

USER MANUAL

# AUDIOFUSE

Advanced Audio Interface

**ARTURIA**<sup>®</sup>  
YOUR EXPERIENCE • YOUR SOUND

# Special Thanks

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**Product version: 1.0**

**Revision date: 24 February 2017**

# Thank you for purchasing the Arturia AudioFuse!

Dear musician,

AudioFuse is the revolutionary next-gen pro audio interface that sets a new standard in sonic quality, creative production and value. It fuses the superior sound of high-end analog studio consoles with the flexibility of a solid mobile interface—with all the connectivity you need for any recording or performance.



AudioFuse comes with very high quality audio pre-amplifier based on the DiscretePro technology.

AudioFuse connects you to a whole world of possibilities, gears and formats.

AudioFuse is a rock-solid foundation you can rely on to keep you in the creative flow in any situation.

# Important Safety Instructions

## PRECAUTIONS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

1. Read and understand all the instructions.
2. Always follow the instructions on the device.
3. Before cleaning the device, always remove the USB and DC cable. When cleaning, use a soft and dry cloth. Do not use gasoline, alcohol, acetone, turpentine or any other organic solutions; do not use a liquid cleaner, spray or cloth that's too wet.
4. Do not use the device near water or moisture, such as a bathtub, sink, swimming pool or similar place.
5. Do not place the device in an unstable position where it might accidentally fall over.
6. Do not place heavy objects on the device. Do not block openings or vents of the device; these locations are used for air circulation to prevent the device from overheating. Do not place the device near a heat vent at any location with poor air circulation.
7. Do not open or insert anything into the device that may cause a fire or electrical shock.
8. Do not spill any kind of liquid onto the device.
9. Always take the device to a qualified service center. You will invalidate your warranty if you open and remove the cover, and improper assembly may cause electrical shock or other malfunctions.
10. Do not use the device with thunder and lightning present; it may cause electrical shock.
11. Do not expose the device to hot sunlight.
12. Do not use the device when there is a gas leak nearby.
13. Arturia is not responsible for any damage or data loss caused by improper operation of the device.

## **Specifications subject to change:**

The information contained in this manual is believed to be correct at the time of printing. However, Arturia reserves the right to change or modify any of the specifications without notice or obligation to update the hardware that has been purchased.

## **IMPORTANT:**

The product and its software, when used in combination with an amplifier, headphones or speakers, may be able to produce sound levels that could cause permanent hearing loss. DO NOT operate for long periods of time at a high level or at a level that is uncomfortable. If you encounter any hearing loss or ringing in the ears, you should consult an audiologist.

## **NOTICE:**

Service charges incurred due to a lack of knowledge relating to how a function or feature works (when the product is operating as designed) are not covered by the manufacturer's warranty, and are therefore the owner's responsibility. Please study this manual carefully and consult your dealer before requesting service.

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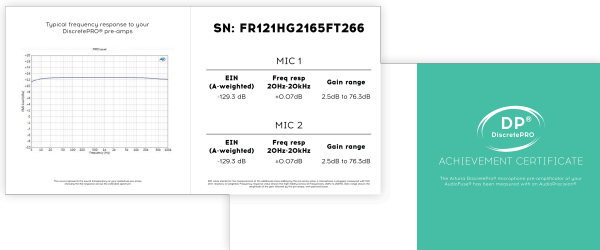
# 1. OVERVIEW

## Box Content

- AudioFuse
- Power Supply + worldwide adaptors
- Double USB cable
- 2x MIDI Adaptors
- User Manual
- Registration card with Serial and Unlock Code
- DiscretePro® certificate

## DiscretePRO® certificate

Your AudioFuse comes with 2 pre-amplifiers using the DiscretePRO® technology to ensure the best audio quality when recording. Your AudioFuse is unique and therefore it comes with its own Audio Precision certificate as a guarantee of its performance.



DP Certificate

A version with more details is available after registration on [www.arturia.com/register](http://www.arturia.com/register)

## Register your AudioFuse

To get access to the AudioFuse Software and support register your product on [www.arturia.com/register](http://www.arturia.com/register) with your registration card.



