

## **About MusicMatch Jukebox**

Welcome to the MusicMatch Jukebox, the world's first integrated CD ripper, MP3 encoder, Jukebox, and Player! Digitally record and MP3-encode tracks from your CD library in a single step, creating CD-quality MP3 files at speeds of up to 5x faster than normal play speed.

With MusicMatch Jukebox you can record all your favorite songs onto your PC hard drive, creating a database for playing customized song lists. Multiple record modes (digital and analog) and compression modes (MP3, RealAudio and WAV) allow you to customize the recording process.

In addition to recording from CDs, you can add songs to your database from outside sources. Download singles from our web site at [www.musicmatch.com](http://www.musicmatch.com) or simply add your existing MP3, WAV or RealAudio files to your Music Library.

### Player

Create Manual or Automatic Play Lists to play on your PC speakers or connect your PC to your home stereo system with our [Connects Cables](#). Save your customized Play Lists for future sessions.

### Music Library

Define the tracks in your Music Library by assigning sorting characteristics (title, artist, genre, tempo, etc.) for each song recorded. Add songs into the Jukebox from the MusicMatch web site or from your hard drive.

### Track Info

Add CD cover art, track lyrics, and artist notes to view while a track is playing. If you like a song you have downloaded from the MusicMatch web site, choose Buy CD to purchase the CD online.

### Recorder

Record unencrypted songs from a CD using your PC's CD-ROM drive, in MP3, WAV or Real Audio compression formats. You may choose either digital or analog mode and select your compression rate from CD Quality, Near CD Quality, FM Radio Quality, or Custom Quality.

### **About MusicMatch Jukebox Help Files**

These Help Files are organized to correspond with the buttons and menus on the program.

For example, if you are having troubles recording, go to the Recorder section of the help files, and seek your topic from those listed or by searching Index words. You can also use the Find option and enter a key word to search for all topics associated with that key word.

These Help Files are written specific to the Classic theme. While there may be subtle differences in the layout of each theme, the same basic functionality remains.

## Getting Started

When you download MusicMatch Jukebox you will have a fully functional program with unlimited, [Near CD Quality](#), ripping/encoding at 96 kbps or lower. To rip and encode [CD Quality](#) tracks at 128 kbps or higher, you must register your copy of MusicMatch Jukebox. See the [Purchase](#) section for a description of your options. Once you have registered a copy of MusicMatch Jukebox, you are entitled to free lifetime upgrades.

Smart upgrades help minimize the download time if you are upgrading to version 4.0 from an earlier version of the program. Only files with changes since your last download will be overwritten. Your music directory will not be affected by an upgrade except that you will need to add the tracks to the Music Library again. MP3 track information tags, saved playlists and saved databases that were created using an older version of the program will also not be overwritten when you install version 4.0 or any MusicMatch upgrade.

To add tracks from your existing MP3 collection into MusicMatch Jukebox, click [Add New Track to Music Library](#) from Options/Music Library, and browse for your music directory.

Open the Music Library by choosing Options/View/Show Music Library.

To [record tracks](#) from your CD library into the MusicMatch Jukebox, put a music CD in your CD-ROM drive and open the Recorder by choosing Options/View/Show Recorder. Select the tracks you want to record and choose Start from Options/Recorder/Control. The recorded tracks will be added to your [Music Library](#).

To play your music, manually drag and drop, or double click, the tracks from your Music Library into the [Play List](#) window, or choose Options/Playlist/AutoDJ and click on AutoDJ to create Automatic Play Lists, then click 'Play'.

The Options menu is available from most areas of the Jukebox with a right mouse click.

## Getting Started – Player/Playlist

To create a play list, add tracks from your [Music Library](#) to your Playlist screen. Drag and drop a track from your Music Library into your Playlist screen or simply double click the track in the Music Library.

Click the right micro arrow, to the left of the AutoDJ button, to increase the size of the Playlist screen, or simply click and drag the edges of the screen to the desired size. The Playlist screen is detachable from the Player by clicking the border and dragging to the desired location.

You can add several tracks at once to the Play List, by holding down the shift key, and highlighting several songs in a row or holding down the control key, to add several songs that are not grouped together. You can add an unlimited number tracks to a single Play List, from your music database. To facilitate song selection, you can select category names and order from the Music Library Settings and sort your database in alphabetical order in any category by clicking on the category heading.

You can preview tracks before adding them to your Play List by highlighting the track in the Music Library and choosing Options/Music Library/Preview Track or from the Music Library screen, click the 'Track Indicator Arrow', in the left border, to preview a track before adding it to your play list. Delete tracks from the play list by highlighting the track in the play list and using the Delete key on your keyboard or delete an entire play list by clicking the 'Clear' button seen in the extended Playlist screen.

Choose Play from the [Player Control Buttons](#) to listen to your music or double click the song title in the Play List. The track title will be prominently displayed in the screen under the Play Control Buttons. Song time elapsed and total song time will be displayed to the right of the Play Control Buttons.

If [CDDB](#) does not return any CD information, and you choose not enter it manually, the track, as it is titled (Track 1, Track 2, etc.), and track time, will be displayed.

[Enter song information](#), such as song lyrics and artist notes, which will be displayed in the [Track Info screen](#) each time the song is played. You can also scan the CD jacket for display in the Player.

You can [save](#) your Play Lists for future sessions, or simply [clear](#) the Play List screen to create another Play List.

The Options menu is available with a right mouse click on much of the Player screen.

## **Play Control**

The Play Control Buttons all apply to the current play list, except Rec, which will open the Recorder screen.

Volume Control is found to the right of the Play Control Buttons. Click and drag the volume button to adjust playback volume.

The same Player functions are available under the Option menu in Player/Play Control. The Mute option is only available in the menu. To set up 'Skip' options, see Player Settings.

**I-Music**

Click the globe button on your Player to visit the [MusicMatch web site](#) where you can download free music to your Music Library. Also available is music for purchase, from independent artists, found exclusively on the MusicMatch web site.

**Music Library Button**

The Music Library Button opens the Music Library screen. The Music Library button is located on the Player screen, regardless of the selected theme. You can also open the Music Library from Options/View/Show Music Library.

**Track Info Button**

The Track Info Button opens the Track Info screen. The Music Library button is located on the Player screen, regardless of the selected theme. You can also open the Track Info screen from Options/View/Show Track Info.

## **CDDB Preferences**

CDDB is a database comprised of thousands of artist, album, and track titles. When you insert a CD in your CD ROM drive and open the recorder screen, if you are connected to the Internet, your program will call up your web browser and make a connection with this site. It will match the serial number of your CD with their records and import all title, artist, and track data into the Recorder screen. This information will cross over to the Music Library upon recording completion.

This feature removes the necessity of filling in all of the CD disk data manually. There is no fee for using this service.

If CDDB does not return any information, your track titles will be listed as Track 1 and so on. There are a number of reasons why CDDB will not return the information for the CD you are recording, the most common being simply that the information on the CD you are recording is not in the CDDB database, therefore no serial number match could be made.

Another common reason is that the user is having Internet connectivity problems, for example they are not online or their Internet Service Provider is experiencing problems. In all of these instances, the information will be entered as Track 1 and so on.

If you want to disable CDDB, you can do so from the CDDB Preferences found under Options/Settings. Simply un-check the Enable CDDB CD lookup service box.

## **Purchase**

When you download MusicMatch Jukebox you will have the Full Features version of the program with unlimited, [Near CD Quality](#), ripping/encoding at 96 kbps or lower. To rip and encode [CD Quality](#) tracks at 128 kbps or higher, you will need the Enhanced Features version of MusicMatch Jukebox.

To upgrade from Full Features to Enhanced Features, you must register your program. From the Register menu, choose [Purchase](#). Upon registering the program, you will receive an enable Key, which will unlock your program. Please save this Key for future installations.

You can obtain this Key in three ways:

### **Purchase by Internet**

If you want the fastest, most efficient way to upgrade, we suggest you Purchase by Internet. Selecting this option will launch your web browser and take you to a registration form on the MusicMatch web site. This may take a few moments. Your personal and credit card information will be processed through the Secure Internet Commerce system and an enable Key generated for your immediate use of the full-featured MusicMatch Jukebox. We accept Visa, MasterCard, and American Express.

### **Purchase By Phone**

To Upgrade by Phone, you may call our toll free number 1-800-347-2566 from North America, or 1-619-385-8388 Internationally. We offer 24 hour order processing by phone and our sales staff will be happy to assist you in Upgrading to the full-featured version of MusicMatch Jukebox.

We accept Visa, MasterCard, and American Express.

