ABR): | <p>In this mode, you choose the encoder will maintain an average bitrate while using higher bitrates for the parts of your music that need more bits. The result will be of higher quality than CBR encoding but the average file size will remain predictable, so this mode is highly recommended over CBR. This encoding mode is similar to what is referred as vbr in AAC or Liquid Audio (2 other compression technologies).</p> <ul style="list-style-type: none"> • Enable ABR -- Check this to enable ABR encoding. • Mean -- The average bitrate used for ABR encoding. • Min and Max -- The minimal and maximal allowed in the ABR encoding. |
| Constant bitrate (CBR): | <p>This is the most basic encoding mode. In this mode, the bitrate will be the same for the whole file. It means that each part of your mp3 file will be using the same number of bits. The musical passage being a difficult one to encode or an easy one, the encoder will use the same bitrate, so the quality of your mp3 is variable. Complex parts will be of a lower quality than the easiest ones. The main advantage is that the final files size won't change and can be accurately predicted.</p> |

3.2.3. Audio Interchange File Format

AIFF (Audio Interchange File Format) is an uncompressed format for storing and transmitting sampled sound. The format was developed by Apple Computer and is the standard audio format for Macintosh computers.

Note that uncompressed aiff files can take large amount of disk spaces. And there is a limit in this format that any single aiff file can not be larger than 2G bytes. If you want to save space or get around the size limit, consider using FLAC format.

AIFF Format Settings:



Sample rate: Specifies the number of samples per second. Specify one of the 32000Hz, 44100Hz, 48000Hz, etc to re-sample it in the appropriate sampling frequency.

You can also select `Same as input`, in that case whatever samplerate used in the source audio will be used at output, and no resampling will be done.

Note

Most DVD audio streams are sampled in 48000Hz. If you want to record the output WAV files onto an Audio CD, you need to change the Sample Rate to 44100Hz. You should also set channel to Stereo and use 16 bits per sample. Those are the standard for Audio CD.

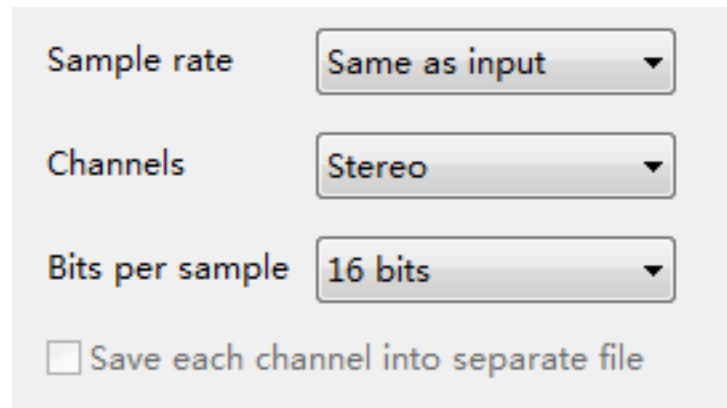
Channels: Specify the number of distinct channels of the encoded file. You can select from Mono, Stereo or All the available channels (when the original audio contains more than 2 channels).

Bits pre sample: Specify the number of bits per sample to use. The common value is 16 bits per sample. Truncating to 8 bits will cause lost of quality and is not recommended. Also, unless the source audio stream is 20bit or 24bit LPCM, saving results in 24 bits will not bring you much benefit than occupying more disk spaces.

3.2.4. PCM Wave Format

PCM Wave is uncompressed lossless digital audio. You may want to use this format if you want to reuse the audios you extracted with DVD Audio Extractor.

Note that uncompressed wave files can take large amount of disk spaces. And there is a limit in this format that any single Wave file can not be larger than 4G bytes. If you want to save space or get around the size limit, consider using FLAC format.

Wave Format Settings:A screenshot of a 'Wave Format Settings' dialog box. It contains three dropdown menus: 'Sample rate' set to 'Same as input', 'Channels' set to 'Stereo', and 'Bits per sample' set to '16 bits'. Below these is a checkbox labeled 'Save each channel into separate file' which is currently unchecked.

Sample rate: Specifies the number of samples per second. Specify one of the 32000Hz, 44100Hz, 48000Hz, etc to re-sample it in the appropriate sampling frequency.

You can also select `Same as input`, in that case whatever samplerate used in the source audio will be used at output, and no resampling will be done.

Note

Most DVD audio streams are sampled in 48000Hz. If you want to record the output WAV files onto an Audio CD, you need to change the Sample Rate to 44100Hz. You should also set channel to Stereo and use 16 bits per sample. Those are the standard for Audio CD.

Channels: Specify the number of distinct channels of the encoded file. You can select from Mono, Stereo or All the available channels (when the original audio contains more than 2 channels).

When selected channel is Mono or Stereo, the output file will be saved in PCM Wave Format for best compatibility; When use more than 2 channels, the file will be saved in Extensible Wave Format, which supports multi-channel audio better.

Bits pre sample: Specify the number of bits per sample to use. The common value is 16 bits per sample. Truncating to 8 bits will cause lost of quality and is not recommended. Also, unless the source audio stream is 20bit or 24bit LPCM, saving results in 24 bits will not bring you much benefit than occupying more disk spaces.

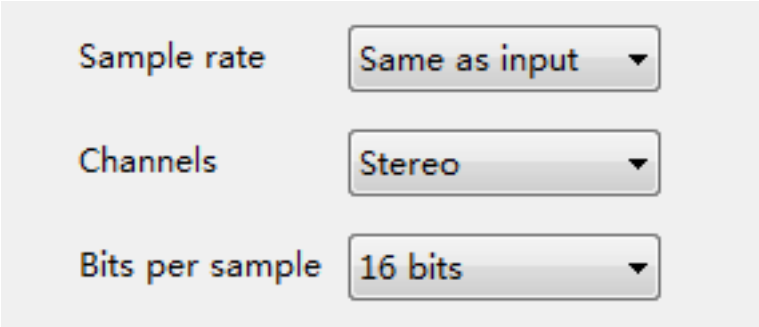
Save each channel into separate file: Each channel will be written into a separate output file. This is most useful for users who want to reuse one or more interested channels. This option is available only when selected track contains more than 2 channels.