**Important:** Go to [www.arturia.com/audiosfuse-start](http://www.arturia.com/audiosfuse-start) to register your product, check for the latest firmware, download the user guide and the AudioFuse Control Center software (AFCC).

You will need the plastic registration card with Serial Number and Unlock Code for your product.



**AUDIOFUSE**  
Advanced Audio Interface

CONNECT

**ARTURIA**  
YOUR EXPERIENCE-YOUR SOUND

**Serial Number:**

XXXX-XXXX-XXXX-XXXX-XXXX

**Unlock Code:**

XXXX-XXXX

This card entitles you to a full ownership of the AudioFuse. Keep it preciously. To register your product, go on [www.arturia.com/myarturia](http://www.arturia.com/myarturia)



## 2. HARDWARE FEATURES

### 2.1. Specifications

- 14 Input, 14 Output channels
- 4 analog inputs 2x Mic/Instrument/Line
- 2x Phono/Line
- 4 analog outputs
- 2 analog inserts
- ADAT In & Out
- SPDIF In & Out
- Word Clock In & Out
- MIDI In & Out
- 3-port USB hub
- 2 microphone preamps
- 24-bit latest generation AD/DA converters at up to 192kHz sampling rate.
- 2 phono RIAA preamps
- Talkback feature with a dedicated built-in microphone
- A/B speaker switching
- Direct monitoring
- Separate Master & Monitor mix channels
- USB interface with PC, Mac, iOS, Android & Linux compatibility
- Aluminum chassis, leather-covered top

<b>Line/Instrument inputs</b>	
Line Input Impedance	20k ohms symmetric, 10k ohms asymmetric
Instrument Input Impedance	1.1M ohms asymmetric
Frequency Response 20Hz/20kHz	< +/- 0.08dB
Instrument Max Input Level	+18dBu
Max Input Level	+24dBu

<b>Microphone Preamps</b>	
Input Impedance	4k ohms
Equivalent Input Noise (EIN) @ 72dB gain	<-129.3dBu (A-weighted)
Frequency Response 20Hz/20kHz	< +/- 0.08dB
Gain Range	3dB to 72dB

<b>Inserts</b>	
Output Impedance	<35 ohms
Input Impedance	10k ohms asymmetric
Max Output Level	+18dBu
Nominal Input Level	+18dBu

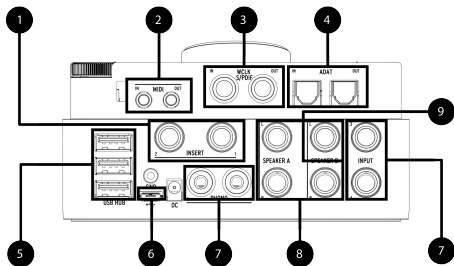
<b>Line Input to Digital</b>	
THD+N	-101dB (A-weighted)
Dynamic Range	106dB (A-weighted)

<b>Line Output</b>	
Output Impedance	<35 ohms
Max Output Level	+24dBu
Dynamic Range	119dB (A-weighted)
THD+N	-95dB (A-weighted)

<b>Clocks</b>	
Supported Frequency Rates	44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz

## 2.2. Getting to know your AudioFuse

### 2.2.1. Back View



- 1. Inserts:** Add external line level devices such as compressors into the signal flow before the digital conversion.
- 2. MIDI In/Out:** Connect any MIDI instrument or equipment.
- 3. WordClock & S/PDIF In/Out:** Sync to any Word Clock equipment or connect to any S/PDIF digital audio device.
- 4. ADAT In/Out:** Connect to any ADAT equipment with up to 8 digital inputs and 8 digital outputs.
- 5. USB hub:** 3-port USB hub to connect your master keyboard, USB stick or dongle.