### **Purchase by Mail**

Purchase by Mail is the only option that will allow you to register your program without using a credit card. Choose the Purchase by Mail option and enter your personal information on the resulting page. Print the form and mail, with payment, to our corporate offices at:

MusicMatch  
16935 W Bernardo Dr.  
San Diego, CA 92127  
USA

You may send payment by check, cash, or money order. Checks and money orders must be drawn from a US bank and all funds must be in US\$. Your Upgrade request will be processed the same day it is received and your enable Key will be emailed to you promptly.

## **Get Key**

If you ever need to reinstall the program or have another computer you wish to install MusicMatch Jukebox on, you will need an enable Key.

If you no longer have the enable Key that you initially received, choose Get Key from the Register menu to obtain another Key. This will launch your web browser and request some basic information - your name, email address, and postal code.

This information will be compared against your registration information in our database and when it finds a match, an enable Key will be returned immediately.

Enter the Key in the slot provided and click OK. You will receive a text box which states 'Your Upgrade Was Successful', along with the Key entered and your license file information. Make a note of your enable Key for future reference, as you will be allowed only three Keys through the Get Key option.

**Enter Key**

If you ever need to reinstall the program or install on new hardware, you will need to re-enter the Key you received when you upgraded.

To enter the Key once the program is installed, choose Register/Enter Key. Enter your Key in the space provided to restore your program's full-featured status.

If you no longer have your enable Key, choose Register/[Get Key](#) to obtain a Key for your program.

## **Update Software**

From the Register menu, choose Update. This option allows you to upgrade to the latest version, by downloading the new file, if one exists. You will need to run the new mmsetup.exe file and install it to the default MusicMatch Jukebox 4 directory. Your database of .mp3 files will not be affected by an upgrade.

Updates are free and do not require a new Key.

## **MusicMatch Jukebox Help**

These are standard WinHelp files, and are organized to correspond to the buttons and menus on the program. It may be helpful to familiarize yourself with the menu options.

For specific problems, you can browse the alphabetical Index for a related Keyword. You can also use the Search function, entering a key word for the area giving you trouble.

Words or phrases underlined and highlighted in green, link to additional information when clicked on.

Words or phrases with a dashed underline and highlighted in green, provide a pop-up window with basic information or a definition, when clicked on.

**Welcome Tips**

The first time you launch your program after installing it, you will receive a welcome screen, which offers some helpful tips on getting started using your MusicMatch jukebox. To view this information again, choose Welcome Tips from the Help menu.

**Capture Diagnostic Information**

If you require Technical Support, choose Capture Diagnostic from the Help menu on the Player. This will take you to the MusicMatch online support form. Provide a detailed explanation of your problem in the space provided and a MusicMatch technician will reply within 24 hours.

**MusicMatch on the Web**

[MusicMatch Home](#)

[Frequently Asked Questions](#)

**About MusicMatch Jukebox.**

At times you will need to know what version of MusicMatch Jukebox you are running. Choose About MusicMatch Jukebox from the Help menu to find the complete version number.

Copyright and other legal verbiage will also be found here.

### **AutoDJ (Automatic Play Lists)**

There are two ways to create Play Lists, manually and automatically (See [Manual Play Lists](#)). To create Automatic Play Lists, choose Auto DJ from the Play List screen or, from your Options menu, choose File/Playlist/AutoDJ. Both will take you to the AutoDJ screen. This feature creates automatic Play Lists based on your sorting preferences.

The first thing you will be asked is to define the length of the desired music program. You then select the First Criteria category from the list of choices. For example, you can have the jukebox select only tracks from your "Classic Rock" titles. To further define your Play List, you can then continue with Second and Third Criteria categories. For example, select only "Classic Rock" titles with a preference rating "Excellent" (second criteria) and which are appropriate for "Party" situations (third criteria). You may select more than one category in a criteria choice simply by control-clicking on multiple categories.

The And / And Not feature allows you to either include or exclude that category in your Play List. By selecting "And", you are telling the jukebox to look only for songs within the category selected. By selecting "And Not", you are telling the jukebox to exclude songs from this category. In the above example, if you had chosen "Party" and "And Not" for the third criteria, the MusicMatch Jukebox would select all your classic rock titles with an excellent rating which you have listed as appropriate for situations other than parties. Thus, it would select "Dinner" excellent/classic rock, "Romantic" excellent/classic rock, "Dance" excellent/classic rock, etc.

When you have made all selections, click the Create button in upper right corner. Based on your selected criteria, a play list will be compiled and added to the Play List screen.

## **Manual Play Lists**

Either double clicking on a song title or clicking and dragging the track title to the Play List screen at the top right hand corner creates Manual Play Lists. You may also add songs to the Play List by using the Windows Explorer drag and drop functionality. To facilitate song selection, you can sort your database in alphabetical order in any category by clicking on the category heading.

When selecting the song, the track indicator micro arrow on the left side of the Music Library will highlight the track's information in each category. You can double click, or click and drag anywhere on the highlighted area to add the track to your Play List.

If you are creating a Play List and do not have enough track information to recognize the song, highlight the track and choose Music Library/Preview Track from the Options menu or simply click the 'Track Indicator Arrow'. This will play the song for you to preview before adding it to your Play List. You can change the order of the songs in your Play List by drag and drop.

To add multiple songs at one time to the Play List, either hold down the shift key and highlight tracks in a group, or hold down the Control key and select various tracks throughout the list. Then right click and select add, or simply drag the selected tracks to the Play List screen.

To delete songs from the Play List, highlight the track and use the delete key on your keyboard or from the extended Playlist screen, choose 'Clear' to delete an entire play list.

### **Getting Started - Track Info**

Enter information for each track, such as lyrics and artist notes, by choosing Tag. Each time the track is played, the information will be displayed in the Track Info screen. Open the Track Info screen by choosing Options/View/Show Track Info.

The Options menu is available with a right mouse click on areas of the Track Info screen.

**Buy CD**

If you like the artist currently playing on your songlist, choose Buy CD from the Track Info screen, to go directly to CD NOW's web site or to the independent artist's web page, if one is available.

## **Getting Started - Music Library**

To add tracks from your existing mp3 collection into MusicMatch Jukebox, choose Options/Music Library/Add New Track to Music Library, to browse for the music directory. You can also click the 'Add' button on the Music Library screen or, with the Music Library screen showing, right click inside the screen and select 'Add Track(s) to Playlist'.

Select tracks individually and click OK, or add several tracks at once by holding down the shift key, and highlighting several songs in a row or holding down the control key, to add several songs that are not grouped together. You can also Select All tracks in the directory and click OK.

Once a song or set of songs has successfully finished recording, they will appear in your Music Library. Song titles, artist name and album title are input during the recording process (see [CDDDB](#)). Choose Tag from the Music Library to assign other sorting characteristics to your tracks (See Music Library Settings for customization of these characteristics) for use when creating your Play Lists. These categories include genre, tempo, mood, situation and preference rating.

You can also access the Tag Songs screen from Options/Music Library/Edit Track Tag or, with the Music Library screen showing, right click inside the screen and select Edit Track Tag.

The Options menu is available with a right mouse click on certain areas of the Music Library screen as well.

## Tag

The Tag option, within the [Music Library](#) or [Track Info](#) screen, launches the Tag Songs screen which allows you to input song information to be displayed in the Track Info screen each time the track is played.

Highlight a song in the Music Library and click Tag to open the Tag Songs screen. If CD information was input before recording, it will be displayed in the Track Title, Track #, Track Time, Artist and Album fields.

Enter song Lyrics, CD Notes, and Artist Bios in the text box provided. Artist web site URL's and email addresses entered in the Notes and Bios sections will automatically be listed in the Artists URL and Artist Email fields as well. Text space is unlimited and information will be displayed in the Track Info screen, while the song is playing.

When you record an entire CD, much of the information will remain the same for each track. To avoid redundant data entry, you may select the white box to the right of the field, to have that information apply to each song on the CD. A good example would be the Artist and Album fields. If this information was not entered prior to recording, you can manually enter it one time, then check the boxes next to the Artist and Album fields. The Artist and Album information from the initial entry is applied to all tracks on the CD.

Add album cover art to your song for display while that song is playing. Download or scan the CD jacket and save the [.bmp or .jpg file](#) into your MusicMatch Jukebox sub-directory. Choose the box to the right of the Art File field and browse for the .bmp or .jpg file you just created, then click Done. The image will appear, in the Player, next to the volume control each time the song is played, if the Player is in Full View. Standard image size is 100 X 100 pixels. Click the white box next to Art File to apply CD art to all tracks on the CD. If .mp3 file is Read Only, you will not be able to add album art.

When you add or change track information, choose Update Tag to save the entry and close the Tag Songs screen.

If you add songs to your Music Library that have track information associated with them using ID3 tags, MusicMatch will recognize and display that data in the Tag Songs screen.