For 6 channel Wave output decoded from 5.1 Dolby Digital or 5.1 DTS, when save each channel into separate file, ch1 will contain left channel, ch2 will contain right channel, ch3 will contain front center channel, ch4 will contain low frequency enhance, ch5 will contain surround left channel, and ch6 will contain surround right channel.

3.2.5. ALAC Format

[ALAC \(Apple Lossless Audio Codec\)](#) is an audio codec developed by Apple and supported on iPhone, iPad, most iPods, Mac and iTunes. ALAC is a data compression method which reduces the size of audio files with no loss of information. A decoded ALAC stream is bit-for-bit identical to the original uncompressed audio file.

ALAC Format Settings:



The image shows a screenshot of the ALAC Format Settings interface. It contains three settings, each with a label and a dropdown menu:

- Sample rate:** The dropdown menu is set to "Same as input".
- Channels:** The dropdown menu is set to "Stereo".
- Bits per sample:** The dropdown menu is set to "16 bits".

Sample rate: Specifies the number of samples per second. Specify one of the 32000Hz, 44100Hz, 48000Hz, etc to re-sample it in the appropriate sampling frequency.

You can also select `Same as input`, in that case whatever samplerate used in the source audio will be used at output, and no resampling will be done.

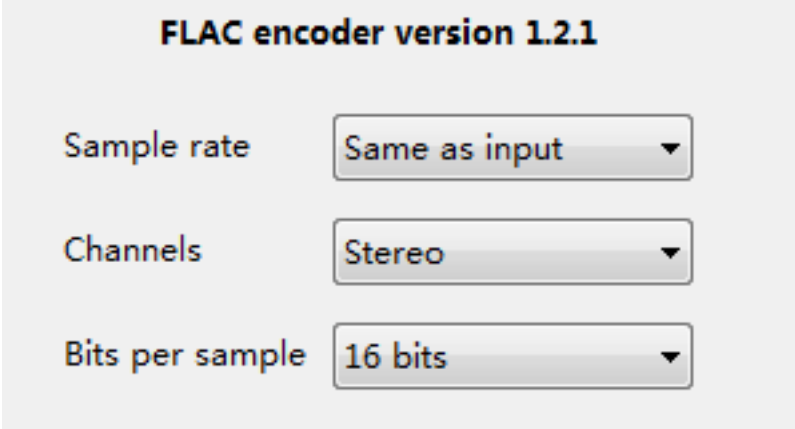
Channels: Specify the number of distinct channels of the encoded file. You can select from Mono, Stereo or All the available channels (when the original audio contains more than 2 channels).

Bits pre sample: Specify the number of bits per sample to use. The common value is 16 bits per sample. Unless the source audio stream is 20bit or 24bit LPCM, saving results in 24 bits will not bring you much benefit than occupying more disk spaces.

3.2.6. FLAC Format

[FLAC \(Free Lossless Audio Codex\)](#) is similar to MP3, but lossless, meaning that audio is compressed in FLAC without any loss in quality. This is similar to how Zip works, except with FLAC you will get much better compression because it is designed specifically for audio, and you can play back compressed FLAC files in your favorite player just like you would an MP3 file.

FLAC file can compress audio to about 50%-80% size of PCM uncompressed Wave and can be later decoded back to a Wave file bit-for-bit identical with the uncompressed one. Use this option only when you know your system supports FLAC format.

FLAC Format Settings:

FLAC encoder version 1.2.1

Sample rate: Same as input ▼

Channels: Stereo ▼

Bits per sample: 16 bits ▼

Sample rate: Specifies the number of samples per second. Specify one of the 32000Hz, 44100Hz, 48000Hz, etc to re-sample it in the appropriate sampling frequency.

You can also select Same as input, in that case whatever samplerate used in the source audio will be used at output, and no resampling will be done.

Channels: Specify the number of distinct channels of the encoded file. You can select from Mono, Stereo or All the available channels (when the original audio contains more than 2 channels).

Bits pre sample: Specify the number of bits per sample to use. The common value is 16 bits per sample. Truncating to 8 bits will cause loss of quality and is not recommended. Also, unless the source audio stream is 20bit or 24bit LPCM, saving results in 24 bits will not bring you much benefit than occupying more disk spaces.

3.2.7. Direct Stream Demux

The selected audio stream will be copied out unchanged to the result file. This is the quickest way to get audios from DVD disks. But make sure your audio player/editor software can handle the selected audio format.

- AC-3 audios will be saved to *.ac3 file.
- DTS audios will be saved to *.dts file.
- MPEG-1 and MPEG-2 audios will be saved to *.mpa file.
- LPCM audios will be saved to *.pcm file.

Note

The LPCM format used in DVD discs are in a special DVD-packed Motorola format, which is different from normal Intel PCM format in byte orders.

- MLP audios will be saved to *.mlp file.

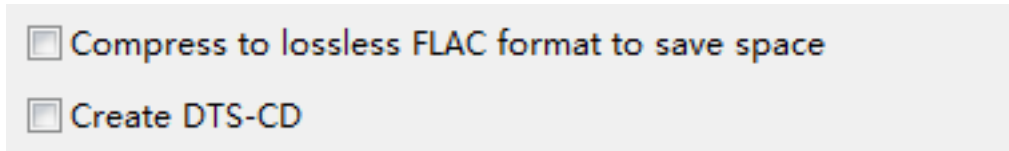
3.2.8. CD Image and Cuesheet

This is the most convenient way to create an Audio CD from the DVD. The selected audio will be converted into an Audio CD image file along with a cuesheet file, which can be imported directly into popular CD burning software like [Nero](#), [EAC](#) or [CDRWin](#).

