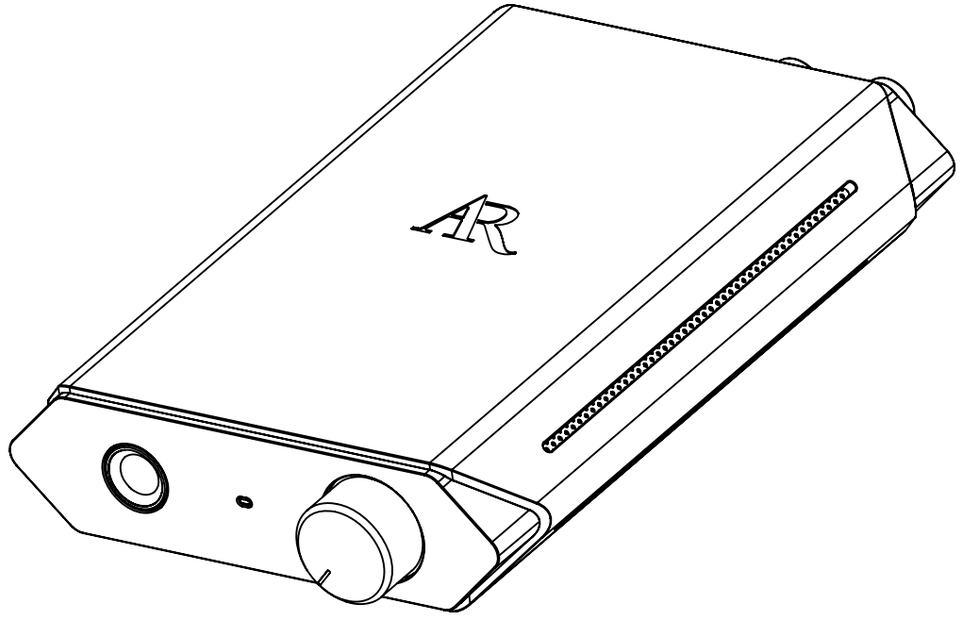
user **manual**

Acoustic Research UA1



It is important to read this user manual prior to using your nre product for the first time

Getting Started

Dear Acoustic Research customer

Thank you for purchasing the Acoustic Research UA1 High Fidelity HD USB DAC with headphone amplifier. This product will enable genuine high definition music playback with high fidelity on your Windows or Mac computer system. You can also manage your music contents on your computer with the JRiver Media Center included with this product.

To start using your High Fidelity HD USB DAC with headphone amplifier, please follow the setup instructions in the following pages.