To restore ID3 tags that were associated with files added to MusicMatch Jukebox prior to version 3.1, be sure the 'Update ID3V1 and V2 tag' boxes are checked.

Tracks purchased from [www.musicmatch.com](http://www.musicmatch.com) will include both album art and lyrics.

## Getting Started - Recorder

### CD ROM Recording

Insert an audio CD in your CD-ROM drive and choose Options/View/Show Recorder to open the Recorder screen. If you are connected to the Internet and CDDB returns no information, you will need to input this information manually by double clicking the track number to highlight it, and using your keyboard to type the information into the Recorder screen. If you do not name song files before recording, the program will think it is re-creating the file i.e. Track 1, and display the 'Replace existing file?' message.

Choose Options/Recorder/Settings to customize the recording process. From 'Songs Directory', determine where the song files will be saved on your hard drive. From 'Name Song File Using', you can specify song files to be named by Track Title, Track Number, Artist, or Album, or you can choose any combination of these, for instance Track Number\_Track Title.

The Options menu is available with a right mouse click on many areas of the Recorder screen.

Compression rate and Recording Mode are also determined in the Settings screen, though your program will have Auto-Configured upon opening your Recorder. This means your program recorded a sample of a song and the options that you see selected are the default settings for optimal recording on your system. If your system defaulted to a digital recording mode, you may want to select Error Correction for best sound quality.

To select the tracks you want to record, either click the box to the left of the track(s) you want to record or click 'All' to record all tracks on the CD. If you do not select a track to record and click the start button, you will be reminded to select a track.

The recording progress will be shown in the 'Recording Status' window as well beside the track currently recording. You will receive a green box at the end of the recording progress bar if the song has recorded successfully.

The tracks you have just recorded can be seen in the Music Library screen. If you attempt to record a track that is already in the Music Library, you will be asked if you want to replace the existing file.

### Line in Recording

To record from a source other than your CD ROM drive, plug a cable, specific to your sound card, into the line in port on your sound card and into the recording source.

From the Recorder Settings screen choose Recording Source and select Line in.

This will change the look of your Recorder screen slightly.

## Troubleshooting Music Library

Song is in the Music Library, but it will not play: There are no actual files in the Music Library. The track titles are links to the actual file, which is stored elsewhere on the hard drive. If the root filename has been changed, then the file in the Music Library has lost its path. If you change the root file name, then you will need to re-add that file to your Music Library.

When song is playing, there is no sound: this is most likely due to your volume control settings. You should check all of your volume settings to make sure none of them are muted. Go to Programs/Accessories/Multimedia/Volume Control.

If the settings are not muted, there may be a problem with your Recording Gain Control (found under Programs/Accessories/Multimedia/volume control, options, properties, recording) setting. Some systems default to "Line-in" which is incorrect. Choose either "CD" or "Mix-All" and OK your changes. You will then need to re-record the song.

How to change the .mp3 file registration: there are two ways to change your .mp3 file player registration. You can either reinstall the player of your choice, or you can do the following:

1. Open Windows Explore.
2. Click on the view menu, then options.
3. Then click on the tab "File Types." A list of registered file types will be shown.
4. Go down the list and click on the .mp3 file type. It should show a MusicMatch logo.
5. You can either remove it, or edit it to use a different player.
6. To remove it, just click on the "Remove button."
7. To edit it, click on the Edit button. Then click on the "open" in the text box, and click "Edit." Type in your player, or use the Browse button to select you favorite player.

## **Record Error Codes**

### **Error 0:**

No error occurred - recording was successful.

### **Error 1:**

*Message: MusicMatch does not yet support your CD-ROM Adapter*

This means that no adapter was found through the ASPI/WinSCSI programming Interface. This likely means you have the ASPI drivers version 4.01 to 4.53. You will have to restore the four files from the original Win95/98 CD or go to Adaptec's site at [http://www.absnet.no/files/MULTIM~1/CD-ROM/Adaptec/CD\\_CRE~1/disk1/aspiinst.exe](http://www.absnet.no/files/MULTIM~1/CD-ROM/Adaptec/CD_CRE~1/disk1/aspiinst.exe) to get their newest drivers.

### **Error 2:**

*Message: Your CD-ROM drive does not support ASPI*

This means that no ASPI driver was found in the system. Usually only found on NT Systems, this is a fatal error on a Win95 system if the .ini file is set to ASPI mode. NT users will need to either install the ASPI drivers or set the api to SPTI mode.

### **Error 3:**

*Message: Bad Mode Failure*

A recording mode was incorrectly entered on the command line of the .ini file. The program only supports .mp3, .RA and .wav file types. Check the exact command line string to correct.

### **Error 4:**

*Message: Open File Failure*

A failure occurred during the file open process. You may have specified a path to a non-existent directory, specified an invalid filename, or there has been a sharing violation. You can try a different filename or capture the filename and pass the information back to us at [technicalsupport@musicmatch.com](mailto:technicalsupport@musicmatch.com).

### **Error 5:**

*Message: Recorded with Incorrect Compression Setting*

For some reason the flavor of the RA encoder is not valid on this system.

### **Error 6:**

*Message: Initialized with Incorrect Compression Setting*

A failure occurred during the initialization process for the RA encoder.

**Error 7:**

*Message: Opened with Incorrect Compression Setting*

A failure occurred during the opening of the output file by the RA encoder.

**Error 8:**

*Message: Fail Malloc*

The program was unable to allocate enough memory to run. This is a fatal error and usually signifies that there is some sort of memory leak in one of the applications running on the machine. It usually requires a reboot to clear.

**Error 9:**

*Message: Your CD-ROM Controller is Not Yet Supported by MusicMatch*

This means that the program has been unable to determine if the drive is either SCSI or ATAPI, and means that the drive is likely ATBUS. There is no support for ATBUS drives in this program.

**Error 10:**

*Message: Read Error*

This is an unrecoverable read error from the drive. It usually means the drive does not support digital audio extraction. You may want to try changing the Max\_Mismatch=255 and Multipass=Yes settings in Recorder/Options/ Advanced Options. If this does not work, analog record mode should be used.

**Error 11:**

*Message: Recorded with Excessive Drive Seeking Errors. Recording with Error Correction = On*

This means the size of the jitter encountered is larger than can be corrected. You may be able to increase the OVERLAP entry in the mmcd.ini file to avoid this problem. Correction may work with error correction set to on, but if it does not, the analog record should be used.

**Error 12:**

*Message: Unsupported Mode*

The extraction mode selected is not supported by the drive. It usually appears if the drive does not support reading digital audio. You can try setting the QUIET=YES entry in the mmcd.ini file. Some drives incorrectly report this information and can really grab audio. If it still does not work, the analog record mode should be used.

**Error 13:**

*Message: Mode Setting Error*

A failure occurred during the mode select process. This applies to SCSI drives from Toshiba/Philips/HP/Pinnacle and very few others. This is basically a fatal error because the drive is not reacting the way it is expected to, based on the programming information.

**Error 14:**

*Message: Write File Error*

A failure has occurred during the writing of the destination File, usually due to a disk full error.

**Error 15:**

*Message: Fail Load dll Error*

One of the DLL files that is loaded by the program has failed to load correctly. It usually means the file is not in the correct directory or the file is not on the machine. Copies of the file can be sent to you.

**Error 16:**

*Message: HA Inquiry Error*

The inquiry mechanism in the os to get info on the controllers has failed for some reason. This is a fatal error, and usually only appears in ASPI or SPTI mode.

**Error 17:**

*Message: MusicMatch was unable to find your CD-ROM drive*

The program was unable to find any CD-ROM drives in the machine. This may happen if the ASPI drivers have been replaced with the updated drivers from Adaptec. Please see Troubleshooting-Recorder for more information.

**Error 18:**

*Message: Bad Command Line*

There is an incorrect option in the command line passed to MusicMatch.DRV.

**Error 19:**

*Message: Your CD-ROM Drive is Not Yet Supported by MusicMatch*

The drive does not show up in the list of scsi drives supported by the program.

**Error 20:**

*Message: MusicMatch could not find your CD-ROM drive*

The drive letter set in the ini file is not a CD-ROM drive  
Generally, this means the user has changed the configuration  
and the drive letters have changed. The User should Auto Configure  
the program from Recorder/Options/Advanced Options.

**Error 21:**

*Message: No Disc in Drive*

This means that the drive is reporting that there is no CD in  
the drive. This can happen if the CD-ROM drive was in use  
during configuration. The User should Auto Configure the program from Recorder/Options/Advanced  
Options.

**Error 22:**

*Message: Play Mode Error*

No error has occurred - this is just a different exit code used  
when the user selects /p option to play the CD instead of ripping  
from it.

