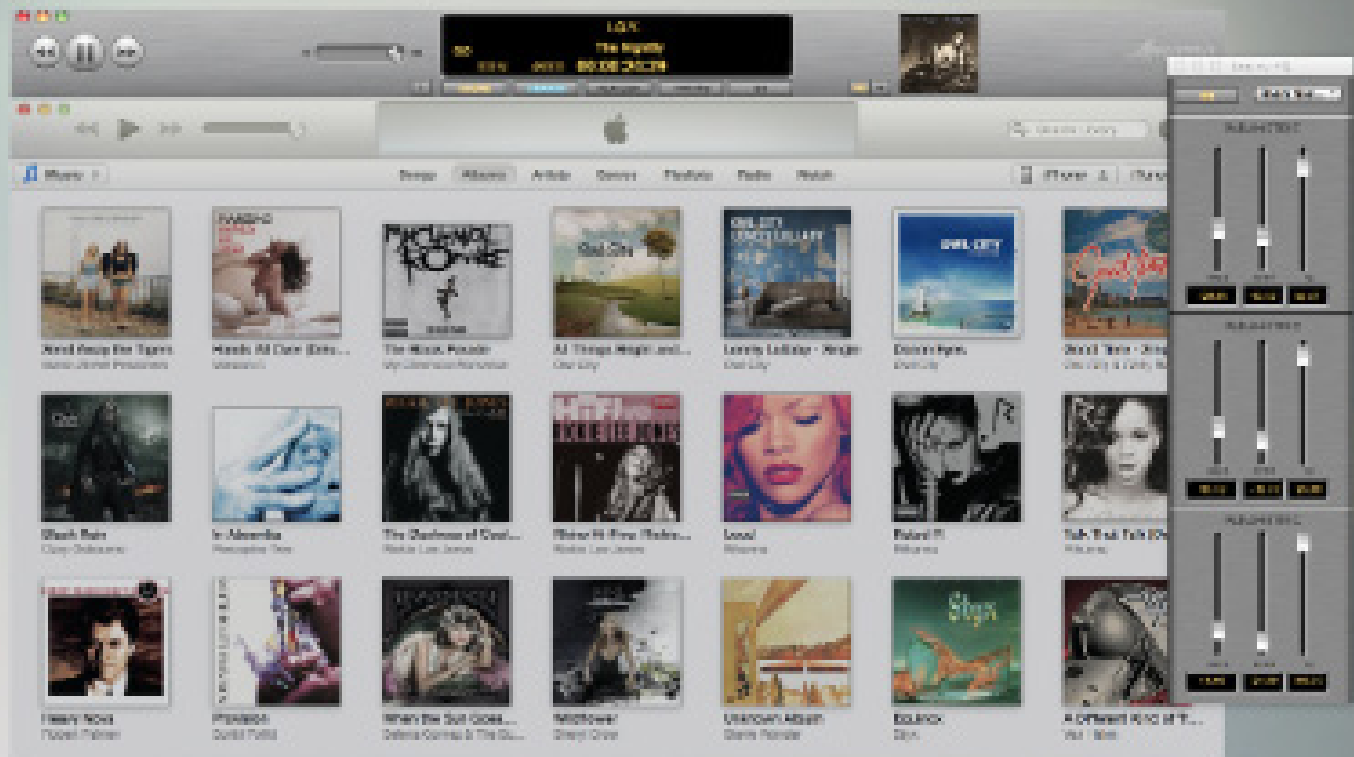


Amarra™
The purist music player



User Manual

Software Version 2.5

It's Like Hearing Music For The First Time

Amarra User Manual Table of Contents

About This Manual	5
Notice of Liability	5
Notice of Rights	5
1.0 Welcome to the World of Amarra	6
2.0 Getting Started	7
2.1 Connecting to your output device	7
2.2 Launching Amarra or Amarra Symphony the First Time	7
2.3 Launching Amarra and Symphony Going Forward	8
3.0 The Amarra Horizontal User Interface	9
1) Transport buttons	9
2) Amarra Volume Slider	9
3) Amarra UI Window	9
4) Playlist Commands - only visible when in Playlist mode*	9
5) Artwork window	9
6) 'M' Button - Meters only available in Amarra Symphony	10
7) 'I' Button - Information Button	10
8) CACHE Button	10
9) Amarra/iTunes Button	10
10) PLAYLIST Button	10
11) TRACKS Button	10
12) EQ Button	10
13) LINK Button	10
14) Down Arrow Button	10
3.1 The Amarra Vertical Window	11
4.0 Basic Music Playback from your iTunes library	12
5.0 Additional Features to Further Improve your Sound	14
5.1 AMARRA PLAYLISTS	14
5.1.1 General Information about Amarra Playlists:	14
5.1.2 Amarra Playlist Window	15
5.1.3 Entering Playlist Mode	15

5.1.4 Loading tracks into a Playlist	15
5.1.5 Using your Amarra Playlist	16
5.1.6 Saving a Playlist for Future Recall	16
5.1.7 Opening an Existing Playlist	17
5.1.8 Clearing your Playlist	17
5.2 CACHE MODE	17
5.3 AMARRA EQ	17
5.3.1 Displaying the EQ Window	18
5.3.2 Turning the EQ On	18
5.3.3 Adjusting EQ	18
5.3.4 Setting Amarra EQ via iTunes	19
5.3.5 Saving and Recalling EQ Settings	19
6.0 Playing FLAC Files	20
6.1 Playing FLAC Files Natively via Amarra Playlists	20
6.2 Playing FLAC Files from iTunes	20
6.2.1 Converting FLAC Folder to AIFF Format	20
6.2.2 Converting FLAC Files to AIFF Format	21
7.0 Gapless Playback	22
7.1 Gapless Playback in Amarra/iTunes Mode:	22
7.2 Gapless Playback in Amarra Playlist mode:	22
8.0 Sample Rate Conversion using Sonic Studio Process	23
8.1 Launching Sonic Studio Process	23
8.2 The Params Window	23
8.3 The Que Manager Window	24
9.0 Amarra Symphony Additional Features	25
9.1 Meters Display	25
9.2 Amarra Preferences window	25
9.3 Global Sonic EQ	25
9.4 Panner Window	26
10.0 Registering Your Amarra Software	27
11.0 Contacting Sonic Studio	28
APPENDIX A - Amarra Pulldown Menus	29
A.1 Amarra Pulldown Menu	29

A.2 File Pulldown Menu	30
A.3 Playlist Pulldown Menu	31
A.4 Desk Window	32
A.5 Windows Menu	32
APPENDIX B - The Amarra Preferences Window	33
B.1 LAUNCH SETTINGS	33
B.2 PLAYBACK SETTINGS	33
B.3 CACHE SETTINGS	33
B.4 DITHER SETTINGS	33
B.5 PROCESSING SETTINGS	34
B.6 HARDWARE SETTINGS	34
B.7 ADDITIONAL SONIC HARDWARE SETTINGS	34
APPENDIX C - Your Amarra 2.5 Folder	35

About This Manual

This manual, as well as the software described in it, is furnished under license and may only be used or copied in accordance with the terms of such license. The information in this manual is furnished for informational use only, is subject to change without notice, and should not be construed as a commitment by Sonic Studio, LLC. Sonic Studio, LLC assumes no responsibility or liability for any errors or inaccuracies that may appear in this book.

Except as permitted by such license, no part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, recording, or otherwise, without the prior written permission of Sonic Studio, LLC.

Notice of Liability

The author and publisher have made every effort to ensure the accuracy of the information herein. However, the information contained in this document is provided without warranty, either express or implied. Neither the authors, Sonic Studio, LLC, nor its dealers or distributors will be held liable for any damages to be caused either directly or indirectly by the instructions contained in this book, or by the software or hardware products described herein.