1. Content of the box

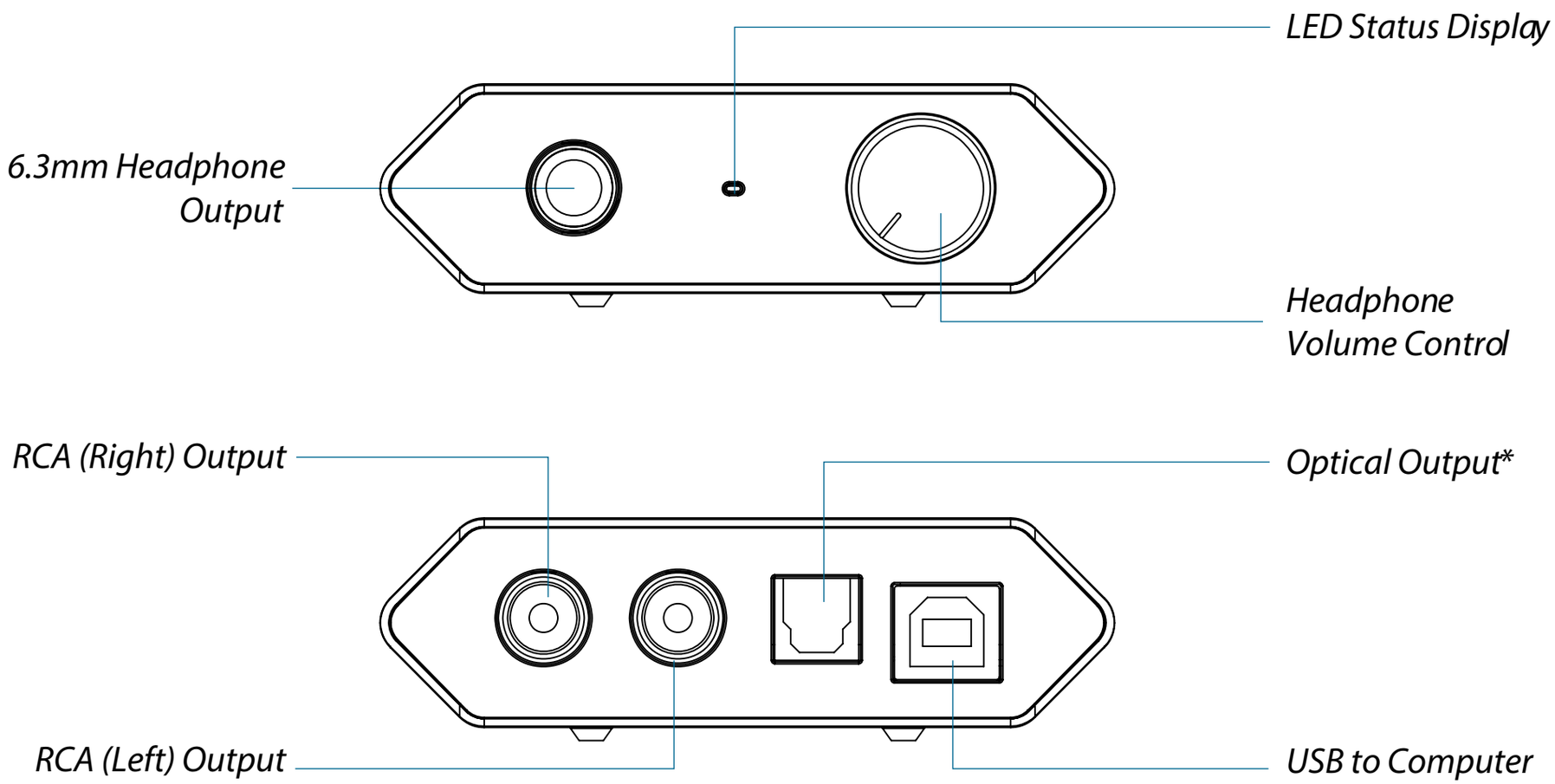
• UA1 High Fidelity HD USB DAC with headphone amplifier
• USB cable
• Software CD (Acoustic Research UA1 Installation CD)
• Quick Start Guide

2. System requirements

Windows Operating Requirements
• Intel Core i3 or better
• Windows 7 or Windows 8 (32-bit or 64-bit)
• An available USB 2.0 port
• Internet Connection

Mac Operating Requirements
• Mac with Intel processor
• Mac OS X 10.6.8 (Snow Leopard) or above (10.9 or above required for integer mode playback)
• An available USB 2.0 port
• Internet Connection

3. General controls



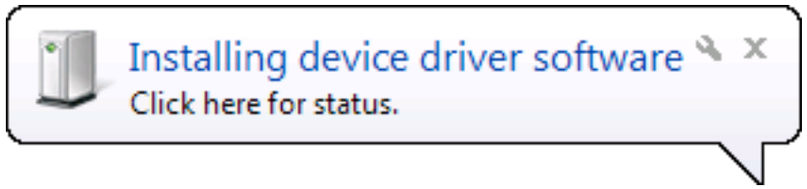
* Optical output supports up to 96 kHz

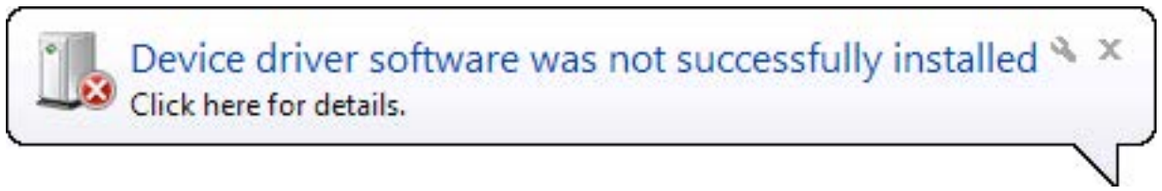
LED Status Display

White	44.1kHz	Blue	88.2 kHz	Red	176.4 kHz
Cyan	48 kHz	Purple	96 kHz	Yellow	192 kHz

4. Driver installation for Windows 7 or Windows 8 (32-bit or 64-bit)

1. Connect the High Fidelity HD USB DAC with headphone amplifier to an available USB 2.0/3.0 port with supplied USB cable
The following installation message and error message will appear on screen. These is the normal behavior during the installation process.