**Error 23:**

*Message: Copy Prohibited*

The command line option /o has not been used and the CD identifies  
the selected track as being copy prohibited. Make sure you have not  
changed the /o option from the mmcd.ini file.

**Error 24:**

*Message: Quit Mode Error*

No error has occurred. This is just a status message when the user  
selects the /q command line option which stops the program  
just before the ripping starts.

**Error 25:**

*Message: Show Usage Error*

This is the status message that is displayed when the program  
terminates through the Usage screen. Generally this occurs when  
there is an out of range entry on the command line. Forward CD artist and title and the model of your  
CD-ROM drive to [technicalsupport@musicmatch.com](mailto:technicalsupport@musicmatch.com).

**Error 26:**

*Message: Undefined*

Suggestion: please click on "Capture Diagnostics " from the Help menu on the Player, and  
email the log file to us.

**Error 27:**

*Message: No WinSCSI*

This means that no winscsi drivers were found on the system and the ini file has the api setting to winscsi. It usually means that either the seqscsi.dll file or that aspi drivers are not working correctly.

**Error 28:**

*Message: Your CD-ROM Drive does not support Red Book Audio.*

The drive is reporting that it does not support reading red book audio. Some drives report this although they do work, so you should try the quiet option in the mmcd.ini file. Most drives that report they do not support red book, really do not support it. If this is the case, you should use the analog record mode.

**Error 29:**

*Message: Recorded With Excessive Drive Seeking Errors*

The drive is seeing mismatch errors in excess of the setting in the ini file. It is possible that the CD needs to be cleaned or washed with water.

**Error 30:**

*Message: Your CD-ROM buffer setting is too big*

The size of the buffer being used by the program is larger than the system allows. The number of blocks of memory = BLOCK + 2\*OVERLAP. Usually this number can be no larger than 26, but some machines need it to be smaller still. The Hitachi drive works much better if these settings are block=100 and overlap=10.

**Error 31:**

*Message: CD-ROM Drive Buffer Overflow. Try Recycling Power and Re-Recording*

This is the message when the drive returns a 0xbf error meaning it was unable to buffer the data because the computer could not read the data fast enough. Usually this can be fixed by setting the Recording Speed entry in the Recorder/Options/Advanced Options to a lower value like 1, 2 or 4.

**Error 32:**

*Message: NT MSCDEX Error*

This means that the api entry in the ini file is set to mscdex and the software is running on NT. It will not run unless you set it to a different setting like SPTI.

**Error 33:**

*Message: Recorded with Some Drive Seeking Errors. Try Recording with Error Correction = On*  
This means that the software has stopped with a jitter correction error, and may mean that the drive has jitter larger than the overlap entry in the ini file. First, try setting the overlap size to a larger value. If that does not work, try setting the max\_mismatches in Recorder/Options/Advanced Options to 255.

**Error 34:**

*Message: No SPTI Error*

This means that the SPTI drivers do not seem to be working. This usually occurs when the api is set to spti and the software is running on win95. Spti is for NT only.

**Error 38:**

*Message: The Xing MP3 file settings are incorrect.*

This is usually fixed by reinstalling the program to restore the shared file links.

**Error 39:**

*Message: There was a failure during the MP3 encoding process.*

This is usually fixed by reinstalling the program to restore the shared file links.

**Error 40:**

*Message: The program is missing required .dll files, or is missing the registry entry for a path to the .dll files.*

This is usually fixed by reinstalling the program to restore the shared file links.

**Error 41:**

*Message: The MP3 encoding process has failed.*

This is usually fixed by reinstalling the program to restore the shared file links.

**Error 42:**

*Message: MP3 input to audio has failed.*

This message occurs when you have run out of memory on the drive to which you are saving your files.

**Error 43:**

*Message: The MP3 encoder was unable to convert data to the MP3 format.*

This is usually fixed by reinstalling the program to restore the shared file links.

**Error 44:**

*Message: There was a failure writing to disk during the MP3 encoding process.*

This is usually fixed by reinstalling the program to restore the shared file links.

**Error 45:**

*Message: The MP3 encoding process failed to activate.*

This is usually fixed by reinstalling the program to restore the shared file links.

**Error 51:**

*Message: Incomplete recording*

Recording was stopped before the process was complete. The track will not be included in your Music Library if it is not a complete recording.

All MusicMatch Jukebox error codes are listed here. If you receive an error code other than what is listed here, it is referencing a component within the Jukebox, not created by MusicMatch. We do not have a listing of error codes for components other than those created by MusicMatch.

## Troubleshooting Recorder

**General Information:** To maximize the Jukebox features, you must have sufficient processing power (166 MHz or greater) and have a good CD-ROM drive. About 25% of the drives currently on the market do not support digital audio extraction. You may need to use the analog option if you have one of these drives. For a good listing of drives which are able to record in digital, please see Stewart Addison's site at: <http://www.tardis.ed.ac.uk/~psyche/cdda/>

**General recording problems:** Recording capability is influenced by two factors: Your CD-ROM drive and your system's processing power. For best recording performance, in any mode:

- Avoid simultaneously running other applications that would drain the CPU's power (graphics programs, scanners, other compressors, etc.)
- Avoid simultaneously running other applications, which are writing to the hard drive.
- Certain configurations, which cause the operating system to thrash, such as low memory or many open windows, will also affect recording quality.

**Program will not record in digital mode:** Your drive is either unable to extract digital information, or is unable to accurately seek the digital information and producing too much jitter. Most likely you will need to use analog mode. The program will automatically switch to analog if this is the case. You can try adjusting the Digital Audio Extraction (DAE) options found at [Settings/Recorder/Advanced](#).

- Occasionally a drive will record in digital and then other times it will fail. This is due to the quality of the CD being recorded.
- If you have a borderline drive for digital recording, and your songs do not sound very good, it is best to use the analog mode.
- If you are able to digitally record using other programs, there was probably an error during configuration. If this is the case, you will need to re-run the initialization process. To do this, choose [Auto Config](#) from [Settings/Recorder/Advanced](#). Insert a CD into the CD drive (making sure it does not start playing), and then re-start the Jukebox program.
- Make sure you have a CD in the drive during first program initialization.
- Check that you have sufficient disk space in [Directory Information](#).

**Song plays with clicks and pops:** This is due to "jitter," which results from a drive's inability to accurately seek digital data for recording. You should make sure [Error Correction](#) is checked. ([Settings/Recorder/Recording Mode](#))

**Program was recording fine, but suddenly stops:** After any program installation or de-installation, you may lose recording capability if you deleted certain shared .dll files. Please reboot your system (often, files are replaced after booting). If you are trying to recover lost files; sometimes they are saved in `Windows\SysBckup`. Copying the file to the Windows System directory might fix the problem. Otherwise, you will need to re-install the program.

**Multiple CD-ROM drives:** Your program will automatically configure itself to use any of your drives. You will need to select which drive you want, from [Settings/Recorder/Recording Source](#). This can be changed to a different drive at any time. No further installation or file change is necessary.

**First and/or Last Track of a CD will not record:** This can be fixed by going to the [Track Offset](#) option in [Settings/Recorder/Advanced/Special Effects](#), and entering a value between 10 – 50.

**Song speeds up during play:** If your song files sound as though they are played in a faster speed, your drive is unable to keep up with the recording process. This usually occurs in less powerful processors. Go to [Settings/Recorder/Advanced](#) and change the [DAE Speed](#) from [MAX](#) to 4. If that does not work, try 3, then try 2, and then 1 (1 being the slowest setting).

**Recorded song times are considerably shorter than actual song times:** You are experiencing the same speed problems as outlined above. Change your [DAE Speed](#) accordingly, from [Settings/Recorder/Advanced](#).

**Recording process will not begin:** Make sure your Multimedia CD-ROM player is not running.

**Digital Recording fails when you are using the revised ASPI drivers from Adaptec:** These revised drivers do not support digital extraction. The version number of these revised drivers is 4.0.0. Original drivers are version 2.0.0. You will need to either install the new ASPI drivers, or the original ASPI drivers found on the Win95 or Win98 install disk. You will have to manually extract the files from the CAB files on the original Win95/98 CD and install them. All the details of what files are needed and where they go is fully documented at: <http://www.ncf.carleton.ca/~aa571/Pointers.htm#drivers>

**Track recorded from CD ROM records in analog, but when played, there is no sound:** Check all volume settings to make sure none are muted. Go to Programs/Accessories/Multimedia/Volume Control. If the settings are not muted, there may be a problem with your Recording Gain Control (found under Programs/Accessories/Multimedia/volume control, options, properties, recording setting. Some systems will default to having the "Line-in," checked, which is incorrect. What needs to be checked is the "CD" or "Mix-All."

**Song will not record in analog:** Be sure there are no conflicting applications using your soundcard, such as computer games, conferencing software, or your multimedia CD player.

