

jetAudio 5.2 Manual (Draft...)

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Note: This manual provides you with information regarding the functions of jetAudio. Some information provided in this manual may not be consistent with your jetAudio version. This manual is strictly based on the jetAudio Plus version, therefore please be advised. If you find any flaw or have special request please email us at support@jetAudio.com. We appreciate your advice greatly.

1. Special Feature do jetAudio 5.2

New jetAudio 5.2 is integrated multimedia software which is composed of single compact rack; the previous version was composed of six separate racks. It not only plays various music files but also has other major features such as music CD burning, recording of music files, conversion to other file mode, etc. In addition to these specialized features you can create your own exclusive broadcasting system by connecting jetAudio to jetCast which is provided to you along with jetAudio.

- **Playback features for various Multimedia files**

jetAudio 5.2 not only supports the popular audio files such as MP3, OGG and WMA but also visual files such as AVI, MOV, MPEG, Real Media, DVD VIDEO, etc.. jetAudio is also support for MP3 Pro.

jetAudio's support files:

- ◆ WAV File (Wav)
 - ◆ Mpeg Audio File (MP1, MP2, MP3, MP3U)
 - ◆ MP3Pro Audio File
 - ◆ Windows Media Audio File (ASX, ASF, WMA, WMI)
 - ◆ Windows Media Audio File (Lossless)
 - ◆ Windows Media Audio File (Voice)
 - ◆ MAC Audio File (AIF, AIFF)
 - ◆ Sun Audio File (Au, SND)
 - ◆ Real AUDIO File (RA, RAM, RM, RMM etc)
 - ◆ MIDI File (MID, RIM), IMS File (IMS)
 - ◆ Tracker File (MOD, S3M, XM, MTM, STM, IT, ULT, 669, FAIR, MED, MDL, NST, OKT, WOW)
 - ◆ APE File (Monkey's Audio File Format)
 - ◆ FLAC (Free Lossless Audio Codec)
 - ◆ MPC (MPEG Plus)
- **Single -component rack:** Made into one simple rack by using new integrated GUI.
 - **Making Audio CD:** Can make audio CD from various multimedia files.
 - **Convenient Conversion Feature:** Can convert to most popular file modes from various media files.
 - **Playback feature for digital audio:** Can directly rip data from audio CD and can select various sound effect.
 - **Various Sound Effect:** A Variety of Sound Effect Features is available.
 - **Subtitles:** Can provide subtitles as SMI. Can adjust location, and time, and size of subtitle. Can select a specific channel when video CD is on. This feature is compatible with Karaoke.
 - **Embedded jetMIDI:** Built-in Software Wave Table MIDI Engine.
 - **Skin Support:** Can have any kind of skin according to your choice.

- **Create and Support Synchronized Lyric: Can support the inputting of synchronized lyric in MP3 file's Tag**
- **Support multi numbered channels : Can support more than one channels based on the sound system**

2. Installation / Removal

This chapter is pertaining to installation and removal of jetAudio.

There are two versions of jetAudio 5.2: Pro Version and Basic Version. Therefore, if you currently have existing 4.x extension version you need to download upgrade version. If you do not have 4.x extension version you need to install Basic version.

2-1 Installation

Open up jetAudio 5.2 installation folder. Double click the file (JAD500b1, exe) and go through general procedure of installation.

2-2 Removal

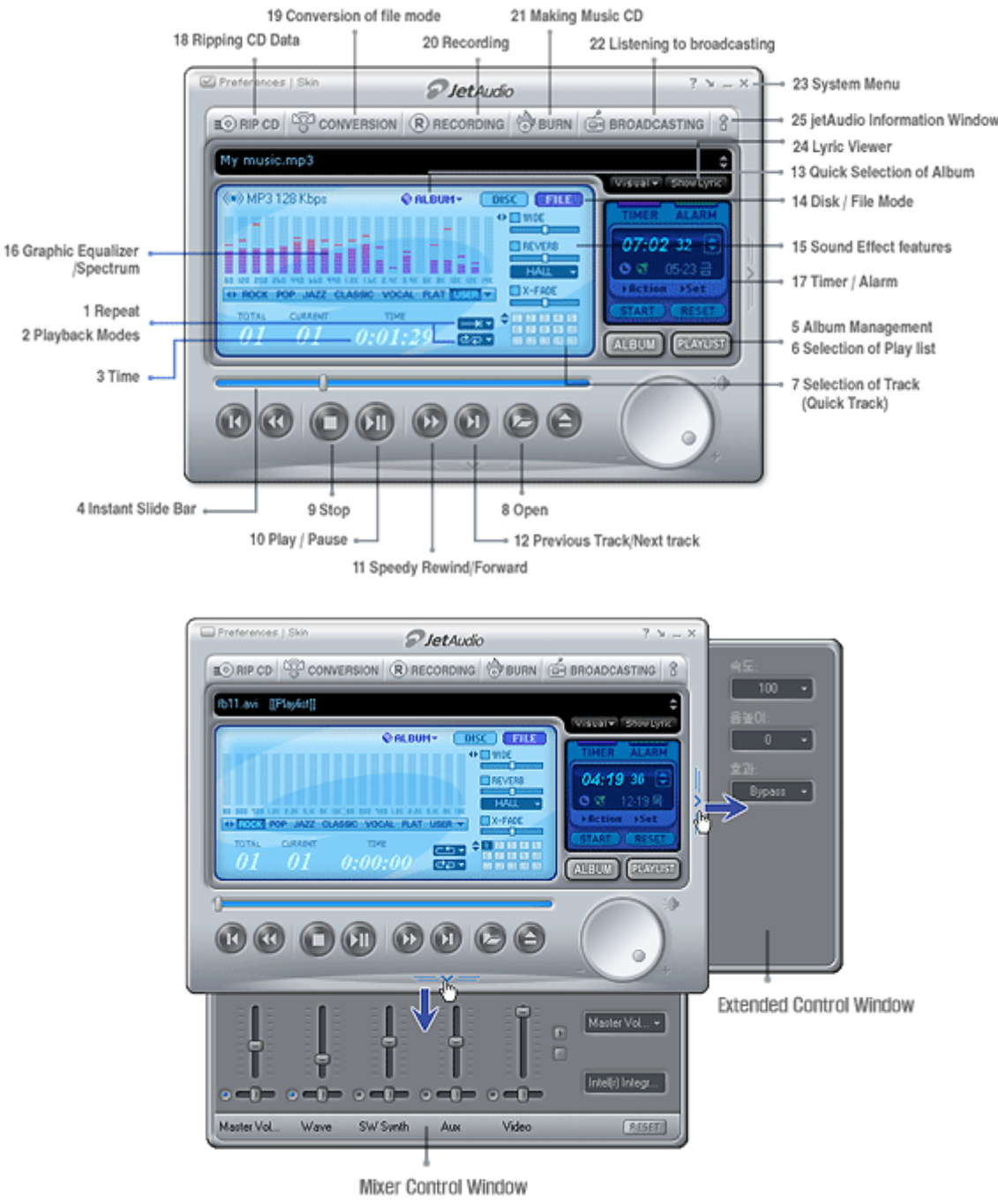
You can remove jetAudio program in the same way that you remove other programs.

[Start]-[Control Panel]-[Program Addition/Removal] and select jetAudio and click Removal. Then you will see the window. Click removal on this window and then the program will be removed successfully.

The folder, in which jetAudio has been installed, and the folders such as jetCDP.sdb, jetWave, JADPlugins.cache file, won't be removed unless you remove the each folder respectively.

3. Parts and Features

This explanation is based on the jetAudio's features on its basic skin (Figure 3.1); only the graphic design of jetAudio's skin can be changed according to your preference; the features on the skin stays the same.



[Figure 3.1 jetAudio Basic Skin]

3-1 Repeat

When you click Repeat button, you will see three choices of Repeat mode: Repeat current song, Repeat at the end of current song and No Repeat.

- You can repeat the song which is currently playing continuously..
- You can finish the currently playing album and then go back to the beginning of the current album and play repeatedly.
- No Repeat Mode plays all the songs in the album in order and stops after playing the last song in the album.

3-2 Playback Modes

When you click Play button you will see two choices of Playback Mode: Normal or Random Play.

- Normal Mode: For playing songs of an album in order
- Random Mode: For playing songs according to your random choice

3-3 Time

When you click Timer button you will see two choices of mode.

- Elapsed Time indicates the elapsed time since the beginning of the playback
- Remaining Time indicates the remaining time for the current playback

3-4 Instant Slide Bar

By clicking and dragging the Slide Bar, you can move to any location in the track which is currently playing

3-5 Album Management

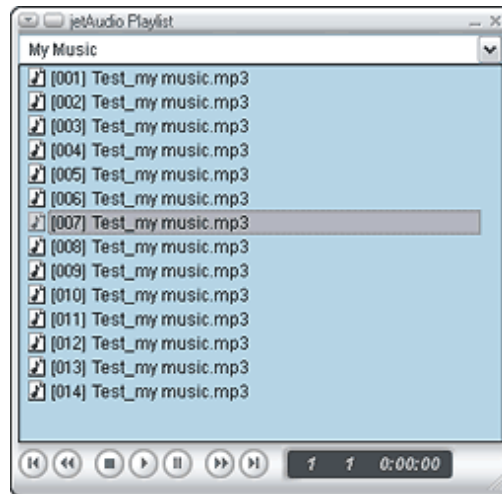
By clicking Album Management button, you can make an album from the multimedia data of audio CD, MP3, or RA. By clicking the right mouse button you can have quick access to the song (sampling of the song) of your choice. This feature makes it much easier for you to manage and make albums. More information is available in Chapter 7.

3-6 Selection of Play list

This feature can be used when you want to switch the current album to a different album quickly.

3-7 Selection of Track (Quick Track) / Play List

When you click Quick Track button, you will see the list of songs in the current album. Then by clicking a song of your choice, the song will be played. Refer to Chapter 7-10 regarding Playlist.



[Figure 3.2 Playlist Window]

3-8 Open

When you click this button, you will see the dialog box in which you can choose a song.

Tip) JetAudio does not have a separate Open Window, therefore, you need to input URL in the file name input section of Open Window.

3-9 Stop

You can stop the currently playing song.

3-10 Play / Pause

You can play the songs in Play list or in an album. When you click again, the song may pause for a moment.

3-11 Speedy Rewind / Forward

You can rewind or forward the current song quickly.

3-12 Previous Track / Next track

You can rewind or forward the current song quickly

3-13 Quick Selection of Album

You can not only able to switch from Album to Album and from Album to Play list quickly, but also able to make a new album.

New Album...	Ctrl+N
New Album from Folder...	Ctrl+B
<hr/>	
Properties of this Album...	Ctrl+R
Remove this Album	
Refresh	F5

[Figure3.3 Quick Album Selection Menu]

- New Album: Make a new album.
- New Album from Folder (Selection of folder): Make existing folders into an album.
- Properties of this album: Displays the information of an album.
- Remove this album: Delete one or some selected albums
- Refresh: updated information of an album will be displayed.

Refer to Chap 7-3 for information related to Making Album.

3-14 Disc / File Mode

You can select Play mode. (Disc or File)

3-15 Sound Effect features

jetAudio 5.2 has various sound effect features. Please refer to “**Sound Effect Section**”

3-16 Graphic Equalizer / Spectrum

Spectrum will be displayed when music CD, Mp3, or MIDI is on. User Mode is available for you to select the sound effects such as rock, pop, Jazz, classic, vocal and flat. Please refer to Section5 “**Variety of Sound Effect Features**” for detailed information.

3-17 Timer / Alarm

In general, it shows the current time but you can adjust it to activate at a specific time. Please refer to Section 6.

3-18 Ripping CD Data

You can take out the data in a music CD and convert it to a different file mode and store it. Please refer to Section 9.

3-19 Conversion of file mode

This feature is used to convert the existing file mode to a different mode: for example, conversion from Mp3 to OGG mode or other WMA mode. Please refer to Section 10.

3-20 Recording

This feature is used to make MP3, RA, WAV file. Please refer to Section 11.

3-21 Making Music CD

You can make music CD from an existing music file. Please refer to Section 12.

3-22 Listening to broadcasting

Move to <http://broadcast.jetAudio.com>, which is broadcasted, from jetCast. Please refer to Section 13.

3-23 System Menu

- Exit: Exit from the current program
- Minimize: Minimize the size of the program and it will be indicated in the Task Bar.
- Move to Tray: Minimize size of program and the icon will be registered on the Tray Bar. Refer to Chapter 4-2.

3-24 Lyric Viewer

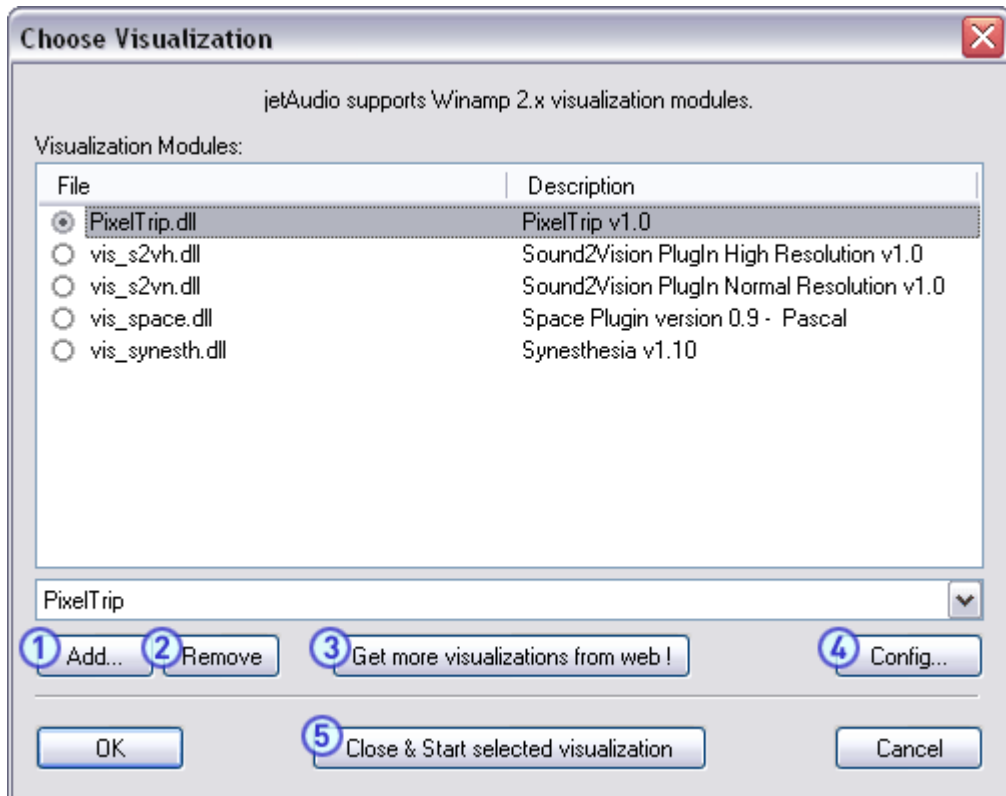
Availability of lyric can be adjusted. The method for lyric input is stipulated in Chapter 7-11 (Editing Tag)

(Note) Lyric window will be activated only when lyric is available.

3-25 Visualization Selection / Running

This particular feature supports visualization of music. The visualization module of winamp 2.X is compatible with jetAudio.

- Start/Stop Visualization: Start or stop selected visualization module.
- Configure Visualization: Figure 3.4



[Figure3.4 Visualization Setting Window]

- (1) Add: Can select and add visualization module.
- (2) Remove: Can remove selected module
- (3) Visualization Download form Web: Can search a particular visualization module by connecting to <http://www.jetAudio.com/products/jetAudio/visual/>
- (4) Configuration: If visualization module supports configuration, Configuration Window will be displayed.
- (5) Close & Start Selected visualization: Without pressing Start button, the visualization will start immediately after closing Window 3.4.

(Note) Depending on visualization module, certain module is incapable of supporting DirectX; therefore, this kind of visualization module may affect operation of jetAudio.

3-26 jetAudio Information Window

Displays jetAudio's Information Window. This window also has browser feature.



- Going Backward: If there is a previous page, goes back to that page.
- Going forward: If there is a next page, goes forward to that page.
- Refresh : Re-view the current page
- Information: Can take a look at the information provided by jetAudio.
- Go to jetCast Home Page: Move to jetCast Home page.
- URL input window: After completing the input, the designated page will be displayed.

3-27 Sound Enlargement Control window

This particular feature accentuate the sound effect of a file which is to be played.

- Speed: Can adjust the speed of the sound without changing key; the adjustment rate of the speed is between 50% to 200%.
- Pitch: Can adjust the key of a sound between the value of -12 and 12.
- FX Sound Effect: Can add special effect to the currently playing sound. The default value is BYPASS, which means that no sound effect will be added to the original sound.

3-38 Mixer Control window

JetAudio's Mixer Control Window is identical with Window's Volume Control window. Even if a multiple number of sound cards have been installed, each sound card's mixer preference can be adjusted respectively.

3-38 Open CD-Tray button

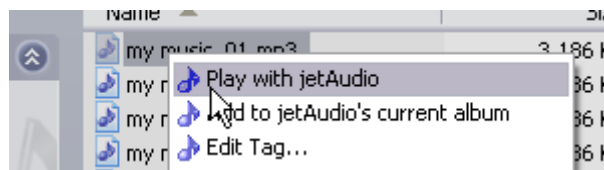
Can open the CD drive tray (Currently selected driver).

4. Basic play mode.

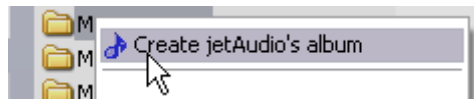
4-1 Basic playback

There are several basic playback modes.

- Simply by double clicking, you can play file of your choice; in order to do this you need to connect jetAudio and the file type in the Installation Window (2.5) before you start.
- You can click Open Button and select the file of your choice to play.
- One of jetAudio's special features, Album Management Feature, enables you to play repeatedly or select specific music genre by registering a file in any album of your choice. The detailed instruction is available at Album Management Chapter.
- By clicking right mouse button in the browser you can also play a file. If you click right mouse button on the media file, You can see Figure 4-1 will be displayed. Click the appropriate menu to play jetAudio.



[Figure 4.1 jetAudio Context Menu1]



[Figure 4.2 jetAudio Context Menu 2]

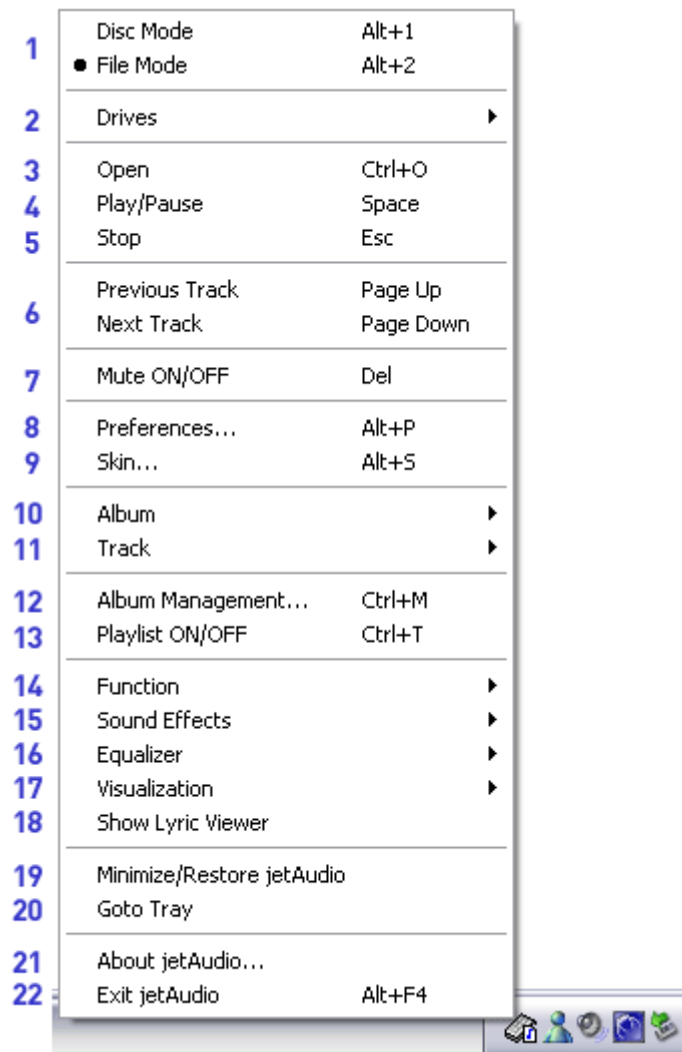
4-2 jetAudio Icon on Try Bar

jetAudio Tray Bar:4.3



[Figure 4.3 트레이 영역의 동작]

Click on jetAudio Icon on the Tray Bar using right mouse button, then the menu will be displayed. The icon menu on the Tray Bar is summarized version of JetAudio's features on the Basic Window.



[Figure 4.3 Menu of jetAudio's Tray Icon]

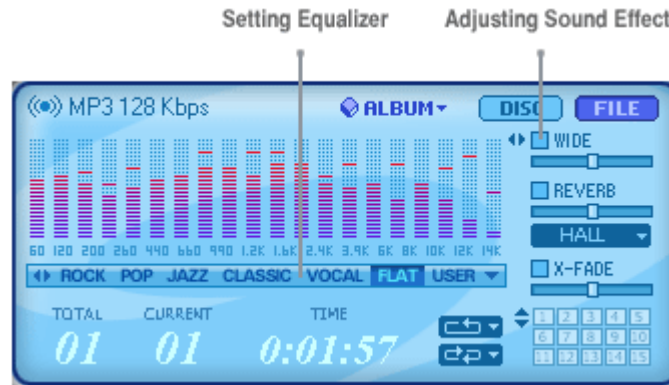
1. **File/Disc Mode:** Convert file or Disc mode.
2. **Drivers:** If there are multiple CD related drivers, you can select a driver for playback.
3. **Open:** Displays the preference window to select a file to be played.
4. **Stop:** Stops the currently playing file.
5. **Play/Pause:** Can play and pause
6. **Previous Track/Next Track:** Moves to previous or next track.
7. **Mute ON/OFF:** Can turn on or off the sound..
8. **Preferences...:** Displays jetAudio Preference Window.
9. **Skin...:** Shows Skin Window. Refer to Chapter 8-5.
10. **Album:** Shows the registered album and the list in that album.
11. **Track:** Shows the playlist of selected album in the order.
12. **Album Management...:** Shows Album Management Window.

13. **Playlist On / Off:** Can hide or display playlist..
14. **Function:** You can run jetAudio's functions such as Ripping CD, File Conversion, Recording, CD-Burning.
15. **Sound Effects:** Sound Effect can be turned on and off from Tray menu based on the value designated by the default skin preference. So far, the only way to turn on and off the sound effect was from the Default Skin Preference only.
16. **Equalizer:** You can select and change Equalizer setting.
17. **Visualization:** Can select and activate visualization module.
18. **Show Lyric Viewer:** If lyric information is available in the file, the lyric window will appear on the screen automatically.
19. **Minimize / Restore jetAudio:** Can adjust jetAudio :minimize or return to original state
20. **Go to Tray:** Minimize jetAudio to move it Tray zone.
21. **About jetAudio:** Information regarding updated version will be displayed.
22. **Exit:** Exit from jetAudio.

5. Various Sound Effects

You can enjoy various sound effects played from JetAudio 5.2.

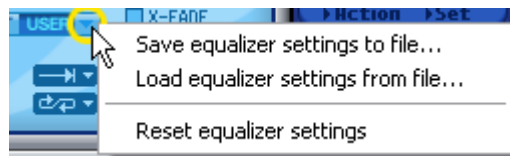
5-1 Equalizer Configuration



[Figure 5.1 Sound Effect Configuration Window 1]

You can set equalizer in the Figure 5.1. Select the mode from 13 choices (ROCK, POP, JAZZ, CLASSIC, VOCAL, DANCE, HEADPHONE, BALLAD, RAP, HEAVY METAL, FLAT, USER). If you want your exclusive sound, USER mode can be used as follows.

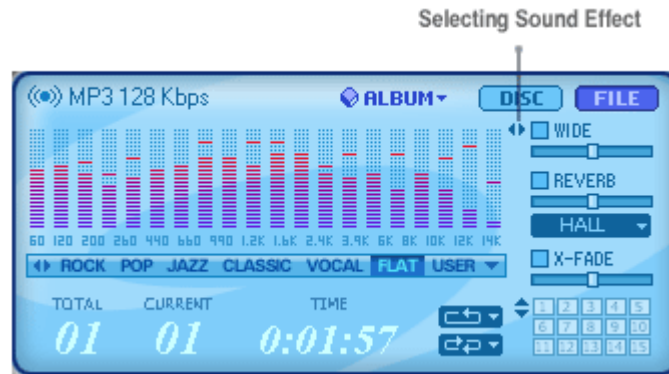
- Select USER Mode then you will see a window as Flat Mode. Adjust the wave level by mouse. Once you are done with setting, the adjusted level will be memorized from there on and whenever you select User, the adjusted level will be activated automatically.



[Figure 5.2 Save / Read Equalizer values menu]

- When you click right arrow in User mode, Figure 5.2 will be displayed. On this menu, you can store equalizer value or can read the current value of equalizer.
- Restore Default Value: The current value of equalizer will be restored to original default value.

5-2 Adjusting Sound Effect



[Figure 5.3 Sound Effect Configuration Window 2]

In the Figure 5.2, select a check box to activate a specific sound effect and move the slide bar to adjust the level. When you click #3 Button on Window 5.3, you can see a window for setting X-bass and X-Surround Sound Effect.

- **Wide Effect:** Can improve space perception of sound.
- **Reverb Effect:** Provides a rich and full sound and can be selected from four modes; Hall, Room, Stage and Stadium
- **X-Bass Effect:** Low Frequency sound can be emphasized.
- **X- Fade Effect :** Sound can be overlapped to a certain point to avoid interruption in the flow of music.

5-3 Multi Channel Support:

Can support a multiple number of channels bases on the selection on system preference and X-Surround Button.

- **X-Surround:** can support a multiple number of channels based on the selection on jetAudio's Preference window. The slide bar adjusts delay between frontal speakers and rear
- **Speakers:** The detailed information is available at Chapter 8-1-2

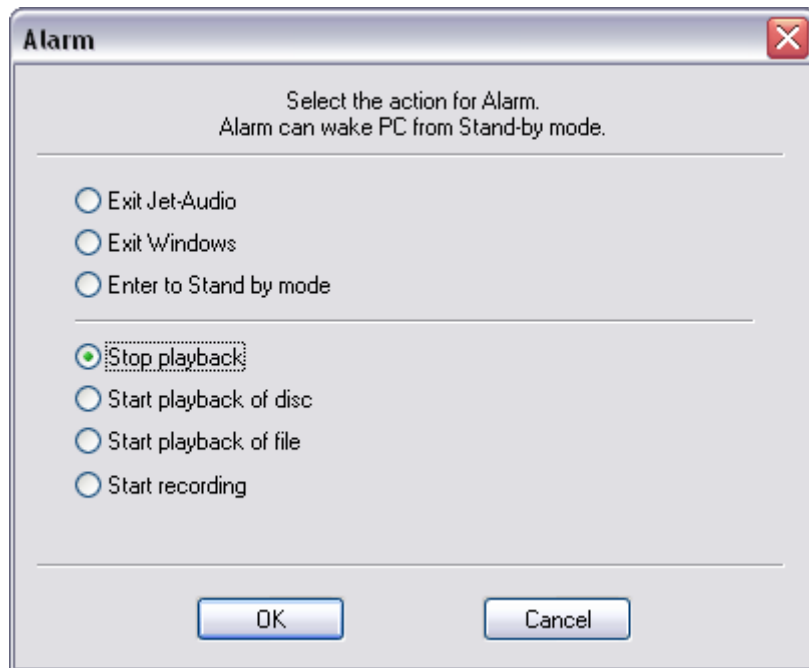
6. Alarm and Timer

By reserving time on Timer or Alarm, you can activate jetAudio at any time.



[Figure 6.1 Timer / Alarm]

Select Timer or Alarm and click Action button then you will see Window 6.2.



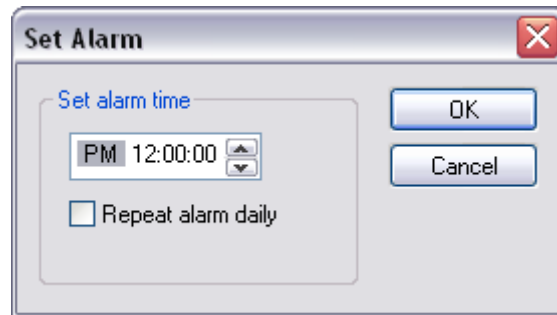
[Figure 6.2 Alarm Action Setting Window]

The action window for Timer and Alarm is identical. Selection modes are as follows

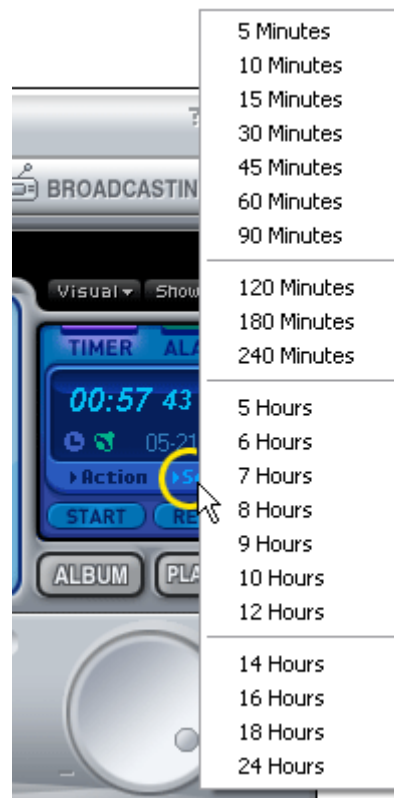
- jetAudio Exit
- Window Exit: **If your PC is not ATX board, this won't be activated.**
- Energy Saving Mode
- Stop the currently playing song
- Play CD or DVD, or play specific file

When you select "Start Playback of File", the songs in the currently selected album will be played. If you are done with the selection, click Set button then the selected time will be indicated (Refer Figure 6.4). You can also adjust the timer by moving the arrow. For Alarm setting however, you can select the time on Window by clicking Set button. Then Start Button to activate Alarm at a specific time. (Refer Figure 6.3)

(Note)Some PCs are not equipped with Energy Saving Mode or Automatic Power Off mode therefore you need to check this before you activate these modes. Please be aware that Timer is not as accurate as clock.