SONIC STUDIO, LLC MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, REGARDING THE APPLE SOFTWARE. SONIC STUDIO, LLC DOES NOT WARRANT, GUARANTEE, OR MAKE ANY REPRESENTATIONS REGARDING THE USE OR THE RESULTS OF THE USE OF THE SONIC STUDIO, LLC SOFTWARE

IN TERMS OF ITS CORRECTNESS, ACCURACY, RELIABILITY, CURRENTNESS, OR OTHERWISE. THE ENTIRE RISK AS TO THE RESULTS AND PERFORMANCE OF THE SONIC STUDIO SOFTWARE IS ASSUMED BY YOU. THE EXCLUSION OF IMPLIED WARRANTIES IS NOT PERMITTED BY SOME STATES. THE ABOVE EXCLUSION MAY NOT APPLY TO YOU. IN NO EVENT WILL SONIC STUDIO, LLC, ITS DIRECTORS, OFFICERS, EMPLOYEES, OR AGENTS BE LIABLE TO YOU FOR ANY CONSEQUENTIAL, INCIDENTAL, OR INDIRECT DAMAGES (INCLUDING DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION, LOSS OF BUSINESS INFORMATION, AND THE LIKE) ARISING OUT OF THE USE OR INABILITY TO USE THE SONIC STUDIO SOFTWARE EVEN IF SONIC STUDIO HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. BECAUSE SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES, THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

Notice of Rights

©2007-2013 Sonic Studio, LLC — All rights reserved. No part of this document may be reproduced, stored in a retrieval system or transmitted in any form or by any means, without the prior written permission of the publisher.

Sonic Studio, Amarra, Amarra Hifi, Sonic Mastering EQ, Model 302, Model 303, Model Four, Model 305 and the Sonic Studio and Amarra logos are trademarks of Sonic Studio, LLC. All other company or product names are either trademarks or registered trademarks of their respective owners.

1.0 Welcome to the World of Amarra

Congratulations and welcome to the Amarra family. By now you should have successfully downloaded, installed and activated Amarra and are ready to listen to your music! We have a few short notes to pass along to make your listening experience better.

- If you haven't Installed and Activated Amarra yet, please do the following:
 - Double-click on the Amarra Installer Package to launch the installer
 - Follow on screen instructions for installation
 - Enter system admin password when prompted
 - Amarra and Symphony will auto launch as part of installation
 - Amarra Hifi and Amarra Vinyl need manual launch
- If you have any issues Activating Amarra, please refer to the Amarra Installation and Activation Guide located in your Amarra 25 folder in Finder. If problems persist, please contact us at support@sonicstudio.com
- Google Translate now provides for translating full documents into local languages. Please visit <http://translate.google.com/>, select the desired language to translate to and click on 'translate a document'. It's not a perfect tool, but it may help those who prefer languages other than English
- Always launch Amarra first and let it launch iTunes to ensure proper operation
- DO NOT adjust the sample rate in Audio Midi Setup or set your DAC's sample rate manually to match the sample rate of the file. Amarra will automatically set both Audio Midi Setup and your DAC correctly to match the native sample rate of the file being played back.
- If Amarra quits unexpectedly for any reason, please delete your Amarra Preferences prior to launching Amarra. See Appendix B for information on Amarra Preferences.
- Amarra and Amarra Symphony use the same software. An Amarra Symphony license will unlock the additional features. You can verify that you are running Amarra Symphony by the presence of the 'M' button on the Amarra User Interface to the left of the center window. If the button is present, you are running Amarra Symphony
- A significant amount of additional information can be found at our support portal and on our FAQ. Please visit our support page at <http://www.sonicstudio.com/amarra/amarrasupport.html> to access these resources.
- Holding the Mouse over any button will display a HelpTip displaying what the button does.

It's time to Enjoy the Music!!

2.0 Getting Started

This section reviews the initial steps needed to ensure proper operation of Amarra.

2.1 Connecting to your output device

Ensure you have correctly set up the device you are sending your music to (built in audio, external DAC) by selecting the desired device in Audio Midi Setup and setting it to be the device for sound output (and sound input if available). You can access Audio Midi Setup in the Applications->Utilities folder in Finder.

As an alternative, you can set the output device using the Sound item on the System Preferences window.

NOTE: The table below reflects the sample rates supported by Amarra for the various interfaces connecting your Mac to your DAC/Output device. Remember that Amarra does not do any realtime up or downsampling as we believe this to be an audiophile no-no that results in non-bit-perfect, potentially inconsistent output. Ensure your DAC supports the desired sample rates natively and you should be all set.

Amarra/Device (DAC) Sample Rate Support								
Interface connection between Mac and Device - listed in order of preference*	44.1 Khz	48 kHz	88.2 kHz	96 kHz	176.4 kHz	192 khz	352.8 kHz	384 kHz
Firewire/USB	Y	Y	Y	Y	Y**	Y**	Y**	Y**
Optical Built-in Audio (Mac)****	Y	Y	M***	Y	N	N	N	N
Wireless	Y	N	N	N	N	N	N	N

*Interfaces are listed in recommended order for best sound

** If your device supports 176.4kHz, 192kHz, 352.8kHz and 384kHz input via the Firewire or USB Interface on your device. If your device accepts hi resolution input (176.4k or above) only on it's S/PDIF or Toslink interface, you will need a FW or USB->S/PDIF or Toslink Converter

*** Some earlier Macs do not support 88.2 khz. Use Audio Midi Setup to verify sample rate support for Built In Audio on your Mac.

****Optical Built-in Audio (Mac) or Toslink is limited to a maximum output sample rate of 96kHz out of the Macintosh computer

Amarra/DAC Sample Rate Support

Once you've correctly set the device for sound output, you are ready to launch Amarra.

2.2 Launching Amarra or Amarra Symphony the First Time

As part of the installation process you will be asked to launch Amarra or Amarra Symphony. Simply select 'Yes' when prompted and Amarra will launch as the installation process completes. Amarra should find your sound output device automatically. This can be verified by clicking on the 'I' button on the Amarra User Interface. Your device should be displayed in the Amarra UI window.

2.3 Launching Amarra and Symphony Going Forward

To launch Amarra or Symphony moving forward, click on the Amarra icon in your dock or navigate to your Applications->Amarra 25 folder in Finder and double-click on 'Amarra.app'.

As long as your device is set as the device for sound output prior to launching Amarra, Amarra should automatically find the device.

3.0 The Amarra Horizontal User Interface

Amarra has 2 different User Interfaces available, one horizontal and one vertical. The horizontal user interface is the default UI and is shown below. To swap to the vertical UI, select Use Vertical Window in Amarra Preferences and restart Amarra. To swap back, de-select Use Vertical Window in Amarra Preferences and re-start Amarra.



Amarra Horizontal User Interface
* Only available in Amarra Symphony

1) Transport buttons



- << Go to head of current track, double-click to go to previous track
- ||> Pause/Play button
- >> Go to next track

2) Amarra Volume Slider



- Adjusts volume for Amarra playback. If you are using an external device, we recommend leaving the Amarra volume at full volume (all the way to the right) and use your volume control on your external device to adjust playback volume.

- The speaker icons are hot spots for 0, and -144 dB.

- iTunes and Amarra Volume are kept in sync.

NOTE: You may notice a small delay or echo while the iTunes Volume is being moved.

3) Amarra UI Window

- Displays Track Name and Album Name
- Displays Gain level in dB (0.0dB to -144dB).
- Displays sample rate of current track
- Displays position of Playhead via counter

- If Preload Tracks Preference set - Displays track playing and tracks loaded
- If Cache selected - Displays amount of RAM used to load selected tracks
- If EQ is on - Displays current EQ setting

NOTE: If Gain is less than 0.0,dB dithering is enabled if auto-dither is selected in Amarra Preferences.