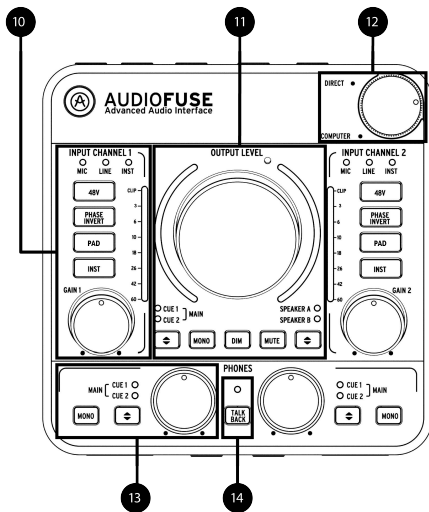
**6. USB connection:** Connect Audiofuse to your computer with the provided USB double cable **only**. Most features will be available even when only the USB power supplied by a computer. Power supply and specific adapters will be required to connect Audiofuse to tablets and phones.

**7. Phono/Line inputs 3&4:** Connect external phono or line devices to these RCA+ground and balanced 1/4" inputs.

**8. Speaker outputs A&B:** Connect two pairs of speakers to these balanced 1/4" outputs for easy A/B monitoring.

**9. Re-Amping Output:** This output can change impedance and allow you to send a recorded dry guitar or bass track back out to any amp for rerecording later.

## 2.2.2. Top View



**10. Input control sections 1&2:** Direct access to each feature of analog inputs 1&2: input gain with vu-metering, true 48V, phase invert, -20dB pad, "boost" option for MIC signals and instrument mode.

**11. Output control section:** Direct access to each of the analog output features: output level with vu-metering, audio mix selection, mono mode, output dimming, mute, and Speaker A/B selection.

**12. Direct monitoring:** Enjoy zero latency monitoring of the recorded signals and blend them into your mix.

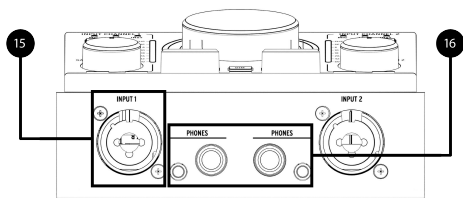
**13. Phones control sections 1&2:** Direct access to each of the features of Phones 1&2 outputs: output level, mono mode and audio mix selection.

**14. Talkback:** Press a button to give directions to your talent who is in a booth or another room: use the talkback feature with the built-in microphone.



Talkback only works on sample rates up to 96kHz.

### 2.2.3. Front View



**15. Input channels 1&2:** Connect microphones, instruments or line devices to the 2 XLR/ balanced 1/4" combo inputs.

**16. Phones output channels 1&2:** Don't bother looking for a 1/4" or 1/8" phones adapter; AudioFuse has both connectors for each phones output.



## 3. GETTING STARTED

### 3.1. Powering your AudioFuse

AudioFuse can be powered with the DC Connector and the power supply provided (18V, 1.66A).

You can also power up your AudioFuse directly with the USB cable, this will start the AudioFuse in Bus powered mode which will slightly reduce the maximum level to +18 dBu instead of +24 dBu. A special Low power mode is activated by software to reduce power consumption and extend your laptop ,computer or phone's battery life

	DC Powered	Bus Powered	Low Power
Number of Analog Input	4	4	0
Number of Analog Output	4	4	2
Max Input Level	+24dBu	+18dBu	-
Max Output Level	+24dBu	+18dB	+18dB
Phantom Power Voltage	+48V	+48V	-

The AudioFuse also powers the USB hub up to 1A per USB plug, and your phantom 48V powered microphones. USB hub functionality is disabled when AUDIOFUSE is only usb-powered.

We recommend to use DC powered for best performance, and save your laptop battery. It is also recommended to use phantom power only when powered on DC.

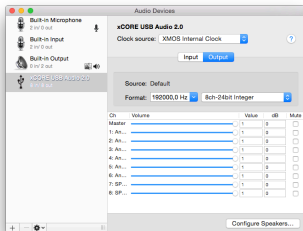
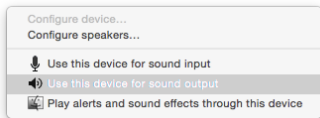
## 3.2. Setting your Operating System

### 3.2.1. Set up on Macintosh

Connect your AudioFuse to the USB Port, your AudioFuse simply show up in *Audio MIDI Setup* immediately.

To set it up as your default device:

- Select it in the Audio MIDI Settings left panel,
- Then select set as default output/input device.