Note

You are supposed to open the cuesheet file (*.cue) at CD burning software. If you use the CD image file (*.wav) directly, the burned CD is still complete but not seekable.

CD Image format settings:



Compress to lossless FLAC format to save space:

Compress the CD image to FLAC ([Free Lossless Audio Codec](#)) format. FLAC file can compress the CD Image to about 50%-80% of original size.

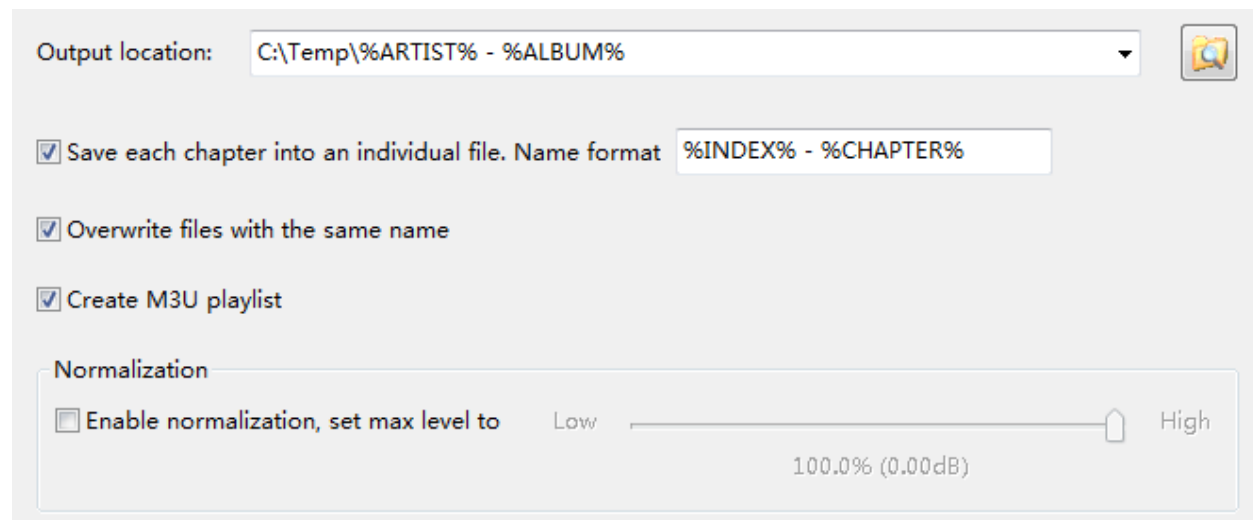
Use this option only when your CD Recording software supports FLAC format. FLAC plugin for Nero can be downloaded from neroplugins.cd-rw.org.

Create DTS-CD:


Create a [DTS-CD](#) image. DTS-CD can be read out by normal CD/DVD player and decoded with DTS enabled receiver.

3.3. Output Setting

Step 3: setup output file location and other settings.



Output location:

Specify (or select using the browse button ) the output folder. All ripped tracks will be placed in that folder. Please make sure there is enough disk space in the output folder before continue. Accelerator key: **Alt+W**.

To use an output folder relative to DVD source folder, put **%SOURCE%** at the beginning of output location. Beside that, following macros can be used to specify a folder based on disc metadata.

| | |
|-----------------|---|
| %ARTIST% | Expands to the artist name set in step 1. |
| %ALBUM% | Expands to the album name set in step 1. |

Tip

Example 1: If at [Step 1](#) you opened DVD from folder "C:\Temp\Sample DVD", and now specify "%SOURCE%\..\output" at output location, then output files will be saved to folder "C:\temp\output".

Example 2: If at [Step 1](#) you set Artist tag to "Enigma" and Album tag to "Remember the future", and now specify "C:\Music\%ARTIST% - %ALBUM%" at output location, then output files will be saved to folder "C:\Music\Enigma - Remember the future".

Save each chapter into an individual file:

When selected, each chapter will be saved to a separate output file. Otherwise all the chapters on the same title will be saved into one file.

Name format:

Specify the output filename format, when each chapter is saved into an individual file. Following macros can be used to specify a filename based on disc metadata. Must contain at least one of **%CHAPTER%** and **%INDEX%**.

| | |
|------------------|--|
| %ARTIST% | Expands to the artist name set in step 1. |
| %ALBUM% | Expands to the album name set in step 1. |
| %TITLE% | Expands to the title name set in step 1. |
| %CHAPTER% | Expands to the chapter name set in step 1. |
| %INDEX% | Expands to the chapter index, from 01 to the count of all selected chapters. |

Insert 2 seconds silence between tracks:

Only available in [CD Image and Cuesheet](#) format. When selected, a 2 seconds silence will be inserted before each track. Otherwise there will be no break and you will get a gapless playback CD.

Overwrite files with same name:

Check this to overwrite files in the output folder with the same name. Otherwise the file with the same name will be skipped.

Create M3U list:

Check this to creates a M3U play list (recognized by Windows Media Player, Winamp, etc) with the ripped tracks.

