



COMPUTER MUSIC PLAYER

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AMARRA Computer Music Player Installation Guide

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Thank you for purchasing the Amarra Computer Music Player. You are about to enjoy the ultrafidelity sound of Amarra. Designed to work with your Apple™ MacIntosh Computer and with iTunes, Amarra provides a seamless integration for high resolution music playback.

Contents —

This document details the installation of AMARRA and its associated software:

- 1) AMARRA Package Contents
- 2) AMARRA System Requirements
- 3) Introduction to PACE iLok Security Key
- 4) Installing AMARRA Software
- 5) Launching/Using AMARRA
- 6) Using AMARRA and iTunes
- 7) Registering Your AMARRA Software
- 8) Troubleshooting Guide
- 9) Support.
- 10) Warranty / Certificate of Ownership

The Amarra installer will install the following items on to your Macintosh Computer:

- AMARRA Computer Music Player
- AMARRA iTunes Plugin
- AMARRA Fonts
- PACE iLok extension
- AMARRA Documentation

To install software for Model Three and Model Four hardware, please read the AMARRA Hardware Installer Guide.

1- AMARRA Package Contents

AMARRA Install Disk
AMARRA Getting Started Document
PACE iLok
High Resolution Audio Sampler

2- AMARRA System Requirements

Computer:

- Any Intel based (or G5 2.6 Ghz or above) Mac with 10.4.11 or 10.5.5
- RAM: 3 GB RAM minimum
- Firewire port
- USB port for iLOK security key.

Peripheral FireWire Adaptors supported:

- OHCI compliant PCCard, PCI card, ExpressCard or PCIe card

Software:

- Mac OS X 10.4.11 or 10.5.5 and above recommended
- Amarra
- iTunes

We also highly recommend a fresh install of the operating on a clean disc. This can prevent problems later on.

We also highly recommend that your computer be used exclusively for music playback. Email, web browsers, screen sharing and other applications can all effect performance.

Note that USB hubs, audio or optical disc peripherals are generally not supported.

3- Introduction to PACE iLok Security Key

AMARRA is protected with PACE's Anti-Piracy InterLok copy protection. Your iLok should come ready to use and you should only need to install the iLOK extension on your computer. There may be occasions when you need to setup an iLOK for new options or for replacement. Please ask your dealer for more information.

PACE InterLok (iLok):



PACE iLok (Yours may be a different color)

Your AMARRA license is authorized with an iLok USB Smart Key.

NOTE: Protect this device! This is really your AMARRA product and if lost or stolen, can not be replaced without purchasing another AMARRA license.

PACE offers a warranty for replacing lost or stolen iLoks called 'Zero Downtime'. The iLok.com Zero Downtime program enables iLok owners to immediately replace licenses in case an iLok is broken, lost or stolen. Benefits of covering an iLok include:

- Immediate replacement of licenses in the event of disaster
- Priority support during replacement event
- Peace of mind

Contact your dealer, Sonic Studio, or log in to your iLok account for more information on Zero

Downtime.

Replacement / New iLOK

If your iLok is new and needs to be authorized. Please request authorization from Sonic Studio for your iLok USB Smart Key, visit:

<http://www.sonicstudio.com/register>

Completing the form will generate an authorization request. We will then place a license for AMARRA in your iLok account. Please fill out the form completely to avoid delay in authorization