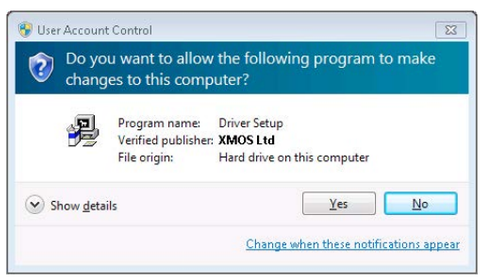




2A. Installation through CD
- Insert Acoustic Research UA1 Installation CD into CD/DVD/BD Drive
- Browse CD content with Windows Explorer
- Double-click the folder ***Windows*** to browse the content
- Run ***XMOS-Stereo-USB-Audio-Class2-Driver-300C(v2.19.0).exe***

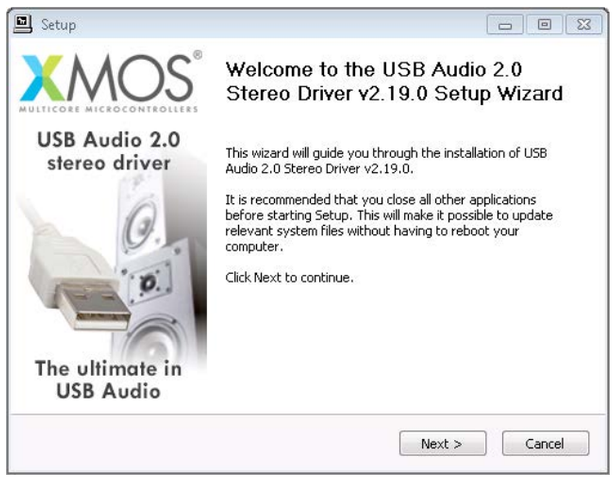
2B. Installation through Internet Download
- Visit Acoustic Research web site ***http://www.acoustic-research.com***
- Enter ***UA1*** in the search bar to find the UA1 product information
- Under the product information, click ***Downloads***
- Click ***Driver for Windows 7/Windows 8 (32-bit or 64-bit)*** to download the driver
- Run the downloaded driver

3. After running the installation program, you will see the ***User Account Control***
Click ***Yes*** to continue the installation process

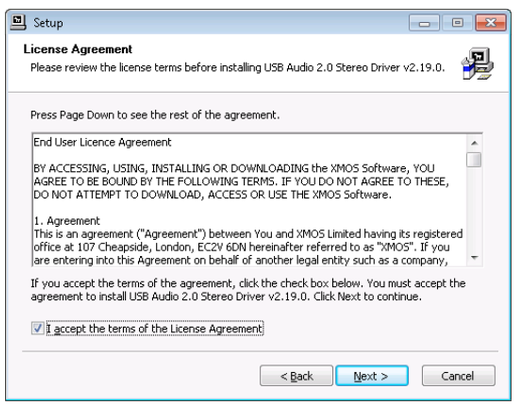


4. Click ***Next***

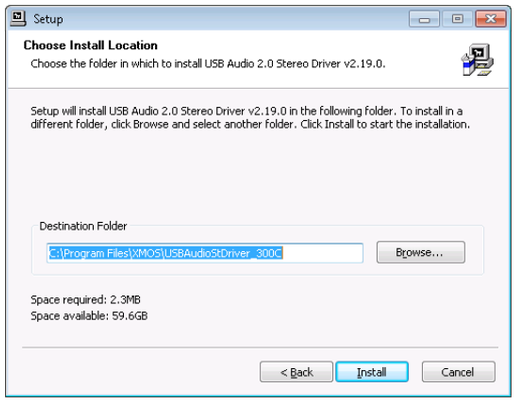
5. The installation program will detect the existence of the USB sound module. Click ***Next***. If the program fails to detect the hardware