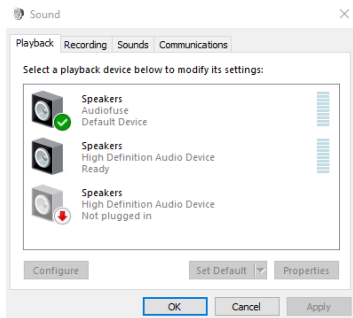
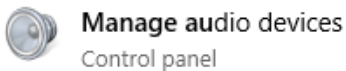
### 3.2.2. Set up on Windows

Low latency drivers on Windows are provided by Arturia and are automatically installed with the AudioFuse Control Center installer.

You can get it on [www.arturia.com/audiosfuse-start](http://www.arturia.com/audiosfuse-start).

Once this is installed, simply connect AudioFuse to the USB ports, using the provided double-USB cable, it will automatically appear in your audio devices.

Open "Manage Audio Device".



To set it up as your default playback (recording) device, in the playback (recording) tab select AudioFuse and click on *Set Default*.

### 3.2.3. Set up on Linux

AudioFuse is USB class compliant so it will be compatible with a Linux platform. It should work with ALSA, PulseAudio and Jack.

### 3.2.4. Set up on iPad/iPhone

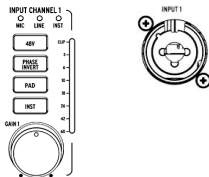
Connect AudioFuse to the DC adaptor (required) and to the iPad/iPhone through a camera connection kit. The device will appear in Settings > General > About > AudioFuse. For more info on the compatibility look on [www.arturia.com/audiosfuse-start](http://www.arturia.com/audiosfuse-start).

### 3.2.5. Set up on Android

Connect AudioFuse to the DC adaptor (required) and to the Android device through an On-The-Go cable (USB A female – USB B micro). Android 5+ is required. For more info on the compatibility look on [www.arturia.com/audiosfuse-start](http://www.arturia.com/audiosfuse-start).

## 3.3. Inputs and Outputs

### 3.3.1. Inputs 1 & 2



AudioFuse offers two real parallel preamplifiers for microphone and line/instrument inputs.

The input Channels 1 and 2 offer full control of mic preamp on the interface with

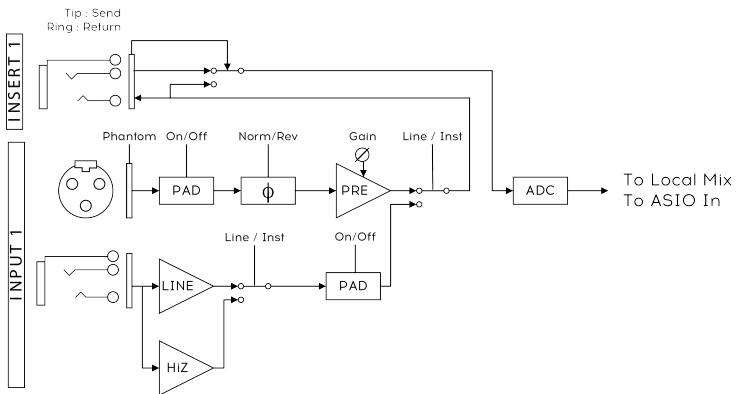
- **48V** : Phantom power activation
- **Phase invert** : Reverse signal polarity to use when recording with multiple microphones
- **PAD** : -20Db pad function for headroom. When a microphone is connected, pressing PAD switch one time will add a "boost" to your mic signal. Pressing it a second time will apply a -20db pad to your mic signal.
- **INST** : to switch from LINE to INST level and impedance.
- **GAIN** : +2 to +70dB DiscretePro® Preamplifier analog gain control knob.
- **-60dB to clip led meter with peak hold.**

The XLR/TRS Jack combi-connectors will auto-detect which connector is used.

If you use an XLR connector, the input type MIC is auto-selected. Otherwise the LINE/INST input is available and you can switch between those with the INST button.



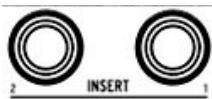
Note on Phantom Power: The phantom power is rated 14 mA per channel.