4- Installing AMARRA Software

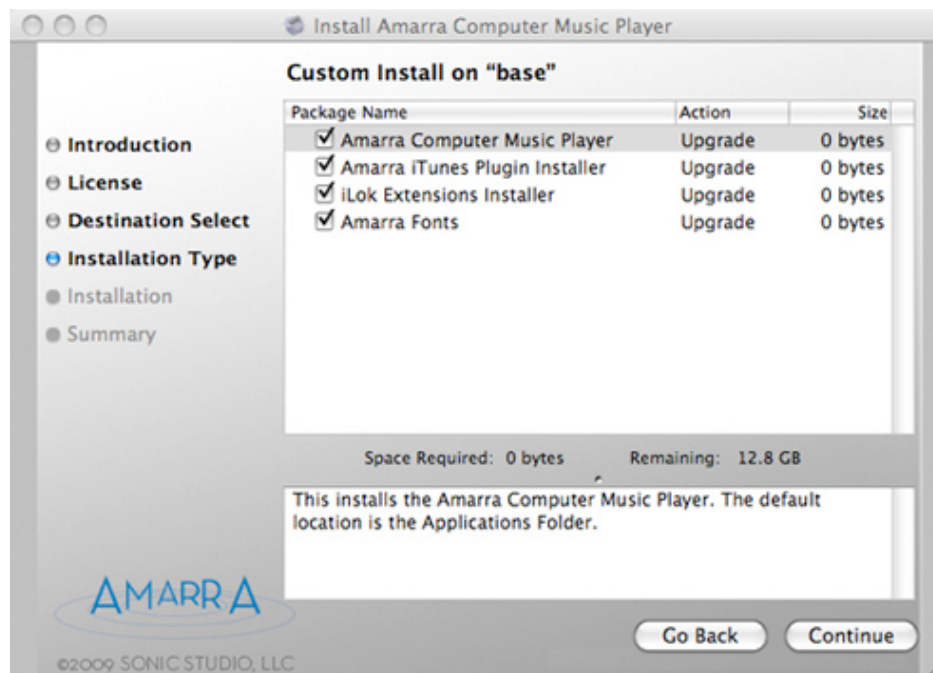
To install AMARRA, insert the install disk in your computer then click on the Amarra_Installer icon. Follow the on screen instructions to install your software.

Welcome screen for AMARRA Installer



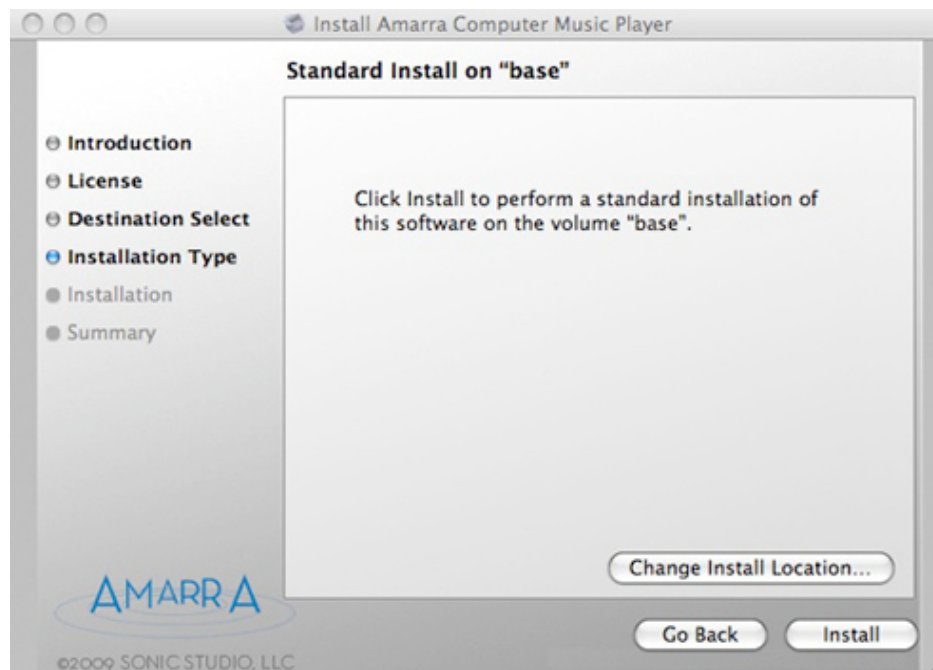
Select Continue.