**Song sounds warbled at times:** This happens when there is an application running during recording which requires a large amount of processing power. Typical conflicts are any graphics program, including a screensaver, and all scanners. These applications will also warble a song that happens to be playing (although it will not affect that file permanently).

**Song speeds up and slows during play:** this occurs in analog mode when you have insufficient processing power or memory. To reduce or eliminate this effect, you should close all other applications during recording.

If you receive a green box on the track number at the end of your recording session, this means that recording was successful with optimum quality. If you receive a yellow box, it means that recording was successful but with reduced sound quality. If you receive a red box, it means that recording was unsuccessful. You will then see an error code at the bottom of the screen explaining your error. Click here for [Record Error Code](#) descriptions .

**Stack Faults:** These occur occasionally when there is a Windows exception between the Jukebox program and the rest of your system. They will cause your program to crash, and may affect future program performance. The easiest way to resolve this is to re-boot your PC. On some systems, it will be impossible to resolve.

If you are unable to resolve your recording problem, please email your diagnostic.log file, along with a detailed description of the problem you are encountering, to [technical\\_support@musicmatch.com](mailto:technical_support@musicmatch.com).

## Rio Portable MP3 Player

## Frequently Asked Questions

Following is a brief summary of frequently asked questions. For more detailed information, please refer to specific topics in the Help files.

Q. Are MP3 tracks, which the user encodes, encrypted?

A. No, tracks recorded by the user are not encrypted.

Q. Can I make .wav files with the MusicMatch Jukebox?

A. Yes, you can. These tracks will be saved to the directory you choose, and will not be included in your Music Library.

Q. What is the difference between the full features version and the enhanced features version of MusicMatch Jukebox?

A. The full features version of MusicMatch Jukebox will allow you to record an unlimited number of tracks from your music collection to your PC, at a compression of 96 kbps and lower.

The enhanced features version allows you everything the full features version allows as well as the extended compression rate options including, [Variable Bit Rate](#) encoding.

Both versions will allow you to download an unlimited number of our tracks from the [MusicMatch website](#). Both versions allow unlimited play capabilities.

Q. How do I upgrade from the full features version to the enhanced featured version?

A. You must register the program from within the MusicMatch Jukebox program. Choose [Purchase](#) from the Register menu. You have three ways to upgrade:

- Upgrade via our secure server on the Internet
- Upgrade via our toll-free telephone number
- Upgrade via check and order form sent through conventional mail.

MusicMatch will send you a full features enable Key that will convert your standard version to a full-featured version.

Q. What compression rates does MusicMatch Jukebox offer?

A. Tracks compressed using mp3, [CD Quality](#) will be compressed at 12:1. Tracks compressed using mp3, [Near-CD Quality](#) will be compressed at close to 18:1. A RealAudio Near CD quality compressed track will be compressed at 17:1. Tracks compressed in [FM Radio Quality](#) (Real Audio) will be compressed 70:1.

Q. What is the sampling rate?

A. The standard 44 khz/128kbps is generally recommended, but you can choose CD Quality at 160 kbps as well. See also Constant Bit Rate and Variable Bit Rate compression modes. Tracks recorded at 64kbps and below are sampled at 22khz.

Q. How much memory will files recorded from a CD by the MusicMatch Jukebox take up on my computer hard disk?

A. This depends on which compression routine you use, either Near CD quality or CD quality. For near-CD quality, a three-minute song will take up only 1.8MB of disk space, compared to 31 MB for an uncompressed .wav file. Using CD quality, the file size will be just under 1 MB per minute of song. Choosing your own compression mode, using Constant or Variable Bit Rate, will vary depending on the

setting you choose.

A comparison done using a Plextor 12/20X Drive is as follows:

Compression type	Original File Size	Record Time	Compressed File Size
mp3 CD Quality (12:1)	27.2 MB	2min:30 sec. 0min:35sec.	2.46 MB
mp3 Near-CD Quality (18:1)	27.2 MB	2min:30 sec. 0min:35sec.	1.54 MB
RealAudio Near-CD (17:1)	27.2 MB	2min:30 sec. 1min:40sec.	1.60 MB
wav non compressed	27.2 MB	2min:30 sec. 0min:13sec.	--

Q. How long does it usually take to record a song from a CD to your hard drive?

A. In addition to the compression option, this also depends largely on the processing power of your PC. The speed is also determined by the seeking accuracy of your CD-ROM drive. Your drive's seeking accuracy will determine the number of errors that occur as audio files are extracted from a CD during recording. The larger the number of extraction errors, the more time it will take the error correction routines in MusicMatch Jukebox to fix them. The jukebox has a record option that allows you to elect greater error correction if necessary. If you select error correction, recording time will usually increase substantially. For most drives, default mode recording performance (without [error correction](#)) will be bound by the speed at which files can be compressed.

For example, a 266 MHz processor and a high quality drive, using CD quality mp3 compression mode will record at 4.3x play speed. .wav files will typically record at close to the maximum audio extraction speeds of the CD-ROM drive. While some drives cannot extract audio data faster than play speed, most drives will perform much faster. Overall, .wav file recording speeds run from 1x -20x play speeds.

Q. When does the compression take place in the recording process?

A. File extraction and compression are performed in parallel. You do not have to worry about filling up your disk with .wav files. Only the compressed file will be saved on your PC.

Q. Can all CD-ROM drives record music in digital format?

A. No, only CD-ROM drives that support the Red Book audio format, and have a reasonable level of seeking accuracy, can record music from CDs to computer hard drives in digital format. Many older CD-ROM drives, and some new ones, do not support this capability. You will need to use the [Analog Record](#) option of MusicMatch Jukebox if your drive does not support digital audio extraction.

Q. What is the difference between [Analog Recording](#) and [Digital Recording](#)?

A. The main difference is the speed with which you can record. Analog recordings will always be 1x the play speed, whereas digital recordings will be faster (depending on your drive, PC processor and compression type selected). The sound quality difference of analog recording compared with digital should be minimal. The amount of conversion errors you hear are primarily dependent on your PC system. Factors that will affect the sound quality are the soundcard and the required level of multimedia realtime performance.

Q. Using MusicMatch Jukebox, can I play other songs from the Internet?

A. Yes, the jukebox will play all songs in mp3, mp2 and RealAudio formats. To add these files to your database, choose Options/Music Library/Add New Track to Music Library.

Q. Can I install my copy of MusicMatch Jukebox and all the songs in my music database to a new PC?

A. Yes, the registered program and data files will install on any PC. You will need to 'Enter Key', from the Register menu on the Player, to upgrade the newly installed version to full-featured status.

Q. How can I personalize the Music Library category descriptions?

A. There are twelve category names available and they are as follows: Album, Artist, File Name, Genre, Mode, Mood, Preference, Situation, Tempo, Time, Title, and Track.

You can select as many as seven [categories](#) to display in the Music Library at one time.

Q. Can I make CDs with the Jukebox program?

A. You are able to convert mp3 files to .wav files with the MusicMatch Jukebox program. You can then use your CD Recording software to burn audio CD's.

Q. Does MMJB run on Windows NT?

A. Yes, versions 3.0 and later run on NT. Earlier versions should not be installed on NT systems.

Q. Is there a MAC version of the program?

A. At present, we do not have a Mac version of MusicMatch Jukebox, though we are planning to release one in 1999.

Q. How do I uninstall the MusicMatch Jukebox?

A. Go to Start/Control Panel and click on Add/Remove programs.

**Customer Service**

If you would like to send us your comments or suggestions for future enhancements, please email them to us at:

[customer\\_support@musicmatch.com](mailto:customer_support@musicmatch.com)

If you would like to call us, our number is:

1-619-385-8360(if outside the US, dial 01 first)

We are located in the US Pacific Standard Time Zone.

Our mailing address is:

16935 W Bernardo Dr.

San Diego, CA 92127

USA

## **Technical Support**

If you are unable to resolve your problem using these help files, please do the following:

1. If you are having a recording problem and require Technical Support, choose Capture Diagnostic from the Help menu on the Player. This will take you to the MusicMatch online support form. Provide a detailed explanation of your problem in the space provided and a MusicMatch technician will reply within 24 hours. 2. Email this file and a detailed description of the problem you are encountering to:

[technical\\_support@musicmatch.com](mailto:technical_support@musicmatch.com)

We will respond as quickly as possible.

**Open...**

Choose Open to launch a standard file open dialog. Select from the following supported file types:

.mp3 The selected .mp3 file will be added to the current play list.

.mru The selected .mru file becomes the current play list.

.ddf The selected .ddf file becomes the current database (Music Library).

## **Convert...**

From the Options menu, choose File/Convert to open the 'MusicMatch File Format Conversion' screen. From this screen you can convert (compress) .wav files to .mp3 files or the reverse, where you would decompress a file from .mp3 format to .wav format.