*Input channel 1&2 path*

### 3.3.2. Inserts 1 & 2

On the back of the AudioFuse you can find an insert section featuring 2 TRS Jack (tip=send, ring=receive). These can be used to insert your favourite processing unit before the converters and directly after the DiscretePRO® pre-amplifiers of inputs 1 & 2. When not used, these connectors do not need to be patched.



Insert are working at line level (+18 dBu for 0 dBFS)



**Tip :** You could also send line level input signal directly to the converters (and bypass the pre-amplifier) only by PARTIALLY plugging mono Jack cables into insert plugs, while any XLR or Jack cable is plugged into MIC INPUTS 1 or 2.

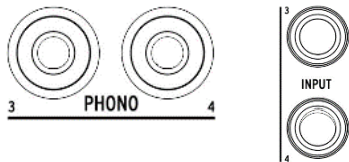
### 3.3.3. Inputs 3 & 4

AudioFuse also provides two additional line inputs and two phono inputs labelled 3 & 4. By default the line input 3 & 4 are selected.

A 20db pad can be activated in AudioFuse Control Center.

When using Line input, you can switch input 3 to "INST" mode in Audiofuse Control Center.

Phono inputs can be activated from the AudioFuse Control Center.



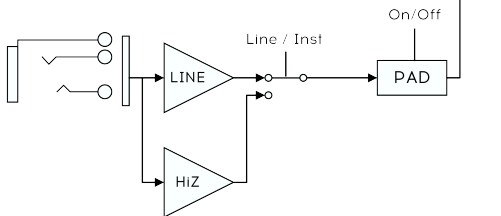
You cannot use the Line and Phono inputs simultaneously.



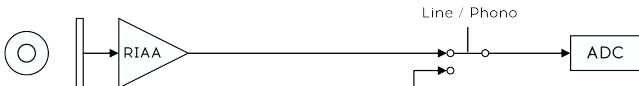
PHONO 3



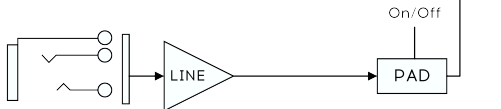
INPUT 3



PHONO 4



INPUT 4

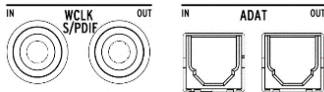


*Input channel 3&4 path*

### 3.3.4. Digital inputs

AudioFuse provides up to 8 digital inputs on S/PDIF or ADAT.

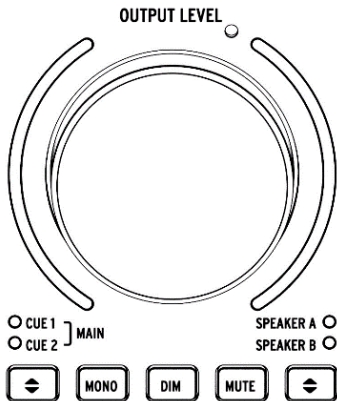
You can switch between ADAT and S/PDIF using the AudioFuse Control Center.



### 3.3.5. Main Output

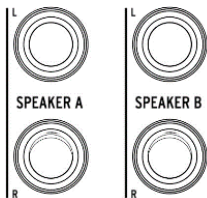
AudioFuse offers 4 stereo outputs : Phones 1 / Phones 2 / Speaker A / Speaker B

On each of these you can listen to Main, Cue 1 or Cue 2 buses, by using the selectors available on the interface.



The *Output Level* section also features various settings:

- **CUE** : selector to switch between output buses to listen.
- **MONO** : Mix stereo pair down to mono. Useful when you need to check your mix in mono
- **DIM** : reduce the output level. The amount of level reduction is available in AudioFuse Control Center.
- **Mute**
- **Speaker A/B** selector to switch between 2 sets of speakers.
- **OUTPUT LEVEL** : output level knob



A special feature allow to send phone 2 in the speaker B output. (Refer to phone outputs below). This function inhibit Speaker A/B function.