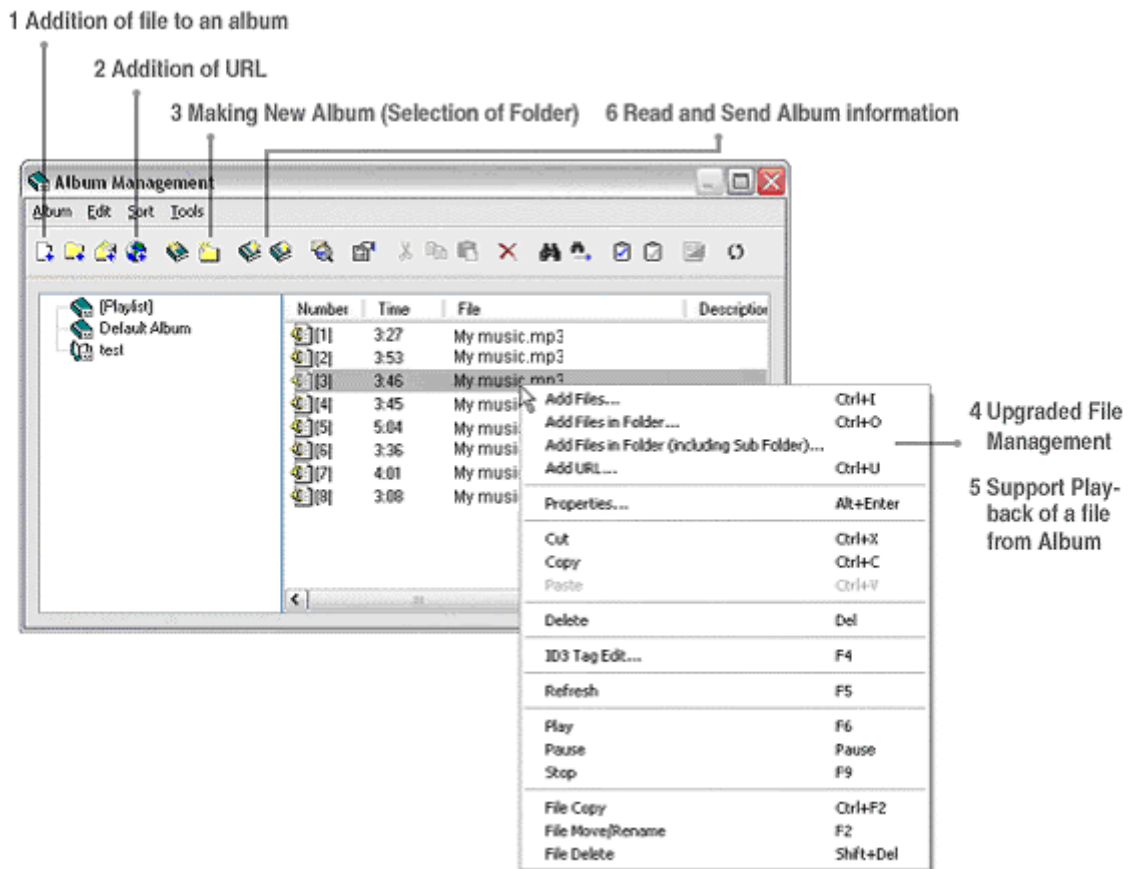


[Figure 6.3 Alarm Time Set window]



[Figure 6.4 Timer set time Menu]

7. Album Management



[Figure 7.1 Album Management Window]

Album Management Window is divided into two sections (DISC, FILES). Each album can be managed separately. When you click Album Management, Figure 7.1 window will be displayed and you can see currently registered albums on the left section of the window and a list of songs in the selected album on the right section.

7-1 Addition of file to an album

To add a file to an album, click ALBUM and ADD FILES then, start adding files. You can multi-select files by clicking Shift or Ctrl key. By clicking Add to List button, all the files in the selected folder can be added.

If you select any file from Windows Explorer and move it to JetAudio's main window or Album Management Window, the file will be automatically registered (drag and drop function).

- **Add each file:** By opening Dialog Box, you can register songs one by one to make an album
- **Add All file:** All songs in a folder will be registered except the sub-folders
- **Add all files including the sub-folders:** All the songs in a folder and sub-folders will be registered in an album

7-2 Addition of URL

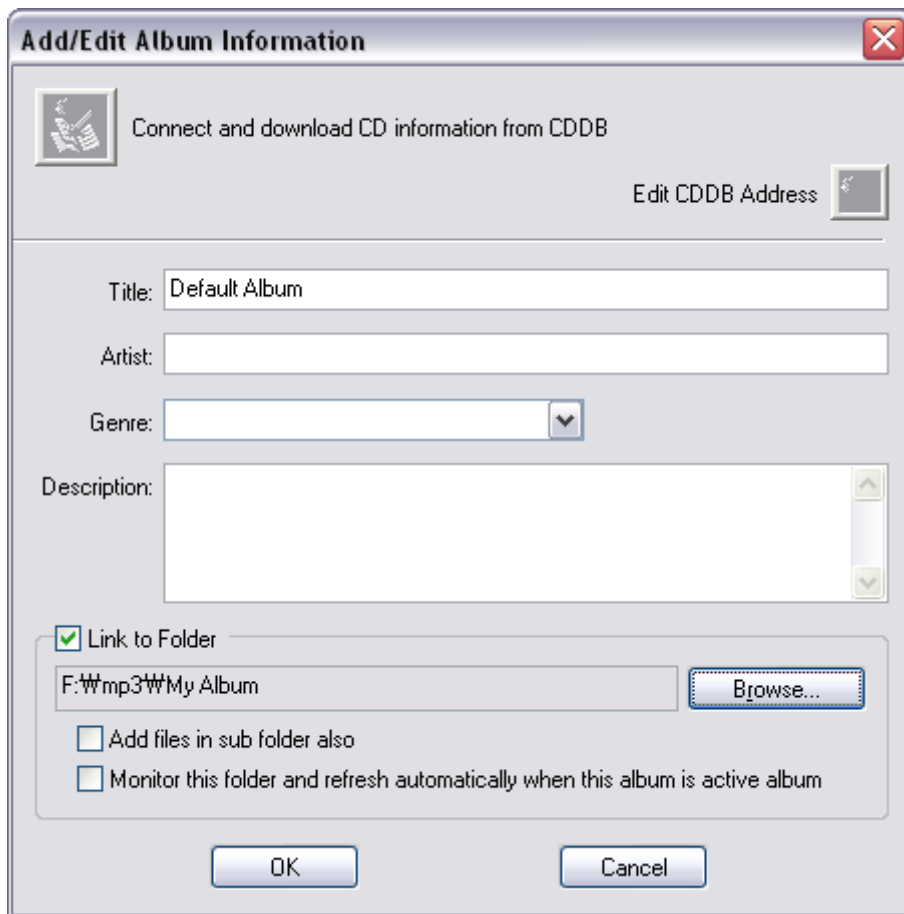
You can make an album for URL addresses based on the internet stations; you can listen to broadcasting selectively if you input the appropriate information of the broadcasting station of your choice beforehand.

7-3 Making New Album (Selection of Folder)

There are 4 ways to make album: (1) By using Album Management Window (2) By using Playlist window (3) By using Speed Selection Album button (4) Using right mouse button at Explorer .

- By using Album Management Window: Select ALBUM-NEW ALBUM then select the folder which is to be made into an album
- By using Playlist window: Refer to Chapter 7-10 related to Playlist features.
- By using Speed Selection Album button: Refer to Chapter 3-13
- By using right mouse button at Explorer: Refer to Chapter 4-1

When you select one of above four methods, figure 7.2 as below will be displayed.



[Figure 7.2 Add / Edit Album window]

- Album Title: Input the title of the new album
- Artist: Input the name of the singer.
- Genre: Select the music genre.
- Description: Input additional data if necessary.
- Link to folder: Can designate a folder as an album.
 - ▷ Add file in sub folder also: Can include the selected folder's sub-folders also.
 - ▷ Automatic monitor/renew: Monitors the selected folder and if there is new file or folder, it will be added automatically.

(NOTE) To bring in data from CDDB / Edit CDDB address: Can only be activated at Disc mode.

7-4 Improved File Management

You can Copy, Move, and Cancel any song or data from Album Management Window. Select songs in album then click right mouse button and click Tool for an easy start.

7-5 Support Playback of a file from Album

You can have an access to a music (sampling) while working on albums; select song or data and click right mouse button and click Tool.

7-6 Read and Send Album information

You can extract Play list file (*.M3U, PLS) from most MP3 player by Read / Send and make it into a jetAudio album. The reverse mode is also possible; change jetAudio album file to Play list file and store it. These two features can be activated by clicking the buttons such as Album, Read or Album, Send.

7-7 Move file to different Album

After Copy or Cut from current album, then Open up different album and Paste.

7-8 Upgraded Features in making new album

Can support albums with same names and long names (32 or longer characters)

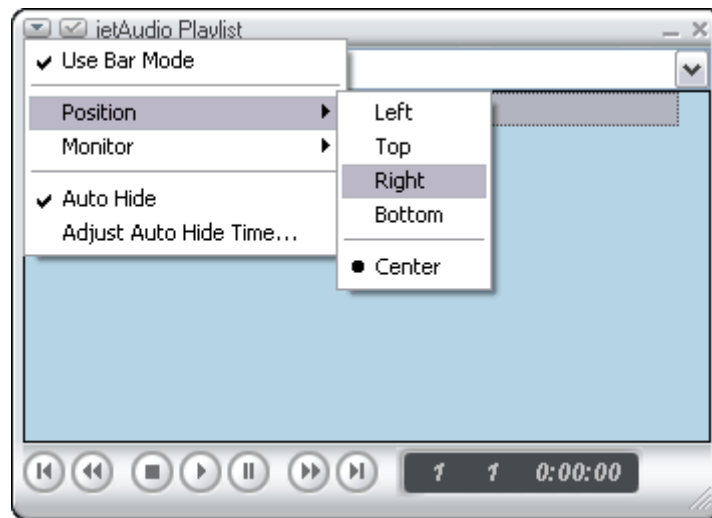
7-9 Search/Mix/File Inspection

By clicking Search, you can find a specific word or sentence in the album, and by clicking Mix, you can change the order of registered files. File Inspection allows you to inspect the current files and update the data in the file.

7-10 Playlist Window

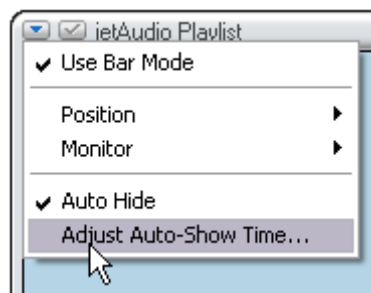
This window displays a currently playing playlist. This list can be found on one of the corners of your window from BETA2 version.

- Monitor: if you are using more than one monitor, you need to designate one specific monitor to place a playlist.
- Location: Decide where to place playlist on the designated monitor.
- Automatic Hide: Automatically hides the playlist.
- Time for Hide: Decides how long the playlist may be hidden.

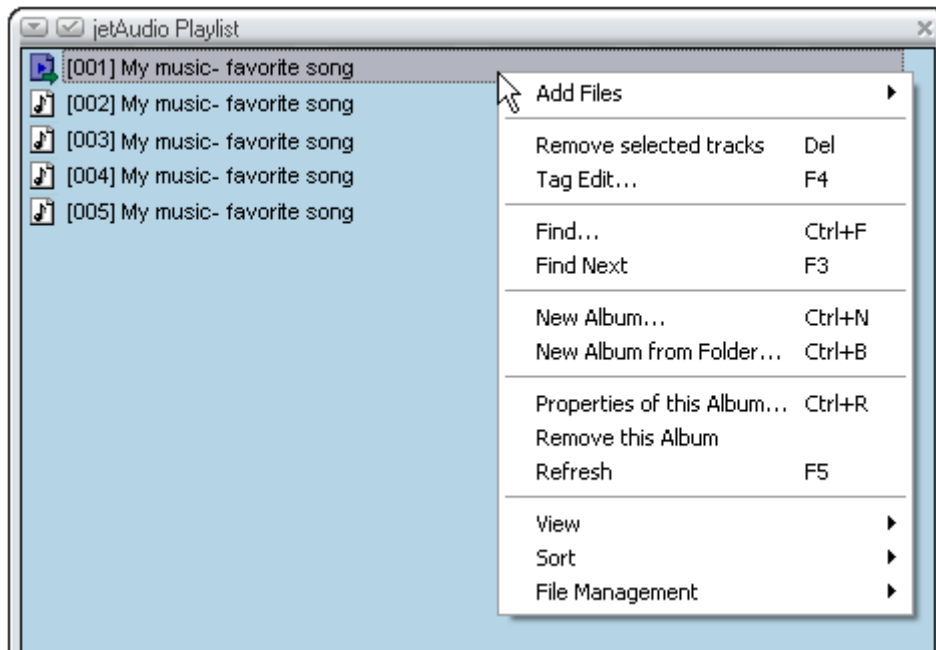


[Figure 7-3 Playlist window Position setting]

When you click right mouse button on the Playlist window, the menu you see on figure 7.5 will be displayed. The functions of this particular menu are identical with the functions in Chapter 7-3, (Making Album)

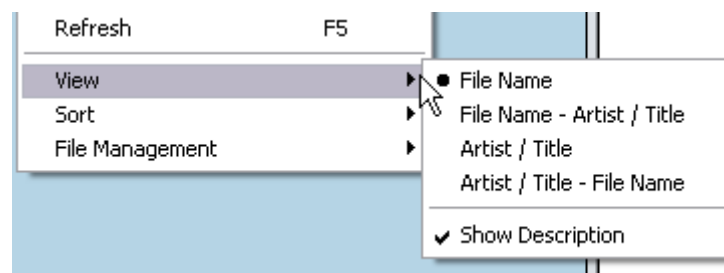


[Figure 7.4 preference widow for automatic hide time]



[Figure 7.5 Playlist Menus]

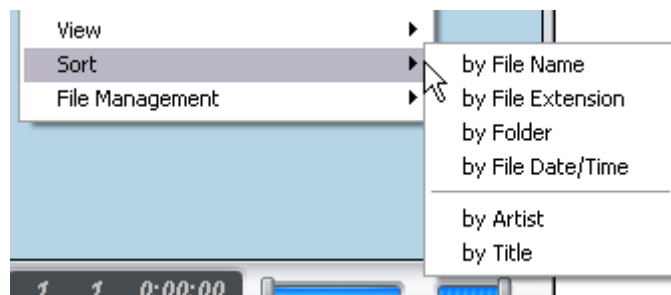
- (1) **Add Files:** Add new songs to currently playing album.
- (2) **Remove selected tracks:** Selected track will be removed from the list.
- (3) **TAG Edit...:** Tag Editing: If the file format is identical with Tag supporting format, you can input any data to each file. Refer to Chapter 7-11 (Tag Editing) for further information.
- (4) **New Album...:** Makes new Album
- (5) **New Album from Folder...:** Makes existing folder into an album
- (6) **Properties of this Album...:** Displays data in the album
- (7) **Remove this album:** Removes the current album
- (8) **Refresh:** Brings in updated information of an album.
- (9) **View:** File of playlist will be classified into four categories as shown in Figure 7.6.



[Figure 7.6 Playlist View Menu]

- ▷ File Name
- ▷ File Name-Artist / Title
- ▷ Artist / Title
- ▷ Artist / Title-File name
- ▷ Show Description

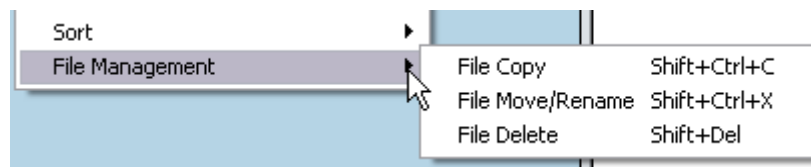
(10) **Sort:** Designate sort method of playlist



[Figure 7.7 Playlist Sort Options]

- ▷ In the order of file names
- ▷ In the order of Extension names
- ▷ In the order of folder names
- ▷ In the order of file date and time
- ▷ In the order of musicians' names by using the tag information on musicians
- ▷ In the order of titles: Based on the title specified on tags

(11) **File Management:** Files can be managed from Playlist with ease. (Refer to Figure 7.8)

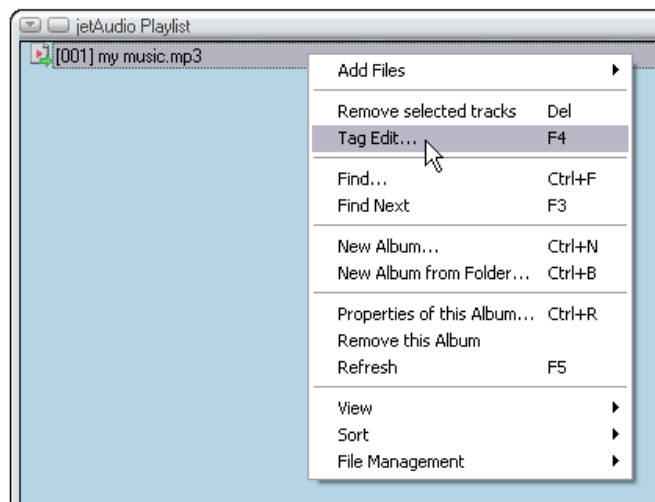


[Figure 7.8 Playlist File Management Menu]

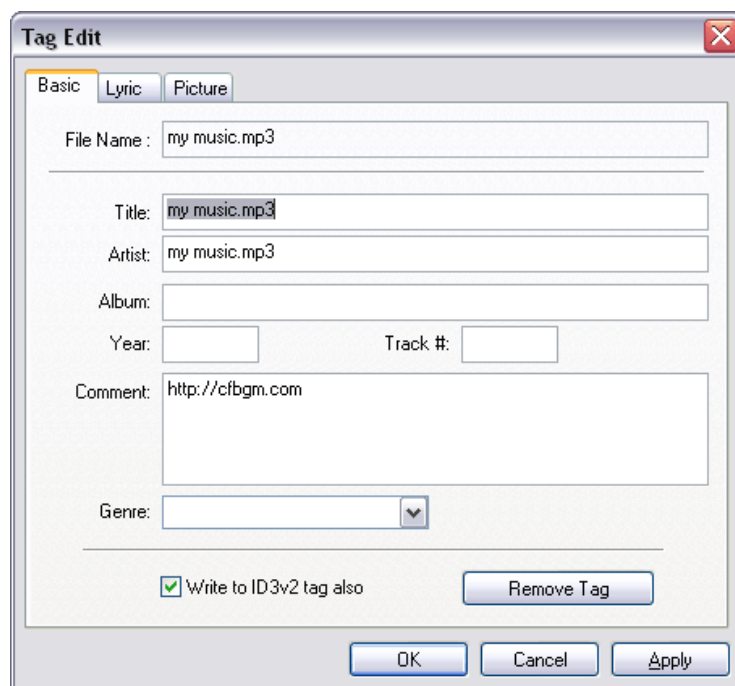
- ▷ File Copy: A particular file in playlist can be copied into specific folder.
- ▷ Move File/Change Name: A file in a selected list can be moved and its name can be changed.
- ▷ Removal of File: Removes selected files. The removal will be conducted physically, therefore, you need to be cautious.

7-11 Tag Editing functions

If it is tag supporting file, editing and inputting can be done at jetAudio. There are two kinds of lyric: synchronized lyric and general lyrics. For general lyric, you need to input the data on TAG Editing Window, or there could be a separate text file format to work on. On the other hand, Synchronized lyric is produced through Lyric Maker of jetAudio. This particular lyric includes time information also, therefore, the lyric will be displayed along with the song based on the beat as Karaoke.



- **General**

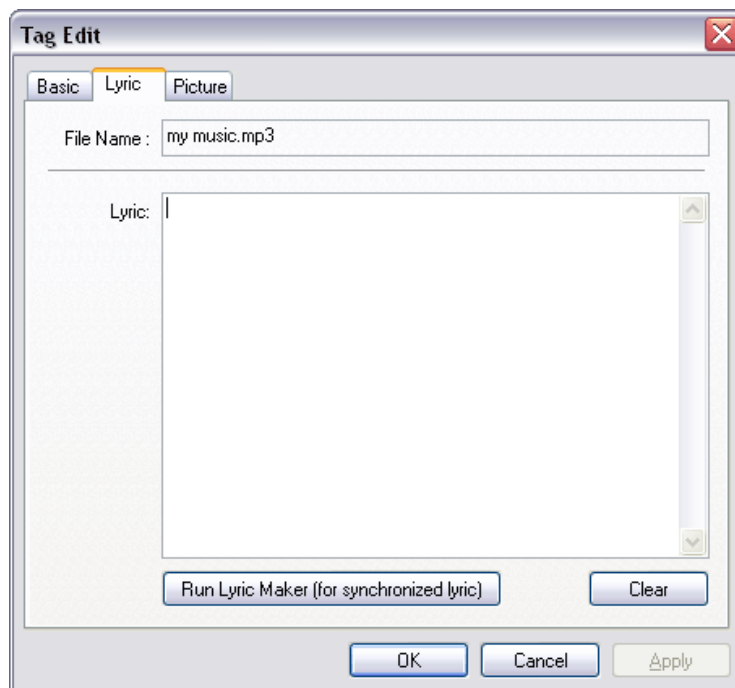


[Figure 7.9 TAG Edit window 1]

- ▷ Title / Artist / Album / Year / Comment / Genre: Input all music data for music
- ▷ Delete Tag: Delete Tag Information.
- ▷ ID3V2 uses extended tag format. When you select this function, you can move to Figure 7.6 and figure 7.7 in case of mp3 file.

- **Lyric**

Inputs lyric: If lyric reader of jetAudio has been activated, lyric will be displayed automatically.



[Figure 7.9 TAG Edit Window 2]

* Run Lyric Maker (for synchronized lyric): Refer to “Appendix 2. Lyric Maker”

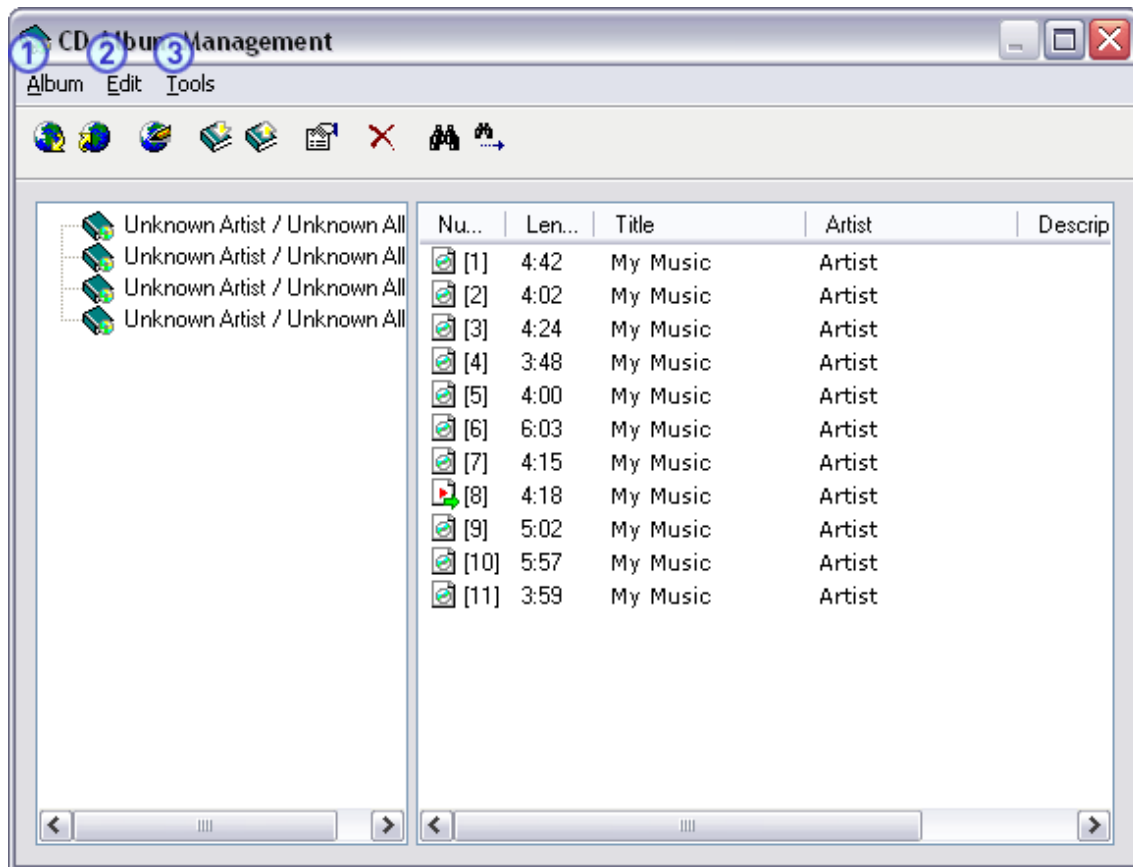
- **Picture**

You can insert Figure. (support BMP, JPG mode)



[Figure 7.10 TAG Edit Window 3]

7-12 Album Management at Disc Mode



[Figure 7.11 Album management in DISC Mode]

(1) Album

- Read From CDDB: Brings CD data from designated CDDB
- Submit to CDDB Server: If CD data is not available at CDDB, then you can send the CD data to CDDB server. You may need to input your email address and this input is to inform you later on whether the data has been successfully sent or not.
- Reading CD-TEXT data: If CD-TEXT data is available you can read CD-TEXT (For this CD-Rom drive must support CD-Text)
- Export
 - ▷ Send out as CDPlayer.ini
 - ▷ Send out as file
- Import (Bring-in)
 - ▷ Bring in from Cdplayer.ini

- ▷ Bring in from a file
- ▷ Album data of existing jetAudio's 4.x version
- Edit CDDB Server URL: Modifying CDDB server information: can select CDDB server. freedb.jetAudio.com is available on jetAudio site.
- Closing: Closes the current album management window.

(2) Editing

- Properties: Add or modify album data
- Delete: Removes selected album
- Find: Searches album or song title
- Find Next: Search Next, This is for continuation of further search

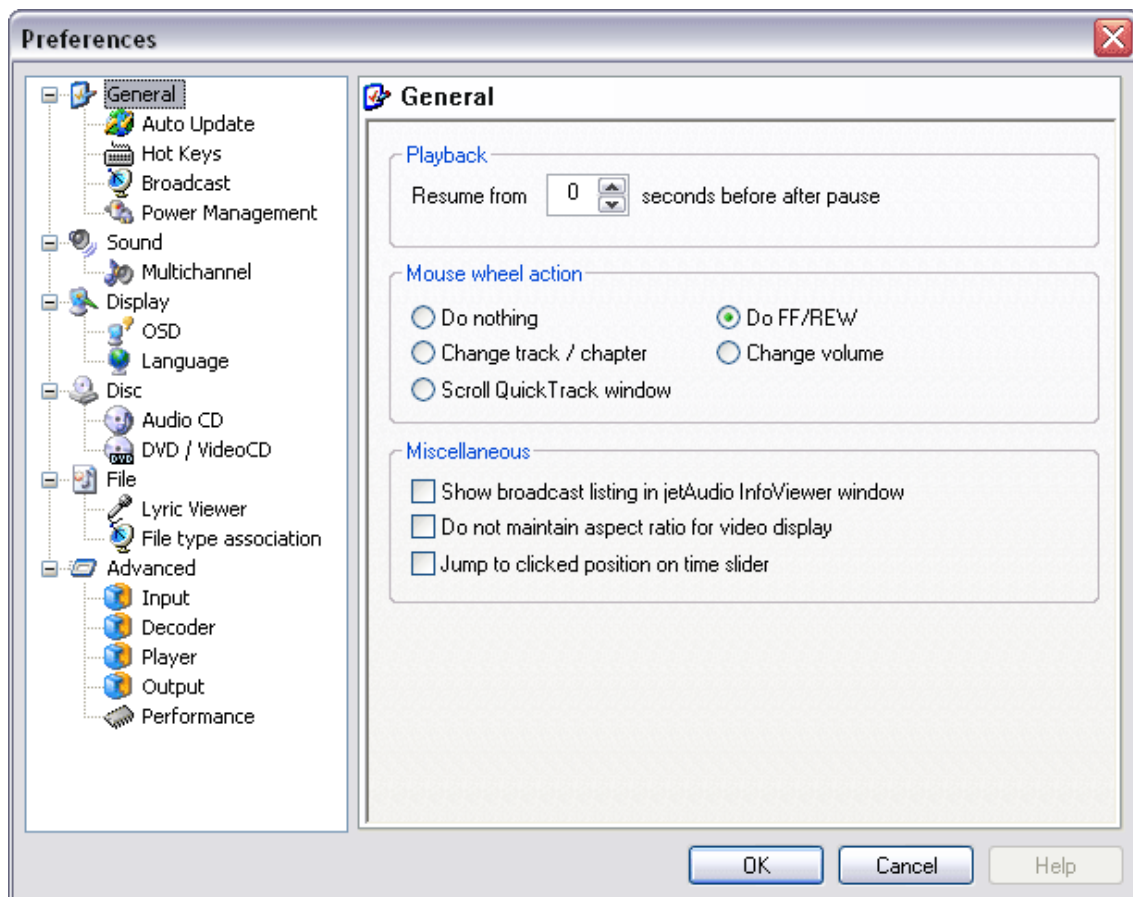
(3) Tools

- Play: Plays selected tract
- Pause: Pauses for a moment
- Stop: Stops playing
- Previous Track: Plays previous track
- Next Track; Plays next track

8. Configuration / Skin

This is a general Preference window of jetAudio. As you can see in Window 8.1, the window can be divided mainly into two sections; one section is file and CD related and the other is disc related such as DVD. In Disc Preference, you can select Audio CD or DVD and in File Preference, you can select file connection modes.

