

# Echo Digital Audio Corporation

AudioFire 2

AudioFire 4

AudioFire 8

AudioFire 12

Release 4.2 for Mac OS X

<b>DISCLAIMER .....</b>	<b>2</b>
<b>RELEASE INFORMATION .....</b>	<b>2</b>
<b>SUPPORTED OPERATING SYSTEMS .....</b>	<b>2</b>
<b>CHANGES.....</b>	<b>3</b>
<b>KNOWN ISSUES.....</b>	<b>3</b>
<b>INSTALLATION .....</b>	<b>4</b>
<b>USING MULTIPLE AUDIOFIRES.....</b>	<b>5</b>
<i>Connecting to your computer .....</i>	<i>5</i>
<i>Clocking.....</i>	<i>5</i>
<i>Naming convention.....</i>	<i>5</i>
<i>Using the console.....</i>	<i>5</i>
<b>VERSION HISTORY .....</b>	<b>6</b>

## **Disclaimer**

Please be aware that these drivers are used at your own risk; Echo Digital Audio Corporation is not responsible for any damage or loss incurred by the use of these drivers.

## **Release Information**

This release of the console and firmware provides several fixes and improvements for all AudioFire products.

The console is a universal binary.

## **Supported Operating Systems**

This release only supports OS X 10.3.9 or greater. We recommend that users of OS X 10.4 update to the latest version from Apple.

## Changes

- The firmware has been extensively optimized, with particular attention paid to AudioFire 12.
- Fixed a problem with AudioFire 2 and 4 restoring the settings for the +/-10 buttons.

## Known issues

- MIDI port names always appear as "Plug 01"
- AudioFire 12 analog outputs may become muted when repeatedly changing between 176.4 and 192 kHz; this can be worked around by switching to a lower sample rate and then back again.

## Installation

1. Simply copy the AudioFire Console to your applications folder or a convenient place on your hard drive.
2. The first time you run the console it will check the firmware version in your AudioFire.
3. If your firmware needs to be updated, select “Yes” and your firmware will be updated.
4. Reboot your AudioFire.
5. Open the console and click to the “Settings Tab”. Under “Version information”, Console, DSP firmware and ARM firmware should read 4.2.

## Using Multiple AudioFires

The AudioFire console offers a lot of flexibility in the way multiple AudioFires can be configured. But, there are some rules that must be followed in order for your AudioFires to work together. These are instructions and guidelines for using multiple AudioFires together.

### Connecting to your computer

You can connect multiple AudioFires to your computer by daisy chaining FireWire cables (connecting one AudioFire to the next) or by connecting each AudioFire to a different FireWire connector on your computer. AudioFire12's and AudioFire8's can be mixed in any order and the clock master can be anywhere in the chain. When using an AudioFire12 and an AudioFire8 at the same time, 192kHz will not be supported.

### Clocking

When using multiple AudioFires, they MUST BE clock synced together. Using a BNC word clock cable or a S/PDIF cable, connect from the out to the in of the next AudioFire. In this manner, each AudioFire must be daisy chained. The first AudioFire in the chain is the clock master, the rest are clock slaves. On the "Settings" tab of the AudioFire Console you must set each AudioFire to the correct clock settings. The clock master should be set to "Internal" clock and the slaves should be set to "Word" clock or "S/PDIF" clock. If these settings are changed while audio is running, sync will be lost and your AudioFires will stop working until they are re-synced and the audio is restarted.

### Naming convention

Each AudioFire is given a unique name based on its serial number. You'll see this unique name in the console, Audio Control Panel, Audio MIDI Setup and in your audio application.

### Using the console

With multiple AudioFires, multiple console windows will open when you open the console. Each console will be identified by the AudioFire's unique name. If one console window is closed, all windows will have to be closed and re-opened in order to restore it.

# Version history

## 4.2

- The firmware has been extensively optimized, with particular attention paid to AudioFire 12.
- Fixed a problem with AudioFire 2 and 4 restoring the settings for the +/-10 buttons.

## 3.1.1

- Firmware update to correct a problem with playback on AudioFire 8 and 12.

## 3.1

- Phantom power for the AudioFire 4 is now saved and restored with console sessions.
- Firmware fixes for improved Mac OS X support.
- Firmware tweak for AudioFire 12 to improve playback at 176.4 and 192 kHz.

## 3.0.5

- Console hardware identification - when you select the console window, an LED blinks on the corresponding AudioFire device. This is useful when you have multiple AudioFire units attached. (AudioFire 8 and 12 only).
- The LEDs now blink on startup (AudioFire 8 and 12).
- The meters on the console are more accurate.
- The console now automatically detects when AudioFire devices are connected or disconnected and displays or hides the console windows accordingly.
- Word clock now works at 32 kHz.
- Fixed a bug with the console remembering which output tab was previously selected.
- Fixed a bug in the console where the session file name extension could be set incorrectly.
- Fixed a firmware bug with handling command packets from the computer.
- Fixed a firmware bug with handling FireWire bus resets.
- Better support for Mac OS X's FireWire audio driver.
- Fixed a firmware bug with AudioFire 2 and AudioFire 4 with restoring mixer settings from flash memory.

## 2.0.6

- Fixed a bug that could cause MIDI data to be lost.
- 192kHz is now supported on AudioFire12
- Nominal level settings have been added
- Flash update shows version number
- Console fonts show up correctly in 10.3.9
- Support for multiple AudioFires.
- Native support for Intel Macintosh.
- Firmware update is build into the console.
- Support for 32kHz
- AudioFire12 meter time delay.

- AudioFire12 input clipping on positive phase problem.
- Occasional loss of MIDI data is corrected.

## **2.0.2**

- Initial beta release