From 'Source Data Type', at the bottom/left of the conversion screen, specify the format of the files you wish to convert, either WAV or MP3.

From 'Source Directory' at the top/left of the screen, browse for the location of the source file. Select the file(s) you would like to convert, from 'Highlight Files to Convert' in the middle/left, by clicking on it. You may select all files in the directory by choosing 'Select All' at the bottom left. To deselect files, choose Select None.

Determine what directory the converted file will be saved to from 'Destination Directory' at the top/right.

The 'Destination Data Type' options, on the bottom/right, will change depending on the 'Source Data Type'. If your source files are .mp3 files, the 'Destination Data Type' will default to WAV. If your source files are .wav files, the 'Destination Data Type' will default to MP3 128 kbps. When converting to MP3, you may also opt to convert at 96 kbps, 64 kbps or 32 kbps. The lower the compression rate, (in kbps) the smaller the resulting .mp3 file. See Record Settings for more information on compression rates.

In the bottom/right corner, click the Start button. A converting file dialog will be seen allowing you to view the conversion progress.

The newly created .mp3 file(s) can be seen in 'Converted File Names' on the middle/right.

**Exit**

Choose Exit from Options/File on the Player component to close the MusicMatch program.

**Small View**

Small View, from Options/View, displays the [Player Control Buttons](#), the song title and time elapsed and total time only.

In Small View, click the up micro arrow to increase Player size to [Full View](#). The up micro arrow is located to the right of the Play Controls. When you launch MusicMatch Jukebox, the Player will open in Full View.

## **Full View**

Full View, from Options/View, displays the [Player Control](#) buttons, the Track Info Button , the [Music Library Button](#), the [I-Music Button](#), the Volume Control, the song title, time and artist display screens, the album art section, and the minimized play list.

The Player will initially launch in Full View. You can choose Small View from Options/View or click the down micro arrow Small View. The down micro arrow is located in the upper right corner of the Player.

**Show Track Info**

Choose Show Track Info from Options/View, to view song information in the Track Info screen while the song is playing.

**Show Music Library**

Choose Show Music Library from Options/View to open the Music Library screen.

**Show Recorder**

Choose Show Recorder from Options/View to open the Recorder screen. You can also launch the Recorder with Rec button on the Playback Buttons.

### **Change Theme...**

Choose Change Theme from Options/View, to change the appearance of MusicMatch Jukebox. Themes are often referred to as skins. From the Change Themes screen, you can select from Big, Classic, Default, Plastic, and Wood. The default theme is the Wood skin which you will see when you initially open the program. The Big theme is an enlarged version of the default, Wood skin. You can also choose from Plastic and Classic themes. You may want to try them all and decide which look you like the best. To change the theme, click on the description, choose Apply, then click OK.

### **Always on Top**

Choose Always on Top from Options/View so other open windows never hide your MusicMatch Jukebox.

Hint: After you have created a play list, choose Small View so the program does not take up much space on your screen. Select Always on Top so you have easy access to the controls while you listen to your music.

### **Auto Arrange Components**

Choose Auto Arrange Windows from Options/View, to arrange all open windows in the following order, from top to bottom:

Player (with Play List minimized)

Track Info

Music library

Recorder

**Play Cycle**

To play the songs in your Play List one time, choose 'Once' from Options/Player/Play Cycle. To have the Play List start itself again, choose 'Continuous'.

**Play Order**

The order in which the songs in your Play List are played is determined by Play Order. To have them play in the order that you entered them into your Play List, choose 'Playlist Order' from Options/Player/Play Order. Choose 'Album order' to play tracks in the play list in the order they are on the CD. To play the songs in your Play List in a random order, choose 'Shuffle'.

**Use MusicMatch Player**

Once a player is selected as default, it will always appear when you play your songs with our program. You may change your selection between the MMJB player and the Winamp player at any time from Options/Player.

Use MusicMatch Player: this will select the MusicMatch standard player, by XAudio, as your default player each time you play mp3 songs.

**Use Winamp Player**

Once a player is selected as default, it will always appear when you play your songs with our program. You may change your selection between the [MMJB player](#) and the Winamp player at any time from Options/Player.

Use Winamp Player: this will select the Winamp player to be your default player each time you play mp3 songs.

## **Player Control**

The play controls found under Options/Player/Play Control are the same as the play control buttons found on the Player. All apply to the current Play List except Rec which will open or close the Recorder screen, depending on its current status.

The skip options must be defined in the Player Settings. Skip back and Skip forward refer to a specified number of seconds in the current track. Skip back songs and Skip forward songs refer to a specified number of songs from the current track.

While you can adjust volume from the Play Control menu or by using the button on the Player, the Mute option is only available from this menu.

**AutoDJ...**

Choose AutoDJ from Options/Playlist to create [Automatic Play Lists](#).

**Save Playlist**

To save your newly created play list for use in future sessions, Choose Save Playlist from Options/Playlist.

You will be prompted to name the Play List. The saved list will be displayed in the Playlists column.

**Clear Playlist**

To clear track titles from the current Play List and build a new Play List, choose Clear Play List from the Options/Playlist or from the extended play list screen. Saved Play Lists are not affected by choosing Clear Play List.

### **Export Playlist to WAV...**

To quickly convert an entire MP3 Play List to WAV, choose 'Export Play List to WAV' from Options/Playlist.

Browse your computer and select a destination directory for the .wav files. You will be alerted to how much available disk space you have on the specified drive as well as the estimated space required for the conversion.

Click Start after selecting a Destination Drive.

### **New Music Library**

To create a new database of MP3's, choose New Music Library from Options/Music Library. This will launch a standard 'Save As' dialog. Select the 'Save in' directory and enter a name for the new database. The file extension will be .ddf and this should be specified in 'Save as type' before you click the Save button.

**Open Music Library**

To load an existing database to your Music Library, choose Open Music Library from Options/Music Library, and browse for the previously saved database. Database files will have the .ddf file extension.

**Save Music Library As...**

To save a database that you have made changes to, choose 'Save Music Library As' from Options/Music Library. This will launch a standard Save As dialog. Select the 'Save in' directory and enter a name for the database. The file extension will be .ddf and this should be specified in 'Save as type' before you click the Save button.

**Clear Music Library**

To clear the database so that you may create or load a new database, choose Clear Database from Options/ Music Library. You will receive a prompt before the database is cleared of its contents.

**Export Music Library...**

To export the Music Library database to a tab delimited text file, choose Export Music Library from Options/Music Library. This will launch a standard 'Save As' dialog. Select the 'Save in' directory and enter a name for the file. The file extension will be .txt and this should be specified in Save as type before you click the Save button.

You can then import this file into Excel or any spread sheet or database program.

**Import Music Library...**

To import a database to the Music Library choose Import Music Library from Options/Music Library. This will launch a standard 'Open' dialog. Browse for the source directory and double click the database file.

**Add New Track to Music Library...**

To add tracks from your hard drive to your Music Library, choose Add New Track to Music Library, from Options/Music Library. This will open the Add Songs screen where you can browse for the song files. You can add previously downloaded files, in mp2, mp3, or RealAudio formats, to your Music Library. Files will not be encrypted. Files can be added individually, or as a group by holding down the control button, (Ctrl on your keyboard).

Important note: once you have added a song into your Music Library, you cannot rename the original file. If you do, you will need to re-add that song to the Music Library.

**Delete Track**

To delete a song from the Music Library, choose Delete Track from Options/Music Library. You may also highlight a selection of entries to delete simultaneously by holding down the Shift Key.

**Edit Track Tag...**

Enter or edit [track information](#) for the track highlighted in the Music Library by choosing Edit Track Tag from Options/Music Library.

**Preview Track**

To preview a track before adding it to your play list, highlight the song in the Music Library and choose Preview Track from Options/Music Library.

**Add Track to Playlist**

You have several options for adding tracks from your Music Library to your Play List. You can highlight a song, (or selection of songs, by using your control or shift key), and choose Add Track to Playlist from Options/Music Library. You can also double click a selected track or drag and drop the track(s) from your Music Library to Your Play List.

## **Control**

Many of the record controls found at Options/Recorder/Control have the same functionality as the buttons on the Recorder screen. The Start, Stop, Cancel, and Pause controls all apply to the current track recording.

The CDDB button on the Recorder will launch your web browser to the CDDB web site, as will choosing CDDB from Options/Recorder/Control

Under the same menu, Select All and Select None mirror the functions of the All and None buttons on the Recorder screen. To select the tracks the track(s) you want to record, click the box to the left of the track title, or click all to record all tracks on the CD.