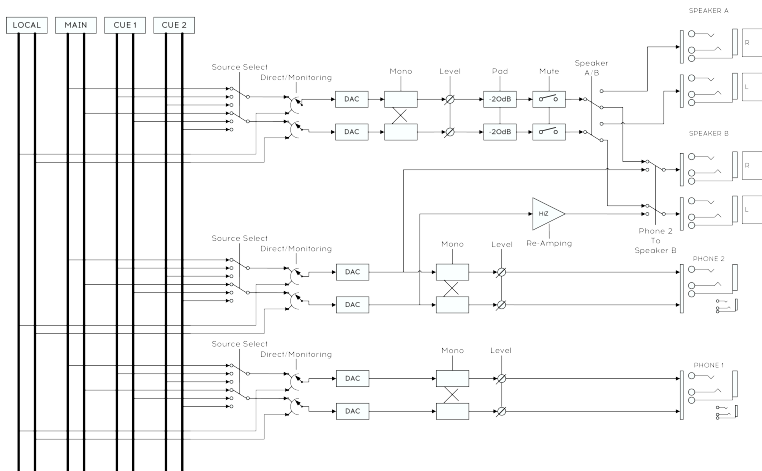
### 3.3.6. Phone Outputs

Phone output is similar to main output. You can select your source and mix down to mono.

Phone 2 output has a secondary function. You can send it to speaker B outputs. By activating the Phone 2 to Speaker B function in the AudioFuse control Center, you send the phone 2 signal to speaker B output.

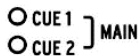
In this case, speaker A is automatically selected for speaker Output.

You can then use the Re-Amping Function on speaker B Left output. (Refer to Re-Amping below)

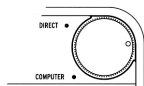


### 3.4. AudioFuse Mixer and Routing

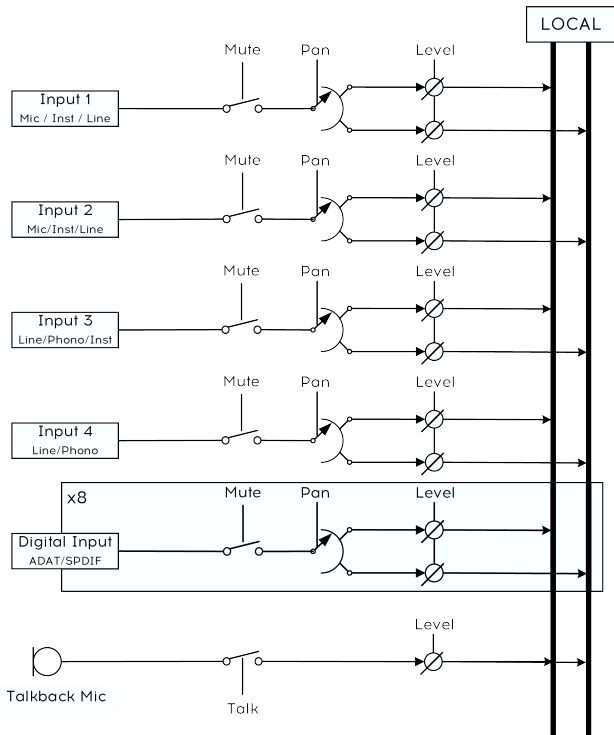
AudioFuse offers 3 output buses: main, Cue 1 and Cue 2 plus one internal mixer. These three output buses are available in your audio driver. Each output is sourced from any of these buses with a selector on the device, by pressing the button to switch between them.



To add direct monitoring to the selected bus, activate local monitoring on the output in the AudioFuse Control Center and turn the *Direct/Computer* mix knob to adjust the quantity of Direct versus Computer output.



The local monitoring bus mix is set in AudioFuse Control Center. You can add each physical input to the bus, adjust level and pan, select mute or solo or even link it by pairs.