Normalization:

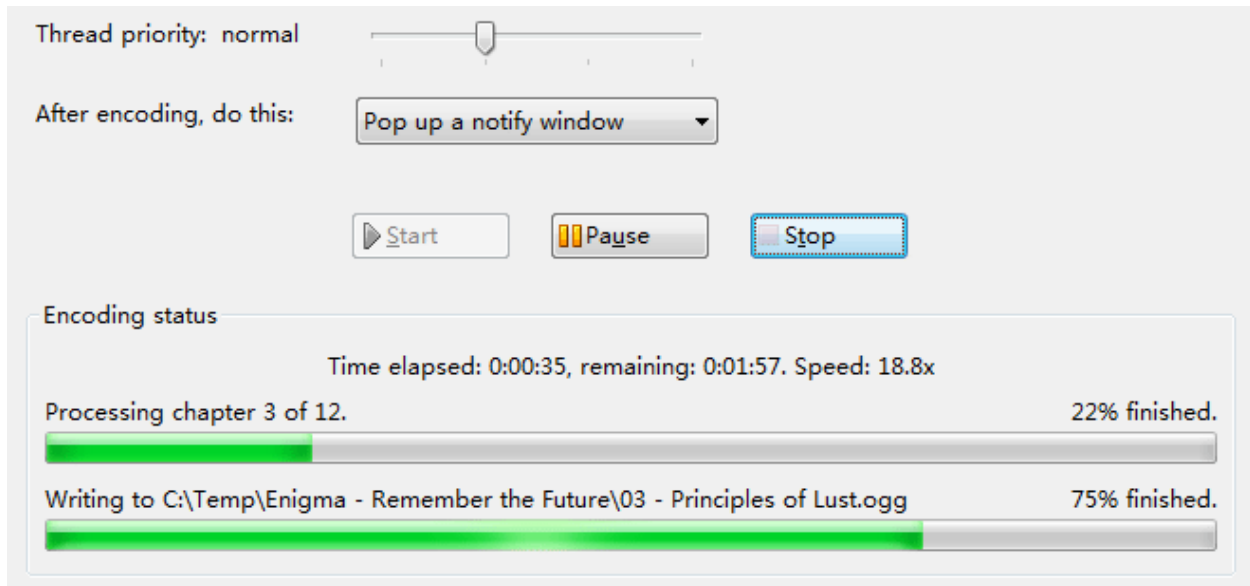
Sometimes the audio level on DVD disc are too low. This option allows you to adjust the volume of audio files to a standard level.

Note

Selecting this will cause slower ripping speed since additional volume scan/normalization operation will be performed.

3.4. Start Encoding

Step 4: start encoding and watch the process.



Thread priority: Lets the user adjust the priority of the encoding task (or thread). Idle means that only unused CPU time will be used to encode. Normal is the priority that programs run with. Higher and Highest slows down computer more than normal programs.

After encoding, do this: Performs one of the following actions when all files are encoded.

| | |
|---------------------------|--|
| Pop up a notify window | Pop up a notify window and play a notify sound. This is the default. |
| Close DVD Audio Extractor | Closes DVD Audio Extractor when finished. |
| Log me off | Logs off the current user when finished. |
| Shutdown the computer | Shuts down Windows and power off when finished. |
| Do nothing | Do nothing. Not even a sound. |

Start button: Starts encoding. Accelerator key: **Alt+S**.

Pause/Resume button: These allow you pause and resume the encoding process. Useful when you have to break the encoding for a while to handle something else. Accelerator key: **Alt+U**.

Stop button: Stops encoding. The program will stop at where it has completed and you will get partly done result files. Accelerator key: **Alt+T**.

Encoding status: Shows information about the number of files already encoded, the currently processed file, time used and progress meters.

Note

A "Restart" button is available (only) in this wizard page. Clicking this button has the same effect as click "Back" button for three times and refresh the DVD-ROM. Accelerator key: **Alt+R**.

Chapter 4. Command Line Interface

Aside from the wizard like GUI program, DVD Audio Extractor also comes with a fully functional command line interface.

Usage: **dvdae** [options] *SOURCE*

SOURCE is path to either a DVD-ROM, a folder, or a file.

-h, --help Show help message and quit.

-l, --list List all the contents found in *SOURCE* and quit.

Input Options

-T, --title=num Selecte title. If not specified, all titles are selected.

-A, --angle=num Selecte angle. (default=1, first available angle)

-C, --chapter=str Select chapters. Multiple chapters can be specified like '1,2,3...'. If not specified, all chapters in selected titles are selected.

-S, --stream=num Select audio stream. (default=1, first available audio stream)

Note

Options --angle, --chapter and --stream will only be used when --title is specified.

Format Options

-f, --format=str Encoding format. Either *ogg* (Ogg Vorbis), *mp3* (MP3), *wav* (PCM Wave), *alac* (ALAC), *flac* (FLAC), *demux* (Direct Stream Demux), or *cd* (CD Image and Cuesheet). (default=*ogg*)

-s, --samplerate=num Sampling frequency in Hz. Can be one of *11025*, *22050*, *32000*, *44100*, *48000*, *88200*, *96000*, *176400* or *192000*. Default is the same samplerate as in *SOURCE*.

Format Options for Ogg Vorbis Format

-c, --channel=num Channels. Either *1* (Mono), *2* (Stereo) or *3* (5.1 Surround). (default=*2*)

-v, --vbr=float Enable VBR, with quality setting. (0.0 to 1.0 from low to high)

-a, --abr=num Enable ABR, with nominal bitrate in kbits. (32-320)

-b, --cbr=num Enable CBR, set bitrate in kbits. (32-320)

-m, --min=num When ABR is enabled, specify a minimal allowed bitrate. (32-320)

-M, --max=num When ABR is enabled, specify a maximum allowed bitrate. (32-320)

Note

When none of --vbr, --abr and --cbr is specified, default to --vbr=0.5.

Format Options for MP3 Format

| | |
|--------------------------------|---|
| <code>-c, --channel=num</code> | Channels. Either 1 (Mono), 2 (Stereo) or 3 (Joint Stereo). (default=2) |
| <code>-p, --preset=str</code> | Use one of the LAME built-in presets, <i>medium</i> , <i>standard</i> , <i>extreme</i> or <i>insane</i> . |
| <code>-V, --vbr=num</code> | Enable VBR, with quality setting. (0 to 9, 0=highest quality) |
| <code>-a, --abr=num</code> | Enable ABR, with average bitrate in kbits. (32-320) |
| <code>-b, --cbr=num</code> | Enable CBR, set bitrate in kbits. (32-320) |
| <code>-m, --min=num</code> | When ABR is enabled, specify a minimal allowed bitrate. (32-320) |
| <code>-M, --max=num</code> | When ABR is enabled, specify a maximum allowed bitrate. (32-320) |

Note

When none of `--preset`, `--vbr`, `--abr` and `--cbr` is specified, default to `--preset=standard`.