Installer Table of Contents

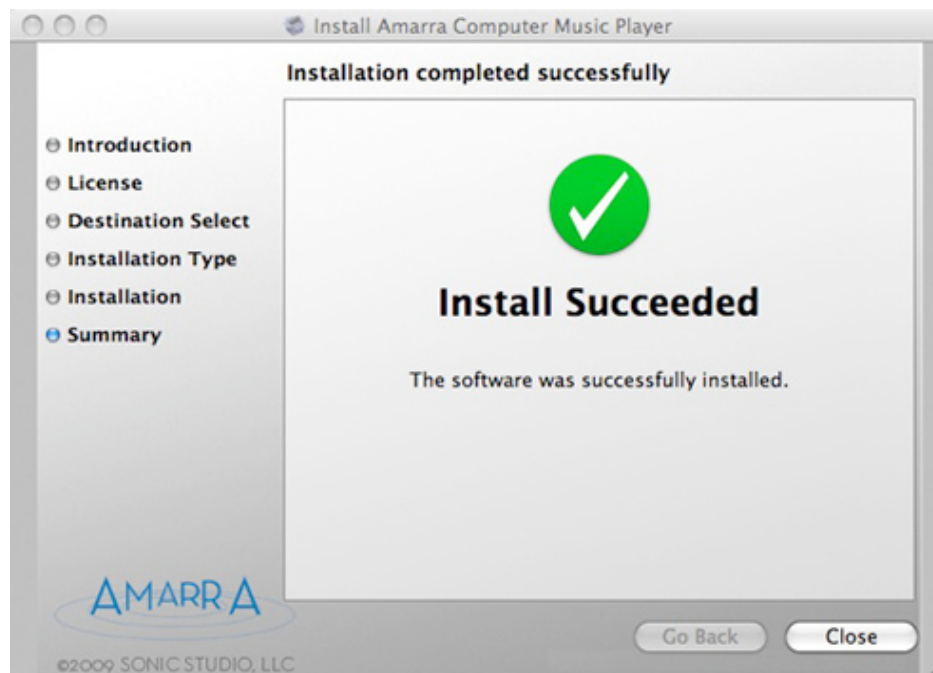


Select Continue

- AMARRA Computer Music Player is installed into the Applications folder.
It is installed here: ~/Applications/Amarra
- The AMARRA iTunes Plugin facilitates the interaction between AMARRA and iTunes.
It is installed here: ~/Library/iTunes/iTunes Plug-ins/
- The iLok Extensions are required to use the iLok USB Security key.
The iLok extension is installed on your boot volume.
- AMARRA Fonts installs fonts specific to the AMARRA User Interface.
They are installed here: ~/Library/Fonts/



Click Install.



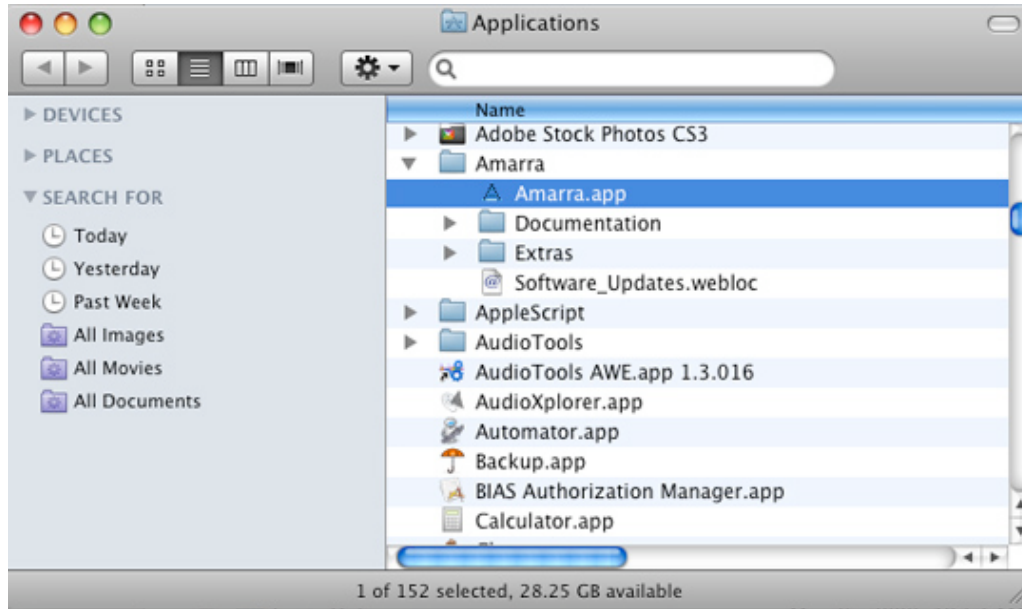
Success!

Select the Close button to quit the AMARRA installer.

5- Launching and Using AMARRA

Open the Applications folder on your Mac, locate the AMARRA folder.
This folder contains the AMARRA application as well as documentation and an Extras folder.

Click on the arrow to the left to open the folder:



Example applications folder showing the AMARRA folder and the AMARRA application.

 NOTE: Double clicking on the AMARRA icon launches AMARRA and iTunes.



On/Off

This turns on AMARRA, or when unlit indicates iTunes is being used.

Sound File Information

Shows the format, sample rate, and bit resolution of the current Track.

Device Information

Displays the current Audio device, Clock Source, and Hardware Sample Rate.

Transport Controls

Here you will find the Previous Track, Play/Pause, and Next Track buttons. The same controls are in iTunes and can be used too.