### 3.5. USB Audio mapping

In your computer, you will find up to 14 in and 14 outputs

Input	Computer	Computer	Output
Input 1: MIC / LINE / INST	IN 1	OUT 1	MAIN L
Input 2: MIC / LINE / INST	IN 2	OUT 2	MAIN R
Input 3: LINE / PHONO / INST	IN 3	OUT 3	CUE 1 L
Input 4: LINE / PHONO	IN 4	OUT 4	CUE 1 R
Talkback MIC	IN 5	OUT 5	CUE 2 L
Talkback MIC	IN 6	OUT 6	CUE 2 R
ADAT 1 / SPDIF L	IN 7	OUT 7	ADAT 1 / SPDIF L
ADAT 2 / SPDIF R	IN 8	OUT 8	ADAT 2 / SPDIF R
ADAT 3	IN 9	OUT 9	ADAT 3
ADAT 4	IN 10	OUT 10	ADAT 4
ADAT 5	IN 11	OUT 11	ADAT 5
ADAT 6	IN 12	OUT 12	ADAT 6
ADAT 7	IN 13	OUT 13	ADAT 7
ADAT 8	IN 14	OUT 14	ADAT 8



## 3.6. Clock Synchronisation

The Audiofuse can run on its own internal clock or it can sync to external sources.

The internal clock in Audiofuse is extremely stable and will offer you the best performance in most situations. If you have the option to drive your peripheral gear from the Audiofuse clock, please do so.

To change sync sources open the Audiofuse Control Center software.

In the upper left side, under the SETTINGS header, you can see options for CLOCK SOURCE: INTERNAL or EXTERNAL. When set to EXTERNAL, your input sync options are:

- Word Clock - using the RCA inputs on the rear panel
- S/PDIF Coax - using the RCA inputs on the rear panel
- S/PDIF optical - using the ADAT IN optical connector
- ADAT - using the ADAT IN optical connector



96kHz is the maximum samples rate clock for ADAT. The internal clock of the AudioFuse can be set to 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 and 192 kHz from your DAW, your audio device settings, or in the AudioFuse Control Center.

When using Word Clock input, you might need to terminate the input. Open the PREFERENCES in the Audiofuse Control Center and select either NONE or 75 OHM as your option for the input.

To use Audiofuse as a master clock for other devices, set clock source as INTERNAL and use the settings in the DIGITAL OUT section to choose the type you want to send.

Your clock out options are:

- Word Clock
- S/PDIF
- ADAT

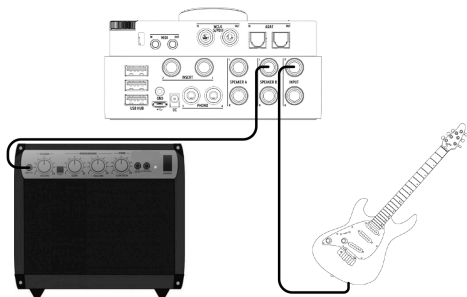
When external clock is chosen as master clock, internal clock must be set as the same or "multiple or divided" rate sample rate.

### 3.7. Re-Amping

AudioFuse has a great Re-Amping function. Re-Amping is also called reverse D-I and is used to play a direct guitar track in an amplifier. You can now re-record the amplified sound.

For this, you need a track with a direct guitar sound.

You activate the Re-Amping function in the AudioFuse Control Center, by pressing "FROM PHONE 2" switch and then "REAMPING" switch. You can also press "GROUND LIFT" switch if needed. See Audiofuse Control Center online manual for more details.



## 3.8. Talkback

The talkback is a simple mic built in the AudioFuse you can activate by pressing the *talkback* button.



Talkback only works on sample rates up to 96kHz.

Your voice will be transmitted on input 5&6 in your computer and can be mixed into the physical outputs Speaker, Phone 1 and Phone 2.

The level of the talkback and the selected outputs can be set in the AudioFuse Control Center.

## 3.9. MIDI Interface

MIDI In and MIDI Out ports are available at back of the AudioFuse. The Jack to DIN adapter is included in your package.

The MIDI ports are available in your computer once the AudioFuse drivers are installed.

## 3.10. The AudioFuse Control Center

The AudioFuse Control Center can be downloaded on [www.arturia.com/audiofuse-start](http://www.arturia.com/audiofuse-start).

This application will let you manage all the special functions that are not directly accessible on the AudioFuse device.



These include:

- Input 3 & 4 selection
- Change the Digital input setting
- Clock & Synchronization settings
- Update the firmware version
- Change the Monitor Mix

The software is compatible with Windows 7+ and Mac OSX 10.8+.

In order to use the software, you must connect the AudioFuse.