4) Playlist Commands - only visible when in Playlist mode*

See Section 5 for more details on using Amarra Playlists.

Add: Adds selected tracks from iTunes into your Amarra Playlist

Finder: Opens a Finder window to navigate to and select files to add to an Amarra Playlist

Clear: Clears Playlist. Also clears preloaded tracks when in Amarra mode

Open: Opens a saved Amarra Playlist - clears current playlist

Save: Opens a Finder window to save current Playlist for future recall

* Clear Button is visible in Amarra mode and clears any Preloaded Tracks

5) Artwork window



- Displays available artwork
- Double-click on the Artwork window to open a larger, independent Artwork window

NOTE: Not all tracks contain artwork. Use the Get Album Artwork command in iTunes to get additional artwork.

NOTE: Amarra stores artwork in your Macintosh HD/Library/Applications Support/Sonic Studio/Artwork folder in Finder. If you are missing artwork, ensure you have proper permissions for this folder.

6) 'M' Button - Meters only available in Amarra Symphony



- Click to display Meters in the Amarra UI Window.

7) 'I' Button - Information Button



- Click to display your device information in the Amarra UI Window. This is a good way to validate the device Amarra is outputting music to.

8) CACHE Button



- Preloads tracks into RAM to minimize disk access and improve performance
- Available in both Amarra and Playlist modes
- Toggle button to turn Cache On and Off

9) Amarra/iTunes Button



- Indicates the engine being used to playback music from your iTunes library.
- Amarra in blue indicates Amarra is playing back your music
- iTunes in yellow indicates iTunes is playing back your music.

NOTE: A great way to do an A/B comparison between Amarra and iTunes is to simply toggle the Amarra/iTunes button.

10) PLAYLIST Button



- Enters Amarra Playlist mode and sets your Amarra Playlist as the source for your music.

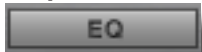
NOTE: When in Playlist Mode, Amarra is ALWAYS playing your music back.

11) TRACKS Button



- Active in both Amarra Playlist mode and when using PreloadTracks in Amarra mode. Indicates the track being played back and the total tracks in your Playlist or Preloaded

12) EQ Button



- Turns the Equalizer window on and off.
- Use Option-click to Bypass EQ

NOTE: This button only effects the display of the EQ window. Use the EQ button on the Equalizer to turn the EQ on and off.

13) LINK Button



- Links the Amarra UI to the iTunes window. Move your iTunes window and Amarra will follow.

NOTE: If you move your Amarra window, iTunes does not follow. This is useful if you need to temporarily separate the windows.

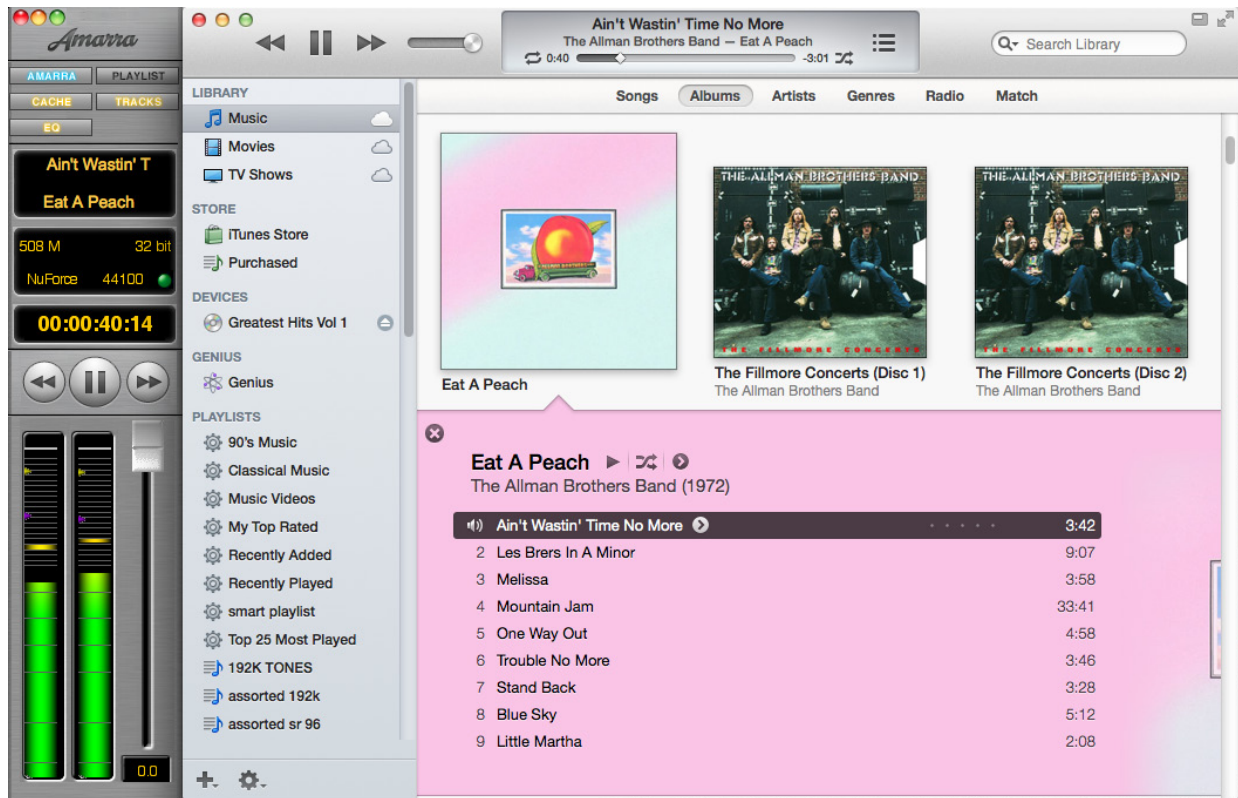
14) Down Arrow Button



- Toggles the Artwork Window on and off

3.1 The Amarra Vertical Window

The Amarra Vertical Window is accessible via the Amarra Preferences window. Simply click on Amarra Vertical Window and restart Amarra to use the Vertical window.



Amarra Vertical Window with iTunes

4.0 Basic Music Playback from your iTunes library

Playing music using Amarra is a very simple process. Once you launch Amarra, you should see both the Amarra and iTunes windows on the screen. Amarra runs alongside Apple's iTunes program. This allows you to manage and access all your music through the main iTunes Music Library or through custom Amarra Playlists.

You can use iTunes like you always have, select the songs / Playlists and play. Amarra will automatically playback any track it can and seamlessly switches to iTunes for playing back of protected files or other files that Amarra may not be able to play back in your current configuration.

NOTE: If you don't see the Amarra window, it is likely behind your iTunes window. Make your iTunes window smaller (or exit Full Screen Mode) and you should find the Amarra window on screen. Use the 'link' button on the Amarra UI or choose Link Amarra window to iTunes in Amarra Preferences to link the Amarra and iTunes windows together.

NOTE: Amarra plays most compressed files including FLAC, MP3, AAC, and Apple Lossless (ALAC). Amarra does not play some variable bit rate or low bite rate MP3 files.



You can verify that Amarra is playing back your music by seeing the Amarra button turn blue

on the Amarra UI. If the button has turned yellow and displays 'iTunes', it means that Amarra has passed control to iTunes for playback of the current track. Amarra will automatically take over playback on the next track that it can play back natively.

- Use the Transport buttons to Play/Pause and move to the next track, beginning of current track or previous track or randomly choose tracks in iTunes.
- Use the iTunes Playhead slider to move to a different location in the current track.
- You can also change the current position of the playback head by modifying the Time Display in the Amarra UI.