6. The license agreement will appear. Please read through the content carefully. To continue, please ***check "I accept..."*** and click ***Next***



7. Choose the installation path if you would like to change it. Click ***Install*** to continue



8. Click ***Finish*** to complete the installation

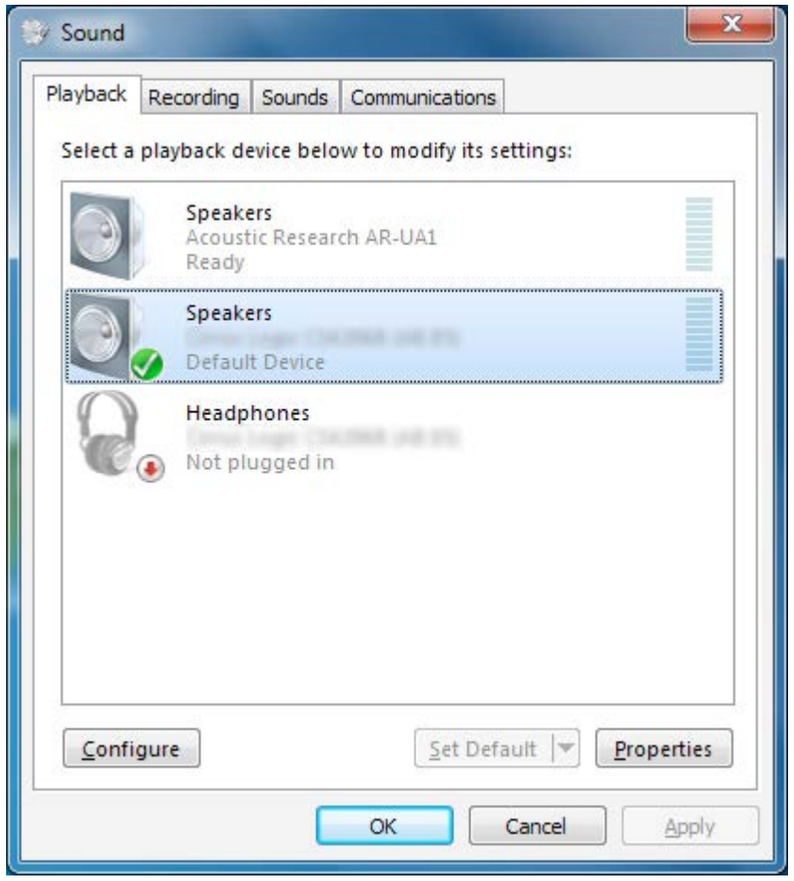
5. Driver Installation for Mac OS X 10.6.8 or above