Format Options for PCM Wav Format

| | |
|--------------------------------|--|
| <code>-c, --channel=num</code> | Channels. Either 1 (Mono), 2 (Stereo) or 3 (All channels). (default=2) |
| <code>-b, --bps=num</code> | Bits per sample. Either 8, 16 or 24. (default=16) |
| <code>-sp, --separate</code> | Save each channel into separate file. |

Format Options for ALAC Format

| | |
|--------------------------------|--|
| <code>-c, --channel=num</code> | Channels. Either 1 (Mono), 2 (Stereo) or 3 (All channels). (default=2) |
| <code>-b, --bps=num</code> | Bits per sample. Either 16 or 24. (default=16) |

Format Options for Flac Format

| | |
|--------------------------------|--|
| <code>-c, --channel=num</code> | Channels. Either 1 (Mono), 2 (Stereo) or 3 (All channels). (default=2) |
| <code>-b, --bps=num</code> | Bits per sample. Either 8, 16 or 24. (default=16) |

Format Options for CD Image and Cuesheet Format

| | |
|-----------------------------|---|
| <code>-x, --compress</code> | Compress to lossless FLAC format to save space. |
| <code>-d, --dts</code> | Create DTS-CD. |

Output Options

| | |
|---------------------------|--|
| <code>-o, --output</code> | Output folder. If not specified, current directory will be used. To use an output folder relative to DVD source folder, put <code>%SOURCE%</code> at the beginning of output location. <code>%ARTIST%</code> and <code>%ALBUM%</code> can also be used to specify a folder based on disc tags. |
|---------------------------|--|

| | |
|----------------------------------|--|
| <code>-ns, --no-split</code> | <p>If not specified, will save each chapter/track into separate file.</p> <p>When CD Image and Cuesheet format is used, if this option is not specified, will insert a 2 seconds silence before each track.</p> |
| <code>-nf, --name-format</code> | <p>Specify the output filename format, when each chapter is saved into an individual file. Must contain at least one of <code>%CHAPTER%</code> and <code>%INDEX%</code>.</p> <p><code>%TITLE%</code>, <code>%ARTIST%</code> and <code>%ALBUM%</code> can also be used to generate a filename based on disc tags.</p> |
| <code>-w, --overwrite</code> | Overwrite files in the output folder with the same name. |
| <code>-u, --m3u</code> | Create M3U play list file. |
| <code>-n, --normalization</code> | Enable normalization, change max level to. (0.1 to 1.0). |

4.1. Examples

- List DVD contents in disc F:.

```
dvdaes -l F:
```

- Extract all chapters from disc F:, save to Stereo Ogg Vorbis format at current directory.

```
dvdaes F:
```

- Extract from file VTS_01_1.VOB, save to Mono Ogg Vorbis format at current directory, with average bitrate at 128 kbits, limit allowed frame sizes between 96 and 144 kbits.

```
dvdaes -fogg -c1 -a128 -m96 -M144 VTS_01_1.VOB
```

- Extract all chapters from title 2 of folder VIDEO_TS, save to Stereo MP3 format at folder Music.

```
dvdaes --title=2 --format=mp3 --output=Music VIDEO_TS
```

- Extract from file ATS_01_1.AOB, resample to 44100 Hz, save to MP3 format, with LAME preset insane, at current directory.

```
dvdaes -fmp3 -pinsane -s44100 ATS_01_1.AOB
```

- Extract chapter 1 and chapter 3 from angle2, title 1 of folder VIDEO_TS, use second audio stream, save to 6 channels PCM Wave format, with each channel in a separate file, at current directory.

```
dvdaes -T1 -A2 -C1,3 -S2 -fwav -c3 -se VIDEO_TS
```

- Extract all chapters from folder AUDIO_TS, resample to 48000 Hz, save to 24bit Stereo Flac format, at current directory.

```
dvdaes -fflac -s48000 -c2 -b24 AUDIO_TS
```

- Demux all chapters from folder AUDIO_TS, save to folder Music.

```
dvdaes -fdemux -oMusic AUDIO_TS
```

- Extract all chapters from title 1 of disc F:, save to CD Image and Cuesheet format, and compress to Flac to save space, at current directory.

```
dvdae -Tl -fcd -x F:
```

Chapter 5. Shortcut Keys

This page lists all the Accelerator keys available in DVD Audio Extractor.

Table 5.1. Shortcut keys for all pages

| Keys | Function |
|----------------------------|------------------------|
| F1 or Ctrl+H | Open html help |
| Alt+N | Step to next page |
| Alt+B | Step back to last page |
| Alt+X | Quit the program |

Table 5.2. Shortcut keys special for page 1

| Keys | Function |
|-----------------|--|
| Alt+F | Refresh the selected DVD-ROM |
| Alt+W | Browse to DVD folder or single VOB file |
| Alt+P | Start playback the selected chapters |
| Alt+U | Pause playback |
| Alt+< | Go to last chapter |
| Alt+> | Go to next chapter |
| Alt+T | Stop playback |
| Ctrl+A | Select/Unselect all the chapters in the active title |
| Alt+A | Select/Unselect all the chapters in all the titles |
| F2 | Rename the active chapter |

Table 5.3. Shortcut keys special for page 3

| Keys | Function |
|--------------|-----------------------------|
| Alt+W | Browse to the output folder |

Table 5.4. Shortcut keys special for page 4

| Keys | Function |
|--------------|--|
| Alt+S | Start encoding |
| Alt+U | Pause encoding |
| Alt+T | Stop encoding |
| Alt+R | Restart. Go back to first page and refresh the DVD-ROM |

Chapter 6. Change Log

7.1.2 (2013-06-05)

- Fixed a bug that caused crash when downloading metadata.
- Fixed a decoding error on mono DTS stream.
- Other minor enhancements.