8-1 General Preference



[Figure 8.1 jetAudio General Preference window]

Figure 8.1 is a general preference window of jetAudio

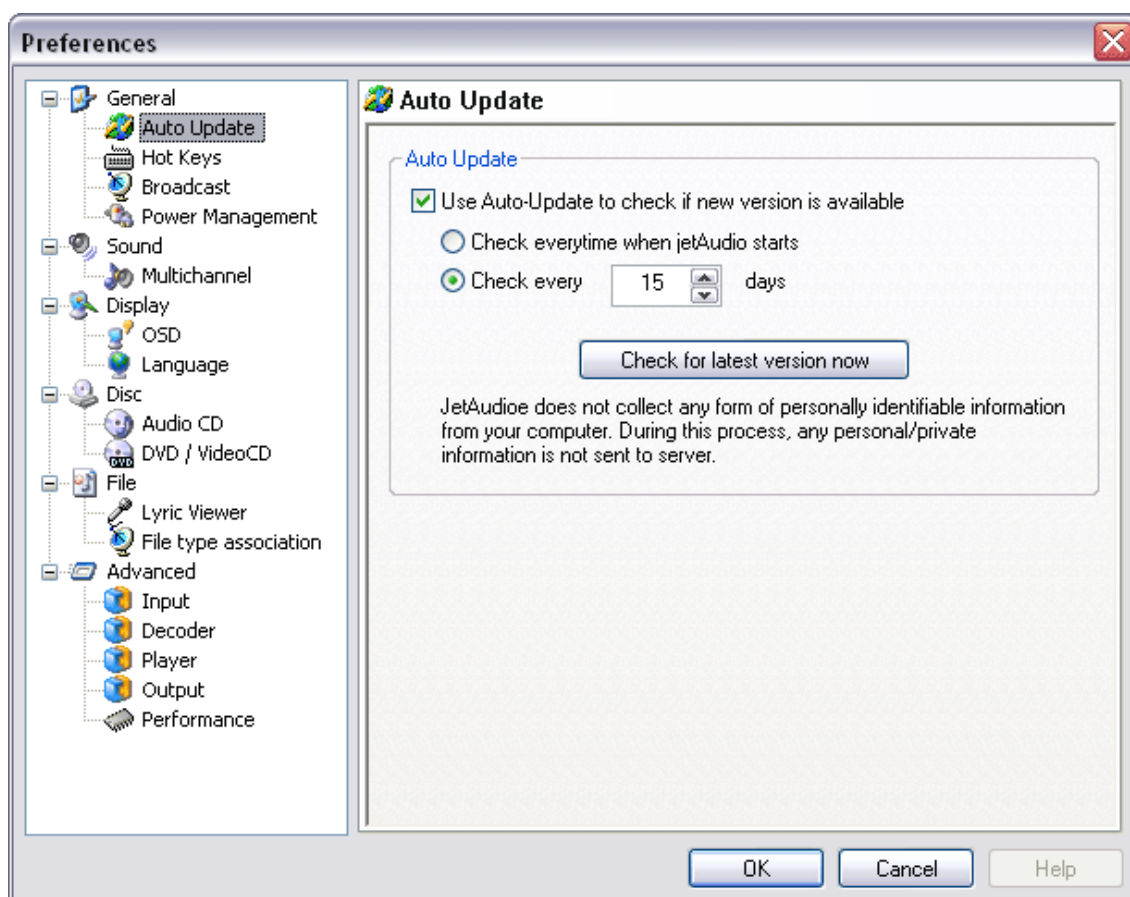
1. Playback: During the playback of a file, if you click Pause, the file will be moved forward or backward slightly so that you can have the feeling of continuity without interruption.
2. Wheel Mouse: Can select wheel modes of Mouse wheel
 - Do Nothing: No selection may be made.

- Go FF / Go Backward: By turning the wheel you can move forward or backward.
- Change track / Chapter: You can move to previous or next playlist of the current playlist.
- Change Volume: Can adjust the volume by turning wheel.

3. Miscellaneous:

- Show Broadcast list in info Viewer: If you install this mode, the playlist of a station will be displayed on jetAudio's Information Window.
- Do not maintain default ratio for video display: The size of video screen can be adjusted according to your preference regardless of default value.
- Jump to clicked position on time slider: Can jump to a position on the time slider

8-1-1 Auto Update.



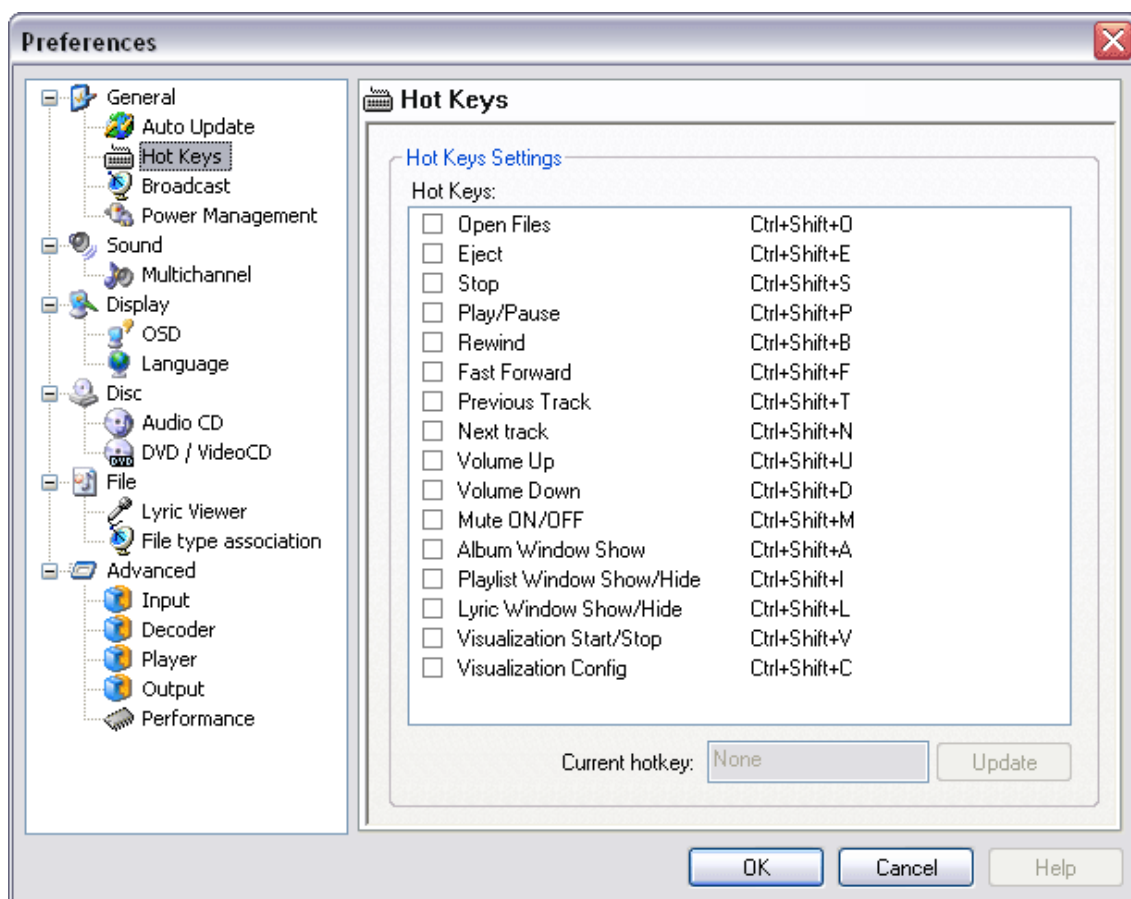
[Figure 8.2 jetAudio General-Auto Update Preference window]

This Auto Update function enables you to inspect updated information of jetAudio.

1. Inspection at every activations of jetAudio: Whenever jetAudio is activated, the information of the new version will be displayed on jetAudio's web site automatically.
2. Reserve Regular Inspection Period: By reserving the regular inspection period beforehand, you can view the updated information of jetAudio from its web-site on a regular basis.

8-1-2 Hot Key

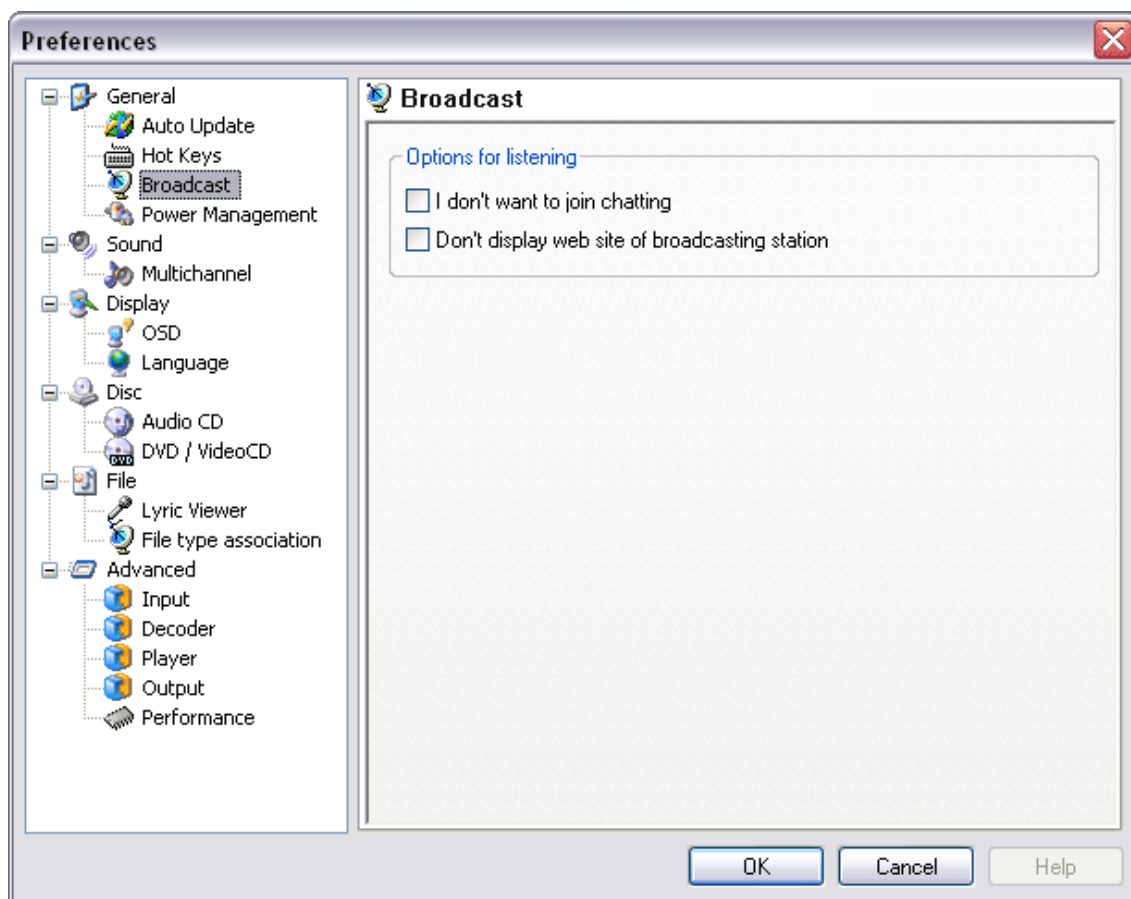
Hot key can be selected exclusively just for jetAudio on window system. Select your preference and check Hot key and then press Confirm button to activate Hot key.



[Figure 8.3 jetAudio General-Hotkey Preference window]

8-1-3 Broadcast

Preference for listening to broadcasting

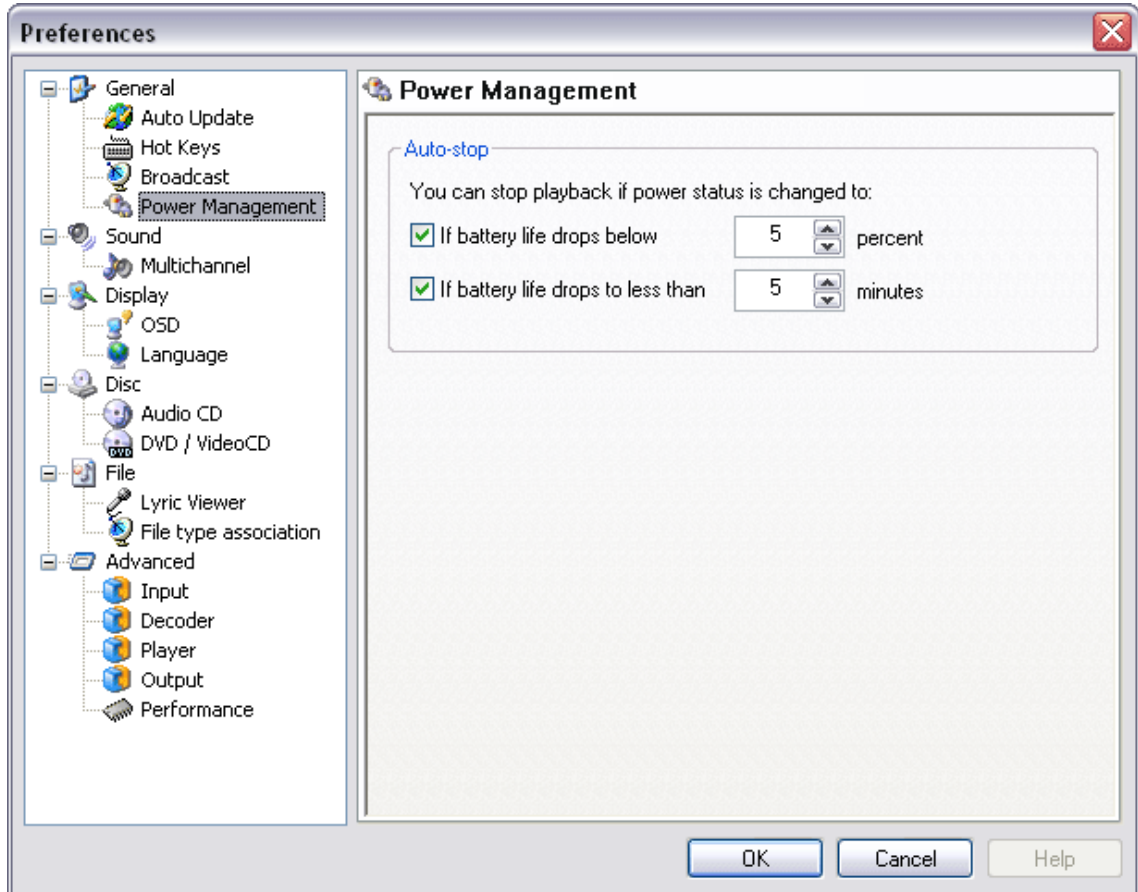


[Figure 8.4 jetAudio General - Broadcast Preference window]

- ▷ Don't want join chatting: At the time of Connection to broadcasting station, chatting room will not be activated.
- ▷ Don't display web site: Even if the broadcasting station has its web page, it will not be displayed.

8-1-4 Power Management

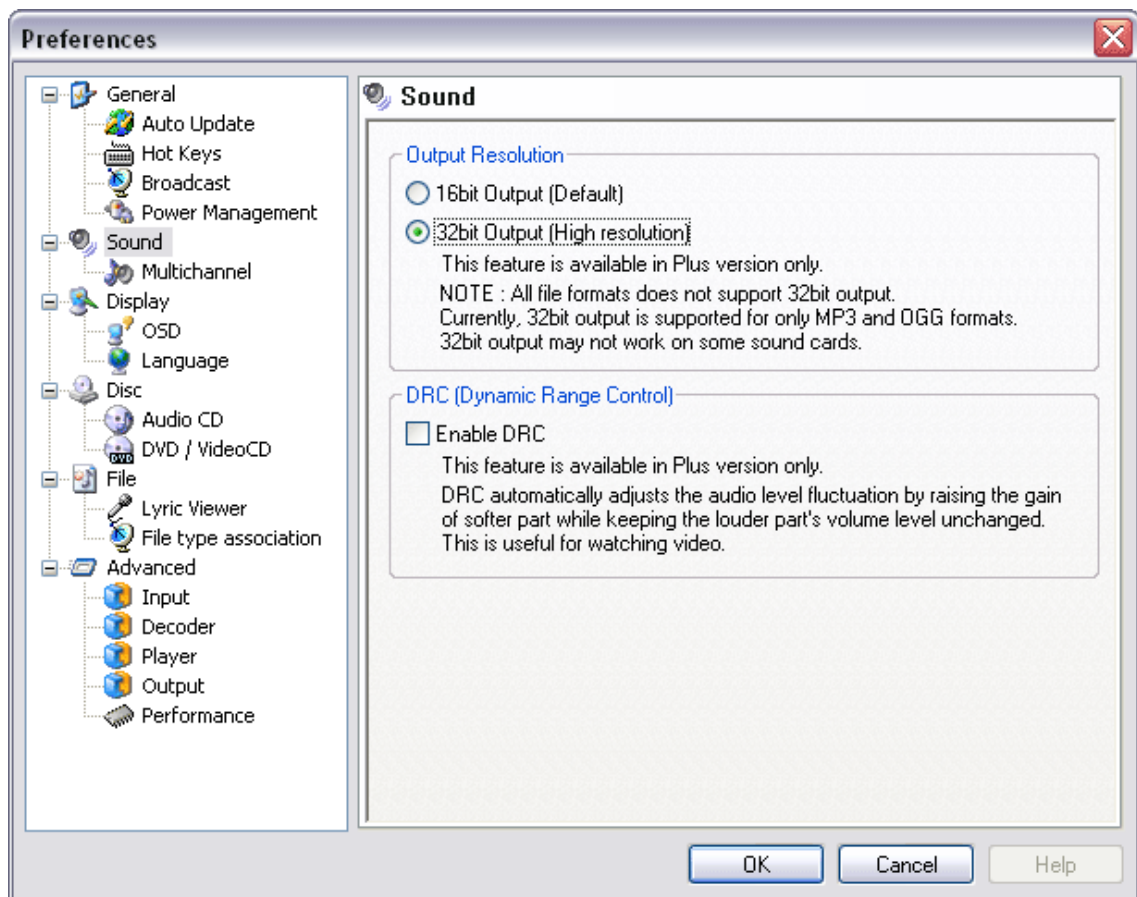
Preference for computer's power management relating to jetAudio playback: this is very useful if you are using a limited power as notebook.



[Figure 8.5 jetAudio General – Power management Preference window]

8-2 Sound

jetAudio supports multi-channels. If your sound card supports multi-channels and connected to speaker, you can always enjoy multi-channel sound. This option is related to x-Surround function stipulated in Chapter 5-4.

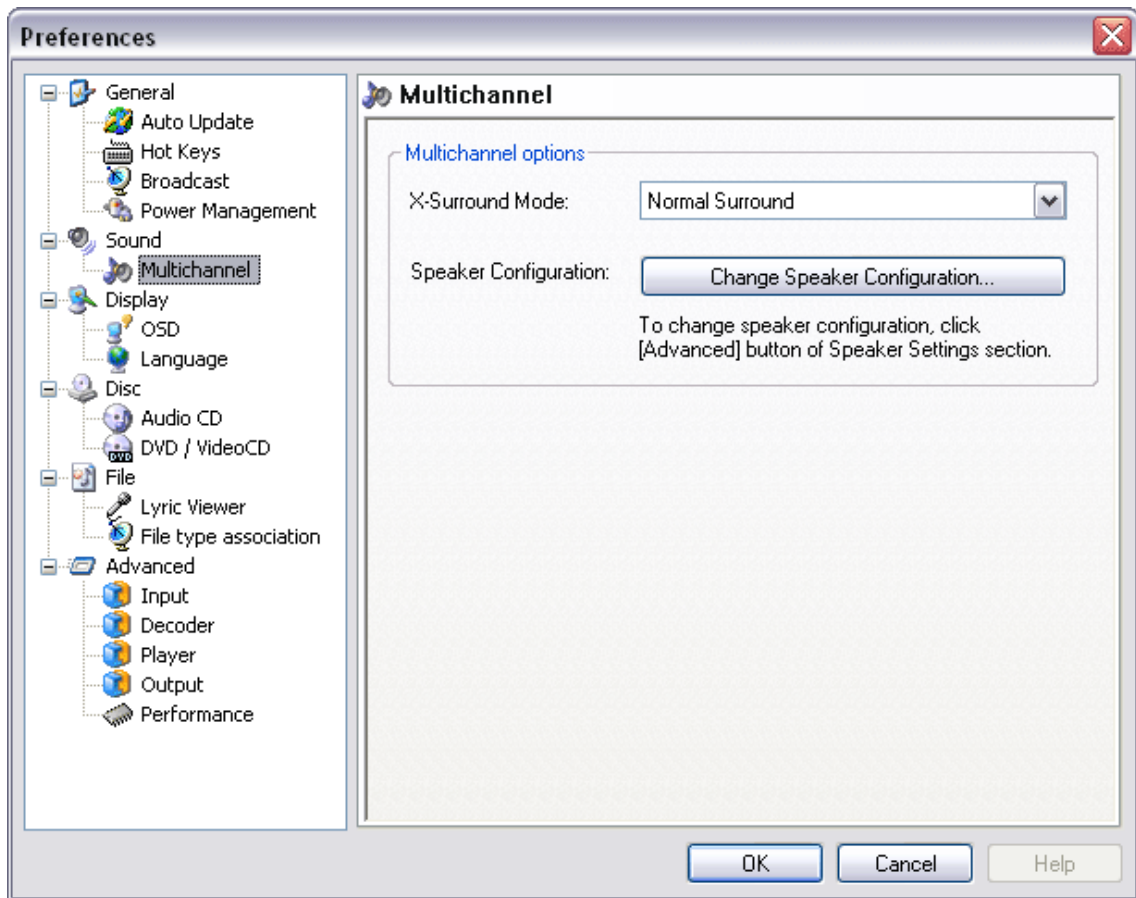


[Figure 8.6 jetAudio Sound Preference window]

8-2-1 General

1. Output Resolution
 - 16bit Output: Default output setting
 - 32bit Output: Some Sound Card has
2. DRC (Dynamic Range Control)
 - Enable DRC: DRC automatically adjust the audio level fluctuation by raising the gain of softer part while keeping the louder part's volume level unchanged. This is useful for watching Digital Video.

8-2-2 Multi Channel



[Figure 8.7 jetAudio Sound-Multi Channel Preference window]

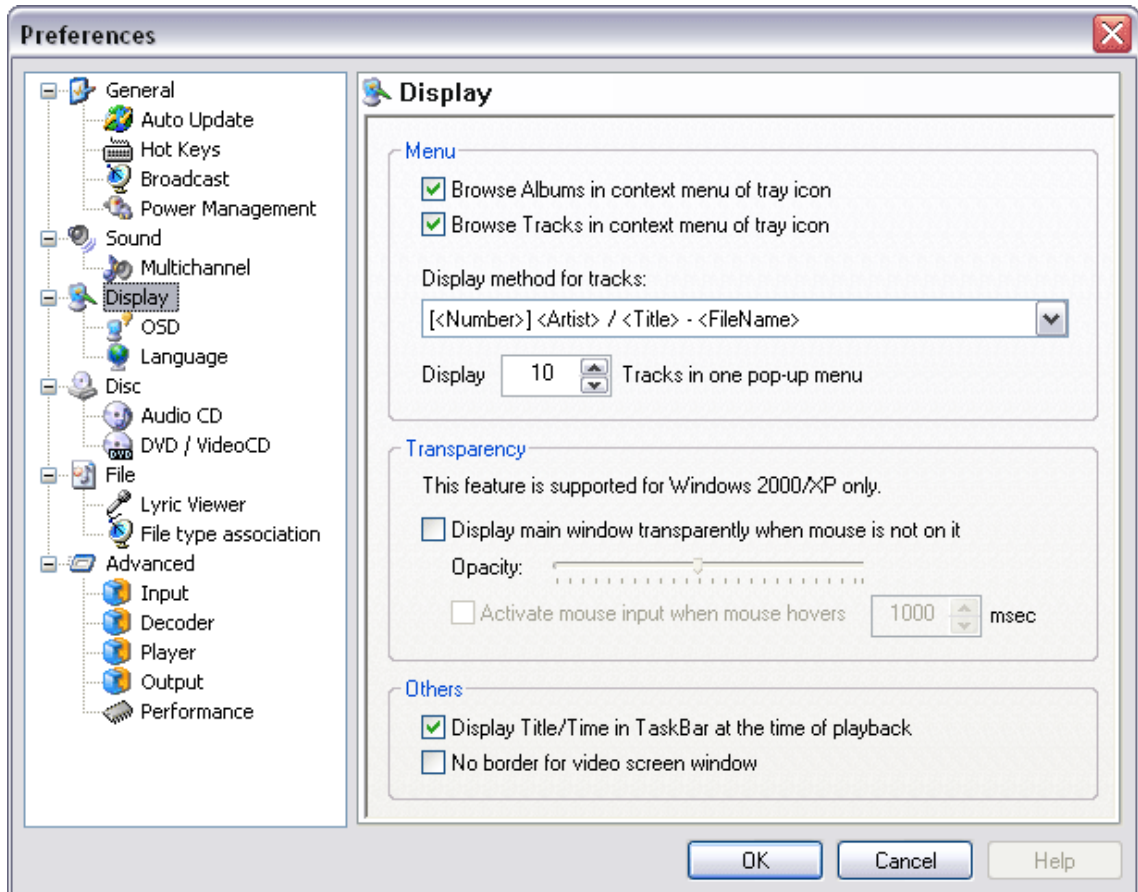
(1) X-Surround Mode

- ▷ Normal Surround: Surround sound effects of 2 speakers
- ▷ Enhanced Surround: You can select Multi-Channel at the time of selecting X-surround. By adjusting slider bar, you can adjust the delay between the front and the rear speakers.
- ▷ Normal Surround(Wide Rear): Wide Effect for rear speaker

(2) Speaker Configuration: Can change current speaker's configuration.

8-3 Display

If you click in Tray icon with right mouse button, the information on track or album will be displayed.



[Figure 8.8 jetAudio Display Preference window]

- (1) Display mode for tracks: you can select a tracking method from the list
- (2) Transparency: By adjusting transparency, jetAudio can be seen as transparent.

Note) This function can be applied on Window 2000 or Window XP only.

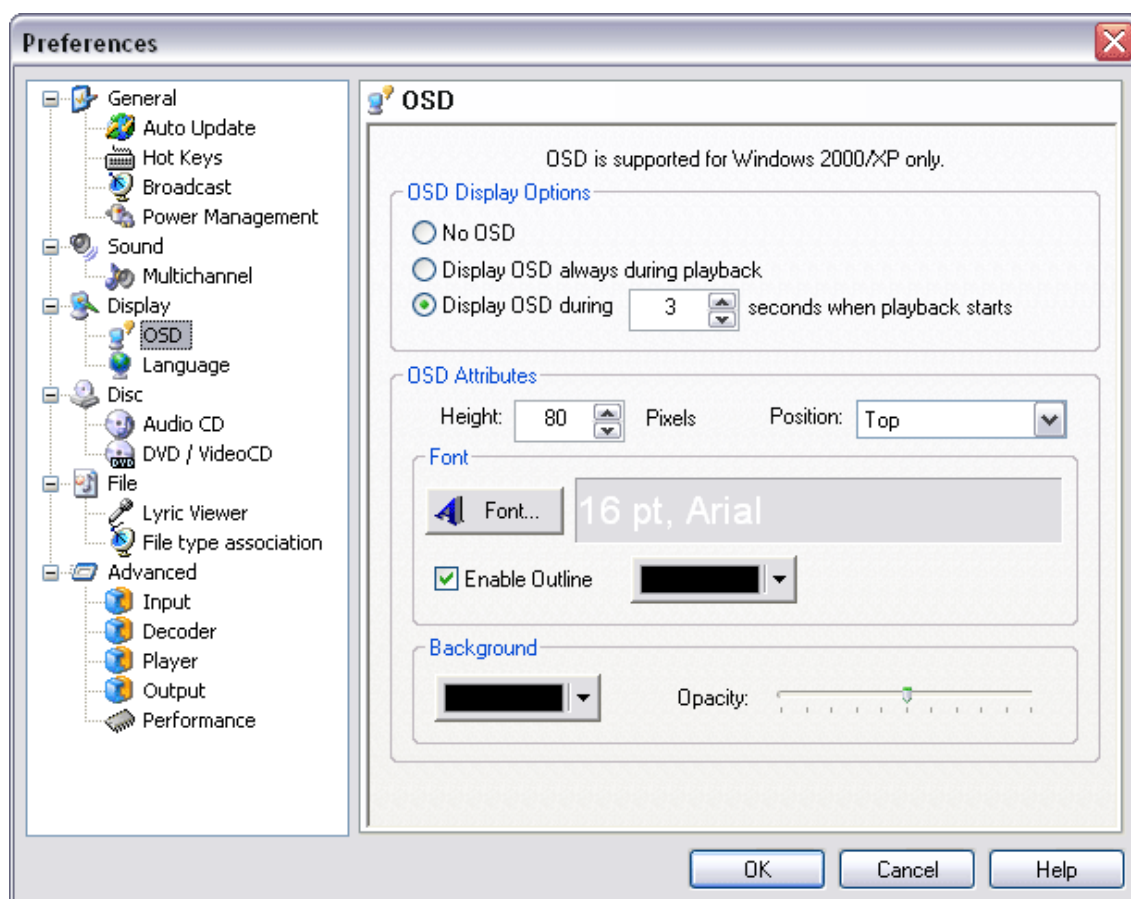
- (3) Others:

- Display Title/ Time in taskbar: Displays name of music and time on the specific line
- No border for Video window:

8-3-1 ODS

Displays currently playing file name or tag information.

Note) This function only can be applied on Window 2000 or Window XP only.