- Click on Pause, then double-click on the Time element you want to modify. Type in a new value and hit Return
- Or
- Pause, click on a time element and drag your mouse left/right or up/down to change the time. Click Return to save the new setting.

NOTE: KEYBOARD SHORTCUTS - Use the following key commands in place of menu commands.

1, 2, 3 - Change playback to Amarra / iTunes / Playlist.

5,6 - PreviousTrack / NextTrack

8,9 - Down / Up Volume

a, c, l, m, e - Add From iTunes / Clear Playlist / Load Tracks, Mute, Show EQ Window

5.0 Additional Features to Further Improve your Sound

NOTE: For Optimal Sound Quality we recommend: Use the CACHE and load your Tracks into a Playlist. Quit iTunes. This can provide optimal sound reproduction.

5.1 AMARRA PLAYLISTS



Amarra Symphony and Playlist windows

Using Amarra Playlists provides several benefits including:

- Processes your music more efficiently than in Amarra/iTunes mode resulting in better sound quality
- *Ability to run independently of iTunes
- Ability to play FLAC files natively, no conversion needed

5.1.1 General Information about Amarra Playlists:

- You can load tracks of different sample rates and different file types into the same Playlist without issue.
- Tracks can reside in more than one Playlist
- Amarra only stores a pointer and some other information about the file, it does not make an additional copy of the file when adding to a Playlist
- If you move your tracks to another location on your disk, you will need to re-do your Amarra Playlists
- Commands for Amarra Playlists can be accessed from the Amarra UI, the Amarra Playlist UI or from the Amarra->Playlist pulldown menu.

- You will only be able to load tracks into an Amarra Playlist that Amarra can playback. If you get a 'sample rate not supported' message, please check to make sure your Mac, interface and DAC all support the sample rate of the track being loaded.

- You can also use a drag/drop method of loading tracks into your Amarra Playlist from either your iTunes library or a Finder window.

5.1.2 Amarra Playlist Window

Amarra Playlist mode provides an additional, independent Playlist window (optional) to manage your Amarra Playlists.

There are some new buttons on the Amarra Playlist window to be aware of.

The Link Button:



This button links the Amarra window to the Amarra Playlist window. As you move the Amarra window, the Playlist window will follow.

The Repeat Playlist Button:



This button has 2 states and determines what Amarra should do at the end of a Playlist.

Stop at end of Playlist:



Repeat Playlist:



All other buttons on the Amarra Playlist UI have the same function as on the Amarra UI.

5.1.3 Entering Playlist Mode

Entering Playlist mode is easy. Simply press the Playlist button on the Amarra UI. The button will turn blue and typically the Playlist window is displayed. If you do not see the Playlist window, click on the Amarra->Windows->Playlist pull down menu item at the top of the screen.

The PLAYLIST BUTTON:



5.1.4 Loading tracks into a Playlist

There are 2 ways to load new tracks into an Amarra Playlist - selecting tracks from your iTunes library or selecting tracks via Finder.

The ADD Button:



To select tracks via your iTunes library, please do the following:

- Bring your iTunes window to the front and select the desired tracks in iTunes. You can use the command key and shift key to select individual tracks or a range of tracks.
- Click on the Amarra UI to bring Amarra to the front
- Click on the "ADD" button. The selected tracks in iTunes will load into your Amarra Playlist.

The *FINDER* Button:



To select tracks using the Finder, please do the following:

- Click on the Finder button on the Amarra UI
- Navigate to the tracks you'd like to load in the resulting Finder window.
- * Highlight the desired tracks and click 'Open' to add the tracks to your Amarra Playlist

NOTE: Native FLAC File Playback: Use the Finder button to load your FLAC files natively into an Amarra Playlist. Navigate to your desired FLAC files, select and click 'Open' to add to your Playlist.

5.1.5 Using your Amarra Playlist

Choosing Tracks in your Playlist

You can select tracks in your Playlist by doing the following:

- Select the track with your cursor and hit Play
- Use the up or down arrow to move up and down in the Playlist
- Use the >> and <<Transport buttons on the Amarra UI to move to the next track, to the head of current track or to the previous track

You can also use the Tracks Button to see the list of tracks loaded and to choose a desired Tracks

The *TRACKS* BUTTON:



Pulldown menu of the tracks either in your Amarra Playlist or Preloaded if in Amarra mode

Deleting Tracks

You can delete a track in the current Playlist by Highlighting the track and hitting the Delete Key on your keyboard

Moving Tracks

You can move tracks up and down in the current playlist by highlighting the track and holding the mouse key down. You will see a white line that you can move around in the Playlist and it indicatea where the file will be placed when dropped. Release the mouse to drop the file in place. It will take Amarra a moment to rebuild the Playlist so please be patient.

5.1.6 Saving a Playlist for Future Recall

You can Save your Amarra Playlist for recall at a future time by using the Save button on the Amarra UI, on the Amarra Playlist UI or from the Amarra->Playlist pulldown menu.

The *SAVE* Button:

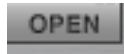


- Press the Save button
- Set the desired name for the Playlist
- Click the Where pulldown item to navigate to the desired location for your Playlist
- Saving a Playlist with the same name and location will overwrite the existing Playlist

5.1.7 Opening an Existing Playlist

You can recall an existing Amarra Playlist in one of 2 ways. You can either use the Open Button on the Amarra UI or drag/drop an existing Playlist into the Amarra Playlist Window.

The Open Button:



- Click on this button to access a Finder window.
 - Navigate to your saved Playlist and click Open to load into Amarra Playlists
- OR
- Drag/Drop an existing Playlist from the Finder window into the Amarra Playlist Window.

NOTE: Loading a new Playlist will clear any tracks currently in your Amarra Playlist.

5.1.8 Clearing your Playlist

To clear the contents of your current Playlist simply click on the Clear Button:

The Clear or Clear All Button:



- Click on either button to clear the current contents of your Amarra Playlist
- The Clear button also clears any Preloaded Tracks in Amarra mode.

5.2 CACHE MODE

The CACHE Button:



Cache mode pre-loads songs into RAM to minimize disk access resulting in better sound quality. Cache can be used in Amarra/iTunes or Amarra Playlist Modes. Simply click on the CACHE button on the Amarra UI prior to loading your tracks. The button will turn yellow to signify that CACHE mode is engaged. Amarra will first load your tracks into RAM and then begin playback.

The amount of RAM used for loading your tracks is displayed in the Amarra UI Window

Choose the amount of RAM to use for CACHE Playback via the Amarra Preferences window, Memory Amount item.

NOTE: Set Memory Amount to 1/3 to 1/2 of the available RAM on your machine for best performance.

5.3 AMARRA EQ

Note: Amarra Symphony Users also have access to the Sonic Mastering EQ via the Amarra Preferences window. Please see Appendix C for details on the Sonic Mastering EQ

This section presents an overview of the Amarra EQ. Use the Amarra EQ to alter the sonic characteristics of the sound. Amarra provides three parametric filters to tailor your sound. All processing is done using 64bit floating point arithmetic. The parametric filters are classic, three parameter versions, with Resonant Frequency, gain, and Q. Q or Quality Factor is defined as the resonant frequency, or center frequency in the case of a symmetrical filter, divided by the

bandwidth. The bandwidth is, in turn, defined as the one or two frequencies at which the filter response is 3 dB up or down from unity gain.

Expressing the width of a filter as a Quality Factor, rather than bandwidth, provides a more intuitive sense of the filter's subjective "sound," since the same value of Q will produce different bandwidths at different frequencies. The higher the frequency, the wider the bandwidth will be for a given Q value, which roughly corresponds to our auditory mechanism's ability to perceive a filter's action.