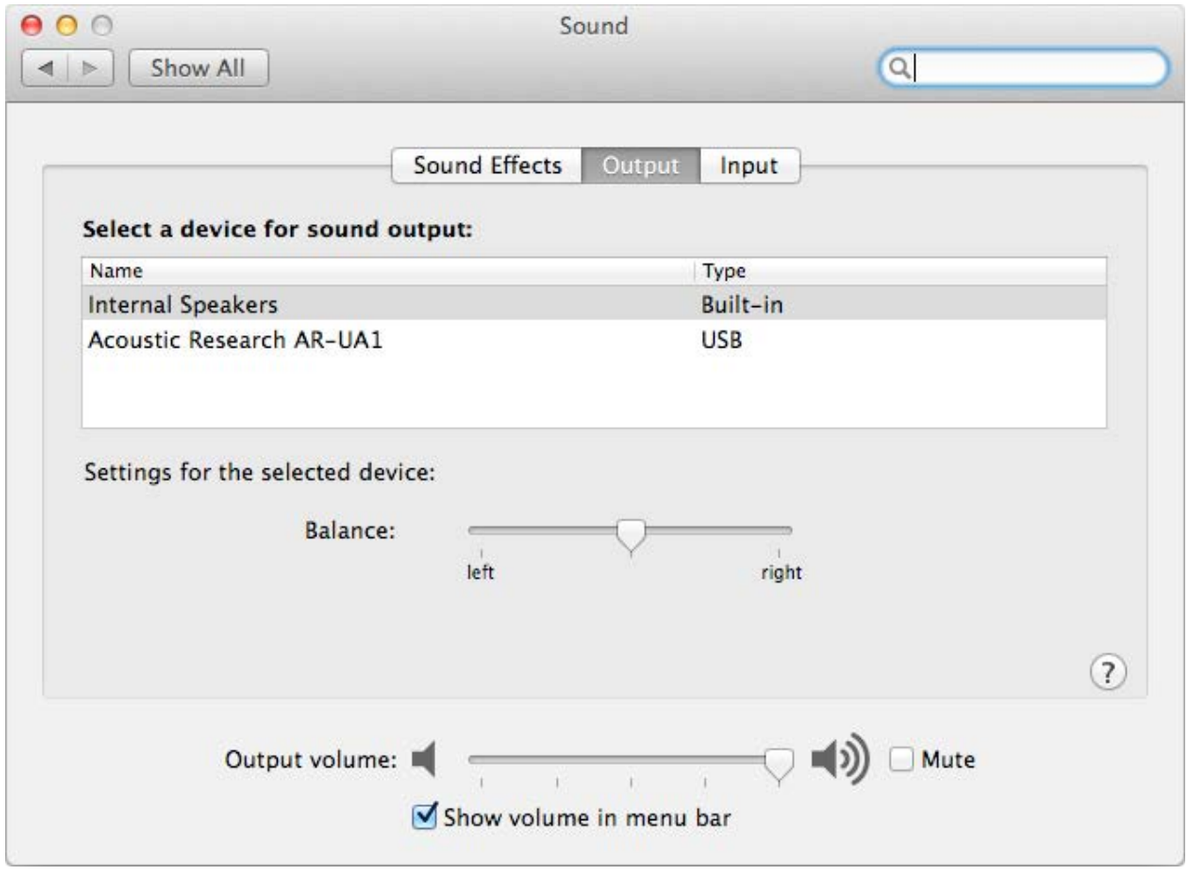
1. Connect the High Fidelity HD USB DAC with headphone amplifier to an available USB 2.0/3.0 port with supplied USB cable

2. Driver software for High Fidelity HD USB DAC with headphone amplifier has been built into the Mac OS X Operating System (10.6.8 or above). The Installation has completed.

6. Default audio device for Windows and Mac

By default, UA1 High Fidelity HD USB DAC with headphone amplifier is an auxiliary audio device in Windows. While music applications are typically set to output sound through the primary audio device, you will not hear any sound from the High Fidelity HD USB DAC with headphone amplifier. Please expect it as the normal behavior.





We recommend keeping UA1 as the auxiliary device the following reasons:
• Audiophile music software requires exclusive access to the audio device
• Sound notifications will still be available through system audio device when UA1 is occupied by audiophile music software

7 Software Installation and Configurations for Windows

• Installation through CD (CD/BD/DVD drive required)

1.Insert Acoustic Research UA1 Installation CD into CD/DVD/BD Drive
2.Browse CD content with Windows Explorer
3.Double-click the folder ***Windows*** to browse the content
4.Run ***MediaCenter190117.exe***
5.Follow instructions on screen to complete the installation

• Installation through internet download (Internet connection required)

1.Visit JRiver web site http://www.jriver.com/download.html
2.Download the latest Windows version of JRiver Media Center
3.Run the downloaded file
4.Follow instructions on screen to complete the installation

• Activating the software (Internet connection required)