Meters and Volume

These show meters and volume control for AMARRA. The buttons are hot spots for 0, -6, and -144 dB.

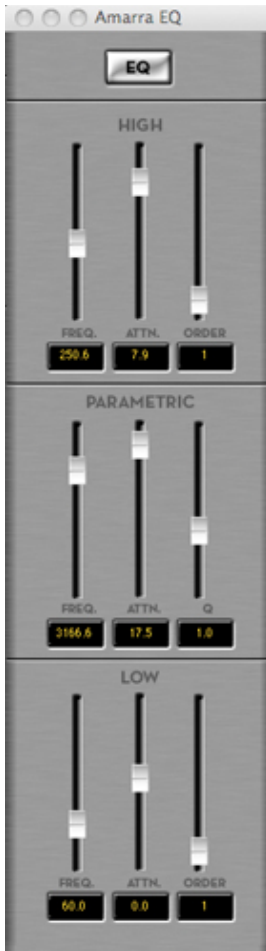
NOTE: Meters do not show activity when playing lo-res files from iTunes

AMARRA EQ

This buttons brings up the AMARRA EQ window.

AMARRA EQ

Clicking on the AMARRA EQ brings up the Amarra EQ Window.



EQ

This turns on AMARRA EQ, or when unlit indicates the EQ is not being used.

HIGH SHELF

The high shelf is a three parameter filter, with Resonant Frequency, gain, and order. The order dictates the steepness of the transition. The 4th order response is practically vertical in the transition region.

PARAMETRIC

The parametric filter is a classic, three parameter version, with Resonant Frequency, gain, Quality Factor. The Quality Factor, or Q, 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.

LOW SHELF

The low shelf filter is also a three parameter filter, with Resonant Frequency, gain, and order. The order dictates the steepness of the transition. The 4th order response is practically vertical in the transition region.

A HINT: Install a shortcut for Amarra on your Dock.

- Locate the Amarra.app icon.
- Click once and hold the icon then drag to the dock.
- The Dock for your system will appear.
- Place (drop) the Amarra icon and release on the dock.
- You can move its location within Dock later.

For more information about the Dock, see the Help menu of your Mac.

6- Using AMARRA and iTunes

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 iTunes Playlists.

As shown below, AMARRA occupies the area to the left of your iTunes window:



AMARRA and iTunes side by side.

You use iTunes like you always have, select the songs / playlists and play. AMARRA follows what you do in iTunes and takes over playback whenever a full resolution uncompressed AIFF or WAV file ranging from 44.1-192 kHz sample rate (16-24 bits) is played. Amarra seamlessly switches to iTunes for playing back low-resolution compressed files such as MP3 or AAC type, then back again once a high resolution file is detected.

To create custom playlists for high resolution music, follow the Help menu instructions in iTunes.



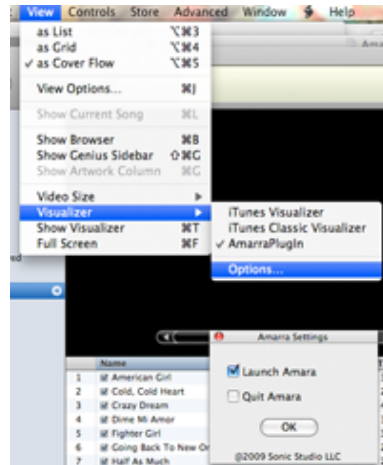
NOTE:

AMARRA only plays uncompressed PCM audio files (i.e AIFF, and WAV).
AMARRA does not support Apple lossless, FLAC, or any other compression.
These will be supported in a future release.



NOTE:

When you launch iTunes Amarra will automatically launch. Likewise, when iTunes quits AMARRA will be shutdown. In iTunes under Visual Plugin there is a Options menu command which can be used to disable the auto launch / quit feature.



7- 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. This will ensure the best possible support for your purchase.

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.

Please register your AMARRA software using our automated registration Web page at:

<http://www.sonicstudio.com/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
Phone: +1-415-460-1201
Fax 1-775-330-8923

8- Troubleshooting Guide

If an issue with AMARRA arises, sometimes the quickest way to get back to listening is to quit AMARRA and iTunes then restart AMARRA.

Issue: AMARRA can not find iLOK.



AMARRA does not find an iLok, or finds an iLok without a valid AMARRA license.

Solution:

- Insert an iLok with a valid AMARRA license on it.
- Make sure the iLok extensions for AMARRA are installed.
- Please read the How To Install AMARRA Software section for more information.