As an example, a parametric filter with a Q of 1 has a bandwidth of 100 Hz when its center frequency is set to 100 Hz but, it has a bandwidth of 1000 Hz when the center frequency is set to 1000 Hz.

Using the EQ takes 2 steps - first display the EQ window and then turn the Equalizer itself on.

5.3.1 Displaying the EQ Window

Click on the EQ button on the Amarra UI, below the center window. Use Option-Click on the EQ button to bypass or mute the EQ.

5.3.2 Turning the EQ On

Either click on the EQ button in the Amarra EQ window or choose one of the many presets available from the pulldown menu.

5.3.3 Adjusting EQ

Either choosing one of the presets available or by adjusting one of the 3 parametric filters by either moving the appropriate slider or typing the value in for Frequency, Gain and Q factor.



Amarra EQ Window

5.3.4 Setting Amarra EQ via iTunes

- Select the 'Link Amarra EQ to iTunes EQ' in Amarra Preferences
- Select a Track in iTunes and using "Get Info" select the "Options" Tab and set the EQ Preset. Amarra EQ will follow the iTunes EQ presets.

NOTE: A new feature in Amarra 2.5 is an Amarra Preference - 'EQ Bypass'. This bypasses any EQ processing during playback.

5.3.5 Saving and Recalling EQ Settings

The Amarra->Desk menu items allows you to save and recall your EQ settings.

- Set your EQ Settings
- Go to the Desk menu and select Save Sonic EQ Setup to save or Open Sonic EQ Setup to open an existing EQ saved setting.

NOTE: You will need to make the EQ the Active Window for the Amarra Desk menu items to be accessible. Click on the top bar of the Amarra EQ Window to make the Amarra EQ Window active.

6.0 Playing FLAC Files

Amarra supports the FLAC audio file format for playing back your music. In addition, Amarra has built-in FLAC to AIFF file conversion to allow easy integration with your iTunes Library. Why convert FLAC to AIFF?

- Easy integration with iTunes
- Integration with iTunes Metadata
- Integration with Apple Remote
- Simplified ease of use (convert and forget) • Less overhead on system resources.

6.1 Playing FLAC Files Natively via Amarra Playlists

NOTE: Amarra Playlists are not available in Amarra Hifi

Amarra provides for FLAC file playback natively via the PLAYLIST function, without using iTunes. To playback FLAC FILES via Amarra, do the following:

- Obtain your music in FLAC format from one or more of a variety of providers such as HD Tracks among others. As part of the download process, please note where your music is being downloaded to. Once the download completes (this may take some time depending on the number and size of the tracks being downloaded), move on to step 2.
- Go into Playlist Mode (see chapter 5.1 about using Playlists). Click on the Finder button in either the Amarra UI or the Playlist UI or from the Amarra->Playlist pulldown menu and select Open Tracks Via Finder.
- Navigate to your FLAC files, highlight the desired tracks.

Note: The Finder window supports both the shift and command keys for making multiple selections.

- Once you are done making your selection(s), click on the Open button to add the files to your playlist. Continue adding songs until you are satisfied with your playlist. Select File > Save Playlist to save your playlist, giving it a meaningful name and saving it in a memorable location.
- To play your playlist, just click on Amarra's Play button. You can skip forward and back in the playlist by using the forward and back buttons, using the Tracks list or by clicking on the Tracks in the playlist window.

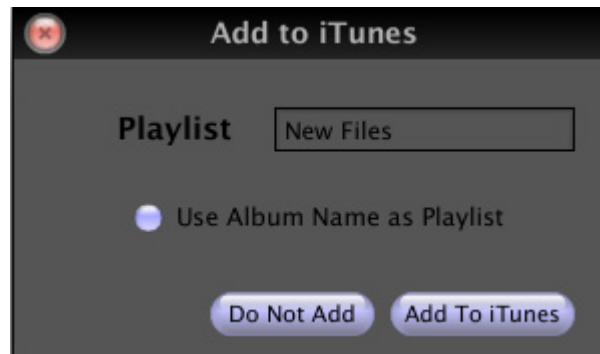
6.2 Playing FLAC Files from iTunes

iTunes does not natively support Flac Files. Your files will need to be converted to a format supported by iTunes in order to be loaded into your iTunes library. Under the Amarra->FILE Menu there are two commands available for this function. You can convert a FLAC File to AIFF or convert an entire Folder of Music to AIFF such as an album from a high resolution download music site.

6.2.1 Converting FLAC Folder to AIFF Format

Converting a FLAC Folder to AIFF is an easy 3-step process

- Click on the Amarra->File->Convert FLAC Folder to AIFF
- In the resulting Finder window, navigate to and select the source folder containing FLAC files and click Open.
- In the next window, specify the destination folder for the AIFF files. You can create a temporary folder for this or choose an existing folder for your new AIFF files. Click Open when done.
- Lastly, you will have the opportunity to automatically add these files to iTunes and create a playlist using the dialog below.



This will copy (and organize if your iTunes Preferences are set) with your iTunes library.

6.2.2 Converting FLAC Files to AIFF Format

Converting a FLAC FILE to AIFF is an easy 3-step process

- Click on the Amarra->File->Convert FLAC FILE to AIFF
- In the resulting Finder window, navigate to and select one or more FLAC files to convert and click Open
- In the next window, specify the destination folder for the new AIFF files.
- Lastly, you will have the opportunity to again, automatically add these files to iTunes and create a playlist.

NOTE: Converting FLAC Folders and Files to AIFF using Amarra is a non-destructive process. Your original FLAC files will remain intact and you will also have new AIFF files. We recommend copying your FLAC files off to your backup drive for retrieval in case of emergency. Use your AIFF files for day-to-day playback. This setup will provide better sound quality during playback and minimize the amount of space needed for backups.

7.0 Gapless Playback

Gapless playback is perfect for contiguous performances such as symphonic recordings or live performances. Gapless playback is now available in both Amarra/iTunes mode and in Amarra Playlist mode however there are some minor differences between how gapless playback is provided in each mode.

NOTE: Uncompressed files are required for Gapless Playback. Use AIFF, WAV, or BWF files

7.1 Gapless Playback in Amarra/iTunes Mode:

To enable Gapless Playback in Amarra/iTunes Mode, ensure you select the Amarra Preference setting for PRELOADTRACKS and set the COUNT parameter to the desired number of tracks (or a full album) in the gapless performance.



Once you've selected PRELOADTRACKS and a COUNT of tracks, simply choose a track in iTunes and the number of tracks in the COUNT field will be loaded together, based on current sort order, and played back gaplessly.

NOTE: The current sort order of your iTunes library is critical for gapless playback to work, especially when attempting to Preload and play a full album. Please ensure your iTunes library is sorted in the correct order when in Songs or List View prior to attempting to Preload Tracks. If Album is chosen for Count, ensure your iTunes library is sorted by Album

NOTE: Please ensure that you have disabled SHUFFLE mode in iTunes when using PRELOAD TRACKS in Amarra

7.2 Gapless Playback in Amarra Playlist mode:

Using Amarra Playlists makes it very easy to have gapless playback. All tracks in an Amarra Playlist will play back gaplessly as long as the sample rate is the same, there is no need to set the PRELOADTRACKS item in Amarra Preferences.

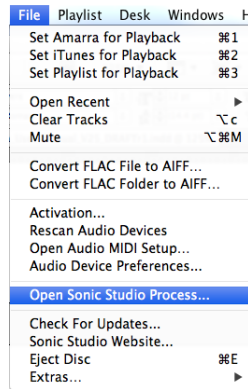
Note: Gapless Playback is designed to work with true gapless performances such as symphonic recordings, live performances and recordings that were mastered as gapless. Gapless playback is not a substitute for mixing independent tracks together.