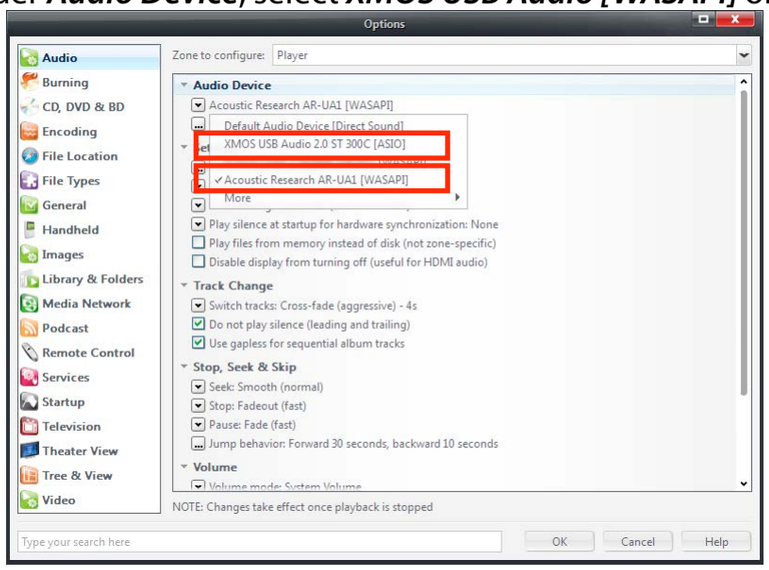
The required license key can be found on the envelope of the CD

• Configuring JRiver Media Center to utilize the USB audio module in Windows

1.Make sure UA1 is connected and driver has been installed. Run ***JRiver Media Center***

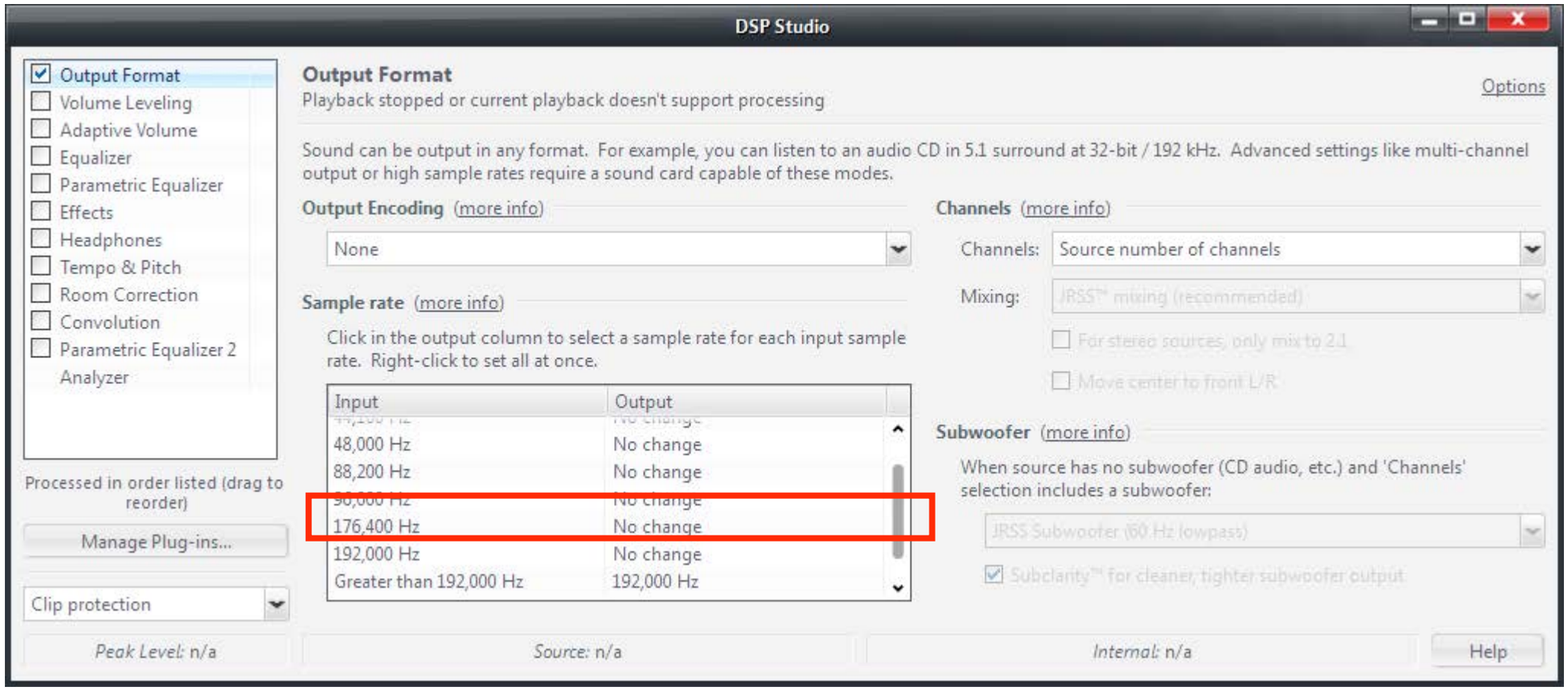
2.Click ***Tools*** and select ***Options...***