Issue: Amarra does not play audio.

Solution:

- Quit AMARRA and iTunes and restart AMARRA.
- NOTE: Sound files with names that contain ":" or other foreign characters may not play properly.
Changing the name of the soundfile can fix this.

Issue: Sample Rate Does Not Change With Soundfile.
Sample Rate causes AMARRA to not play audio

Solution:

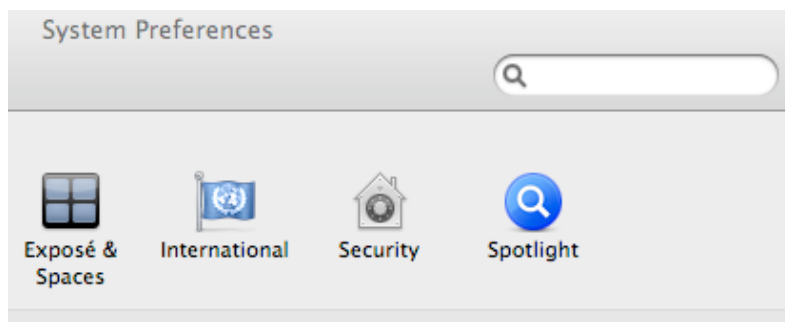
- Quit AMARRA and iTunes and restart AMARRA.

Issue: Audio Clicking or Ticking Sound.

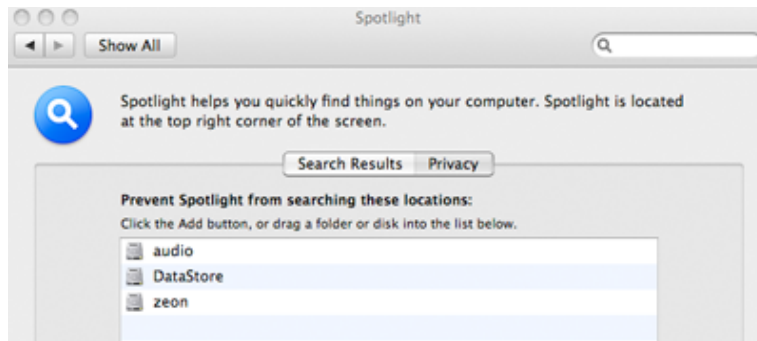
Solution:

- Disable Spotlight (add volumes to the Spotlight Privacy Preference)

1) Open System Preferences and locate the Spotlight Preference



2) Select the Privacy Tab and add all your media drives



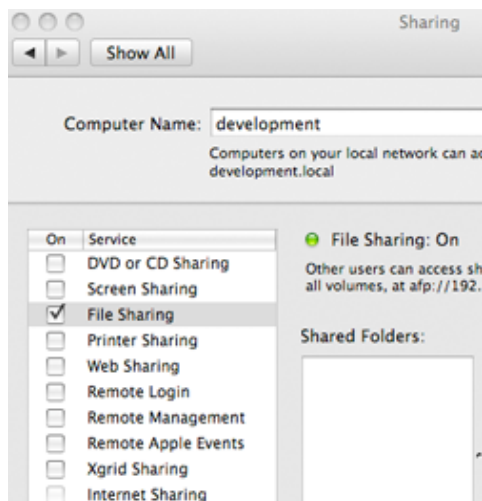
Solution:

- Disable Network Shared Access.

1) Open System Preferences and locate the Sharing Preference

2) Disable Web Sharing, Remote Login and Remote Management.

Please note for support the Remote Management preference may be required.



Solution:

- Disconnect multiple FireWire devices and reduce daisy-chained connections.

Solution:

- Shut down other applications such as email and browsers.

Solution:

- Increase the amount of RAM in your computer.

For more information on AMARRA, see the Help menu in the AMARRA menu bar.

9- Support

We are committed to your successful use of Amarra and offer support for AMARRA through

your local dealer or via phone and email through Sonic Studio. Please also ask your local dealer for assistance. They have a great deal of knowledge about AMARRA and are an excellent resource.

For phone support, contact Sonic Studio at:
+1-415-460-1201 9 AM - 4 PM U.S. Pacific time

For email support, send email to: support@sonicstudio.com

You can always find the latest information and updates for AMARRA at the Sonic Studio website:

<http://www.sonicstudio.com>

10- Warranty

AMARRA is covered by a End User License Agreement..
The details of this agreement are described in the AMARRA installer.