[Figure8.9 jetAudio Display-OSD Preference window]

(1) OSC Display options

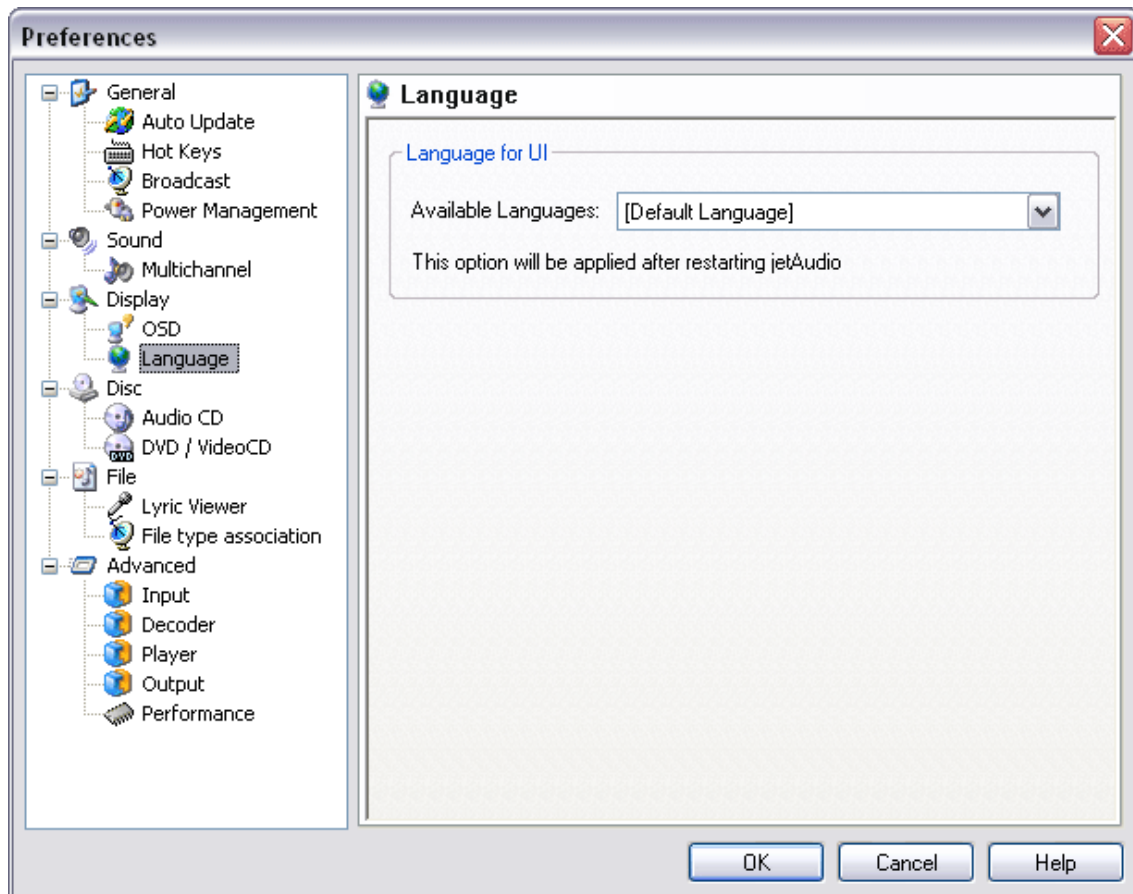
- ▷ No OSD: OSD not in use
- ▷ Display OSD always: indicates OSD whenever a file is being played.
- ▷ Time Adjustment: OSD will disappear automatically after a designated time elapses.

(2) OSD Attributes: Can adjust the position, font and size of OSD.

(3) Background: adjusts background color and transparency of OSD.

8-3-2 Language

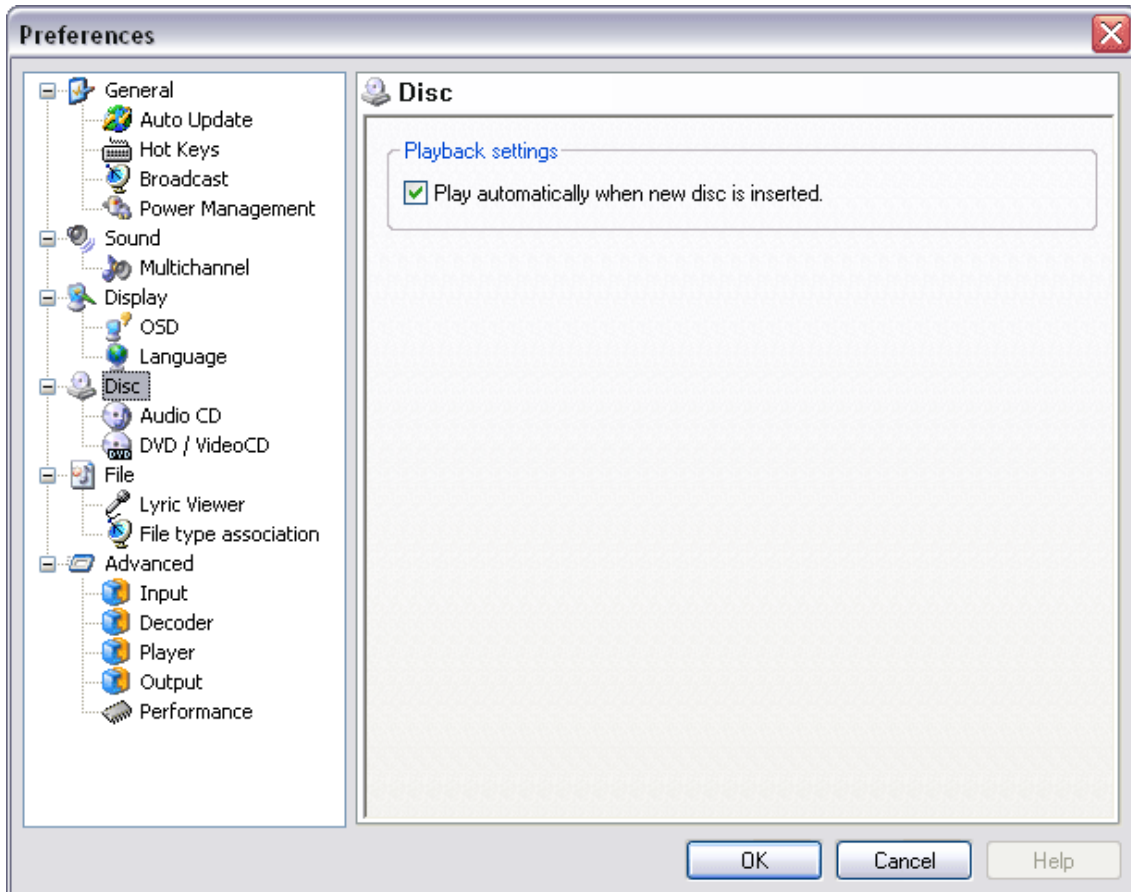
jetAudio supports multinational-languages; the basic preference is based on the default language preference of current OS in general. If you want to install other language pack, that could be done, too. Language pack related site is http://www.jetAudio.com/development/jdn_rsrc.html.



[Figure 8.10 jetAudio Display – Language Preference window]

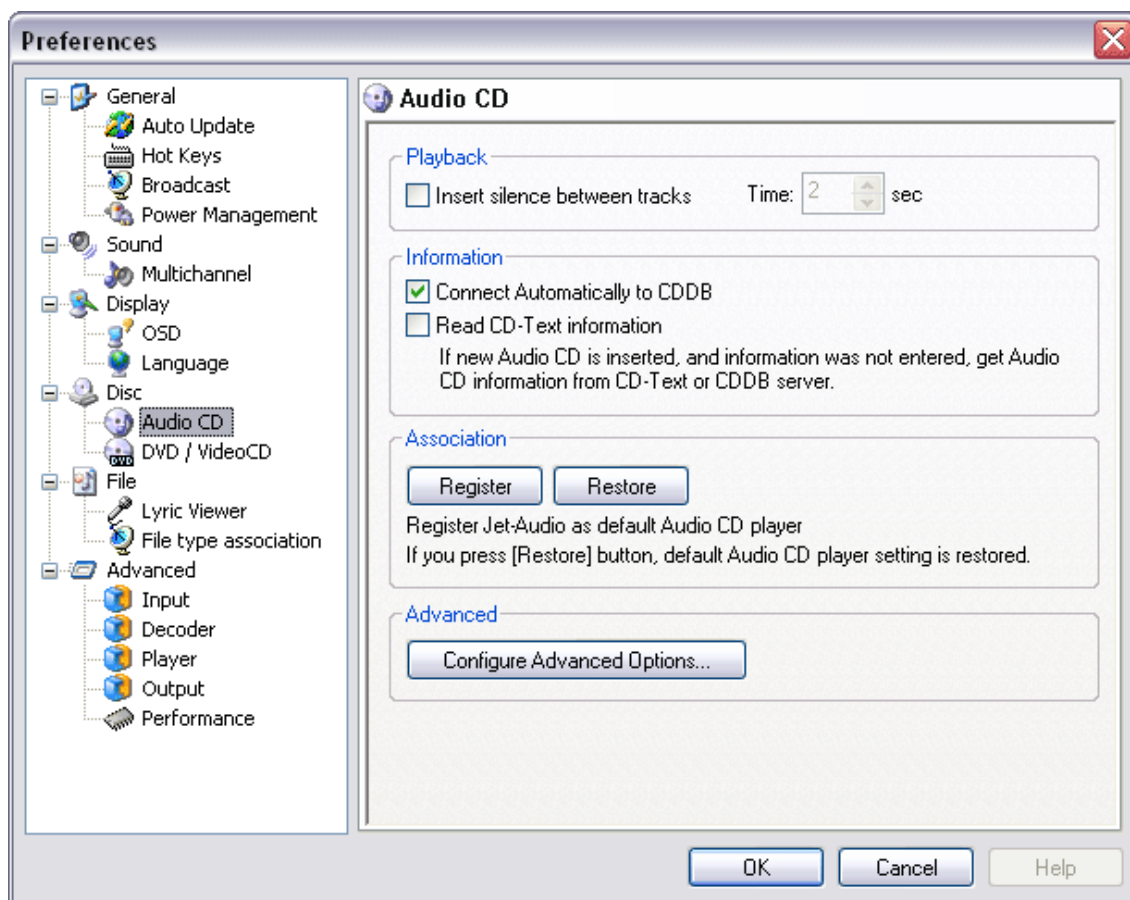
8-4 DISC

Figure 8.11 shows the options for automatic activation when a disc (CD Rom or DVD Rom) is inserted.



[Figure 8.11 jetAudio Dick Preference window]

8-4-1. Audio CD



[Figure 8.12 jetAudio Dick –Audio CD Preference window]

Playback range: Can decide the length of silence between tracks. If you click check box, you can set silence time up to 10 seconds between tracks.

- Information: Can select Automatic connection mode to CDDB and ripping mode for CD text. When loading starts jetAudio will be automatically connected to CDDB and will start to extract data from CD.
- Register/Restore: Registering JetAudio as default CD player. As audio CD starts loading jetAudio will be activated automatically and start playback. If you click Restore, jetAudio will resume its original default status automatically.
- Advanced: Can select Ripping mode (Ripping data from CD) and can adjust jitter level. There are two ripping mode:
 - ◆ Generic SCSI Interface mode
 - ◆ Native NT API : Your computer's OS must be Windows 2000 or Windows NT or Windows XP

If you click Jitter Connection, you can minimize the noise level at the time of ripping.

(1) Playback: Can decide the length of silence between tracks. If you click check box, you can set silence time up to 10 seconds between tracks.

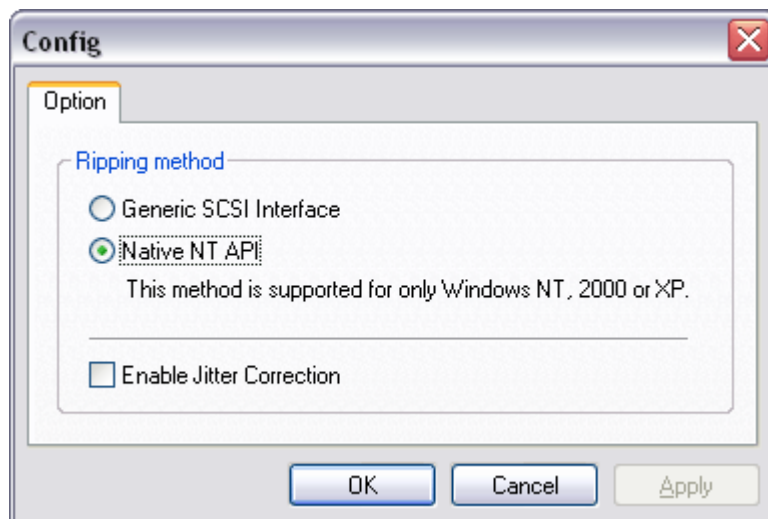
(2) CD Information: Can select Automatic connection mode to CDDb and ripping mode for CD text. When loading starts jetAudio will be automatically connected to CDDb and will start to extract data from CD.

(3) Register/ Restore: Registering jetAudio as default CD player. As audio CD starts loading jetAudio will be activated automatically and start playback. If you click Restore, jetAudio will resume its original default status automatically.

(4) Advanced: Can select Ripping mode (Ripping data from CD) and can adjust jitter level. There are two ripping mode:

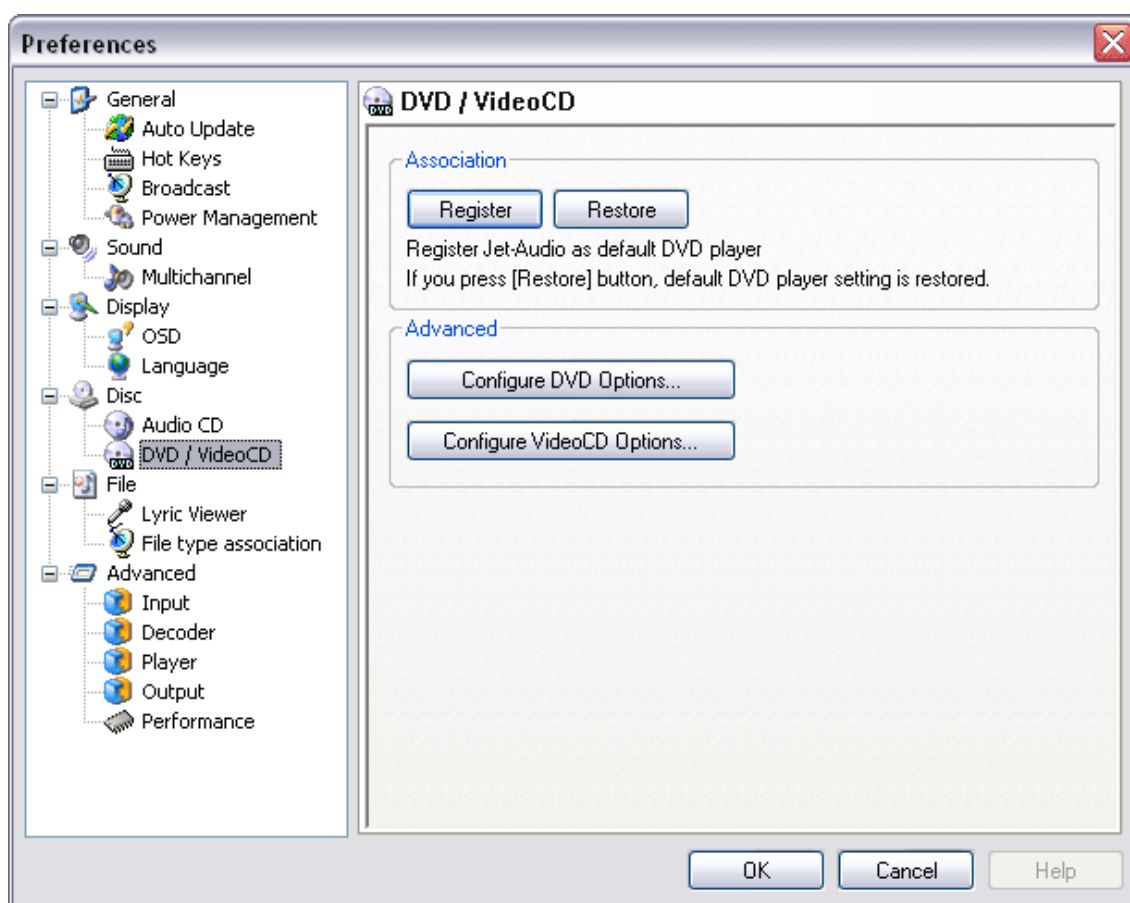
- ◆ Generic SCSI Interface mode
- ◆ Native NT API : Your computer's OS must be Windows 2000 or Windows NT or Windows

If you click Jitter Connection, you can minimize the noise level at the time of ripping.



[Figure 8.13 Configure Advanced Options window]

8-4-2. DVD



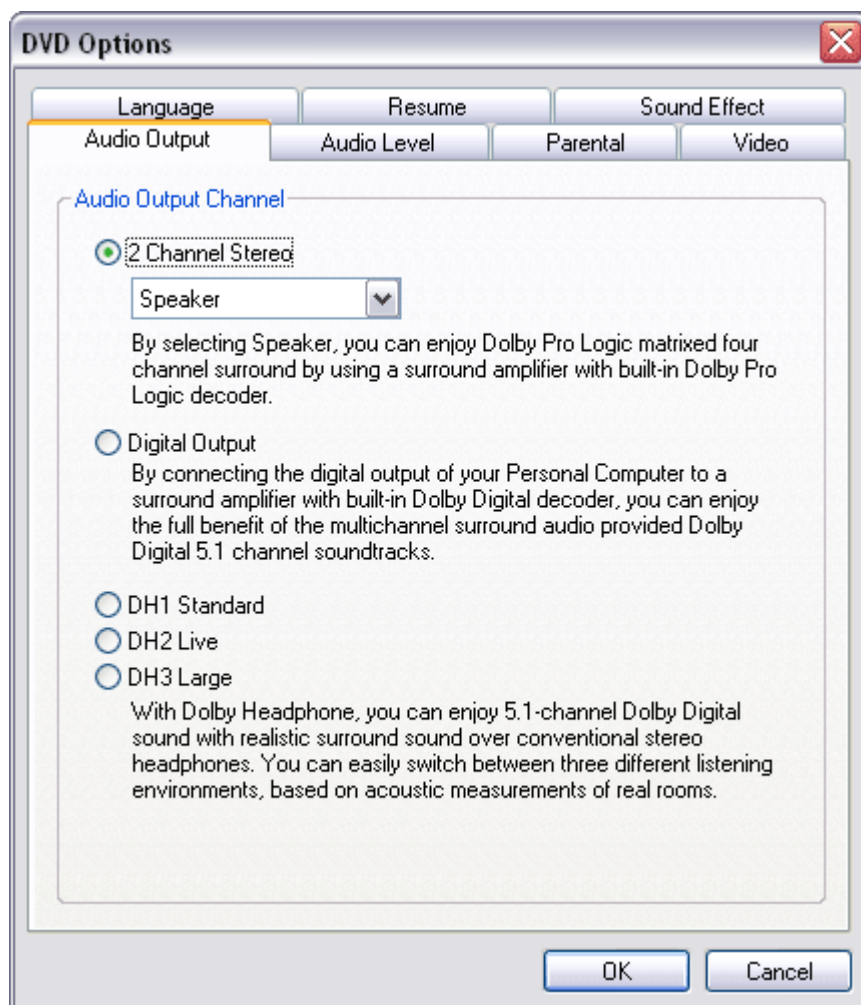
[Figure 8.14 jetAudio DISC-DVD/Video CD Preference window]

(1) Association

- ▷ Register: When you click Register button, jetAudio will be automatically activated as DVD Title is being loaded.
- ▷ Restore: When you click Restore button, default DVD player setting will be restored.

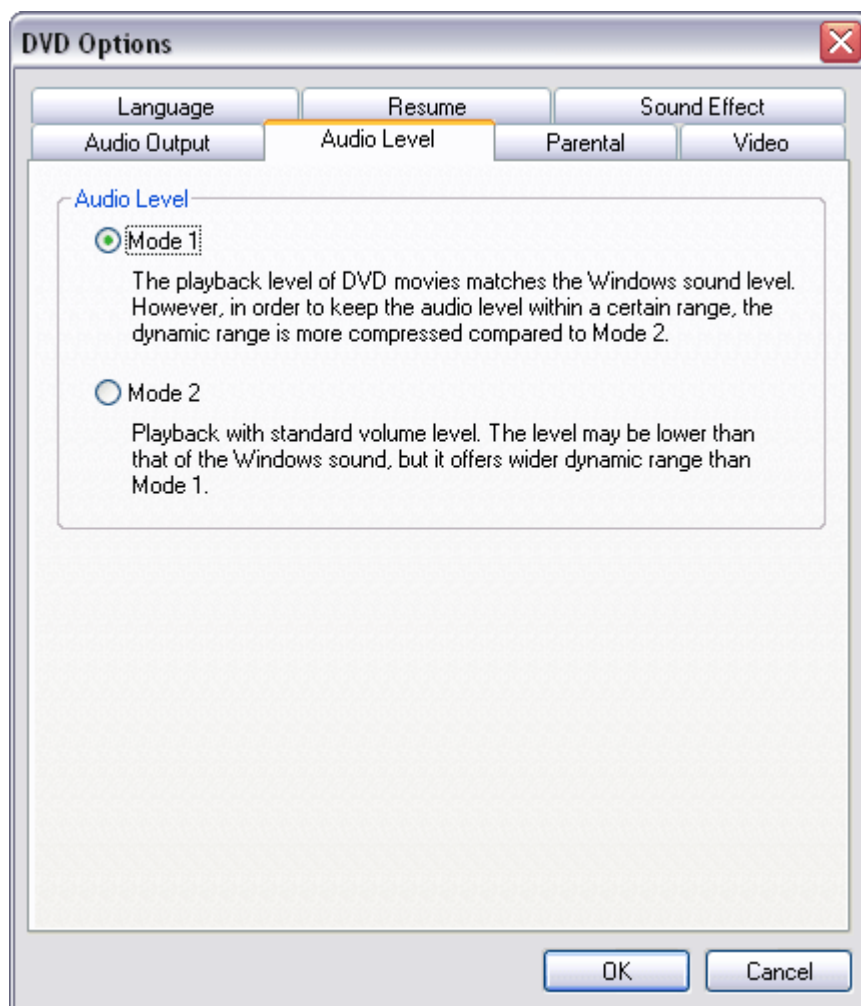
(2) Advanced: You can select the options for Parental Rating Classification, size of video screen and language.

▷ Audio Output



[Figure 8.15 DVD Audio Output configuration window]

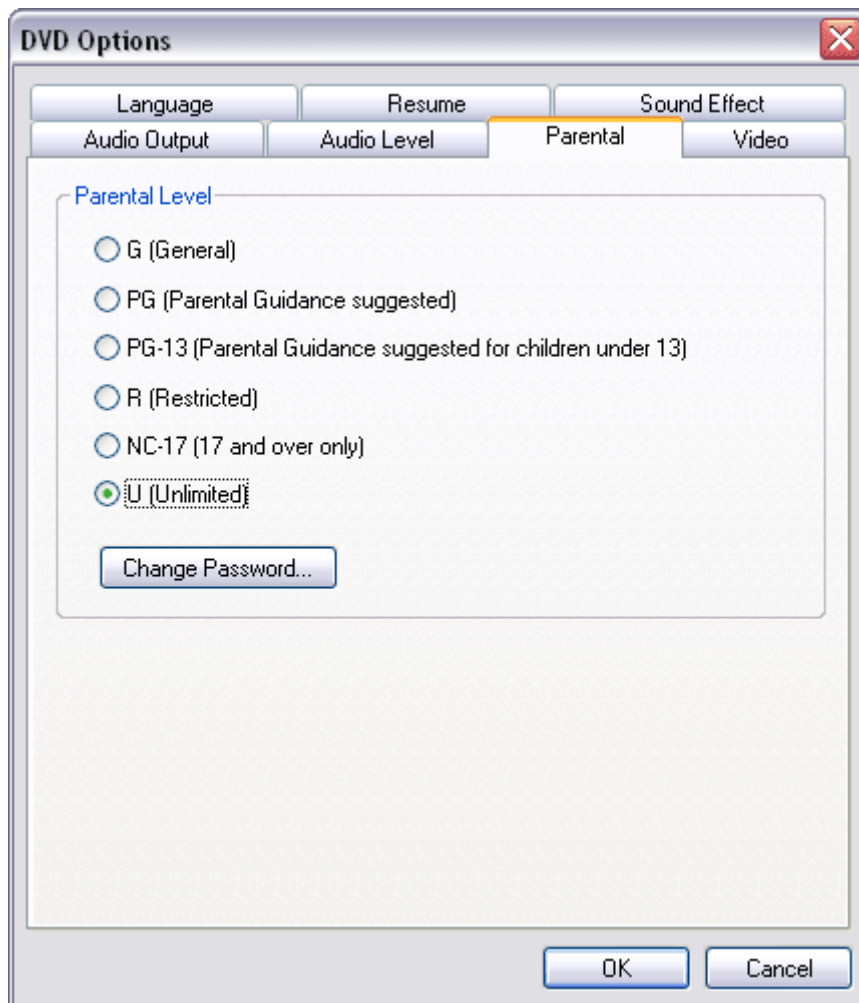
▷ Audio Level



[Figure 8.16 DVD Audio Level configuration window]

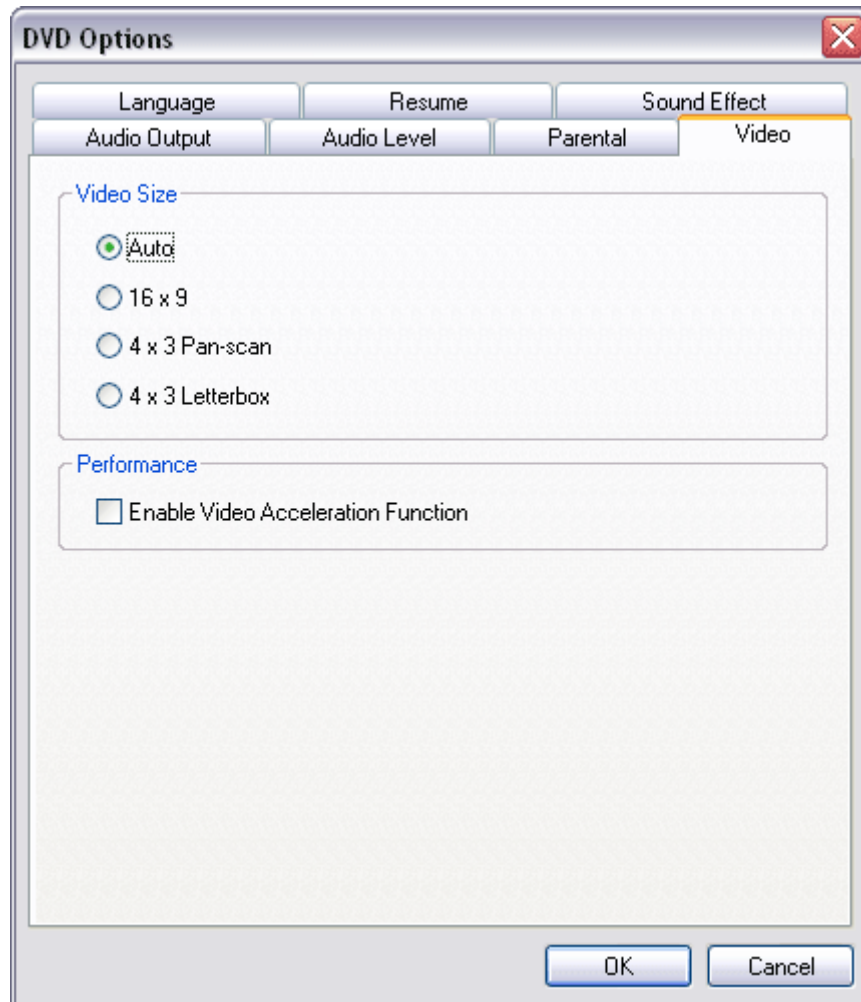
▷ Parental Classification for Rating: If necessary you can use a password to prevent unwanted DVD from playing (Figure 8.17).

Note) If a DVD with a parental classification mode is inserted in the drive, you will see a window in which you need to input a password. You need to input a correct password to play DVD.



[Figure 8.17 DVD Parental configuration window]

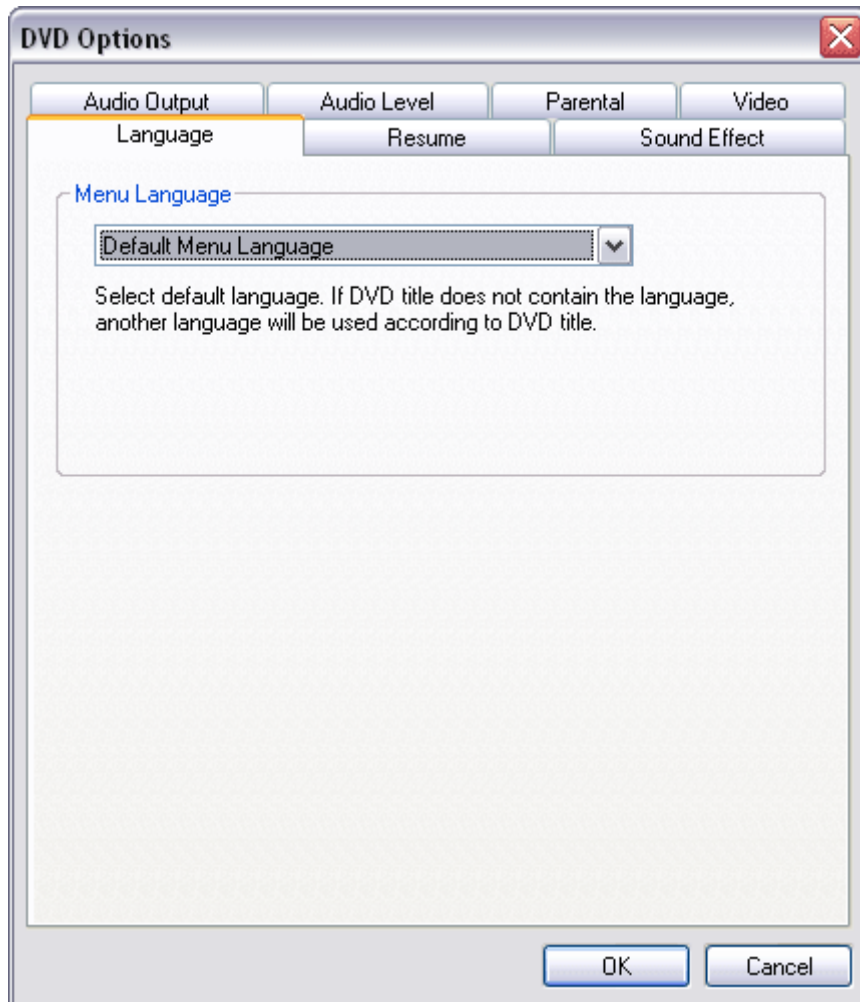
- ▷ Video: In general, video screen ratio is 16:9 however, if you want different screen size, adjustment can be made on this particular window. (eg: 4:3)



[Figure 8.18 DVD Video configuration window]

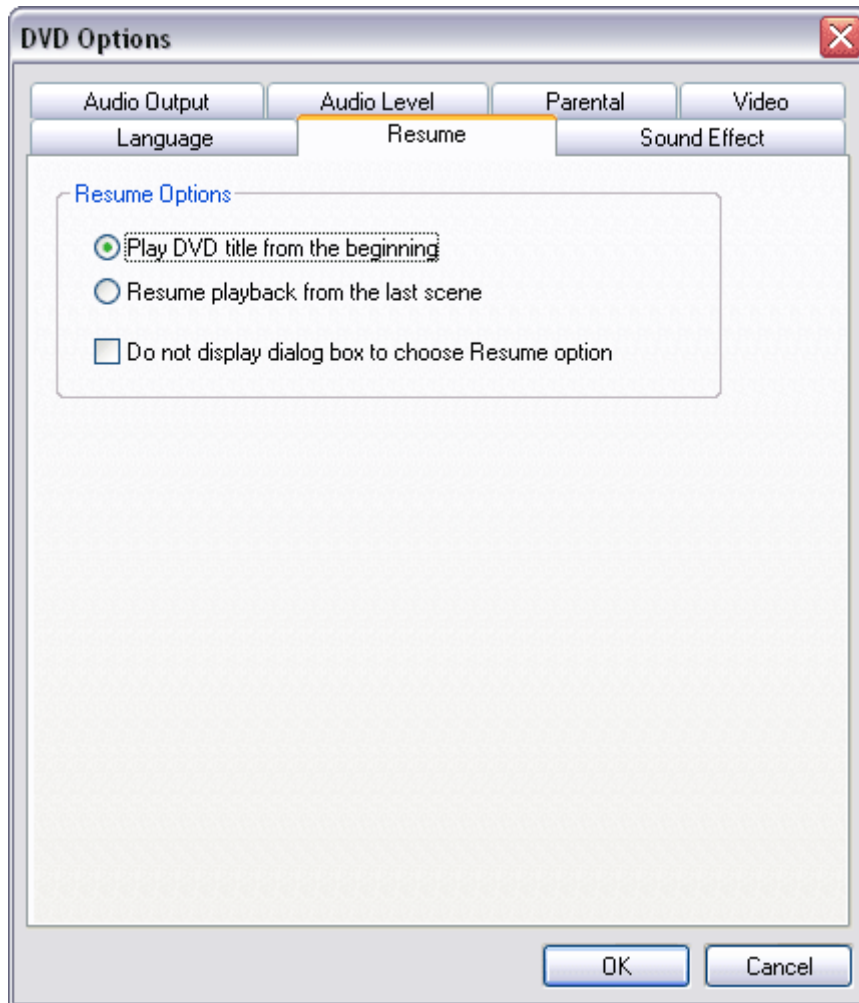
- Auto: Automatically sets the ratio
- **16 * 9** : 16X9 : wide screen ratio
- **4*3 Pan-Scan**: One or both sides of the screen will be blank.
- **4*3 Letter-Box**: Wide spread-out screen, blank spaces appear on top and bottom of the screen.