8.0 Sample Rate Conversion using Sonic Studio Process

Amarra 2.5 introduces a new method for Sample Rate Conversion, replacing the old Background Manager with a new, integrated application called Sonic Studio Process.

8.1 Launching Sonic Studio Process

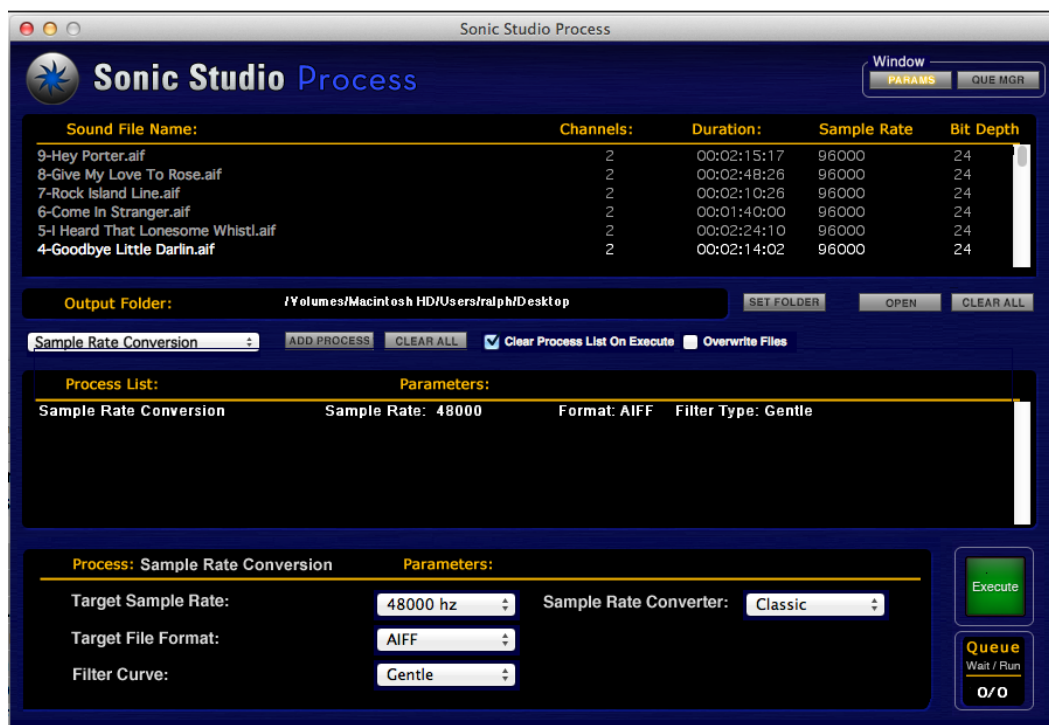
The Sonic Studio Process can be accessed from the Amarra->File pulldown menu.



Choose Open Sonic Studio Process to launch Sonic Studio Process.

8.2 The Params Window

When you launch Sonic Studio Process, you will be presented with a Params window which will allow you to set the source files you wish to convert, the destination for your converted files and a series of parameters regarding the sample rate conversion.

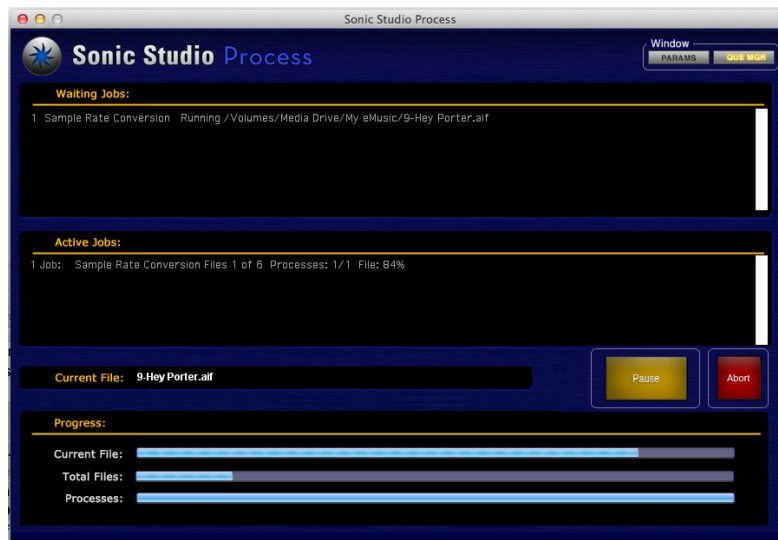


SSP Params Window

Clicking the Execute button will start the conversion.

8.3 The Que Manager Window

You can track the progress of your job by clicking on the Que Manager button to display the Que Manager window.




SSP Que Manager Window

A detailed description on using Sonic Studio Process can be found in SSP User Manual located in your Amarra 2.5->Extras folder.

9.0 Amarra Symphony Additional Features

This section presents the additional features found in Amarra Symphony.

9.1 Meters Display

Amarra employs a high precision metering section to visibly display the audio signal. Select the “M” button to show the Meters. 



AmarraTrack Area with Meters displayed

9.2 Amarra Preferences window

Amarra Symphony has one additional preference for enabling the Full Sonic Mastering EQ window.

9.3 Global Sonic EQ

Changes the Equalizer from the Amarra EQ Window to the Global Sonic EQ window A restart is required for this option to engage.

Global Sonic EQ has Full 4-Band EQ. Types supported include : Notch, Low Pass, High Pass, and many more.



Global Sonic EQ Window

9.4 Panner Window

Amarra Symphony has a stereo panner that can be used to route the output with variable gain. To open the panner select File > Panner, which brings up the Panner window.



The Panner in Stereo mode

By default, the panner opens in off mode. In the upper left corner, the channel to which the panner currently applies is indicated. As this Track indicator is also a drop down menu, it operates as a Strip selector for the panner as well. In the upper right corner.

10.0 Registering Your Amarra Software

In order to receive warranty service, you must register your product with Sonic Studio. This may be done at any time with proof-of-purchase. We strongly recommend that you register with Sonic Studio as soon as you purchase your unit.

Why?

1. Your product will be registered with us.

Registration is used as proof of ownership if your product is ever lost or stolen.

2. Sonic Studio updates Amarra software on a regular basis.

This allows us to keep you informed of updates as they become available.

We strongly encourage you to create a License Control Panel Account. Please read the Amarra Activation Guide for information on this important feature.

Please register your Amarra software using our automated registration Web page at: <http://www.sonicstudio.com> and click on Support => Register

Alternatively, our mail address is:

Amarra Software Registration Sonic Studio, LLC

330 Sir Frances Drake Blvd

Suite A

San Anselmo, CA USA 94960-2552

If you encounter issues using Amarra please refer to our Amarra Support Portal at <http://www.sonicstudio.com/amarra/amarrasupportportal.html>. If none of these steps address your problem please contact your dealer or Sonic Studio support for more help.

11.0 Contacting Sonic Studio

Thanks for using Amarra Hifi. We really appreciate your patronage and are always interested in your experiences with Amarra Hifi.