3.Under ***Audio Device***, select ***XMOS USB Audio [WASAPI]*** or ***XMOS USB Audio ST 300C [ASIO]***



4.Under ***Settings...***, click ***DSP & output format...***

5.In ***Output Format***, select ***192,000 Hz*** Output for Input ***Greater than 192,000 Hz***



6.Close the DSP Studio window and click **OK** to save the configurations

8 Software Installation and Configurations for Mac OS X

• Installation through CD (CD/BD/DVD drive required)

1.Insert Acoustic Research UA1 Installation CD into CD/DVD/BD Drive
2.Browse CD content with Finder
3.Double-click the folder Mac to browse the content
4.Double-click the file ***MediaCenter190118.dmg***
5.In Media Center 19 window, drag the ***Media Center 19*** icon to ***Applications*** folder to install the software

• Installation through internet download (Internet connection required)

1.Visit JRiver web site ***http://www.jriver.com/download.html***
2.Download the latest Mac version of JRiver Media Center
3.Run the downloaded file
4.In Media Center 19 window, drag the ***Media Center 19*** icon to ***Applications*** folder to install the software

• Activating the software (Internet connection required)

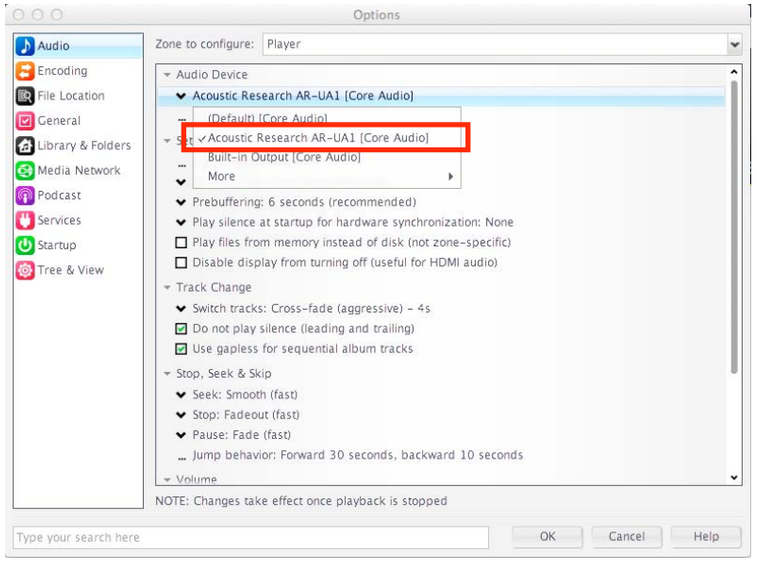
The required license key can be found on the envelope of the CD

• Configuring JRiver Media Center to utilize the USB audio module in Mac OS X

1.Make sure UA1 is connected and driver has been installed. Run ***JRiver Media Center***