- ▷ Language: Can select any language from DVD menu. If DVD menu doesn't support your choice of language, the default language may be played.



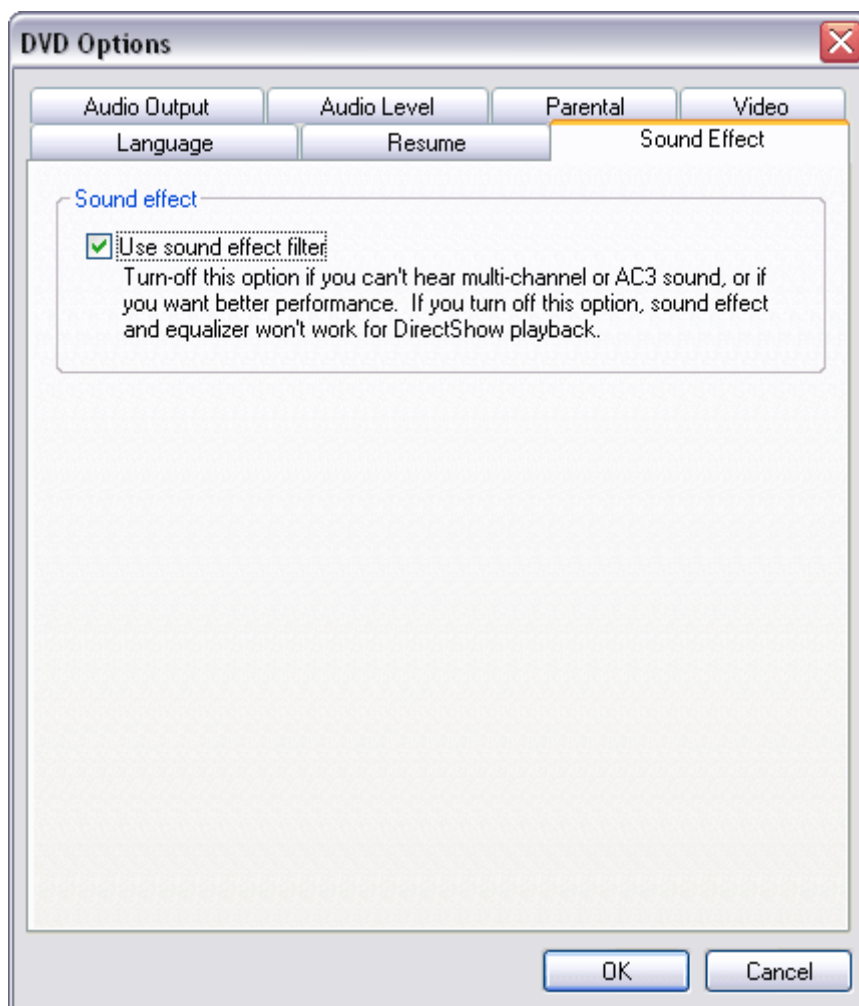
[Figure 8.19 DVD Language Preference window]

- ▷ Resume: Can resume from the start or from the last scene



[Figure 8.20 DVD Resume play mode Preference window]

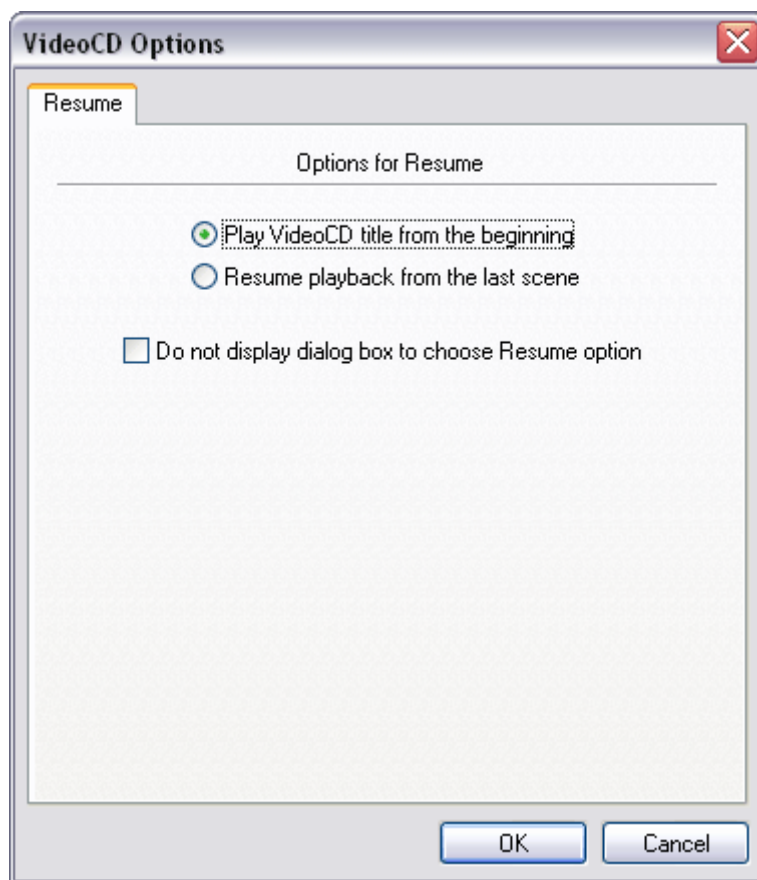
▷ Sound Effect



[Figure 8.21 DVD Sound Effect Preference window]

jetAudio's Sound Effect will be activated at the time of file playback. However, if you want to improve the quality of playback or if you have some problems, remove the check sign.

(3) Configure Video CD Options

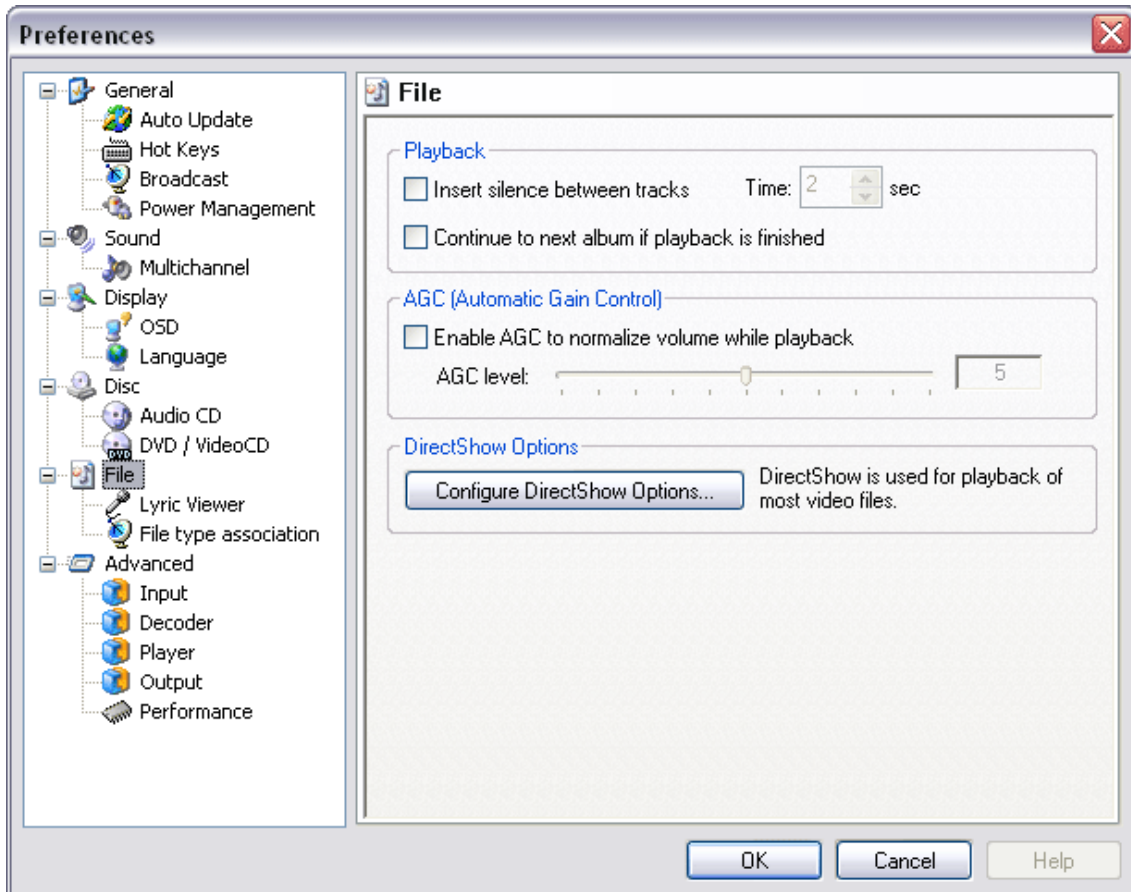


[Figure 8.22 Video CD Options Preference Window]

Preference window for Playback options for Video CD: Selection for playback options

8-5 File

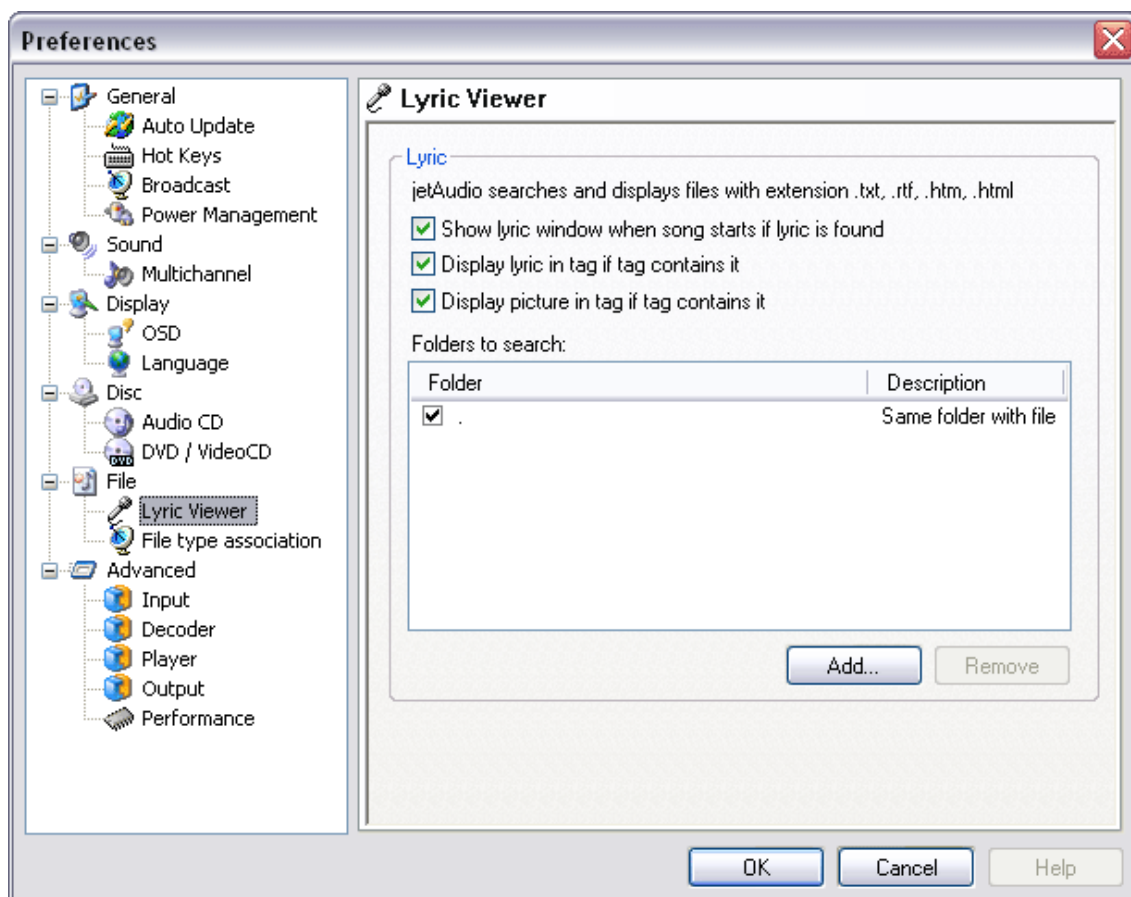
Play Back: Add silence between playlists. To do this, check the appropriate box and set the time.



[Figure 8.23 jetAudio File Preference Window]

AGC (Auto Gain Control): Normalizes the sound at the time of playback to produce even sound. To do this, check the appropriate box and select the sound level. As the level of sound rises, AGC responds more sensitively.

8-5-1 Lyric Viewer: Preference for lyric setting. There are two kinds of lyric: synchronized and general. The synchronized lyric can adjust its time at jetAudio and it produces Karaoke effect. The general lyric doesn't produce synchronized effect but the whole lyric could be viewed through Lyric Window. Refer to Chapter 7-11 for detailed information.



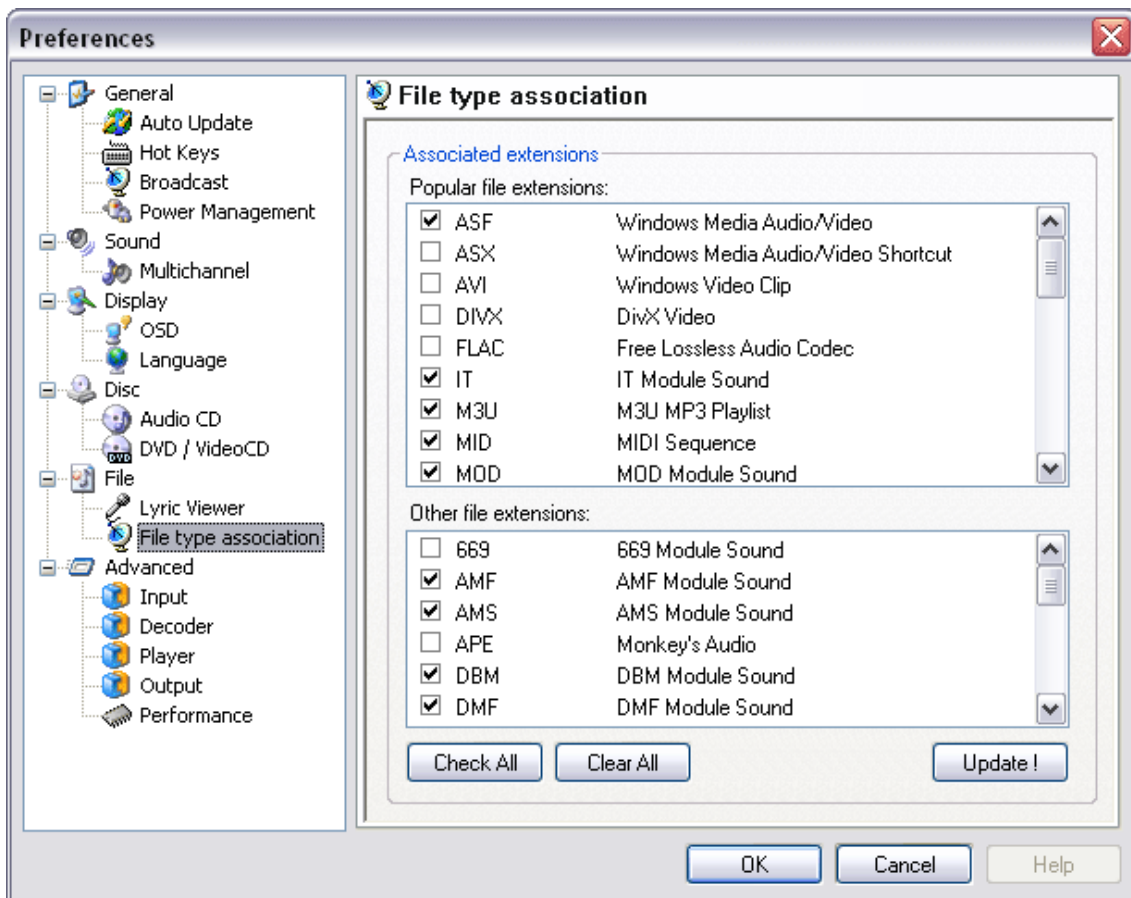
[Figure 8.24 jetAudio File-Lyric viewer Preference Window]

- (1) If the lyric is available, it could be searched at a designated folder and will be displayed.
 - ▷ As the music starts, the lyric window will be displayed.
 - ▷ If there is lyric in the Tag, then that particular lyric will be displayed.
 - ▷ If there is a picture in the Tag, then that particular picture will be displayed.
- (2) Click Addition button and select the folder which has the lyric.
The default value is the current folder which has playback file in it.

8-5-2 File Type Association:

Display the file format which is to be connected with jetAudio 5.2. If you connect jetAudio with your choice of file format, jetAudio will automatically activate at the time of Open File and double clicking.

(jetAudio will not be activated by just installing it; jetAudio supports many files and if it is connected with all these files, there could be some technical side effects. Therefore, you just need to connect jetAudio to your choice of extension file only or connect with all file formats that jetAudio is able to support.)

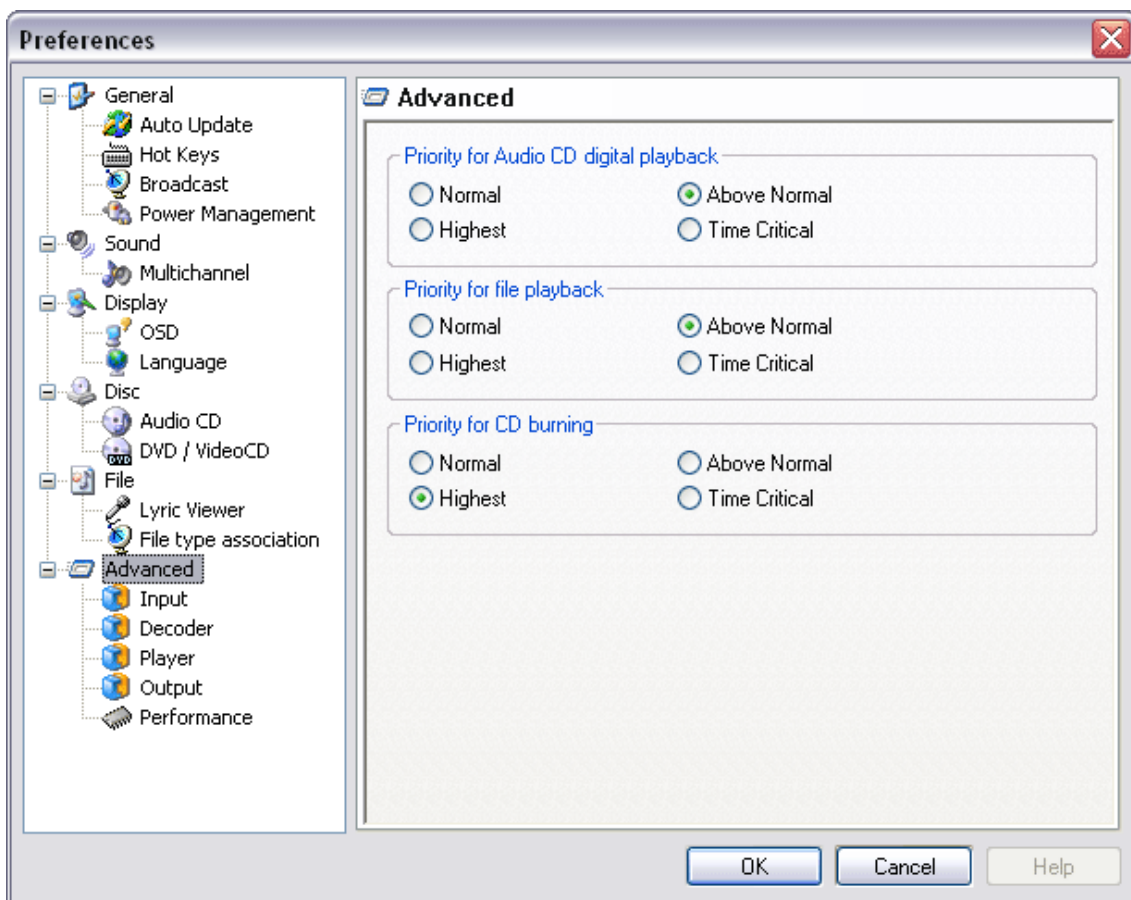


[Figure 8.25 jetAudio File association Preference Window]

8-6 Advanced

jetAudio's functions can be adjusted in a more detailed manner: priority for playback, input/output, plug-in, decoder preference, and other playback preference. In general, if there is no problem at the time of file play back or CD play back, you don't need to make any adjustment. However, if the sound is not played evenly then you could make some adjustment on this window to resolve that problem.

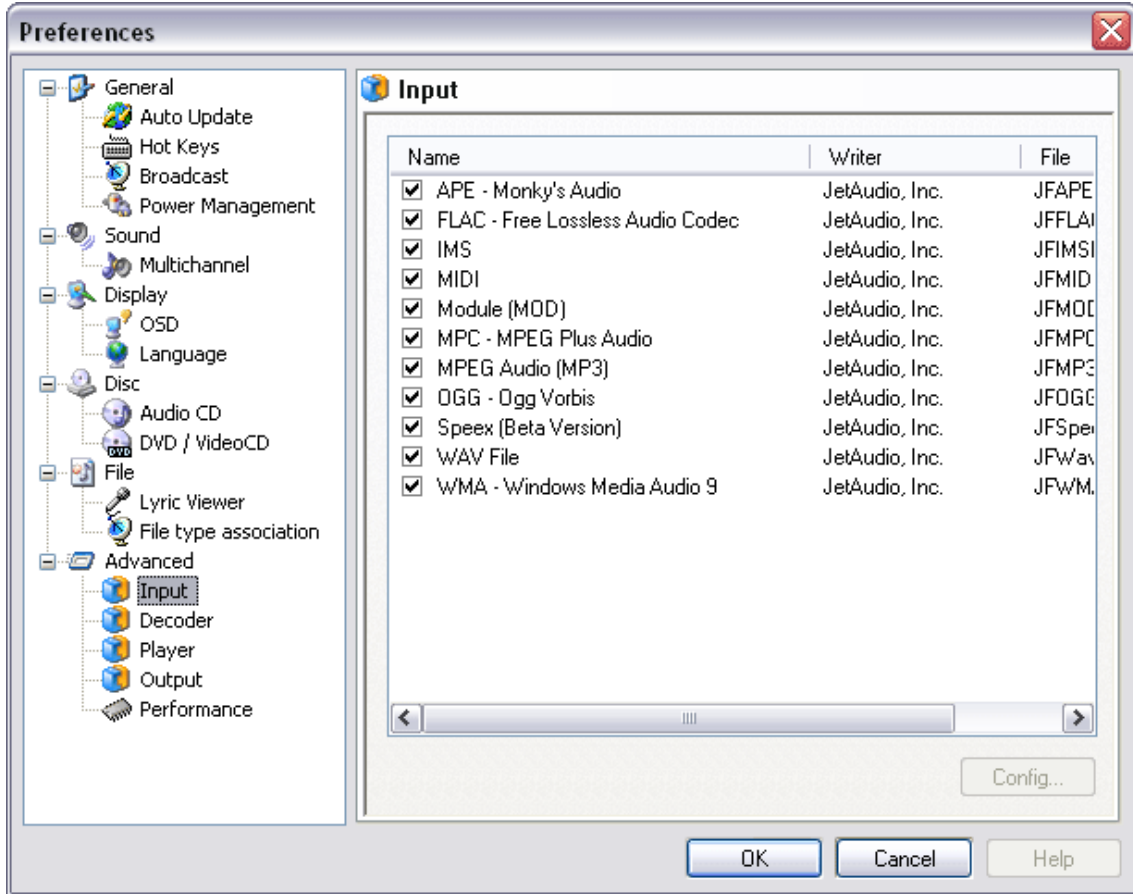
As you could see in Figure 8.26, you can set priority in CD playback, File Playback, and CD burning.



[Figure 8.26 jetAudio Advanced Preference Window]

8-6-1 Input: preference for input plug-in.

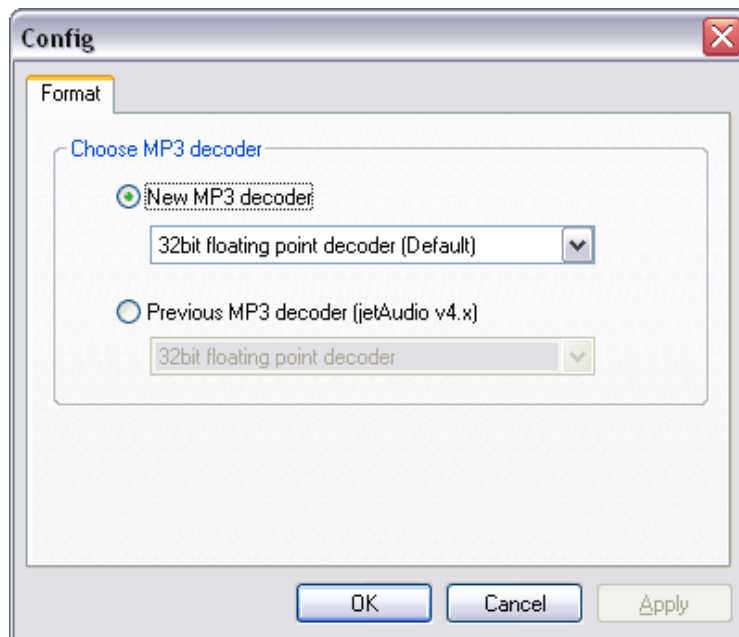
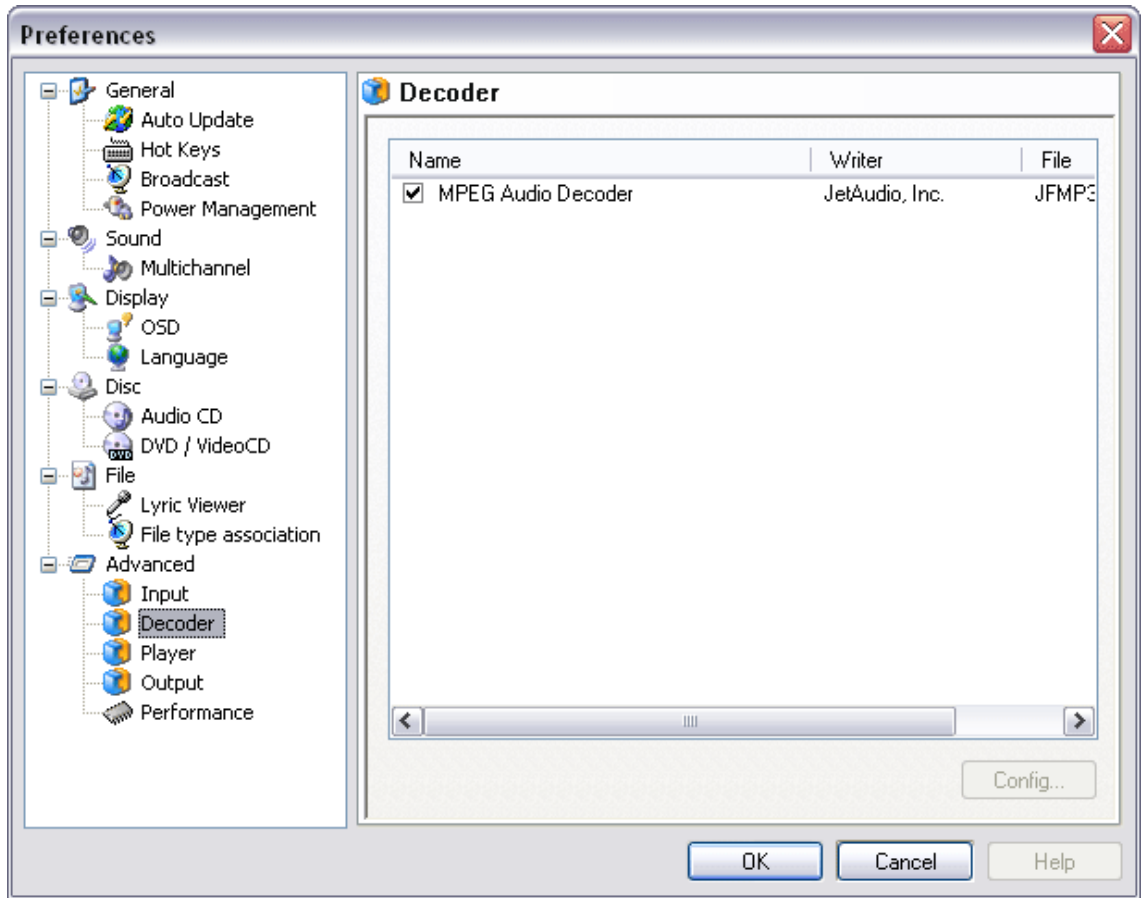
(NOTE) This is only possible when preference for each plug-in is being activated.