**Source**

You can select the source from which you will record from Options/Recorder/Source. If you want to record a CD for instance, insert a CD into your CD ROM drive and select that drive letter from the options listed in this menu. The CD title, artist etc. may also be listed with the drive letter, making it obvious which option to select, especially if you have more than one CD ROM drive.

Line In will be the other option listed under Source. Line in recording support is a new feature in version 4 which allows you to record from sources other than CDs, like a cassettes or albums. Select Line In when you are recording from any source other than a CD.

## Quality

### CD Quality

MP3 (160 kbps) w/oversampling

MP3 (128 kbps)

WAV Format

### Near CD Quality

MP3 (96 kbps)

RealAudio (ISDN)

### FM Radio Quality

MP3 (64 kbps)

RealAudio (28.8)

Custom Quality

Custom VBR (100%)

Custom CBR (128 kbps)

### **Use MusicMatch as your default .mp3 and .mru player**

MP3 files are compressed song files. MRU files are entire play list files. Both require an MP3 player to be used. If MusicMatch Jukebox is the only MP3 program installed on your system, you will of course, select MusicMatch as your default player. This will have been determined in the installation as well. If you have another MP3 player on your system that you selected as the default in the install, From the General Settings screen check 'Use MusicMatch as your default .mp3 and .mru player' to begin using the MusicMatch player as your default.

**Use MusicMatch as your default CD Player**

You will want to determine a default CD Player for your system and will be prompted to ‘Use MusicMatch as your default CD Player’ in the installation process. If you initially choose your system CD Player and decide later to use the MusicMatch CD Player as your default, you can make this change from the General Settings screen.

### **Ask for Diagnostic Info Upload permission**

Your program's diagnostic information will be automatically uploaded to the MusicMatch database from time to time. In the event that you require technical assistance, our Technical Support staff will have access to this information to effectively offer a solution.

You will receive a prompt, asking permission to upload diagnostic information, the first time that this happens. Your options will be Yes, No, and Don't ask again. To disable this prompt and allow this function to happen automatically, choose Yes and Don't ask again. If you want to be prompted each time this upload happens, you can un-check the Don't ask again box in the General Settings.

## **Player Controls**

### Song Skip Increment (# of seconds)

In Options/Player/Play Control, the 'Skip back' and 'Skip forward' options are determined by the Song Skip Increment. The skip will default to five seconds, but this can be set to the user's preference from the Player Settings screen.

### Playlist Skip Increment (# of songs)

In Options/Player/Play Control, the 'Skip back songs' and 'Skip forward songs' options are determined by the Playlist Skip Increment. The skip will default to five songs, but this can be set to the user's preference from the Player Settings screen.

### **Use Other Player**

If you have Winamp installed on your system but did not initially select it as your default player, you may do so from the Player Settings screen. You will need to Select Path and browse to the directory with your Winamp files to establish that path.

## **When adding songs**

### Use ID3V1 tag / Use ID3V2 tag

In the Music Library Settings, both of these options will be selected by default. When you add songs to your Music Library that are tagged with ID3V1 or ID3V2 tags, the tags can be viewed in the [Tag Songs](#) screen if these options are checked. If you do not want ID3 tags associated with your tracks, uncheck both boxes.

### Convert tags when adding songs with old format tags

In versions of MusicMatch Jukebox earlier than version 3.0, if a song file containing ID3 tags was added to the database, the tags were hidden since they were not supported. Check the 'Convert tags' box in the Music Library Settings to view these now supported ID3 tags, before adding them to the Music Library.

## **Music Library Display Settings**

Determine the names and order of the Music Library categories from the Music Library Settings. There are twelve category names available and they are as follows: Album, Artist, File Name, Genre, Mode, Mood, Preference, Situation, Tempo, Time, Title, and Track.

You can select as many as seven categories to display in the Music Library at one time. Column 1 will be to the far left of the Music Library screen. Select what category name you want associated with column 1 from the pull down menu. If you choose not to use some of the available columns, do not check the white box to the left of the column number. Click OK to save changes to the display settings.

## **CD Quality**

You have three options for recording in CD Quality format:

If you select mp3 at 128 kbps or 160 kbps, you will use the fastest compression standard available, developed in partnership with Xing Technologies. These files will be compressed 12:1 (compared to 18:1 in Near CD Quality mode) and added to your database. They will not be encrypted.

If you select wav, your songs will be recorded and copied to the [subdirectory](#) you have chosen in this non-compressed format. They will not be encrypted nor added to the Music Library.

CD Quality ripping and encoding (128 kbps and higher) is available when you register your MusicMatch Jukebox. See the [Purchase](#) section for more details.

## **Near CD Quality**

Near CD Quality is the default compression mode on your unregistered program. This will limit the amount of disk space used by your music database compared to recording in CD Quality though the sound quality is very close to true [CD Quality](#).

You have two options for recording in Near CD Quality:

If you select MP3 (96 kbps), you will use the fastest compression standard available, developed in partnership with Xing Technologies. These files will be compressed 18:1 (compared to 12:1 in CD Quality mode) and added to your Music Library. They will not be encrypted.

If you select RealAudio (ISDN, a.k.a. 64 kbps), your file will be compressed at 17:1 and added to your database. They will not be encrypted. RealAudio files will not play on the Winamp player. You will need to play them on the MusicMatch Jukebox player or a RealAudio player.

**FM Radio Quality**

FM Radio Quality is the most compressed format at 70:1. This recording option is called High Capacity in the Rio version of MusicMatch Jukebox.

This recording option is offered in both MP3 and RealAudio formats, at 64 kbps and 28.8 kbps respectively. RealAudio files will not play on the Winamp player, and must be played on the [MusicMatch Jukebox Player](#).

## **Variable Bit Rate encoding**

Variable Bit Rate encoding is an encoding method that ensures consistently high audio quality throughout an encoded file by making intelligent bit-allocation decisions during the encoding process.

Use VBR encoding when consistent audio quality is the top priority and predictable encoded mp3 file size is not critical.

Choose a VBR setting from 1 to 100 from the Record Settings screen, to customize your recording. As a general guideline, a setting of 25 is approximately 80 kbps, a setting of 50 is approximately 128 kbps and a setting of 75 is approximately 160 kbps. Generally, files encoded at a setting above 50, will have little or no sound quality improvement.

Variable Bit Rate encoded files will be larger than [Constant Bit Rate](#) encoded files, of a comparable encoding speed, for example a song recorded in VBR at 50 will be larger than the same song recorded in CBR at 128kbps.

Not all mp3 players support Variable Bit Rate encoding, however the MusicMatch Jukebox and Winamp players both support this technology.

### **Constant Bit Rate encoding**

Constant Bit Rate Encoding is a method that ensures a consistent bit rate throughout an encoded file, potentially at the expense of audio quality and/or Encoder efficiency.

Use CBR encoding when you need to limit the size of the MP3 file or produce consistent file sizes.

Choose a CBR setting from 16kbps to 320kbps from the Record Settings screen, to customize your recording. Generally, files encoded faster than 128kbps, will have little or no sound quality improvement.

Constant Bit Rate encoded files will be smaller than [Variable Bit Rate](#) encoded files, of a comparable encoding speed, for example a song recorded in CBR at 128kbps will be smaller than the same song recorded in VBR at 50.

## Digital Recording

Digital Recording is the recommended recording mode. It is faster than [Analog Recording](#), with recording speeds up to 5 times play speed. The success with which your drive will be able to record in digital is based on the drive's ability to accurately seek digital information. It is also dependent on whether the manufacturer has chosen to support digital extraction (the Redbook standard).

Approximately 15% of current drives are not able to extract digital audio, or do so in such a poor manner that the sound quality is compromised (jitter). If this is the case, your MusicMatch Jukebox will configure itself upon initialization to record in analog mode. You can attempt to record in digital mode and can make the change in the Record Settings screen. It is possible it will record with optimal sound quality or it may work, but with reduced sound quality, (clicks and pops). The digital recording attempt may fail midway through the song and start the recording again in analog mode. When attempting to record digitally, be sure to record with [Error Correction](#) on. This will reduce the jitter.

Your system will default to [Near CD Quality](#) at 96 kbps in the unregistered version. You may also choose [FM Radio Quality](#) or [CBR](#) at 96 kbps or lower. [VBR](#) options are not available in the unregistered version. You must choose whether to record in mp3 or RealAudio formats.

In the [registered](#) version of the program, you can choose to record in [CD Quality](#) at 128 kbps or higher as well as utilize the [Variable Bit Rate](#) feature. You can also choose to record in .wav format.

The difference in sound quality between digital and analog should be minimal, depending on the quality of your sound card and PC system.