7.1.1 (2012-12-18)

- Fixed a bug that might cause clicks on created DTS-CD image.
- Other minor enhancements.

7.1.0 (2012-12-04)

- Improved player compatibility for generated DTS-CD images.
- Fixed a bug that might cause crash in rare case, when editing chapter names on OSX.
- Win2K is no longer supported. Minimum supported Windows system is now XP.
- Other minor enhancements.

7.0.2 (2012-10-09)

- Fixed a bug that caused white noise output on decoding LPCM stream on some DVD-Audio discs.
- Save each chapter into individual file option should always be enabled on Bluray discs.

7.0.1 (2012-09-09)

- Fixed a bug that caused crash when encoding to ALAC files with normalization enabled.
- Updated Lame library to version 3.99.5.
- Updated Vorbis library to version 1.3.3.

7.0.0 (2012-08-15)

- DVD Audio Extractor now supports Blu-ray discs.
- The CD Image and Cuesheet format can now be used to create DTS-CD image.
- Supports decoding audio files that is demuxed from Blu-ray and DVD files, like dts, ac3, mlp, thd, etc.
- Other minor enhancements.

6.3.0 (2012-02-12)

- New feature: Added support to ALAC (Apple Lossless Audio Codec) format.
- Added 64-bit Linux packages.
- Other minor enhancements.

6.2.0 (2011-11-23)

- DVD Audio Extractor is now released on Linux (Ubuntu and Fedora are supported).
- Fixed a bug in 6.1.1 that caused error while encoding to Mono MP3 files.
- Updated Lame library to version 3.99.2.

6.1.1 (2011-11-11)

- A copy of metadata is saved to local cache, to save the trouble of downloading metadata for the same disc again and again.
- Avoid invalid characters being used as file names.
- Updated Lame library to version 3.99.

6.1.0 (2011-10-16)

- Metadata (tag) editor moved to step 1. Added a button to upload and download disc metadata. All the uploaded metadata is shared between all the users, so that people don't need to enter metadata for the same disc again.
- Allow output folder and output file names to be generated based on disc metadata.
- Resized main window to allow all controls arranged appropriately.
- Other minor enhancements.

6.0.2 (2011-08-20)

- Dither is now always applied on 8 bit and 16 bit output.
- Small quality improvement for MP3 format.
- Video preview is more stable on OSX.
- Fixed a bug that notify sound is not played when encoding finished.

6.0.1 (2011-06-30)

- DVD Audio Extractor now goes cross-platform. The Mac OS X version is formally released.
- Fixed a bug that caused valid license file not recognized in rare cases.
- Minor GUI adjustments.

6.0.0 (2011-05-31)

- License upgrade. The license code used on old versions won't work any more. Paied users please create an account at our website and download a new license file.

5.3.0 (2011-03-26)

- Moved website to new domain: www.dvdae.com.
- Added a new command line interface. Run "dvdae -h" at console to see usage. The wizard-like GUI interface is renamed to dvdae-gui.
- Removed MP3 algorithm option from UI. High quality algorithm will always be used.

- Other minor enhancements.

5.2.3 (2011-01-26)

- Improved Audio/Video sync during preview.
- Fixed hang up when preview was paused.
- Bigger preview window.
- Other minor enhancements.

5.2.2 (2010-12-23)

- Updated Vorbis library to version 1.3.2.
- Added Genres to tag info.
- Fixed an error that caused program crash in rare cases.
- Fixed a bug that mono stream previews at wrong speed.
- Other minor enhancements.

5.2.1 (2010-08-15)

- Added splash window and busy waiting notification.
- Added RIFF INFO tags support to wave files.
- Bug fix: UTF-8 encoded CUE file is not recognized by Nero.

5.2.0 (2010-07-19)

- Improvement on audio decoding codes.
- Fixed a bug that caused 88.2KHz output when 96KHz is selected.
- Other minor enhancements.

5.1.1 (2010-05-25)

- Fixed a DTS decoding bug that was introduced in last version.
- Minor UI adjustments.

5.1.0 (2010-05-10)

- Improved AC3 and DTS decoding codecs: DRC is turned off and better downmix quality can be expected.
- Better video preview performance.
- Fixed a bug that caused wrong audio stream get listed on some DVD-Audio discs.
- Other minor enhancements.

5.0.3 (2010-04-12)

- Updated Vorbis library to version 1.3.1.

- Updated LAME library to version 3.98.4.
- Bug fix: titles on DVD-Audio discs are not listed correctly in some rare cases.
- Other minor enhancements.

5.0.2 (2010-03-04)

- Improvement on reading DVD-Audio discs.
- Updated LAME library to version 3.98.3.
- Bug fix: audio not encoded correctly when option "Save each chapter into separate file" is not enabled.

5.0.1 (2010-02-22)

- Fundamental code restruction which makes it easier to add new features.
- DVD Audio Extractor now supports DVD-Audio discs.
- Always use maximum compression level for FLAC format.
- Other minor enhancements.

4.5.5 (2009-09-09)

- Fixed a bug that caused subtle audio skip on some DVD discs.
- Updated Vorbis library to version 1.2.3.
- DVD Audio Extractor has been verified to be Windows 7 compatible.

4.5.4 (2009-05-09)

- Reorganized html help document and added fixes to make **F6** shortcut key works within it.

4.5.3 (2009-04-04)

- Video preview is now always on.
- Fixed program crash during window resize.

4.5.2 (2009-03-21)

- Fixed audio/video synchronization in preview window.

4.5.1 (2009-01-21)

- Default to use ID3V1 tag to minimize the chances of wrong MP3 length being reported.
- Fixed a bug that caused none existing audio streams be listed in VOB mode.