[Figure 8.27 jetAudio Advanced – Input Window]

Preferences for input plug-in are different from each other based on the usage of each plug-in or preference values.

8-6-2 Decoder: Preference for MPEG Decoder.



[Figure 8.28 Configuration window for MP3 Decoder]

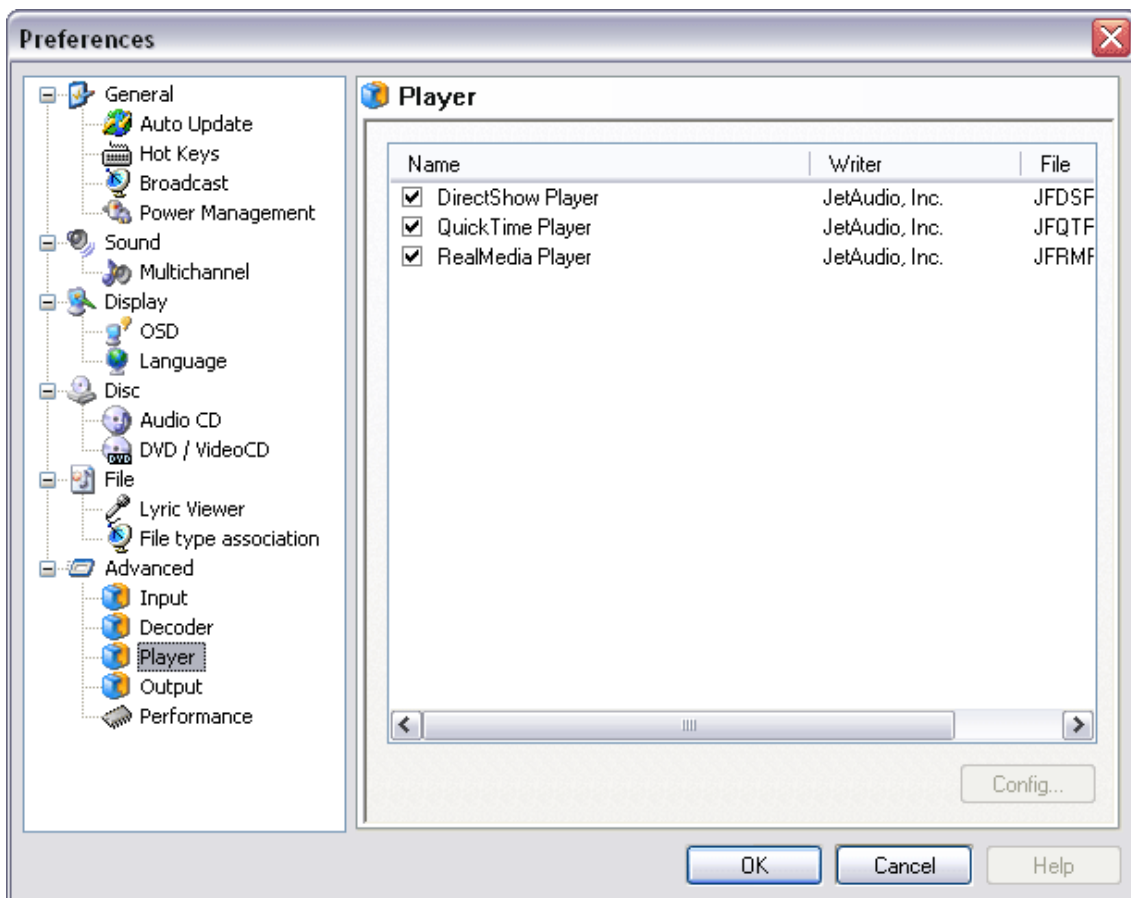
There are total of five MPEG Decoders of jetAudio 5.2. Decoding could be done by selecting 4.X version's decoder or 5.2 version's decoder. Higher the beat rate more detailed decoding is possible.

▷ jetAudio 5.2 Decoder: There are three Decoder for New MP3 Decoder 32bit floating point ,32bit Fixed point, 64 bit floating point.

▷ jetAudio 4.X Decoder: There are two decoder. 32bit floating point, 64 bit floating point Decoder

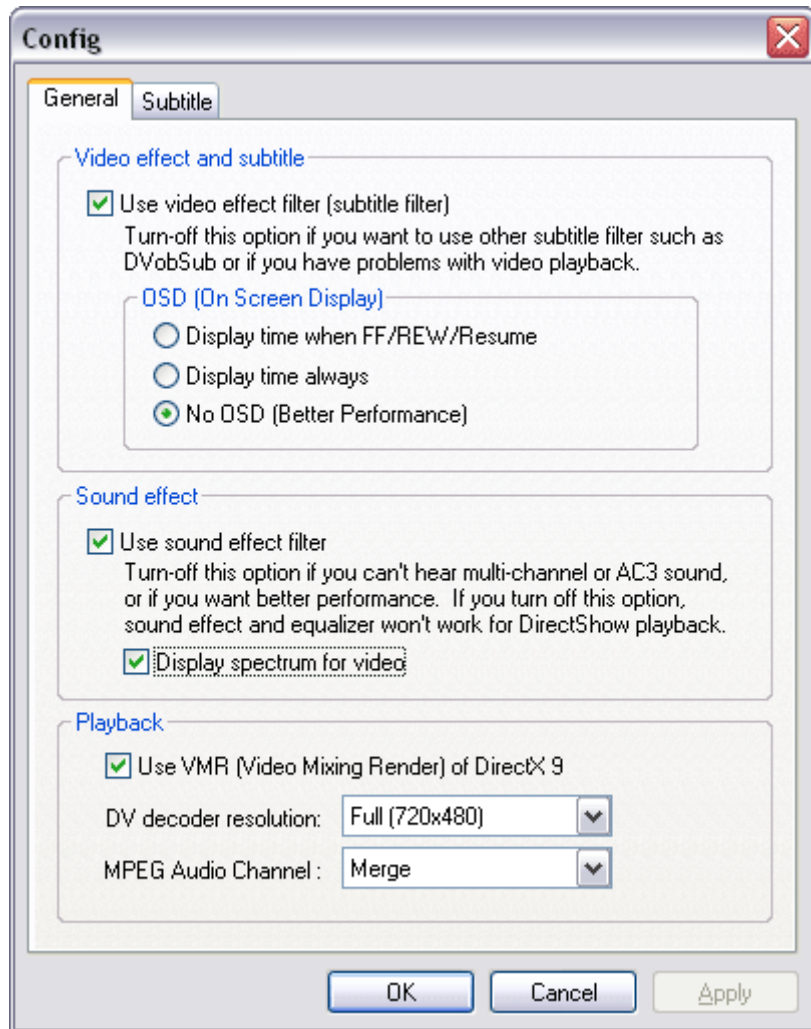
8-6-3 Player: Preference for extra player

For External player, DirectShow Player, RealMedia player and Quickplayer have been registered.



[Figure 8.29 jetAudio Advanced – Player Preference option]

▷ DirectShow Player: General preference for Direct show : preference for sub-title, On-screen Display, Sound effect and size of screen.



[Figure 8.30 Advanced Configuration (Preference for Direct show player window)]

- General:

- i. Use video effect filter: Uses subtitle filter at the time of audiovisual file playback. Cancel this option if you want to use other subtitle filter.

- ii. OSD: Designate the menu which will be displayed on the screen at the time of playback of audiovisual file.

- 1. Display when FF/REW/ Resume: Time change will be displayed at the time of FF and REW:

2. Display Time Always: Regardless of any change, time will be displayed always.

3. No OSD: No time Display: regardless of any change, time will not be displayed. (This will reduce the CPU usage)

iii. Sound Effect: Use jetAudio's sound effect at the time of audiovisual file playback. By using this feature you could enjoy more real sound.

1. Displays Spectrum at the time of Video playback: Displays Spectrum at the time of video file playback. If you want to reduce the usage of CPU, do not select this option.

iv. Playback: Preference for video size and sound channel of animated file.

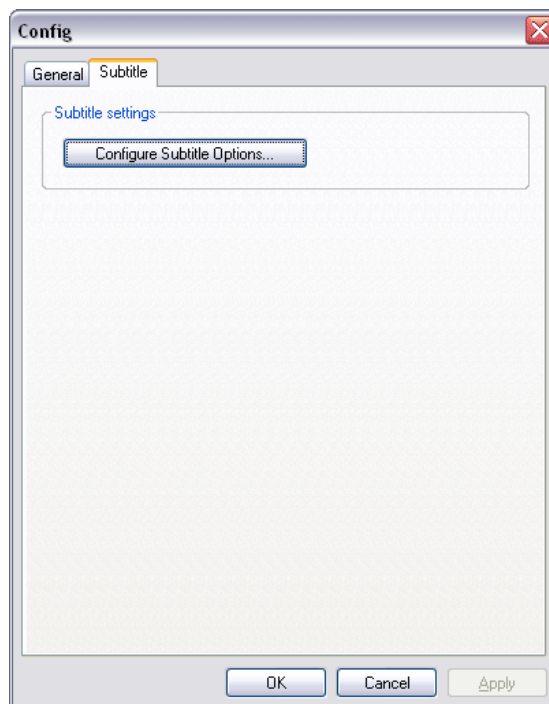
1. Can select VMP through video renderer if you use Direct X 9 Version.

2. Four choices of preference for DV Decoder: Full, Half, Quarter, One-eight

3. MPEG Audio Channel Preference: Right, Left and Play Both

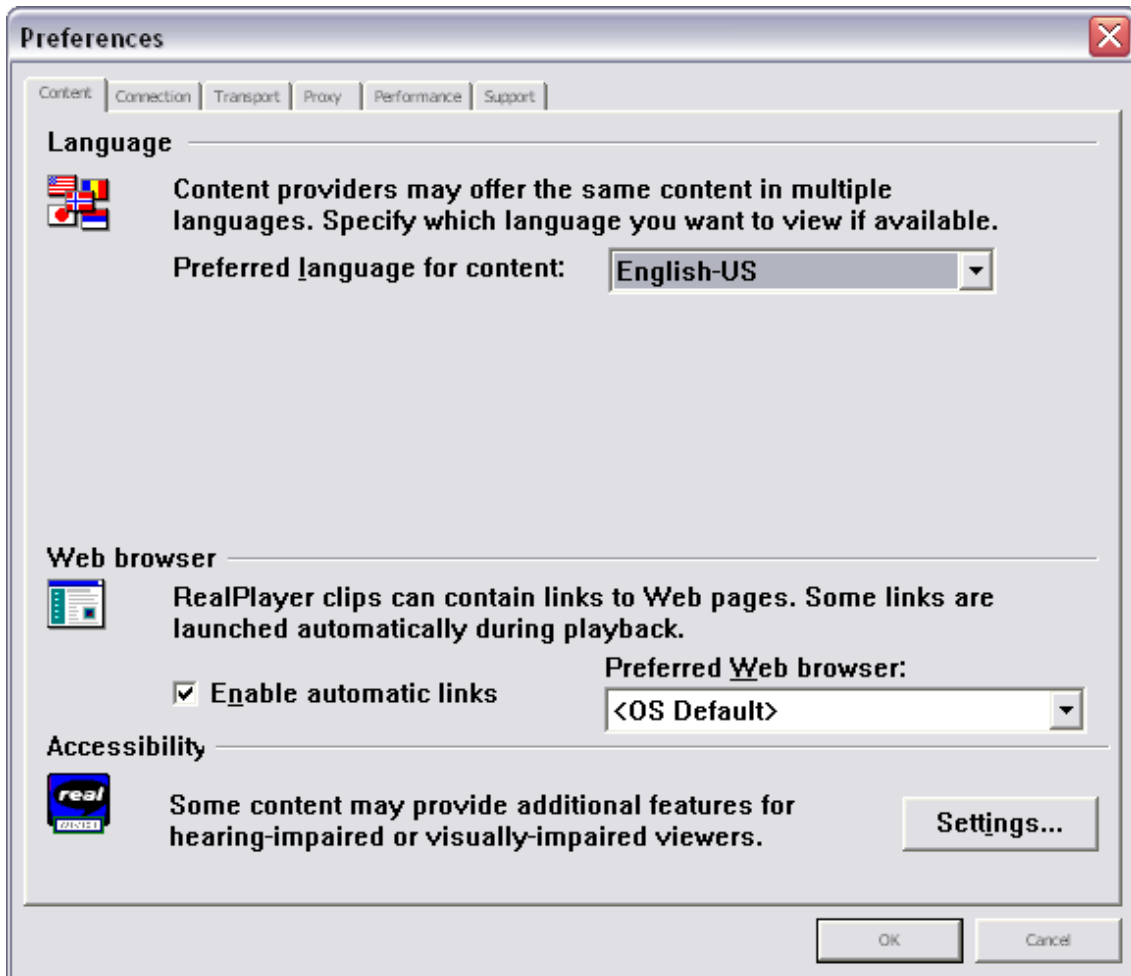
- Subtitle:

i. Preference for Subtitle. Refer to Chapter 14-2.



[Figure 8.31 Advanced Preference for Direct show – Subtitle window]

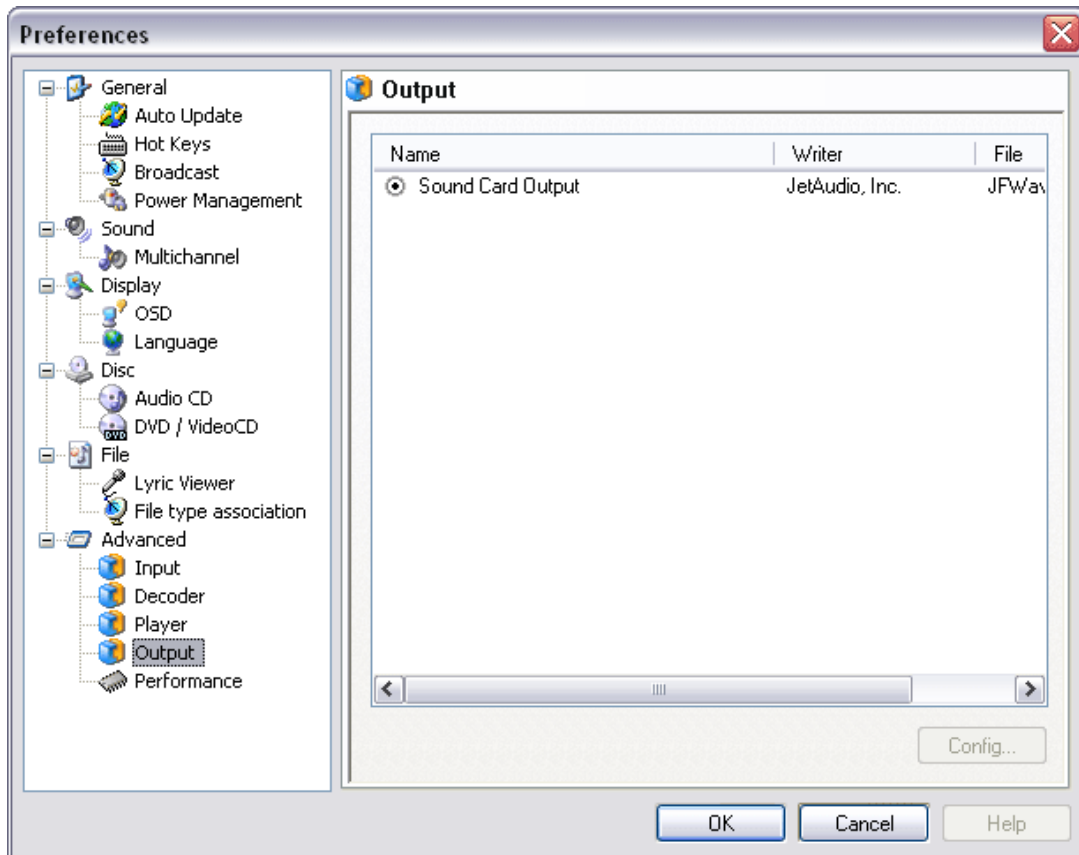
- ▷ RealMedia Player: Based on the general preference mode of Realmedia.



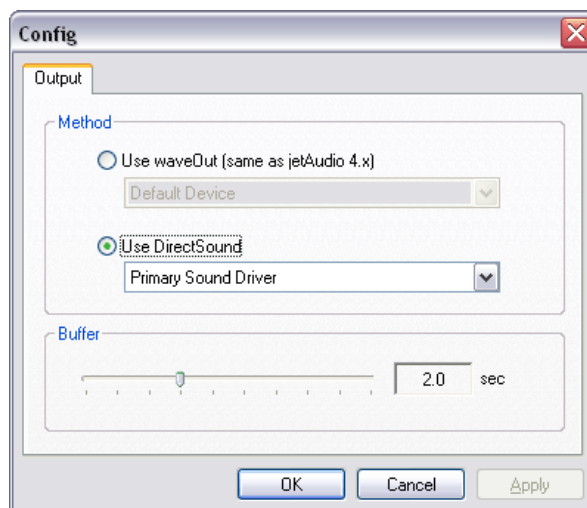
[Figure 8.32 Real Media Player Preference Window]

(NOTE) Each Preference window will be different from others based on a filter used and the filters will be used for preference of extra features.

8-6-4 Output: Output filter preference



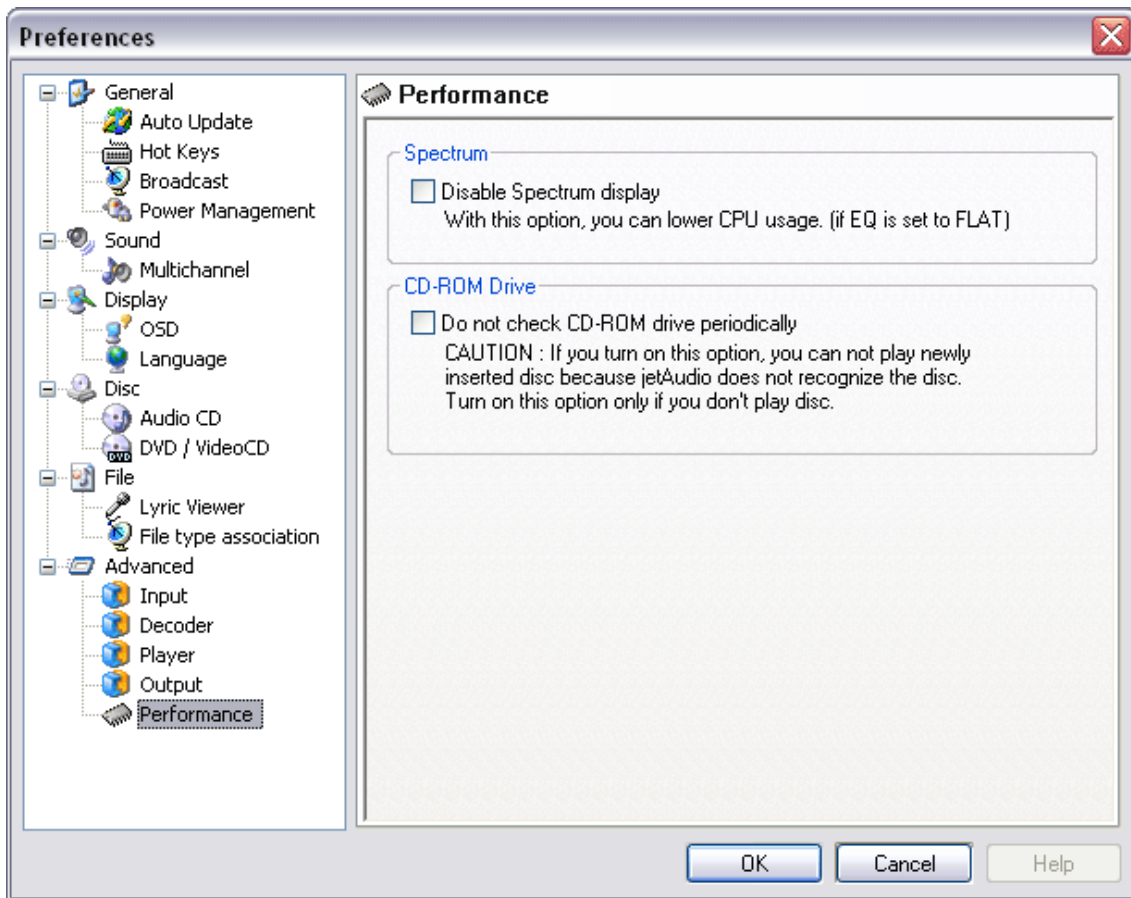
[Figure 8.33 jetAudio Advanced-Output Preference window]



[Figure 8.34 Config window for JwavOut.dll]

For Example, preference for JwavOut.dll can be done as figure 8.34

8-6-5 Performance



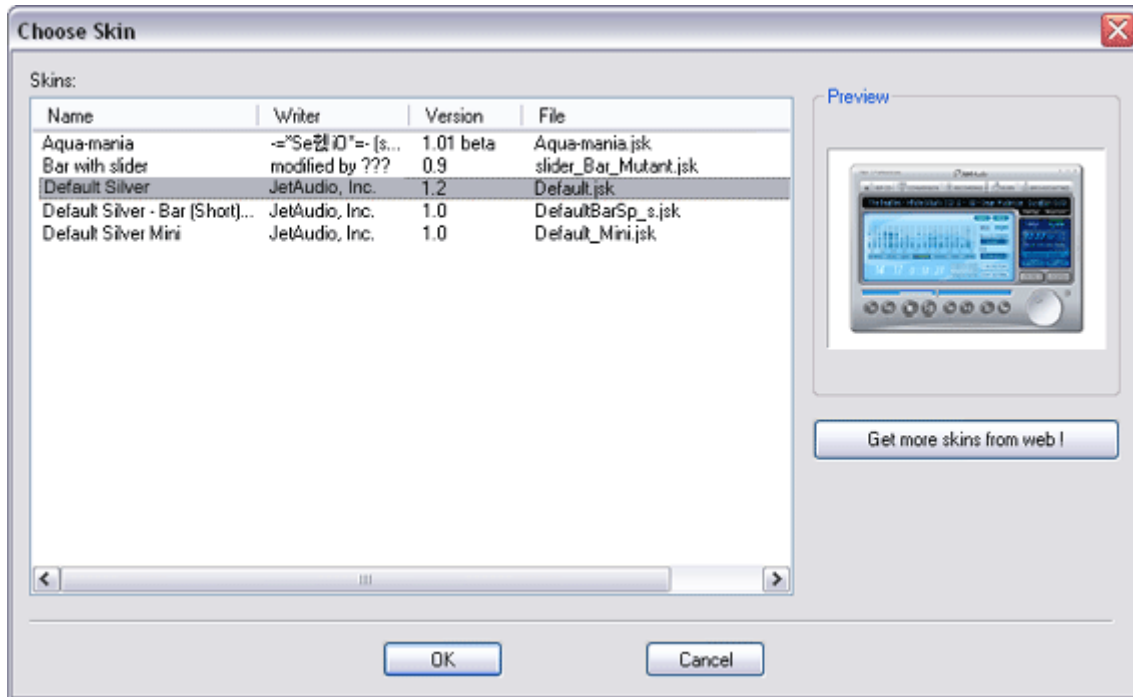
[Figure 8.35 jetAudio Advanced-Performance Preference window]

- ▷ Disable Spectrum display: Will not display jetAudio's Spectrum and this feature is recommendable for the computers with low-speed.
- ▷ CD-ROM Drive: Will not inspect CD-Rom Drive on a regular basis: availability of CD in the drive is not checked.

Note) Sometimes, there is some problems incurring due to a technical collision between anti-virus program or CD program and jetAudio. This kind of problem could be attributed to CD-ROM Control Order and if you have this problem, you just need to cancel this option.

8-7 Skin

You can change design and color of jetAudio's skin according to you taste.



[Figure 8.36 jetAudio skin preference Window]

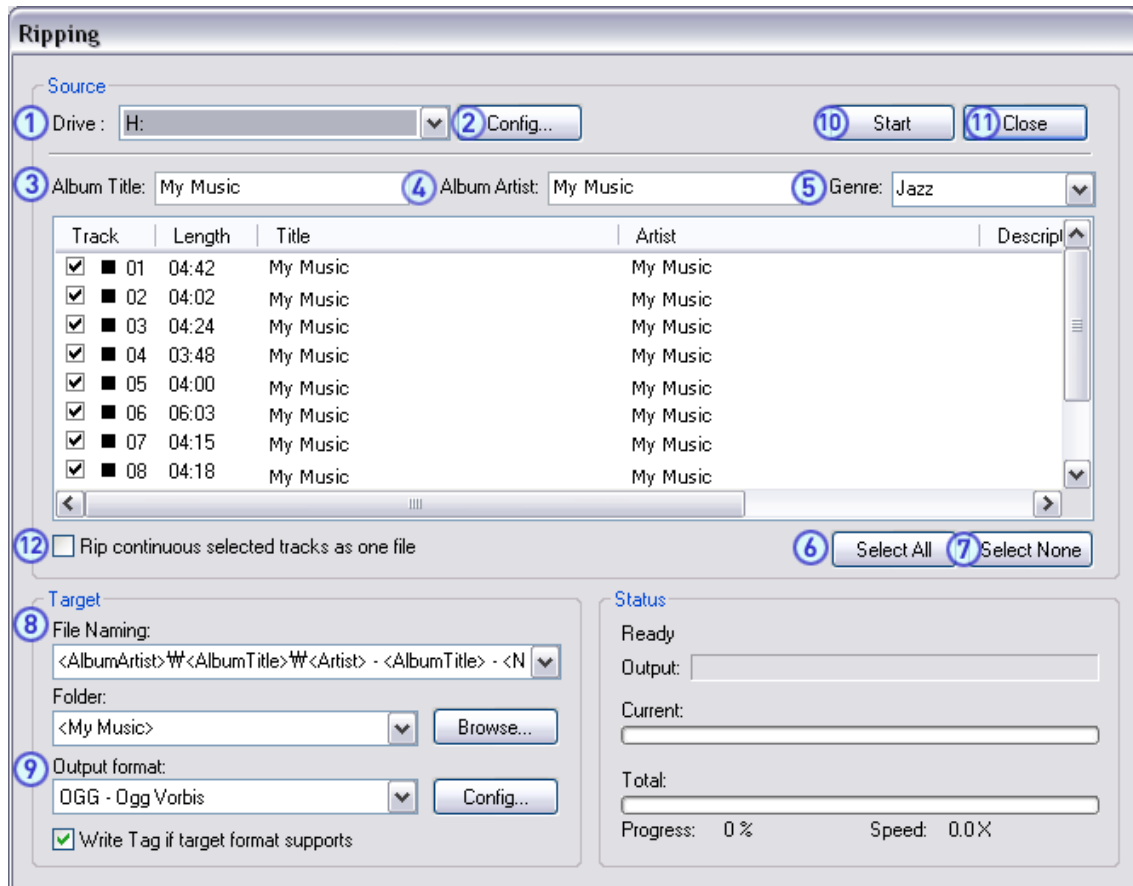
You can select the default skin, which is already registered, as Figure 8.36. You can also check the location of Skin file under Skin folder in *.jsk mode.

- Downloading from web: Go to jetAudio Skin page and download any skin of your choice. (<http://www.jetAudio.com/products/jetAudio/skins>)

9. CD Ripping



The data in audio CD will be ripped and converted to your choice of file mode and stored. The major file modes are MP3, OGG, Real Media, WAV, WMA.

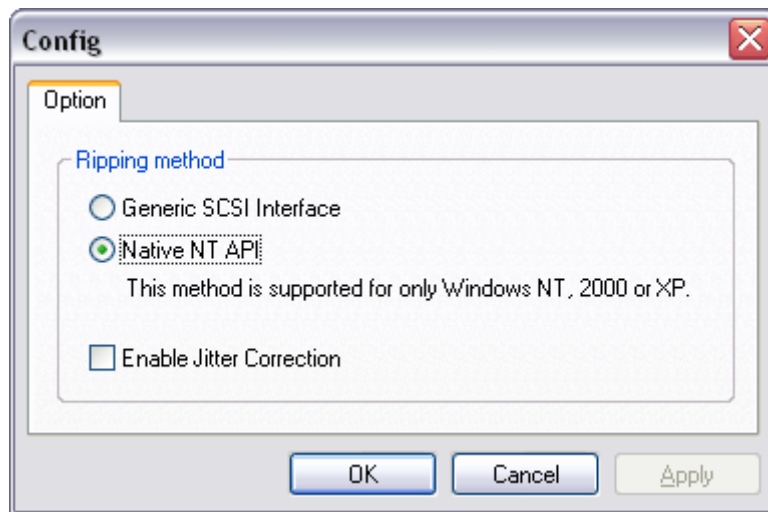


[Figure 9.1 Ripping Window]

By clicking Rip CD button, you can make necessary input in the Window 9.1.

1. Selection of Drive: Can select CD Rom by pressing arrow sign.
2. Configuration : Can select Ripping mode in the CD

There are two Ripping modes as you can see in Window 9.2. One is Generic SCSI Interface and the other is Native API which can only be supported by Window NT. You can also select Jitter Connection for noise control



[Figure 9.2 Ripping Method Configuration window]

3. Album Title: The name of an album which has been brought in from CDDB will be indicated. If an album can not be brought from CDDB or if there is no data in the CDDB, just UNKNOWN ALBUM will be indicated.
4. Album Artist: The name of an Artist.
5. Genre: You can edit genre in an album.
6. Select All : Select all tracks in audio CD (Default Value)
7. Select None : Clear all in the list.
8. File Name Mode/ Selection of folder: Folder and file can be stored according to your choice.
9. Output file format: Audio CD data can be stored as MP3, OGG, WMA, or Real Media file mode in jetAudio 5.2. Each file mode has additional sub- features which can be selected also. For example, if you select MP3 file mode you will see Window 9.3, which shows the file's additional sub- features.
10. Start: Select audio track of your choice and select the file mode to store. Click Start and then a new file will be made in the pre-selected folder.
11. Close: Window will close.
12. Rip continuous selected tracks as one file: this function is very useful when you want to rip a classic music which is divided into several tracks. For example, if track 1 and track 2 are a single music then you could select both to store them in a file..