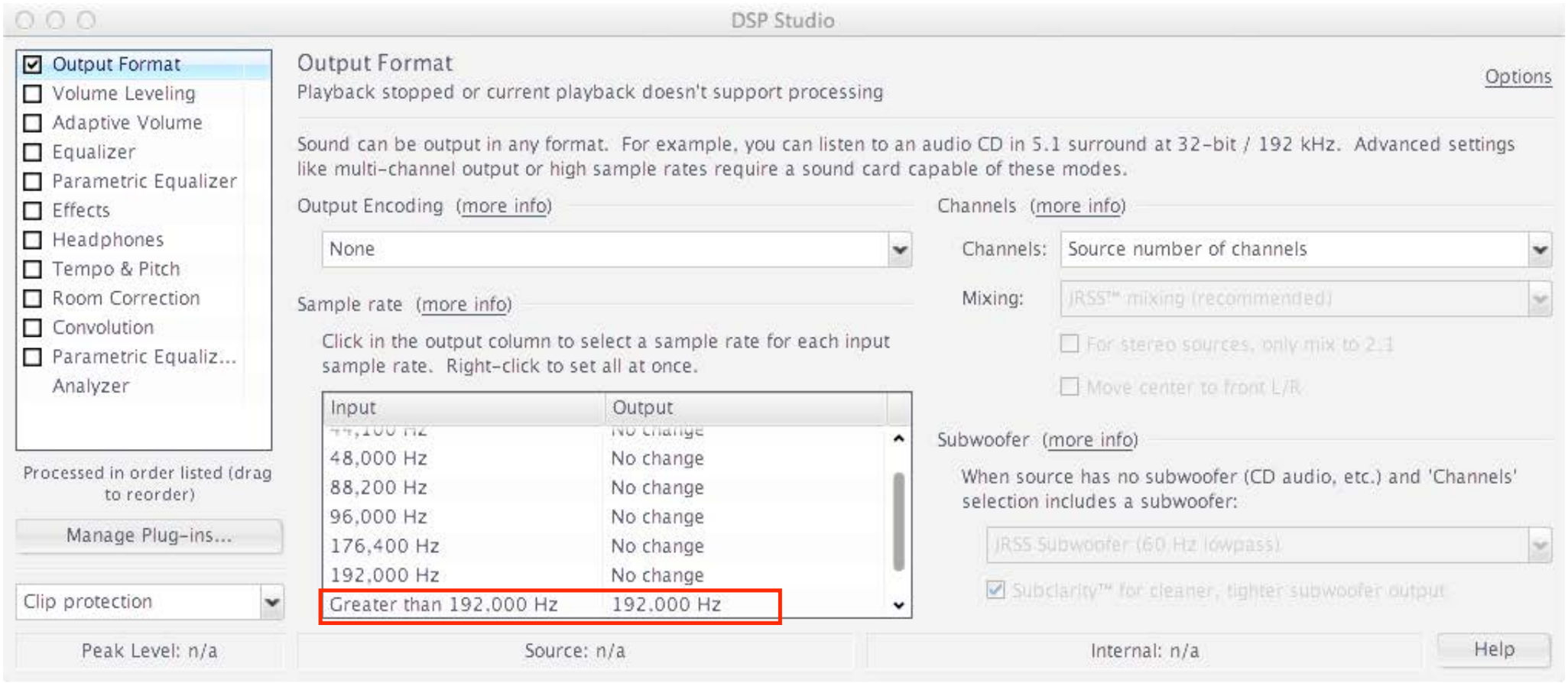
2.Click ***Tools*** and select ***Options...***

3.Under ***Audio Device***, select ***Acoustic Research AR-UA1 [Core Audio]***



4.Under ***Settings...***, click ***DSP & output format...***

5.In ***Output Format***, select ***192,000 Hz*** Output for Input ***Greater than 192,000 Hz***



6.Close the DSP Studio window and click ***OK*** to save the configurations

9. Technical Specifications

Product
• Acoustic Research UA1 High Fidelity HD USB DAC with headphone amplifier

Digital-to-Analogue Converter
• Burr-Brown PCM1794a

Current-Voltage Converter
• Dual Burr-Brown OPA2134

Headphone Amplifier
• Texas Instrument TPA6120A2

Input
• USB 2.0 (host powered)

USB Audio Specifications
• USB Audio Class 2.0 (Asynchronous mode)

Output
• Headphone Output (6.3 mm type)
• Gold Plated Brass Made RCA (Right)
• Gold Plated Brass Made RCA (Left)
• Optical (TOSLINK)

Supported Formats
• 44.1 kHz
• 48 kHz
• 88.2 kHz
• 96 kHz
• 176.4 kHz
• 192 kHz (Analogue output only)
• Higher than 192 kHz (Supported through high precision conversion in JRiver Media Center)
• DSD64/DSD128 (Supported through high precision conversion in JRiver Media Center)

Warranty information

For warranty information, please contact the local distributor. The contact information of the local distributors is available on ***http://www.acoustic-research.com***.