4.5.0 (2008-12-26)

- Removed restriction that reading DVDs need administrator privileges on XP and Win2K. The software can now be used with none administrator accounts on all platforms.
- Improved DVD reading speed that result in higher extracting speed.

- Updated Lame library to version 3.98.2.
- Other minor enhancements.

4.4.1 (2008-07-19)

- Fixed some errors caused on MP3 output.
- The program now works better with UAC on Vista.

4.4.0 (2008-07-07)

- Updated Lame library to version 3.98.
- Now use ID3V2 tag for MP3 files and overcome some limits of ID3V1.
- Added checking for update feature, with an option to automatically check for updates.
- Added an option to pop up a notify window when encoding finished.
- Other minor enhancements.

4.3.0 (2008-01-13)

- DVD Audio Extractor is now developed on Vista. Win95, Win98, Windows ME and Windows NT platforms are no longer supported. Please stay on 4.2.2 if you are using one of these platforms.
- Added support to FLAC tags, updated libFLAC library to version 1.2.1.
- Updated Vorbis library to version 1.2.0.
- Other minor enhancements.

4.2.2 (2007-07-08)

- Updated libFLAC library to version 1.1.4.
- Allow browse and save to network folder.
- Remember last used sample rate.
- Fixed an error on opening About Dialog.

4.2.1 (2007-01-16)

- Fixed a bug in version 4.2.0 that the newly included version of libFLAC.dll could not be opened on some systems.

4.2.0 (2006-12-21)

- Changed back to use old user interface due to user feedbacks. It allows easier changing of audio streams, while still keep it easy to select chapters in all titles.
- The main window is now resizable.
- Updated Lame library to version 3.97.
- Updated libFLAC library to version 1.1.3.
- Other minor enhancements.

4.1.1 (2006-09-04)

- More accurate calculation on needed disk space.
- Always show audio stream selection combo box, to make it more obviously to change active stream.
- Remember last browsed folders.

4.1.0 (2006-07-12)

- New feature: Added video preview.
- Bug fix: a small part of audio at the end of chapter get skipped in preview mode.
- Added speed meter at the encoding page so that it's more easy to see the processing speed.

4.0.2 (2006-04-22)

- Fixed a bug that caused the program to crash when some DVD title contains no audio stream.
- Fixed a bug that caused silent MP3 output.

4.0.1 (2006-04-18)

- New user interface for step 1. This allows easier selection of chapters in different titles. And all the selected chapters can be previewed/played together.
- Enabled thread reading at background. This brings even faster extracting speed.
- Other minor enhancements.

3.5.1 (2006-02-12)

- Added accelerator keys for bitmap buttons: **Alt+P** for Play, **Alt+U** for Pause, **Alt+T** for Stop, **Alt+>** for Next Chapter, **Alt+<** for Last Chapter, and **Alt+F** for Refresh DVD-ROM, **Alt+W** for Browse.
- Press **Enter** on any button should now get it clicked.
- For DVD disc that doesn't have valid title in it, ignore it instead of showing up an exception error.

3.5.0 (2006-01-05)

- New feature: Added support to FLAC format. Now you can extract to FLAC to save space and get around the 4G size limit of Wave files. It's also possible to save Audio CD Image in FLAC format.
- Improved online-help. Press **F1** in Step 2 will go directly to the detailed help page of selected format.
- Uses less run-time memory than before.
- Updated OGG/Vorbis libraries to version 1.1.2.
- Other minor enhancements.

3.4.1 (2005-11-15)

- When converting to CD, selecting "break tracks by chapter" will now insert 2 seconds silence.
- For best compatibility with old software, use old PCM Wave format for Mono or Stereo wav output.

- Fixed a bug in 3.4.0 that caused skips on some audio stream.
- Added a warning when output wav file is larger than 4G.
- Try to read DVD label and use it as album name when ID3 tag not specified.
- Other minor enhancements.

3.4.0 (2005-11-11)

- New feature: Now all titles can be extracted at once.
- Uses Extensible Wave Format. This allow created multi-channel wav files be played on Windows Media Player.
- All chapters of first title are selected by default.
- Improved normalization speed.

3.3.3 (2005-09-08)

- Implemented full context tooltips to all controls on the user interface.
- Fixed a DLL loading error on Win98.

3.3.2 (2005-08-09)

- Writes adjusted bitrate info into MP3 header, so that the playback time shows up correctly in Windows Media Player.
- Uses user's temp dir for output folder by default.
- Other minor enhancements on UI.

3.3.1 (2005-07-14)

- Fixed a bug which caused Access Violation Exception on some DVD discs.
- Updated OGG/Vorbis libraries to version 1.1.1.

3.3.0 (2005-06-12)

- New feature: Added ripping from single VOB file. This can be used as a workaround when IFO files are missing or contain error.
- Fixed a bug on decoding Mono audio stream to MP3 format.
- Fixed a bug which caused error on LFE channel when decoding DTS to 6 Mono wav.

3.2.1 (2005-05-18)

- Added exception handling. The program is now more robust on not well made DVDs which contain invalid IFO information.
- More accurate time length info.

3.2.0 (2005-04-11)

- Improved DVD reading library. Now reads UDF formatted DVD discs and handles encrypted discs better.
- Downmix 5.1 channel audio to Dolby surround compatible stereo since this is more preferred than plain stereo.

- Fixed a program loading failure caused by DVD information error in IFO files.

3.1.0 (2005-02-23)

- Enhanced MP3 encoding settings. Added LAME presets and provided better support to LAME encoder.
- Loads OGG Vorbis and LAME library only when used.

3.0.2 (2005-01-16)

- Fixed a bug in the audio playback/preview function.