If the track number is green at the end of your recording session, this means that recording was successful with optimum quality. If it was yellow, it means that recording was successful but with reduced sound quality. If it usually turns green and suddenly turns yellow, this is usually due to a flaw or dirt on the CD. Try cleaning it and re-recording. If it turns red box, it means that recording was unsuccessful. You will then see an error code at the bottom of the screen explaining your error. Click here for [Record Error Code](#) descriptions.

For further help with digital recording, please refer to [Troubleshooting-Recording](#).

## **Analog Recording**

Analog Recording mode is for those drives unable to extract digital audio (with or without [Error Correction](#)), or which are unable to extract it without considerable jitter (poor seeking accuracy). Please also see [Digital Recording](#).

Analog is the slowest recording option because you must record in real play time. Your system will default to [Near CD Quality](#) at 96 kbps in the unregistered version. You may also choose [FM Radio Quality](#) or [CBR](#) at 96 kbps or lower. You must choose whether to record in mp3 or RealAudio formats.

In the registered version of the program, you can choose to record in [CD Quality](#) at 128 kbps or higher as well as utilize the [Variable Bit Rate](#) feature. You can also choose to record in .wav format.

The difference in sound quality between digital and analog should be minimal, depending on the quality of your sound card and PC system.

If your program crashes during a muted recording, you may find that upon re-boot your PC sound is muted. Go to Volume Controls and de-select mute to correct this situation.

If the track number turns green at the end of your recording session, this means that recording was successful with optimum quality. If it turns yellow, it means that recording was successful but with reduced sound quality. If it turns red, it means that recording was unsuccessful. You will then see an error code at the bottom of the screen explaining your error. Click here for [Record Error Code](#) descriptions.

For further help with analog recording, refer to [Troubleshooting-Recorder](#).

**Error Correction**

During the recording process, drive-seeking errors may cause clicks and pops to be heard in the recorded song. To eliminate or minimize noise, select Error Correction. This option is found in the Recorder Settings screen.

Recording time will take longer, but the clicks and pops will be minimized. Some drives will record excellent quality sound without this option selected. We suggest you try both formats to decide which is better for your drive.

**Recording Source**

If you have more than one CD-ROM drive, choose the one you want to record from, under Recording Source in the Recorder Settings screen.

You can also select 'Line in' which allows you to record from other sources, such as albums and cassettes.

**Directory For New Songs**

Select the location where your song files will be saved from Recorder/Options. The default directory is C:\Program Files\MusicMatch 4\Music.

**Make Sub-Path Using**

You can further specify sub-directories where your song files will be saved. To have your song files saved directly to a sub folder titled either by the Artist name or the Album title of the CD you are recording. Alternatively, you may select both options and in this case, the Album title folder will reside in the Artist name folder.

**Directory Information**

This information is specific to your system and allows you to intelligently determine the location of your MP3 files.

## **Name Song File Using**

Customize the naming of your song files from the New Songs Directory Options screen. Choose to name your song files using Track Number, Track Title, Album title, or Artist name. The files will be saved to the directory specified in the Directory for New Songs.

You may use more than one of the options listed, to name your song files. For example, you may want them first listed by track number, according to their order on the CD, and then by track title. In this case, you will click on Track Number so it is highlighted and then use the up arrow so it is first in the list. Click the white box to the left so it is selected with a check mark. Then click on Track Title, so it is highlighted and using the up arrow, move it so it is second in the list and select it. Now your song files will be saved to the specified directory as Track Number\_Track Title.

You can use all four criteria at once, in any order, to name your song files and each will be separated by an underscore in the file name. You will receive a prompt if you try to duplicate a song file name in the same directory. This may happen if the only criteria you choose is Track Number, or if CDDB does not return any CD information and you do not manually input the data.

Customizing the naming of your song files will not affect how they are displayed in your Music Library.

## **Fade In / Fade Out**

The Special Effects are new features in version 4 and the fade options specifically will make the transition one from one track to the next in your play list, sound smoother and more professional.

The fade in/out will be recorded into the .mp3 file, therefore you may want to adjust the fade levels from track to track. Fade time is measured in seconds, so as an example; if your fade in time is set to five seconds, the start of the song will go from no sound to full sound in five seconds. Visually, think of a graph. Does the vertical gain or drop of the sound ramp sound smooth? Again, it will vary from track to track and it may take you a couple of record attempts to get it right.

When fading out of one track and in to another, MP3's will not play simultaneously.

**Track Offset**

Use Track Offset to advance the record start time slightly. This may be used to eliminate the pause between tracks and is often used in conjunction with the fade options. There will be no difference in the quality of the recording.

Track Offset is measured in seconds and will affect the length of your recorded song.

**Normalization**

The volume level at which a Compact Disk is created varies from CD to CD. Eliminate volume differences in your recordings, using the Normalization setting to determine the 'peak' volume level. A setting of 100% will adjust all recorded song data to this new maximum.

## Channels

**Stereo** – All recordings, regardless of compression rate, will by default, be encoded with dual channel, stereophonic sound.

**J-Stereo** (Joint Stereo) – Like Stereo, J-Stereo is a high quality, dual channel encoding process. J-Stereo though, has an encoding feature that ensures consistently high audio quality throughout an encoded file by making intelligent bit-allocation decisions during the encoding process. Joint Stereo is often used in conjunction with the [VBR](#) or [CBR](#) encoding processes and can be selected from ‘Advanced’ in the Record Settings screen.

**Mono** – You may elect to record with a single channel, monaurally. This option is generally selected at expense of sound quality and depth in order to reduce MP3 file size. You can select this option from ‘Advanced’ in the Record Settings screen.

To record tracks at a bit rate higher than 96 kbps, you must [register](#) your program.

## Stereo Bands

4,8,12,16

**DAE Speed**

If your song files sound like they are playing too fast, it is usually because your drive is unable to keep up with the recording process. This usually occurs in less powerful processors. Changing the speed setting to 4 (4x recording speed) will generally remedy the problem. If not, try 2 and then 1. (1 being the slowest setting, or 1x recording speed).

**Multipass**

If you are experiencing considerable jitter even with [error correction](#) on, try changing this setting =yes.

**Block**

This value can be increased up to 100 to improve jitter and speed problems in digital recording.

**Overlap**

This value can be increased to 10 to improve the effects of jitter in digital recording.

**Max-Mismatch**

This value can be increased to 255 when a user is experiencing poor digital recording quality due to jitter and/or speed.

**Enable**

To make song clip, check the Enable box in the Recorder Settings screen, under Make Song Clips. You must determine the start time and length of the clip; for example you want a 30 second song clip that starts 80 seconds into the song. You will need to determine the start time by listening to the track on a CD Player.

**Short / Medium / Long**

In the Auto Configure process, the program samples the record process of a track and determines the default record settings for optimal recording on your system. This will be done automatically the first time you open your Recorder screen.

Short, Medium and Long simply refer to the length of time a song is sampled. MMJB will default to Auto Configure, Medium. An Auto Configure should be done with any change of hardware and can be found in the Settings/Recorder/Advanced screen.

**[Click here for more FAQ's online.](#)**

**Important Note:**

File extensions must be in lower case before adding to the file name.

i.e. .bmp & .jpg

**NOT** .BMP & .JPG

## **Recorder Settings**

### **Compression Mode**

[CD Quality](#)

[Near CD Quality](#)

[FM Radio Quality](#)

*Custom Quality*

[Constant Bit Rate \(CBR\)](#)

[Variable Bit Rate \(VBR\)](#)

### **Recording Mode**

[Digital Recording](#)

[Analog Recording](#)

[Error Correction](#)

[Recording Source](#)

### **Songs Directory**

[Directory For New Songs](#)

[Make Sub-Path Using:](#)

[Directory Information](#)

[Name Song File Using:](#)

### **Advanced**

#### **Special Effects**

[Fade In / Fade Out](#)

[Track Offset](#)

[Normalization](#)

#### **MP3 Encoding**

[Channels](#)

[Stereo Bands](#)

#### **Auto Configure**

[Short/Medium/Long](#)

#### **Digital Audio Extraction**

[DAE Speed](#)

[Multipass](#)

[Block](#)

[Overlap](#)

[Max\\_Mismatch](#)

**Make Song Clips**

[Enable](#)

### **Use MusicMatch as your default .mp3 and .mru player**

MP3 files are compressed song files. MRU files are entire play list files. Both require an MP3 player to be used. If MusicMatch Jukebox is the only MP3 program installed on your system, you will of course, select MusicMatch as your default player. This will have been determined in the installation as well. If you have another MP3 player on your system that you selected as the default in the install, From the General Settings screen check 'Use MusicMatch as your default .mp3 and .mru player' to begin using the MusicMatch player as your default.

**DAE Speed**

Digital Audio Extraction speed will default to MAX, which is maximum recording speed.

{ewl RoboEx32.dll, WinHelp2000, }