For information on problems, resources please visit our FAQ page

<http://www.sonicstudio.com/amarra/amarrafaq.html>

For bug reports and support issues, visit:

<http://www.sonicstudio.com/amarra/amarrasupport.html>

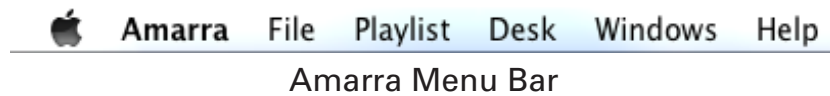
or email us:

support@sonicstudio.com

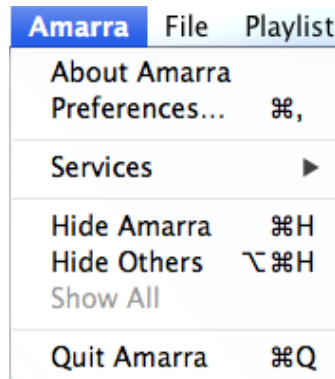
To suggest new features for our products, e-mail us at support@sonicstudio.com

APPENDIX A - Amarra Pulldown Menus

The following section describes the Amarra Pulldown Menu Items



A.1 Amarra Pulldown Menu



About Amarra: Opens the modal About window. This is useful for verifying the version number of Amarra that you are running. Click anywhere in the window to close it.

Preferences: Opens the Preference window for Amarra.

Services: This menu provides access to any Services that are available to Amarra.

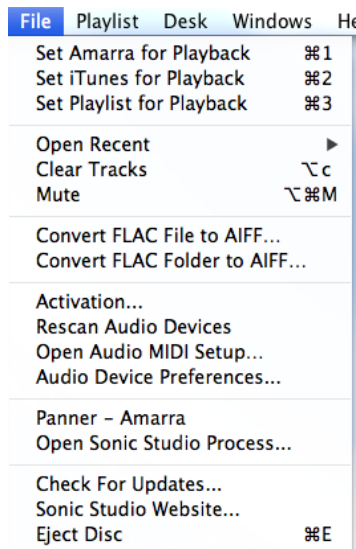
Hide Amarra: Hides all Amarra windows. To reveal the windows, click on the Dock icon or tap the ,+tab key to cycle through running applications to select Amarra.

Hide Others: Hides all windows other than Amarra.

Show All: Reveals all windows.

Quit Amarra: Quits Amarra.

A.2 File Pulldown Menu



Set Amarra for Playback [cmd+1]: Sets Amarra as the source for playback

Set iTunes for Playback: [cmd+2]: Sets iTunes as the source for playback

Set Playlist for Playback: [cmd+3]: Sets Amarra's Playlist as the source for playback

Open Recent: List of Recent Amarra Playlists for easy access

Clear Tracks: Clears Tracks from either Amarra Playlist or Preloaded Tracks

Mute: Mutes Amarra

Convert FLAC File to AIFF... : Convert FLAC Files to AIFF Format - see chapter 6 for details

Convert FLAC Folder to AIFF... : Convert FLAC Folder to AIFF Format - see chapter 6 for details

Activation...: Opens the Activation Window, refer to the Amarra Activation Guide for more information about Activating Amarra

Rescan Audio Devices: Rescans Audio Devices and updates Devices (when adding/ removing)

Open Audio Midi Setup...: Open the Audio Midi Setup window for setting up your DAC

Audio Device Preferences...: Opens the Audio Device Preferences for managing your DAC

Panner - Amarra: Opens the Amarra Panner Window (only available in Amarra Symphony)

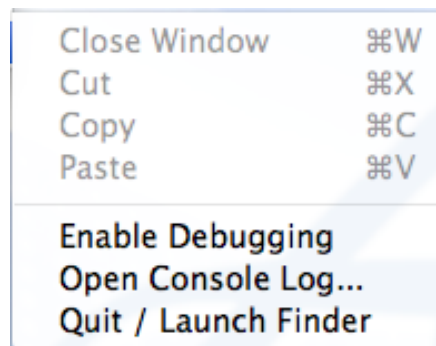
Open Sonic Studio Process...: Opens Sonic Studio Process for Sample Rate Conversion

Check for Updates...: Manually checks for availability of new versions of Amarra. Setting the Amarra Preferences - Check for Updates on Launch will automate this

Sonic Studio Website...: Links back to the Sonic Studio Website

Eject Disk...: Ejects CD from tray

Extras: submenu



Cut: Cuts the currently selected string or item to the Clipboard.

Copy: Copies the currently selected string or item to the Clipboard.

Paste: Pastes the currently selected string or item from the Clipboard.

Enable Debugging: Allows Amarra to log information on its operation to the Console Log.

System Console Log: Use the Console Application to view this log (in Utilites Folder).

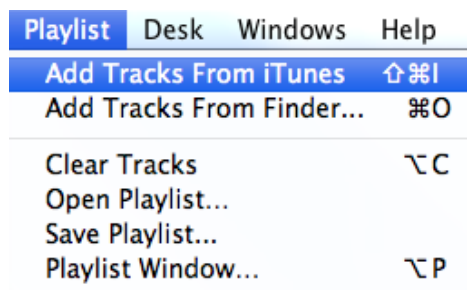
PrintTrack Info: When Debugging is enabled, prints the track info to the console log

Print Desk info: Prints Desk info to the console log

Send Crash Report: Should an application crash occur, sends information to Sonic Studio.

Do Not Send Crash Logs to Apple.

A.3 Playlist Pulldown Menu



Add Tracks From iTunes [sft+cmd+i]: Adds tracks selected in iTunes into Playlist

Add Tracks from Finder [cmd+o]: Select and add audio tracks from the Mac Finder.

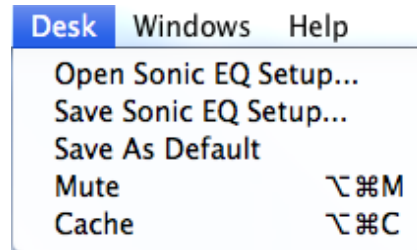
Clear Tracks: Clears the current Playlist or when, when used in Amarra/iTunes mode, clears any Preloaded Tracks

Open Playlist...: Open an existing Amarra Playlist

Save Playlist...: Saves a Playlist to disk for later recall

Playlist Window...: Opens the Amarra Playlist window

A.4 Desk Window



Open Sonic EQ Setup...: Allows you open a previously-saved Sonic EQ Setup.

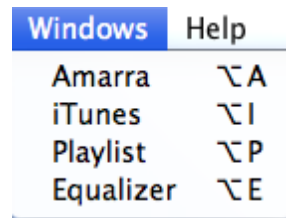
Save Sonic EQ Setup: Allows you to save the current (open) Sonic EQ Setup.

Save As Default: Save the current (open) Sonic EQ Setup as the Default EQ. The Sonic EQ Setup will be recalled on launch.

Mute [opt+cmd+M]: Turns Mute on and off.

Cache [opt+cmd+M]: Turns CACHE Mode on and off.

A.5 Windows Menu



Amarra [opt+a]: Toggles the Amarra Window on and off

iTunes [opt+i]: Toggles the main iTunes Window on and off

Playlist: [opt+p]: Toggles the Amarra Playlist Window on and off

Equalizer [opt+E]: Toggles the Equalizer on and off

APPENDIX B - The Amarra Preferences Window

This section describes all of the functions available via the Amarra Preferences window.

NOTE: Deleting Amarra Preferences - if Amarra quits unexpectedly or if you are seeing any unusual behavior, try deleting your Amarra Preferences to see if this clears the issue

- **Quit Amarra and iTunes**
- **Navigate to your Applications->Amarra 2.5->Extras folder in Finder**
- **Double-click on 'Delete Amarra Preferences.command'**
- **Re-launch Amarra when the process completes. Amarra will launch iTunes**

NOTE: By de-selecting the Amarra Preference item 'Launch/Quit Amarra with iTunes', you will stop iTunes from automatically launching when you launch Amarra. This is helpful if you wish to operate independent of iTunes, using Amarra Playlists to play your music.

B.1 LAUNCH SETTINGS

LAUNCH / QUIT ITUNES:

Forces iTunes to launch or quit with Amarra.

HIDE ON LAUNCH:

Amarra will hide on launch.