(Caution) Must check whether it is working properly.

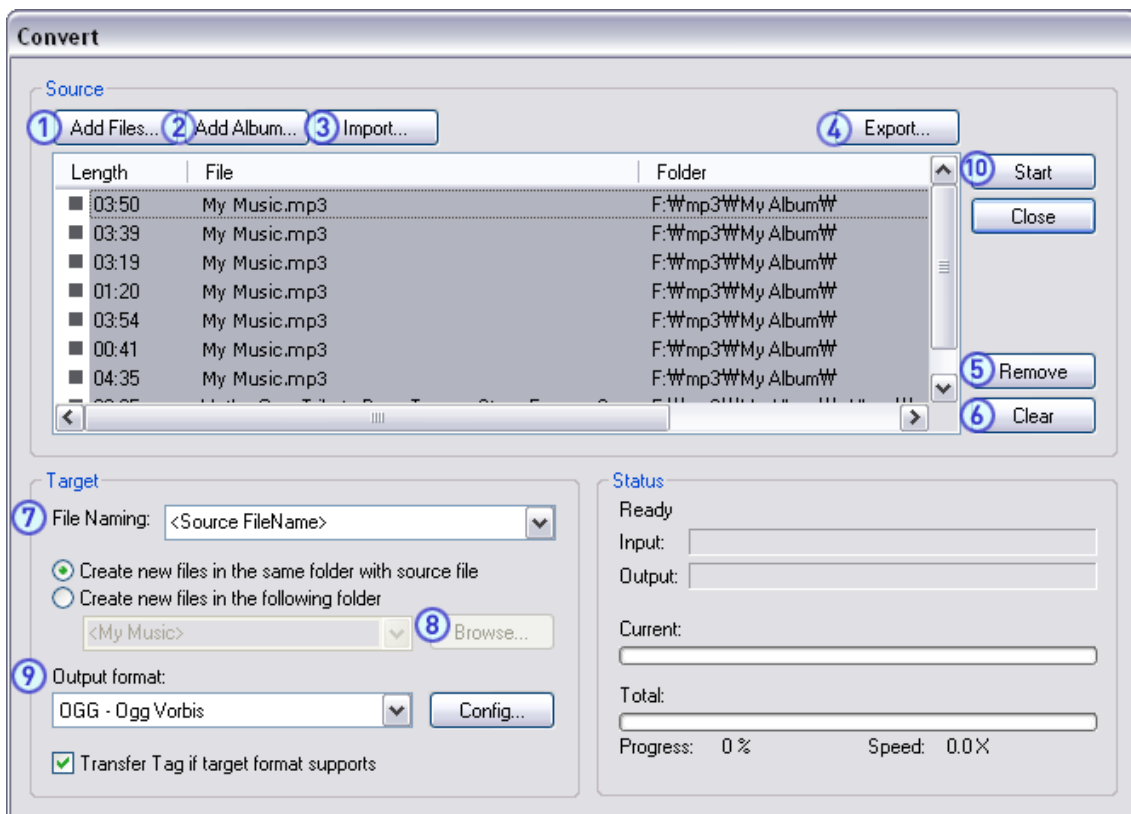
By clicking the list, the title and the artist's name can be modified. (Eg. CD made by several number of singers)

10. Conversion



This feature is used to convert a file from current mode to a different mode.

As stipulated previously in Basic Feature Chapter., jetAudio can read and play various files. Therefore, any kind of file, which is compatible with jetAudio 5.2, can be converted to MP3, OGG, Real Media, and WAV file mode.

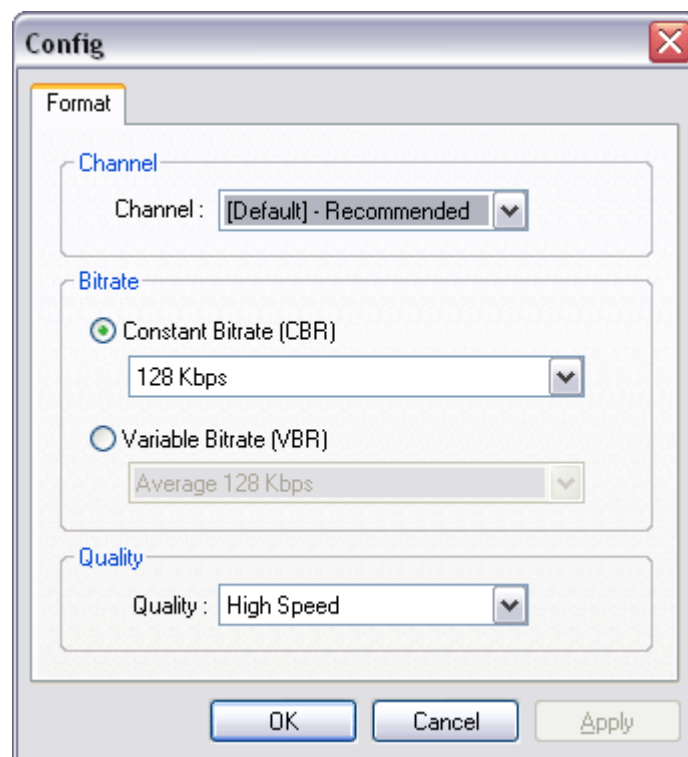


[Figure 10.1 파일변환 설정 창]

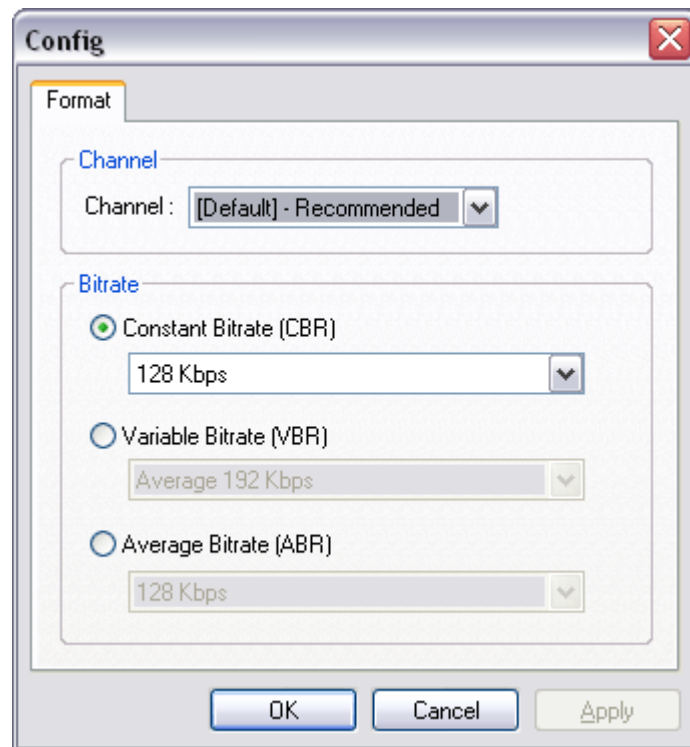
1. Add file: Can add a file for conversion by selecting a file which needed to be converted.
2. Add Album: Can add a file with already exist in albums.
3. Import: Can add files from Playlist file (PLS, M3U).
4. Export: Conversion list will be made into a playlist file (PLs,M3U)
5. Remove: Remove selected file from Conversion list
6. Clear: Remove all of current list
7. File Naming: Can make a name for a converted file. In general, the extension will be added to default file mode.

8. Selection of Directory: Selecting a directory in which the new converted file is to be placed.
9. Output Format: Various types of conversion mode are available just like CD ripping. Depending on the mode, you need to open up a specific Configuration Window to make selection of mode. For example, Window 10.2 is a Configuration Window for OGG mode.
10. Start: Select conversion list and mode, then click Start button. The conversion will start according to your selection.

Note) The conversion speed may vary depending on the respective mode.



[Figure 9.3 MP3 Conversion format window]

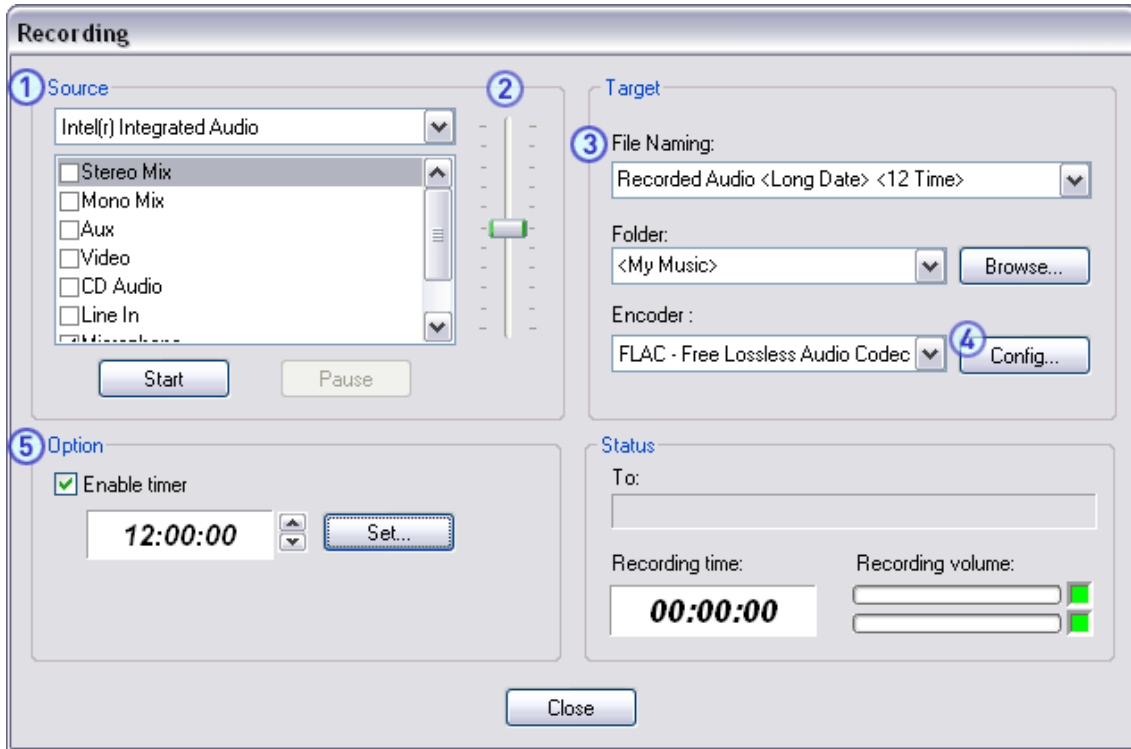


[Figure 10.2 OGG file format configuration window]

11. Recording



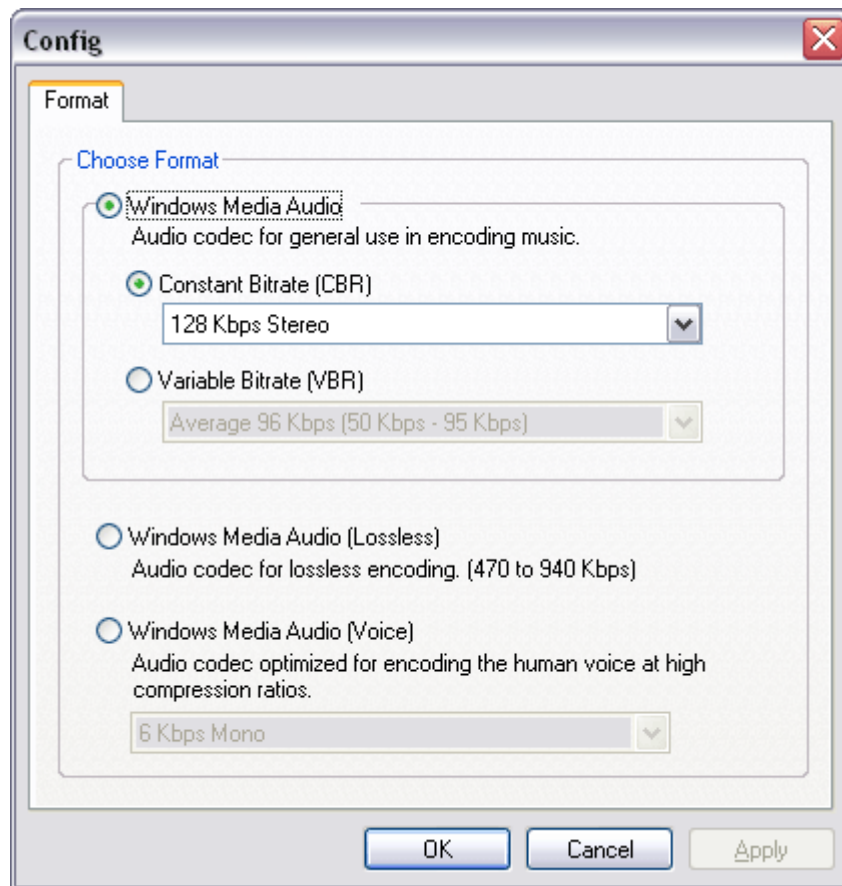
Recording is possible from various input sources.



[Figure 11.1 Recording Window]

1. Selection of source: Shows the current sound card's source.
2. Volume Control: Controls the volume of the source.
3. File Naming: Decides the name for the file that you want to record.
4. Store/Configuration Mode: Decides the Store mode regardless of source. jetAudio supports MP3, OGG, Media, WAV, and AMA mode. For example, Window 11.2 shows WMA Configuration.
5. Options: Time for Timer usage can be set: the recording will be done for the time designated. If you use Timer feature along with Alarm feature, you could activate the recording any time you want.

Tip) Starting time and Ending time of recording could be adjusted if you use Alarm and Timer feature together. (Chap 6)



[Figure 11.2 WMA File format configuration window]

The source on Figure 11.1 may vary depending on the sound card you are using. The sound quality may also vary depending on the sound card and systems.

Due to a low OGG Encoding speed of jetAudio 5.2, the recording may not be smooth in some computers..

(Examples)

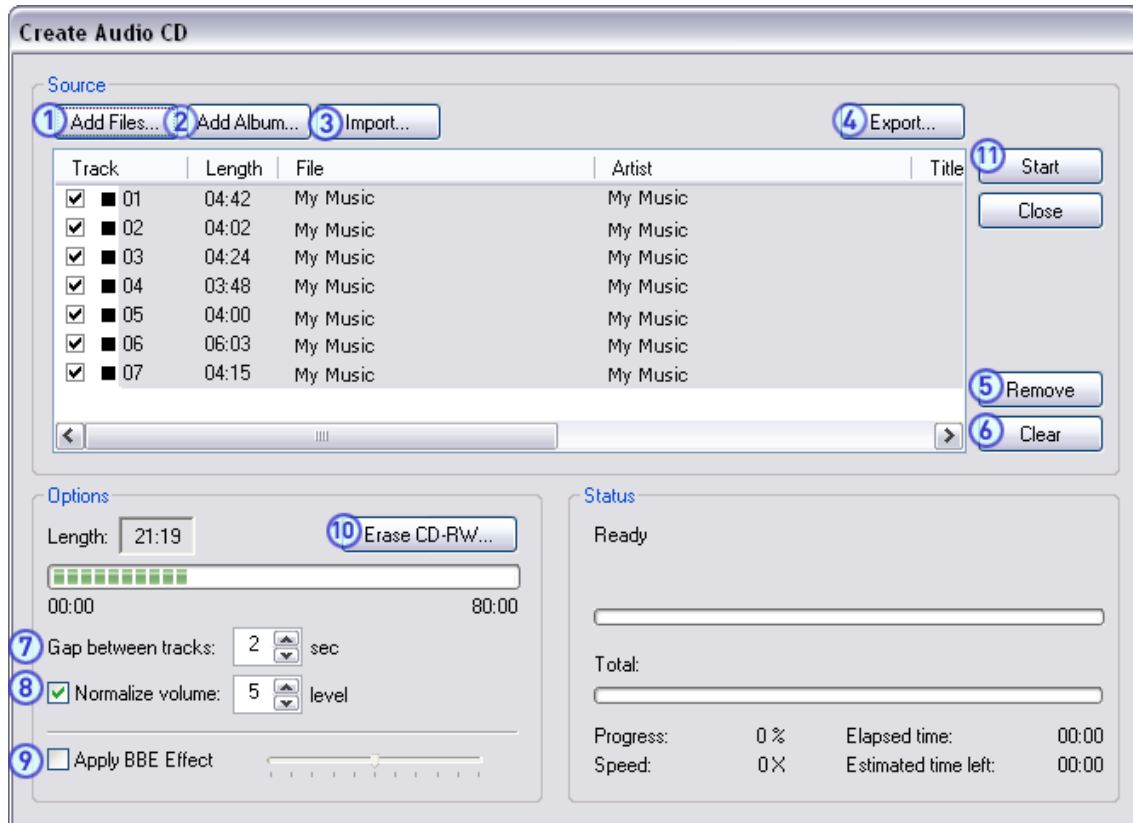
Q. How can I record a song played by internet music broadcasting?

A. First you need to click jetAudio's recording button and select WAV for source. Then select recording mode. The recording will start according to your choice of mode..

12.CD Burning



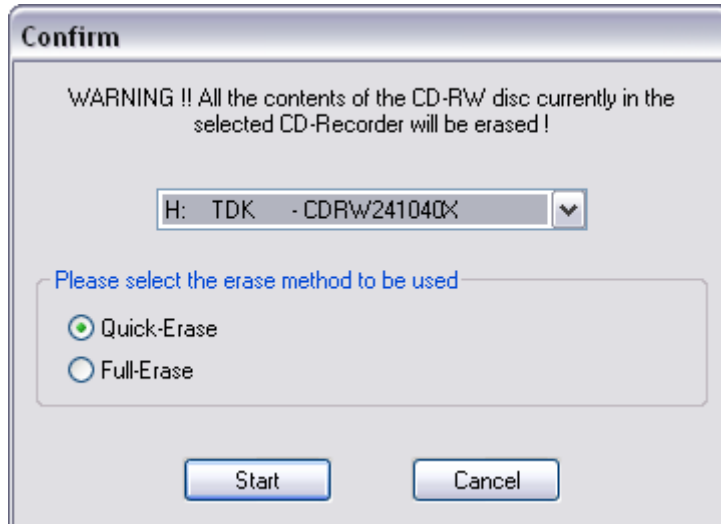
You can burn any music CD from any music files.



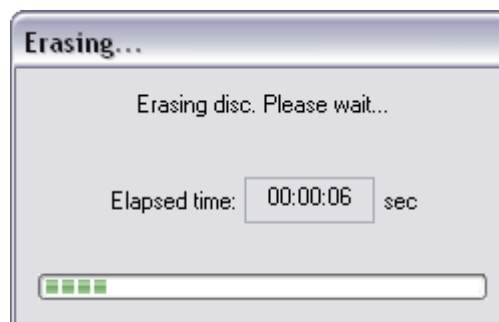
[Figure 12.1 Create Audio CD window]

1. Add File: Selects a file which is to be made into a music CD.
2. Add Album: If an album is already made then it will be made into a single CD. The size of album, (play time), must be less than that of a CD.
3. Import: If there is playlist file(m3u,Pls), this could be used as CD burning list.
4. Export: Current CD burning list will be made into a playlist(m3u,Pls)file and stored
5. Remove: Removes the selected list from the entire list.
6. Clear: Removes the entire list.
7. Gap between tracks: Can decide the length of gap between the songs. In general, it is 2 seconds but can be extended up to 4 seconds.
8. Normalize Volume: Based on each file's sound level, sound can be normalized (even sound) while making a CD.
9. Apply BBE Effect

10. Erase CD-RW: This button is for removing everything on CD-RW. When you click the button you will see Window 12.2. Then you can select Quick Erase or Full Erase.

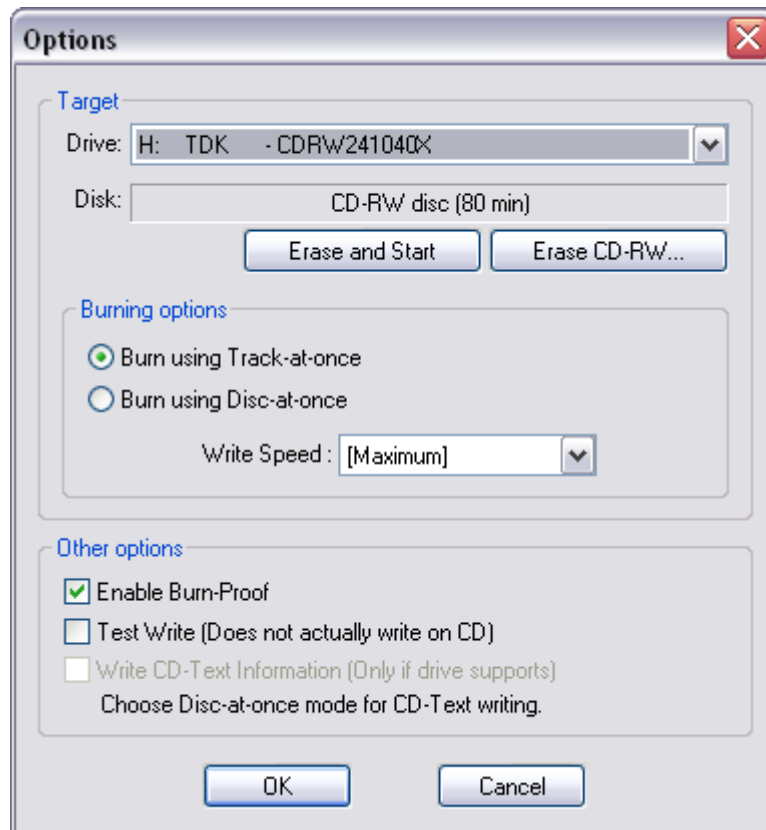


[Figure 12.2 Erase window for CD-RW Media]



[Figure 12.3 progress window]

11. Start: When erasing of CD is completed then burning will start. Figure 12.4 will be displayed, when Start button is being clicked. This particular window is for preference for order modes of each drive. Burning speed and some options can be designated also on this window.



[Figure 12.4 Burning Option window]

(1) Target

- A. Selection/Configuration of Drive: Shows a CD drive list which can burn CD. By clicking Configuration Button, you can select the mode for burning CD in respective drive.
- B. Erase and Start: If you are using CD-RW, you need to erase everything on the CD before you start burning.
- C. Erase CD-RW Disc: Erase CD-RW. There are two ways, Figure 12.3 and Figure 12.4.
- D. Burning Modes
 - * Burn Track one at a time: One track will be burned at a time to CD-R
 - * Burn Disc at once: Continuous burning of whole data to CD-R
 - * Burning Speed: Sort out the burning speed of CD-R and you can select the speed

(2) Other Options

- A. Burn-Proof 사용: Prevent "Buffer Under Run" by using Burn-Proof
- B. Test Burning: Without an actual burning on CD-R, you could try test burning to see the whole process
- C. Burn CD-Text Data: If CD-R supports CD-TEXT, you could use CD-TEXT

Start: If the empty CD and music CD list are ready, the Start button will be activated.

If you click this button the selected list will be burned into a music CD.

13. Broadcasting



By using jetCast, which is provided along with jetAudio, you can start your own broadcasting station. By clicking Broadcasting button you can take a look at the broadcasting channels in jetCast home page.

For a detailed information regarding the features of jetCast, please refer to jetCast Manual.

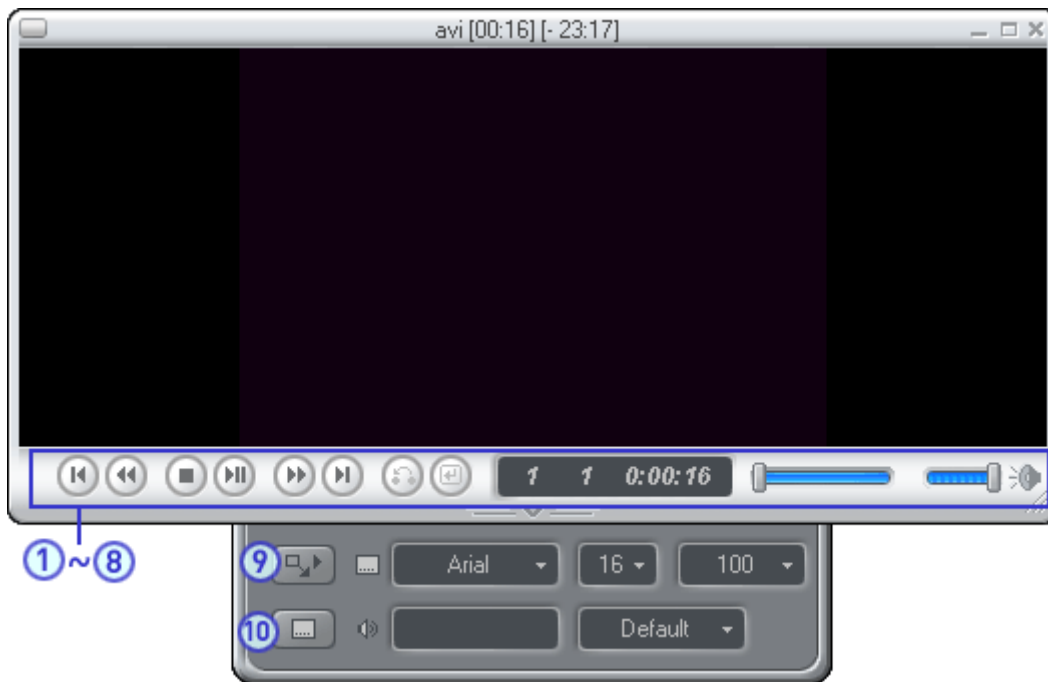
The screenshot shows the JetCast website interface in Microsoft Internet Explorer. The browser's address bar displays http://www.jetaudio.com/jetcast_directory/. The website has a green header with the JetCast logo and navigation links: Home, Listen, News, Download, Forum, and Help. Below the header, there is a language selection dropdown set to 'English' and a search box. The main content area is titled 'Broadcast List' and features a 'Browse' dropdown menu set to 'All Genres'. Below this, there are pagination options: 'List 20, 25, 30 per Page' and 'Page 1 of 2 [Next]'. The main table lists broadcasting stations with the following columns: Rank, Listen, Genre & Title, Description, Listeners, and Speed.

Rank	Listen	Genre & Title	Description	Listeners	Speed
1		My Station [CJ :] Unknown	JetCast Station	0/50	128
2		fust cool [CJ : zaka] Unknown	JetCast Station	0/0	128
3		Grays Harbor Broadcasters [CJ : Smoke] Pop/Rock	CHR hits of the past from the best music stations in the Pacific Northwest That sound just like you remember them.	3/10	56
4		Grays Harbor Broadcasters [CJ : Smoke] Pop/Rock	CHR hits of the past from the best music stations in the Pacific Northwest That sound just like you remember them.	3/10	56
5		CREATIVA RADIO [CJ :] Pop/Rock	QUALITY MUSIC - QUALITY SOUND - QUALITY PEOPLE - BEST LISTENING TO WITH WINDOW \$ MEDIA PLAYER	1/50	128
6		Rhythm:: [CJ : Riever] R&B/Soul	Home of great Rockin' Blues - and more! We're on more than we're off, now, so come on in - and enjoy!	1/10	48
		"WINE" Vintage rock radio [CJ : The Green]	Vintage rock from the 60's 70's & 80's. We play music from Van Halen, Pink Floyd, Rush & Pat Benatar to name a few. Plus yo		

[Figure 13.1 jetCast Home Page]

14. Digital Video Playback

You can play various audiovisual files with jetAudio 5.2. If an audiovisual file has subtitles, the subtitle can be displayed also. There are two types of Playback Windows, 14.1 and 14.7.



[Figure 14.1 General Digital Movie File Play Window]

14-1 Basic Feature

- (1) Play and Stop: Can play and Stop the current file
- (2) Stop: Can stop the currently playing file.
- (3) Quick FW and RW: Can inspect the file by fast FW and fast RW
- (4) Move to Next: If there are several play lists, move to previous or next list.
- (5) Timer Window: Can select elapsed time or current proceeding time.
- (6) Quick Slide Bar: can move to any location.
- (7) Volume Control Bar: Can control volume.
- (8) Mute: eliminate any sound temporarily.
- (9) Selection of Screen size: Adjust the size of screen.
 - General size: Maybe played in the original size of file.
 - Total Screen (general): Expanded full size screen.

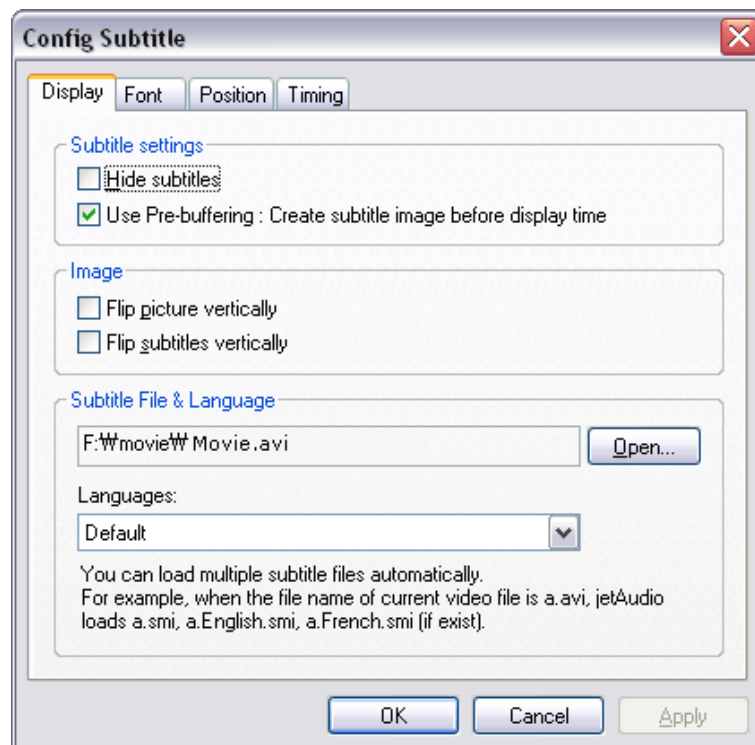
- Total Screen (width): Enlargement Based on the width of screen.
- Total Screen (height): Enlargement Based on the height of screen.

(10) File with subtitles.