3.0.1 (2005-01-10)

- New feature: Added a CD Image and Cuesheet mode that can convert selected audio into an Audio CD image, which can be imported directly into popular CD burning software like Nero, EAC or CDRWin. Creating an Audio CD from DVD can't be easier.
- Improved keyboard accessibility: All the control items can now be accessed by Tabs; Added several accelerator hotkeys: **Ctrl+A** for select all chapters, **F2** for rename chapter, and **Alt+B** for step back, **Alt+N** for step next, etc.
- Always check the output folder and make sure there is enough disk spaces for result files.
- Other minor enhancements.

2.3.2 (2004-12-02)

- New feature: Added a normalization option which allows you to adjust the volume of audio files to a standard level.
- Always add Wave header for WAV files.

2.3.1 (2004-10-20)

- Now the program keeps all the user settings like Sample Rate, Bitrate, etc.
- Added a "Restart" button to make it easier to start another round of audio extracting. Clicking this button has the same effect as click "Back" button for three times and refresh the DVD-ROM.
- Other minor enhancements.

2.3.0 (2004-10-01)

- New feature: Now you can play/preview the selected chapters before you start to extract.
- Fixed a bug in previous versions which caused skips and pops on some audio streams.
- Updated OGG/Vorbis libraries to 1.1.0 version.

2.2.2 (2004-09-19)

- Added pause/resume function. Useful when you have to break the encoding process for a while to handle something else.
- Resized UI. Allow easier navigation when DVD title contains lots of chapters.
- Enhanced caching buffer. Fixed a hidden bug and now read discs more smoothly.

2.2.1 (2004-09-12)

- Fixed a bug in the resample function.

2.2.0 (2004-09-09)

- Enhanced stream decoding engine. Use less memory and provide better performance and compatibility.
- Added support to 24 bit Wave output (for those Hi-Fi 24/96 players).
- Write correct playback time into m3u playlist file.
- Fixed track number in ID3 tag.

2.1.0 (2004-08-21)

- New feature: Direct DTS audio decoding supported.
- Adjusted channel order for multiple channel Wave file output. Now use default Multi-channel Wave Channel Ordering: Left, Right, Center, LFE, Surround Left and Surround Right.
- Enhanced speed when resampling to different sample rate.
- Other minor fixes.

2.0.1 (2004-08-02)

- Fully support all LPCM formats: any 16, 20 or 24 bit, 48000 or 96000 Hz sample rate, 1 to 8 channels LPCM can be decoded.
- Multi-channel Wave output supported, with an option to save each channel to separate file.
- Multi-channel OGG Vorbis output now possible. Now you can save Dolby Digital 5.1 audio to 5.1 Surround OGG files.
- Update Lame library to latest 3.96.1 version.
- Other minor enhancements.

1.2.2 (2004-07-09)

- Fixed a bug in OGG/Vorbis format that caused the result file be several seconds shorter than original audio.
- New feature: DVD Audio Extractor now shows how much space will be needed for the output files.
- ID3 tags (artist, album) will not be put into output filenames due to user requests.

1.2.1 (2004-06-21)

- Added support to Average Bitrate (ABR) mode for MP3 encoding.
- Fixed a bug which will cause DVD authentication error when using multiple DVD-ROMs.

1.2.0 (2004-05-06)

- Computer Application Studio has moved to it's new website www.castudio.org. Old pages on thunder.prohosting.com are no longer accessible.
- New feature: Win9x/Me systems now fully supported. The program will try to load and utilize ASPI manager (wnaspi32.dll) on Win9x/Me systems.

- The UI now displays well on Win98 and above.
- Update to Lame 3.96.

1.1.6 (2004-03-27)

- Removed original Drive Capabilities tests. Now provides better compatibility with external or virtual DVD/CD drive.
- Fixed a bug happened when converting from 20bit LPCM to 16bit wav.

1.1.5 (2004-03-07)

- New feature: Added reading from file folder mode due to user requests. This also added (limited) support to Win9x/Me systems where DVD-ROMs are not recognized by this software.

1.1.4 (2004-02-02)

- New feature: Allow changing of audio track/chapter names.
- Bug fix: The length of User Name in the register window is too short. Extended to 40 characters.
- Update to Lame 3.95.1.

1.1.3 (2004-01-11)

- Bug fix: "Can not read the selected audio stream." error due to DVD unlocking failure.

1.1.2 (2003-12-27)

- Added direct stream demux function for LPCM, MPEG, AC-3 and DTS audio streams.
- Improvement on decoding speed.

1.1.1 (2003-12-21)

- Added time elapsed and time remaining information during decoding.
- Bug fix: In some rare cases redundant silences get inserted when decoding multiple chapters to single output file.

1.1.0 (2003-12-18)

- Changed chapter selection method from VTS->PGC to Title->Chapter. The new method is more close to the way people watching DVD movies and thus easier to understand.
- Improved DVD reading speed.
- Update OGG/Vorbis libraries to latest 1.01 version.

1.0.1 (2003-11-22)

- First public release.

Chapter 7. Support Information

This section contains user support information. The following documents are in this section:

- [Frequently Asked Questions](#)
- [Contact Information](#)

Other useful links:

- [The official DVD FAQ](#) -- Explains everything about DVD.
- [Hydrogenaudio Forums](#) -- The audio technology enthusiast's resource.
- [Doom9](#) -- The definitive DVD backup resource.
- [VideoHelp](#) -- This site will help you with your movie-files.

7.1. Contact Information

DVD Audio Extractor home page: <http://www.dvdae.com/dvdae/>

Purchase DVD Audio Extractor Online: <http://www.dvdae.com/purchase>

To get noticed automatically when new versions are out, subscribe to [DVD Audio Extractor Announcements](#) mailing list by sending an empty email to: dvdaudioextractor-subscribe@yahoogroups.com.

For technical issues like installation, using the software, feature suggestion and bug report, the best way to get help is to [login to your customer account](#) and submit a support ticket.

For non-technical related issues and business cooperation, please write us email at support@dvdae.com.