LINK AMARRA TO ITUNES WINDOW :

Forces iTunes to remain 'attached' to Amarra's main window

LINK AMARRA EQ TO ITUNES EQ :

Forces Amarra to follow the EQ settings in iTunes.

CHECK FOR UPDATES ON LAUNCH:

Amarra will check for updates on launch.

VERTICAL WINDOW:

Vertical window. (restart required)

B.2 PLAYBACK SETTINGS

PRELOADTRACKS :

Enables loading of multiple tracks in Amarra Mode. This allows gapless playback of Tracks.

COUNT :

Number of tracks to load for gapless playback

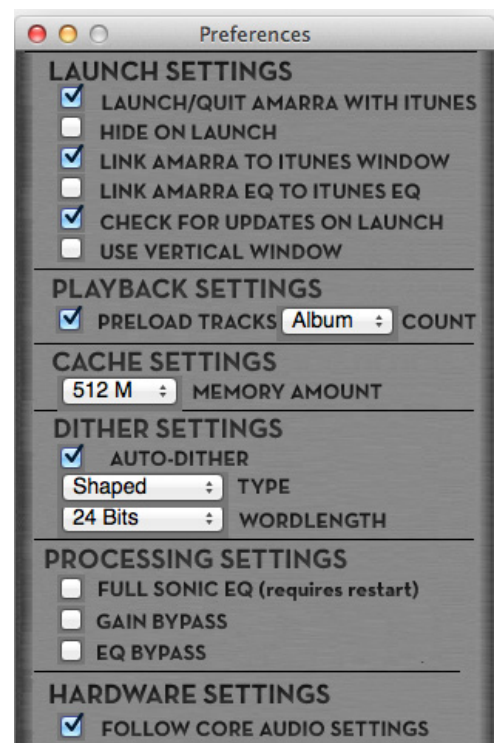
NOTE: Disable SHUFFLE MODE in iTunes when using PRELOAD TRACKS.

B.3 CACHE SETTINGS

MEMORY AMOUNT :

Maximum amount of Random Access Memory to use to store audio in Cache Mode.

We recommend between setting this to between 1/3 and 1/2 of your available memory.



B.4 DITHER SETTINGS

AUTO-DITHER:

Automatically enables redithering when Amarra's Volume is not at full volume (0.0 dB).

TYPE :

TPDF: Enables Sonic Studio's ShapedTPDF Dither.

Shaped: Enables Sonic Noise Shaped Dither

Wordlength:

Sets number of bits for output. This setting should match your DAC's word length.

For best quality enable Auto-dither if Tracks less than 24 bits is being played.

Using dither can bring a better sound when gain or EQ is being used. When dither is enabled the output of Amarra will be dithered to the setting of the Output Wordlength specified. This can be useful for providing a better sound when Gain is used or if your DAC only supports a limited word length (16 or 20 bits).

NOTE: When the Output Wordlength is set to 24 bits the dither will be “disabled” if the Gain has not been modified (at full volume). Once the Gain is adjusted then dither is re-enabled.

Amarra provides two dither options:

SonicTPDF and Sonic’s advanced psychoacoustic noise shaped dither. Your personal performance may decide which one you prefer.

B.5 PROCESSING SETTINGS

FULL SONIC EQ: (AVAILABLE ONLY IN AMARRA SYMPHONY)

Allows access to the Full Sonic EQ Window, requires a restart of Amarra to take effect

GAIN BYPASS:

Bypasses all gain adjustments made in Amarra. Plays back tracks at full volume (0.0 dB)

EQ BYPASS:

Bypasses all EQ processing current in effect.

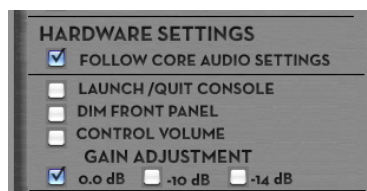
B.6 HARDWARE SETTINGS

Follow Core Audio Settings:

Automatically follow Core Audio Settings when changed. Amarra will use the same output device as specified in AMSU. Use Audio Device Preferences to set your Output Audio Device to a different Audio Device, independently of AMSU.

B.7 ADDITIONAL SONIC HARDWARE SETTINGS

Amarra provides additional preferences when used with a Sonic Audio Interface. These controls allow integration of Analog Gain Control and more.



Additional Sonic Hardware Preferences

NOTE: Requires Sonic Studio Hardware and the Amarra Console Software.

Launch/Quit Console:

Forces Sonic Console to launch or quit in sync with Amarra.

Dim Front Panel:

Dims the front panel display.

Control Volume:

Interlocks Amarra’s gain control with the hardware gain control so either can be used.

Gain Adjustment:

Set the system gain to match professional (0 dB) or consumer electronic (-10 or -14 dB) standard.

APPENDIX C - Your Amarra 2.5 Folder

This section describes the files installed in your Applications->Amarra 2.5 folder in Finder as part of the Amarra installation process.

Amarra.app: The Amarra application

Manuals:

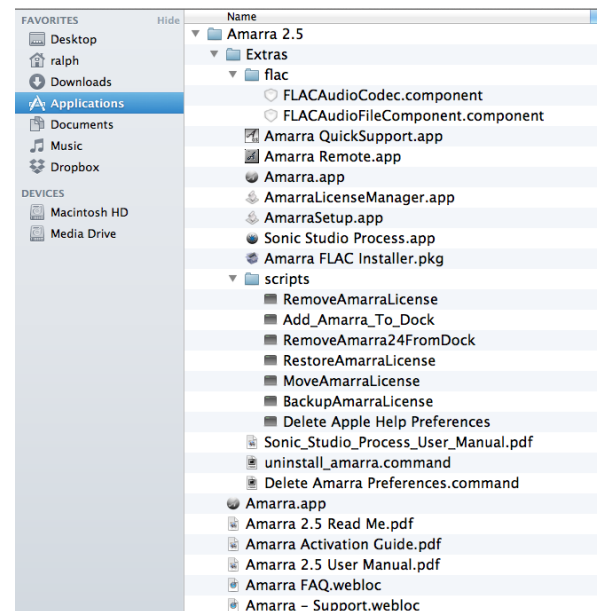
- Amarra Activatation Guide.pdf - refer to this manual for Installation and Activation instructions
- Amarra 2.5 Read Me.pdf - important notes about Amarra version 2.5
- Amarra 2.5 User Manual - refer to this manual for detailed information about operating Amarra
- Amarra FAQ.webloc - link to our Amarra FAQ
- Amarra - Support.webloc - link to the Amarra Support portal

Extras Folder: (bold items run only when launched manually)

- **Amarra QuickSupport.app** - remote login application used for remote support sessions
- **Amarra Remote.app** - for use with the Mac's Infrared Remote Control
- AmarraLicenseManager.app - use this app to manually manage backing up and removing your Amarra license
- AmarraSetup.app - use this app to manually go through the Easy Setup process of the Amarra installation
- **Sonic Studio Process.app** - use this app for Sample Rate Conversion. See chapter 8 of this manual for more information on using Sonic Studio Process.
- **Sonic_Studio_Process_User_Manual.pdf** - refer to this manual for details on operating Sonic Studio Process
- Amarra FLAC Installer.pkg - use this Installer Package to manually install the FLAC components

needed for FLAC file playback. These are automatically installed as part of the Easy Setup installation.

- Delete Amarra Preferences.command** - use this utility to reset Amarra to a factory default setting



- uninstall_amarra.command** - use this utility to uninstall Amarra and remove Amarra related files from your disc

•flac Folder - contains the 2 FLAC components needed for FLAC file playback. They are loaded into the Macintosh HD->Library->Components folder

•Scripts Folder - contains scripts used during the installation of Amarra.