- A. Selection of Font: can select Font.
- B. Selection of letter size: can select letter size.
- C. Subtitle Window: Can select features regarding subtitles

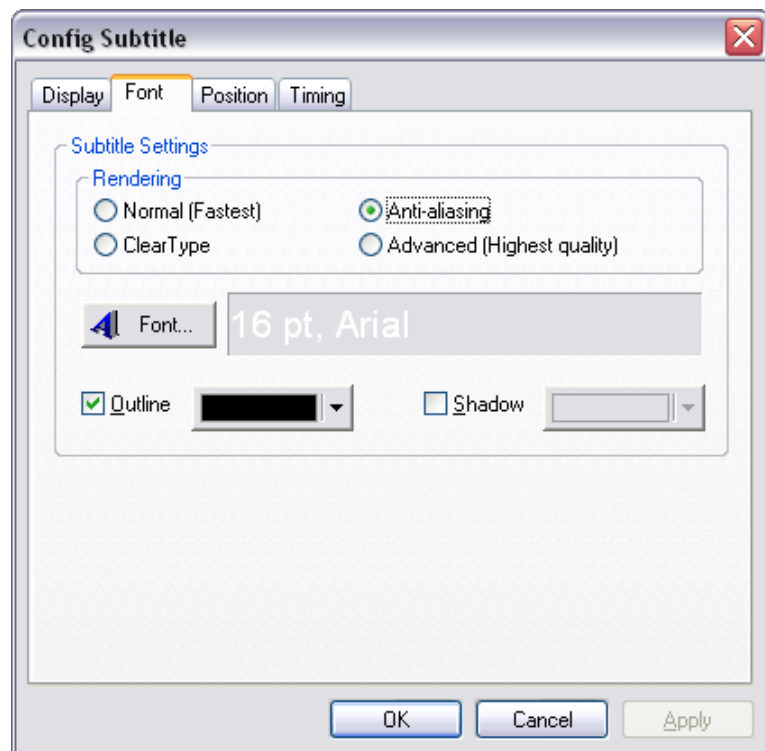
- Screen
 - I. Hide Subtitle: Hide Subtitle.
 - II. Pre-buffering: mismatch between scene and subtitle can be eliminated.
 - III. Vertical Screen Flip: Flips the screen vertically
 - IV. Subtitle Screen Flip: Flips the subtitle vertically..
 - V. Selection of Subtitle File/Language: Regardless of extension, if the name of the file and the default value are the same, jetAudio will recognize the file and play it.

(CAUTION) The name for the basic subtitle file will be identical with that of the file which is to be played.



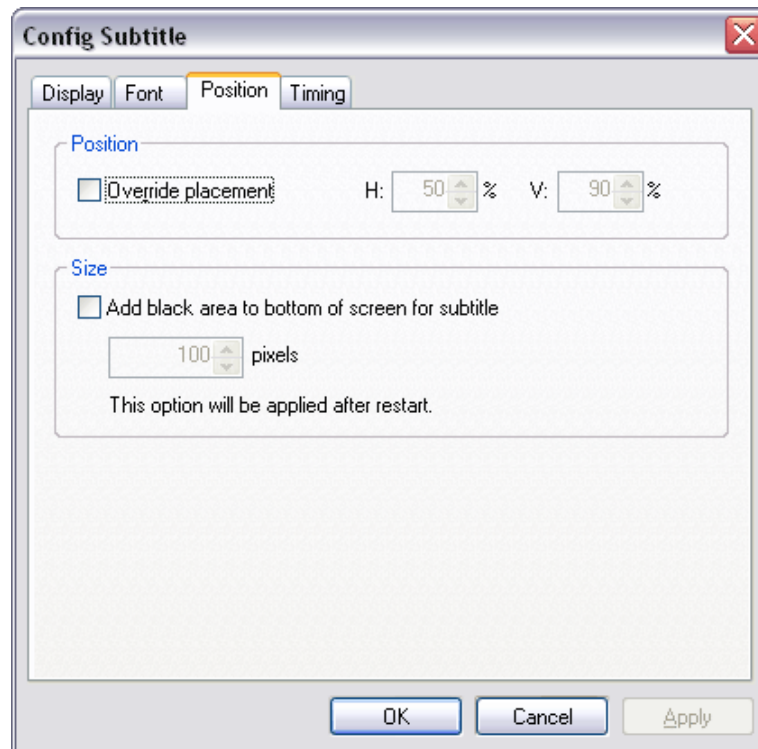
[Figure 14.2 Sub-Title Configuration window]

- Font Window
 - I. Advanced Renderer: Can improve the quality of screen. This may cause irregularities on the screen since this feature increases CPU. If this happens, you can cancel this feature to resume its original state.
 - II. Selection of Font: Can select Font.
 - III. Selection of Font Outline: Can select a color for Font Outline.
 - IV. Selection of color for Font Shadow: Can select a color for Font Shadow.



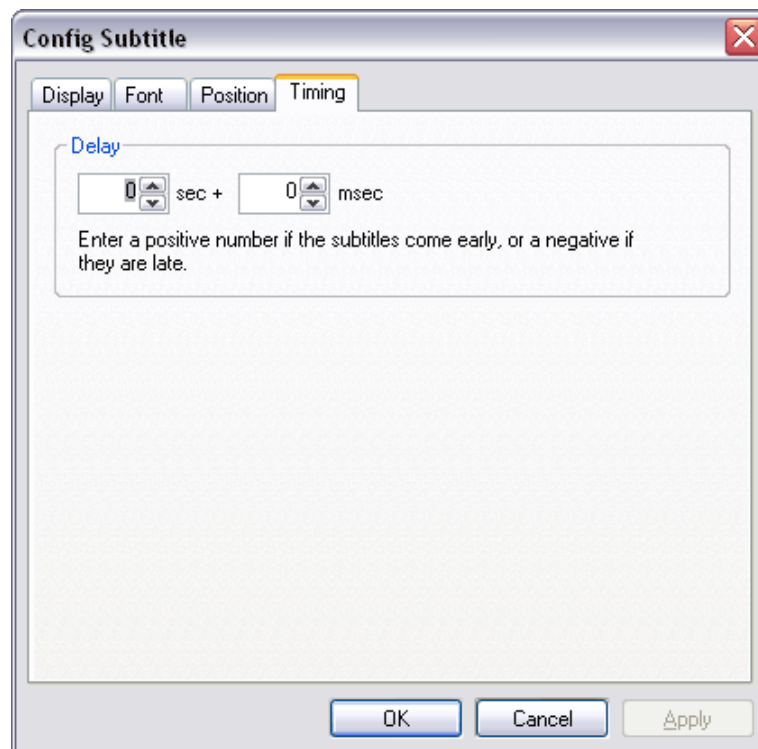
[Figure 14.3 Font Configuration window for sub-title]

- Position of Subtitle
 - I. Location: The location of subtitle can be adjusted based on vertical and horizontal ratio.
 - II. Size: The thickness of subtitle can be adjusted.



[Figure 14.4 Position Configuration window for sub-Title]

- Timing:

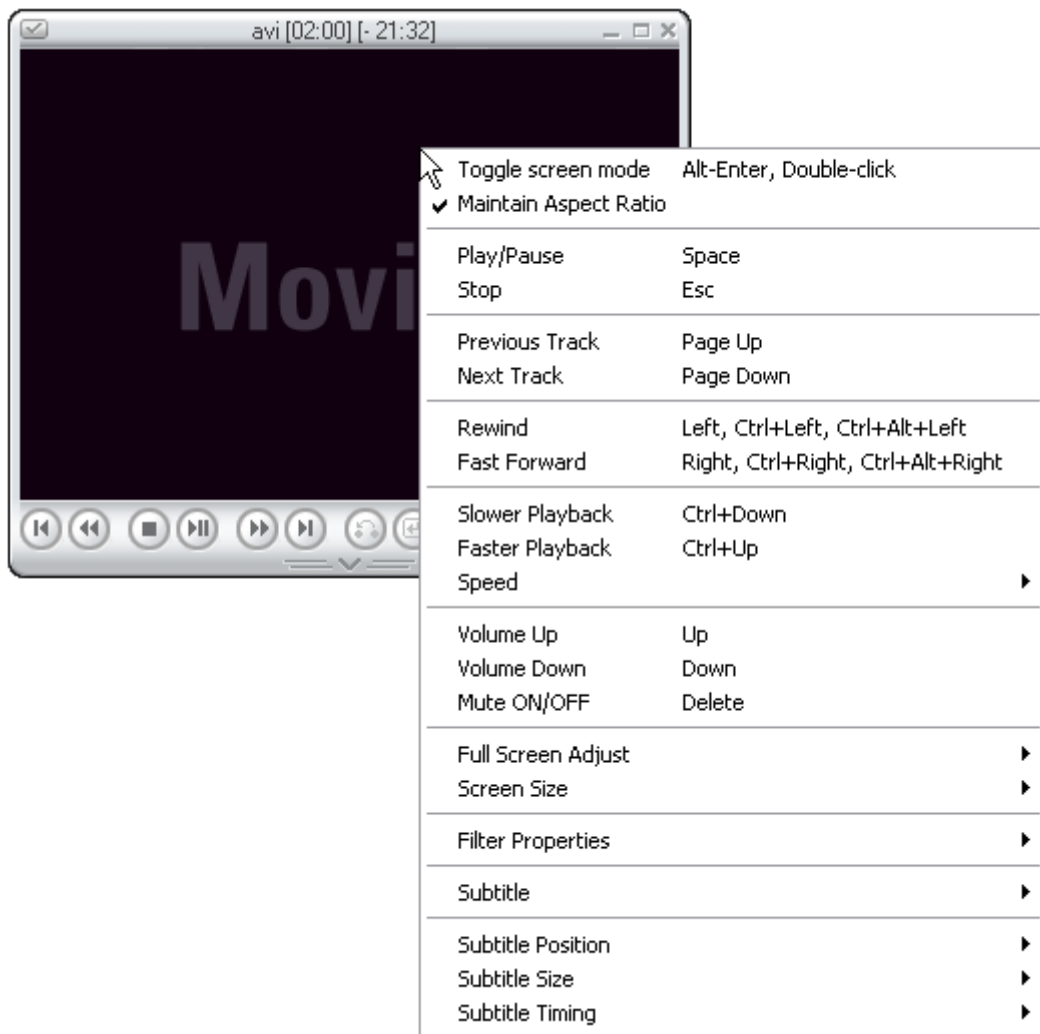


[Figure 14.5 Timing Configuration Window for Sub-Title]

By forwarding (+) and rewinding (-) timing, you can adjust the screen and subtitle to match properly..

Some of the frequently used functions among the above functions can be controlled at the menu window by clicking right mouse button or by using Hot key.

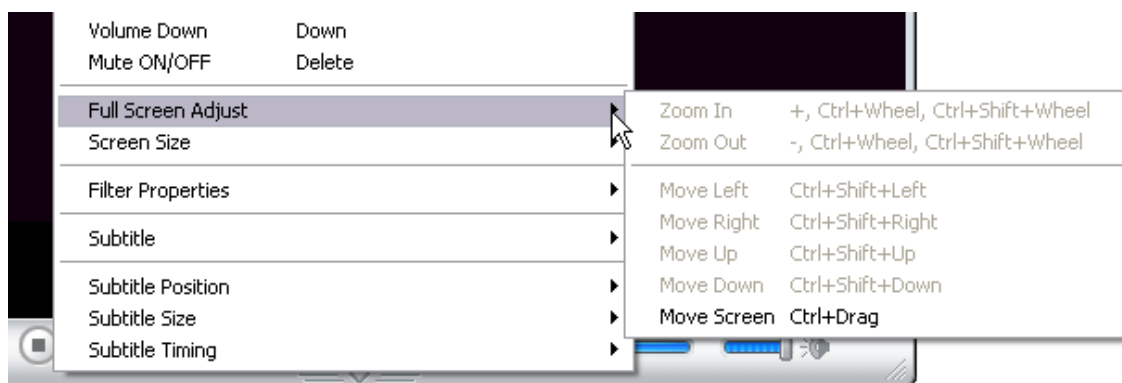
14-2 Menus



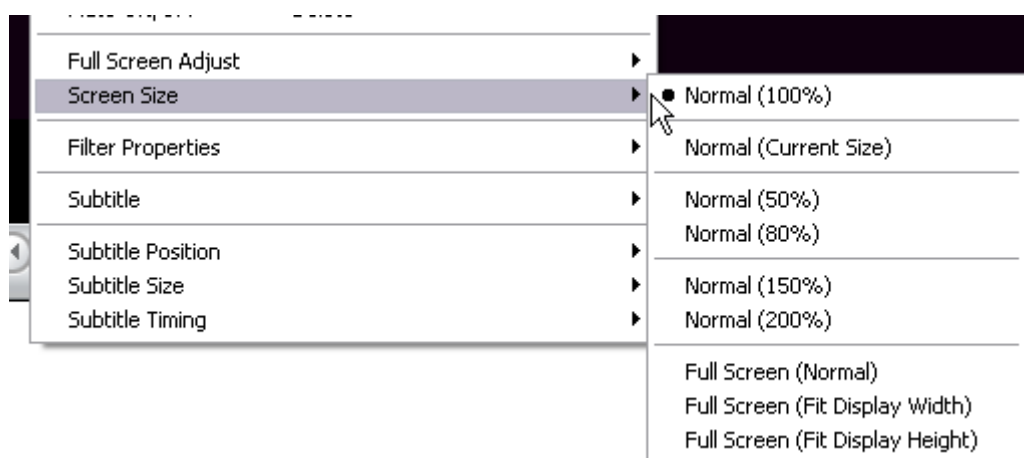
[Figure 14.6 Menus for Digital Movies]

- (1) Toggle of Screen Mode: The size of screen can be adjusted to full size or to the original size
- (2) Maintain Aspect Ratio: keep the default ratio designated previously
- (3) Play / Pause: Play / Pause function.
- (4) Stop: Stops completely

- (5) Previous Track: if there are multiple number of playlists being registered, then goes to the one in front of the current track
- (6) Next Track: if there are multiple number of playlists being registered, then goes to immediate next track
- (7) Fast RW: High speed rewinding
- (8) Fast FW: high speed forwarding
- (9) Slow playback: Slows down the playback speed
- (10) Fast playback: Speeds up playback
- (11) Speed: You can designate playback speed
- (12) Volume Up : Increase volume
- (13) Volume Down: Decrease volume
- (14) Mute On / Off: Turn on or off Mute
- (15) Full Screen Adjust: Refer to Figure 14.7
- (16) Screen Size: Size of screen can be adjusted as figure 14.8



[Figure 14.7 Full Screen Adjust Menus]



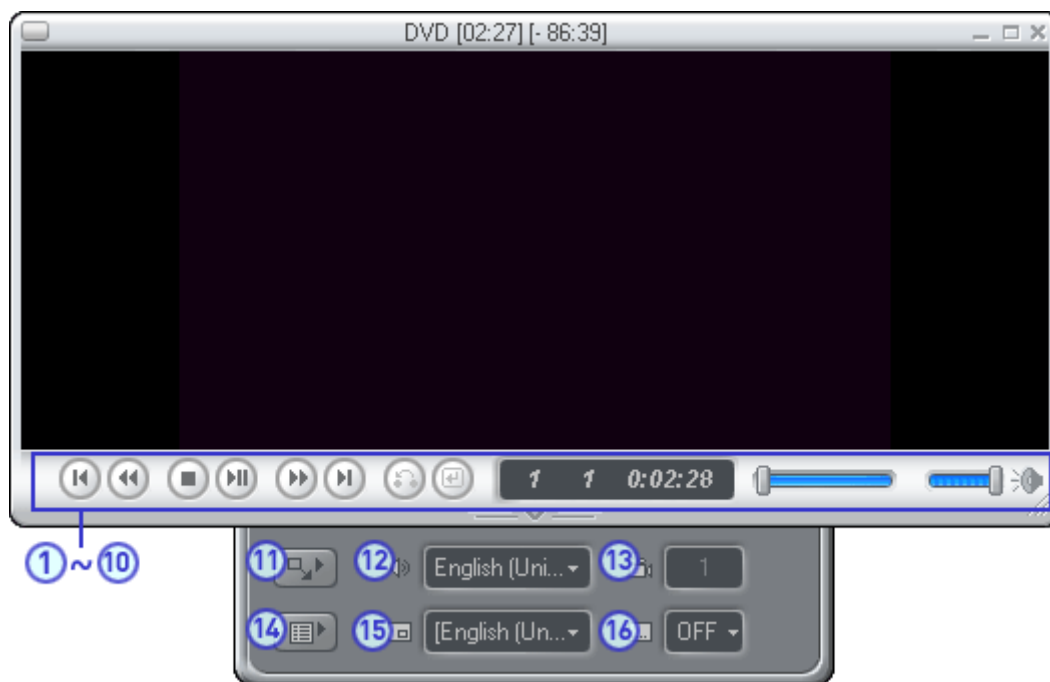
[Figure 14.8 Screen Size Menus]

14-3 DVD Playback

This Chapter is pertaining to DVD playback.

DVD Decoder is not included in jetAudio version ,therefore, DVD title will not be activated if DVD decoder has not been installed.

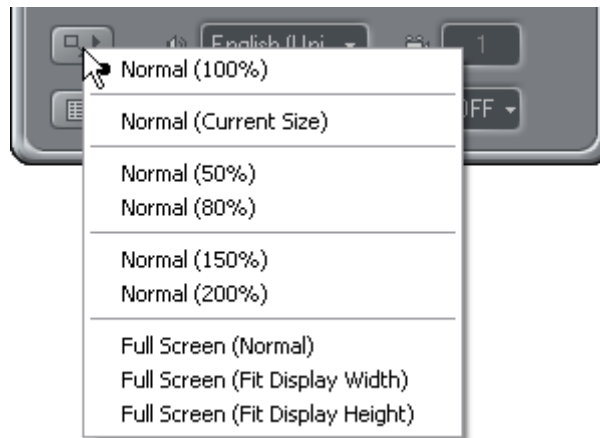
Although DVD Window has similar playback window as that of digital audiovisual, there are some dissimilarities in menu options.(Figure 14.2)



[Figure 14.8 DVD Play Back Window]

- (1) Move to previous chapter: goes to previous chapter.
- (2) Fast RW: fast RW
- (3) Pause: Pauses playback
- (4) Play / Pause: Play / Pause
- (5) Fast Forward: Fast FW
- (6) Next Chapter: Move to next chapter
- (7) Title: Displays the number for title
- (8) Chapter: Displays the number for chapter
- (9) Instant Slide Bar: Moves to any location of your choice instantly
- (10) Volume: Can adjust sound volume

(11) Selection of Window size: Size of window can be adjusted



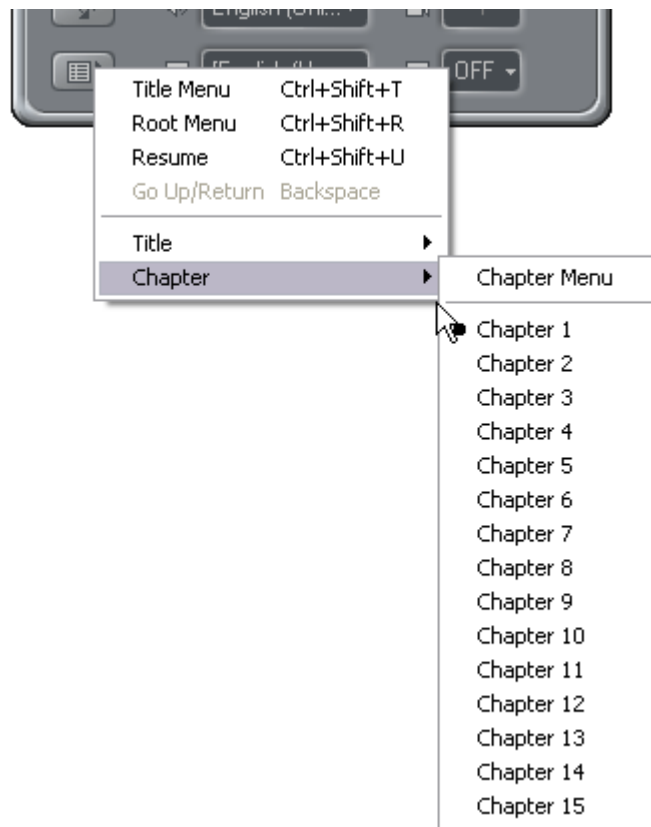
[Figure14.9 Window Size menus]

- I. General: Use general size of DVD title
- II. Full size (general): general size will be expanded to full size
- III. Full size (based on width): Expand to full size based on width
- IV. Full size (based on height): expand to full size based on height

(12) Language Menu: Can select a language from DVD title

(13) Camera Angle: If there is a screen taken from a different angle, and if DVD title supports that particular angle, you can select that angle.

(14) DVD Navigation: Displays menu which enables you to select general preference and the detailed functions such as title language or sound output.



[Figure 14.9 DVD Navigation Menu]

- (15) Subtitle Menu: Can select subtitle in the title.
- (16) Selection of Closed Caption: There may not be a subtitle in some DVD.
In those cases, if you select Closed Caption, you can view the subtitle.

Appendix

1. Terms.

CDDB: There is ID number for every music CD. By using this ID you can search internet music database. If the database has the data for the music CD, jetAudio will automatically download this data. This database for music CD is called CDDB. CDDB has almost all of music data of the world. You can also upload music CD data to CDDB..

MP3: Compresses audio data for downloading. This is part of MPEG1 MPEG2 features. In general, the size of music file in CD is approximately 30MB to 50MB; however, by using MP3 technique you can reduce it to one twelfth size of the original size while maintaining the same level of high sound quality..

OGG : (OggVorbis) is a newly created compressed audio format. It is known for having better sound quality and bit rate than MP3. This format also is under GPL Agreement of GNU as Linux..

APE : (Monkey's Audio File Format) The existing compression method is defined as Loss Compression Method and APE method is defined as a Lossless Compression Method. Although APE is lossless the size of the file is much larger than other files and this can be a shortcoming of APE.

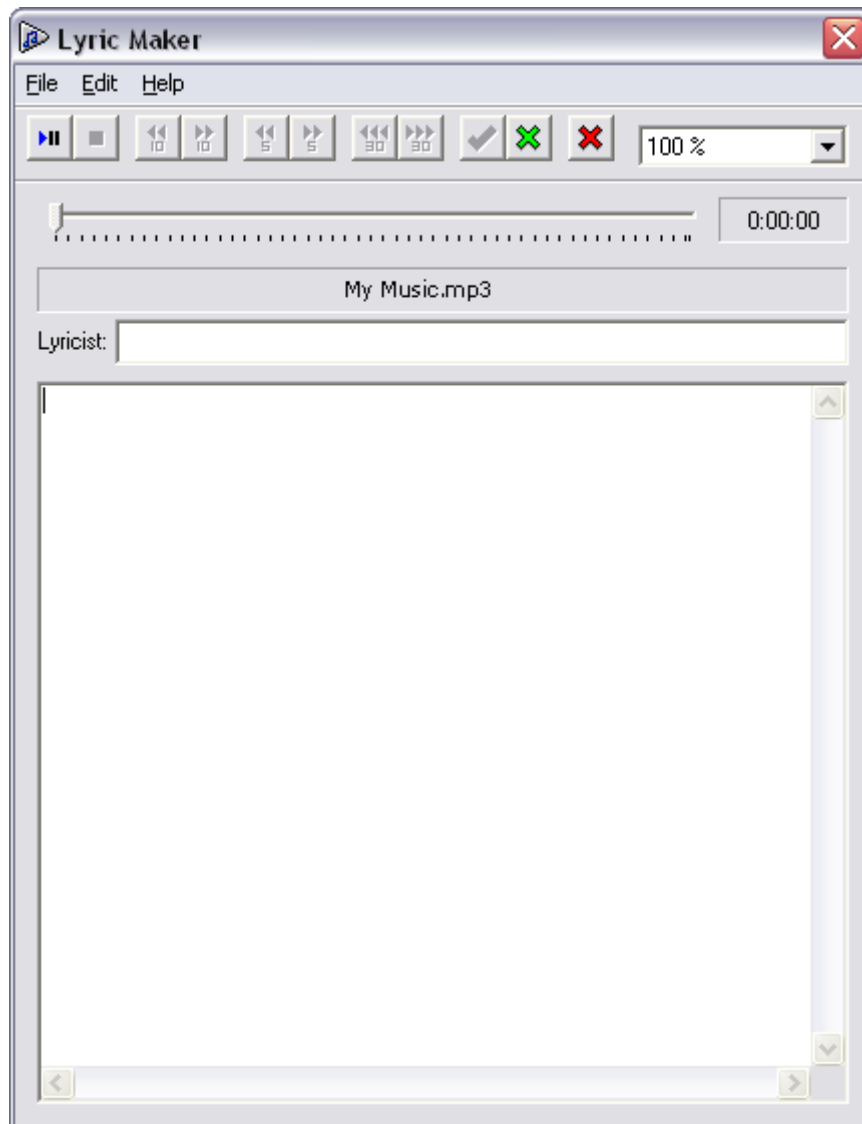
FLAC: (Free Lossless Audio Codec): A Lossless Compression Method: source and spec are open to public. Large size of file is a shortcoming.

MPC: (MPEG Plus): A method which reduces sound loss at a high bit rate and seems to have better sound quality than MP3

DirectX: An Application Program Interface which manages graphic image and multimedia effect of the games or the animated web page on Window. This can be downloaded from www.microsoft.com/directx.

2. Lyric Maker

JetAudio supports two kinds of lyric; the general lyric, not a synchronized lyric (refer to jetAudio Manual 7-11) and Synchronized lyric. This particular section is for Lyric Maker for synchronized lyric exclusively.

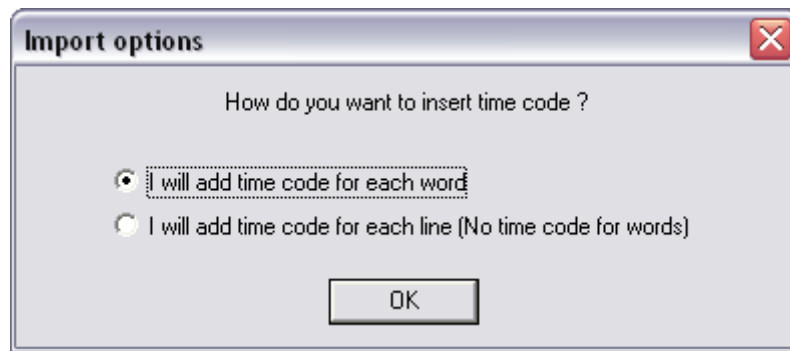


[Figure A-1 Lyric Maker]

1. The Parts and Explanation

- File Menu

- (1) Open: Reads MP3 file to which the synchronized lyric is to be stored.
- (2) Close: Closes the file
- (3) Save Lyric to TAG: Store the lyric on tag
- (4) Open Lyric File: reads the file stored as TXT (no options)
- (5) Save Lyric: Store lyric file: stores lyric file as TXT file.
- (6) Import Lyric: Bring-in lyric: there are options available for reading lyric from TXT file.



[Figure A-2 Import Option Window]

When you select Bring-in Lyric, figure A-2 will be displayed. Then select option of your choice and Lyric Maker will automatically sort out the lyric of your choice.

- (7) Bring-in from Clipboard: Brings the lyric from clipboard. Go to internet lyric site or other lyric file sites and select the lyric of your choice by clicking mouse. Then click Copy and bring in the date.
- (8) End : ends the program

- Menu for editing: this menu is related to editing of general text file.

- (1) Cancel: cancels the latest editing
- (2) Cut: cuts the selected section
- (3) Copy: the selected section will be copied to clipboard
- (4) Paste: copies the data on the clipboard and paste it to Editor
- (5) Select All: copies all characters in the Editor to the Clipboard
- (6) Cancel All: Cancels all data in the Editor

- Toolbar



[Figure A-3 Lyric Maker Tool Bar]

- (1) Play/Pause (F2): Plays and pauses MP3 file with synchronized lyric
- (2) Stop (ESC): stops the playback
- (3) Rewind 10sec (F3): rewinds 10 second of play time
- (4) Forward 10sec (F4): forwards 10 second of play time
- (5) Rewind 5 sec (F5): rewinds 5 sec of play time
- (6) Forward 5 sec (F6): forwards 5 seconds of play time
- (7) Rewind 30sec (F7): rewinds 30 sec of play time
- (8) Forward 30sec (F8): forwards 30 second of play time
- (9) Insert Time Cord (F9): inputs time cord on a selected line
- (10) Remove Time Cord (F10): removes existing time cord from a selected line
- (11) Remove all (Alt+Delete): all the data for synchronization will be removed.
- (12) Speed Control: Adjusts the playback speed of file. The speed can be adjusted from 50% to 200%.

(Note) Speed adjustment is only possible prior to playback; the speed can not be adjusted during playback time

2. Usage

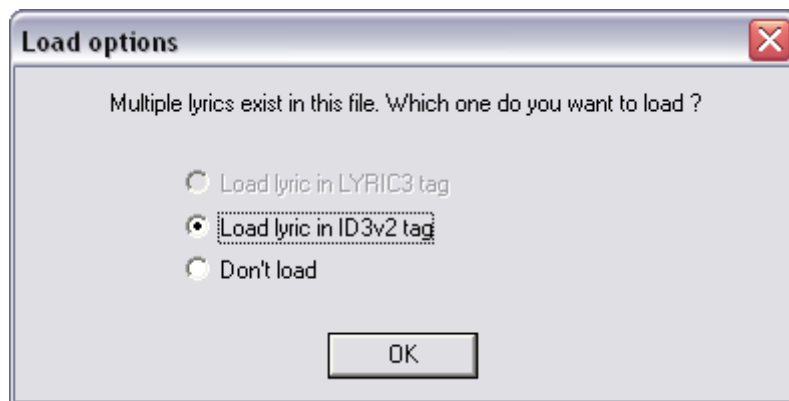
There are several usages available and this section stipulates the general usage.

- A. Open MP3 file to which synchronization is to be made.
- B. Input the lyric
- C. Select a speed for playback
- D. Click Play button and click synchronization input button on the toolbar. Then input the lyric.
- E. After the completion of lyric input, store the lyric on the file menu at Tag.

Tip) The initiated space row (Completely empty space) has different meaning in Lyric Maker. For example, if you see the initiated whole space row between paragraphs, that tells you the different subject or contents from the statements above.

3. Confirmation

You may confirm the status of synchronization, by selecting Read at File and then by selecting the file that you have been working on. Then figure A-3 will be displayed. Make a selection on A-3 and run it through jetAudio and confirm whether the synchronized lyric is played precisely.



[Figure A-3 Read Option for Lyric Maker]