### 3.11. The AudioFuse switch

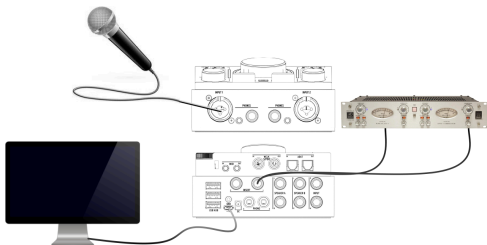
Pressing the Arturia switch will automatically wake up the AudioFuse Control Center on your computer.



## 4. HOW TO USE THE AUDIOFUSE

### 4.1. Using an external effect on inputs 1 and 2 with inserts

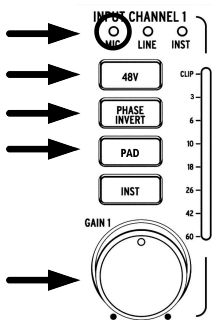
Record your mic and process it using an external processing unit before recording.



## 4.2. How to record a microphone

If you need to record microphones, simply use the inputs 1 or 2 on the front.

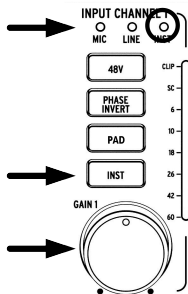
1. Connect your microphone with a XLR.
2. The AudioFuse will auto-detect that you are using a microphone input.
3. Set your phantom power (if needed) and your gain.



### 4.3. How to record a guitar or an instrument

If you need to record instruments like guitars and synths, simply use the inputs 1 or 2 on the front.

1. Connect your instrument with a TRS jack or a standard tip/sleeve jack.
2. The AudioFuse will auto-detect you are using either a line or instrument input, press the "Inst" button of the input section to light the "Inst" input mode.



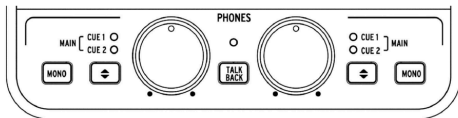
You can use Input 3 in the same way by setting it in the AudioFuse Control Center.



#### 4.4. Use one phone for Cue, and one for Main

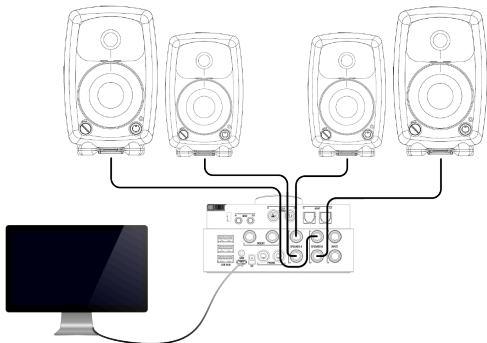
You can use 2 different sets of headphones and use each one to listen to a different mix.

Use the Main/Cue bus selector above the Headphone plug to set which mix you want to listen to;



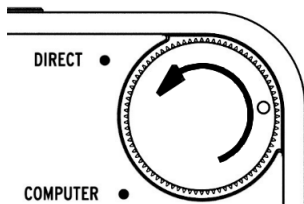
## 4.5. Use AudioFuse to switch between 2 sets of speakers

With the Speaker A/Speaker B function on the AudioFuse, you can easily switch the master output between 2 different sets of speakers. This will allow for quick monitor referencing to check your mix.



## 4.6. Use the AudioFuse without a computer

The AudioFuse can work standalone (without a computer), as a mixing unit.



To do this:

1. Connect your inputs on the analog inputs 1 to 4 and Digital inputs like ADAT.
2. Connect your outputs.
3. Connect the AudioFuse to the computer
4. In the AudioFuse Control Center set the mix you want for your output.
5. Set the Direct Monitor knob on the right of the AudioFuse to "Direct".

Now you can unplug the computer, this mix setup will work without it.

The settings are saved in AudioFuse Unit for next time!

### Technical information

More information can be found at [www.arturia.com/audiofuse-start](http://www.arturia.com/audiofuse-start).

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## 6. FCC INFORMATION

### USA

#### **Important notice: DO NOT MODIFY THE UNIT!**

This product, when installed as indicate in the instructions contained in this manual, meets FCC requirement. Modifications not expressly approved by Arturia may avoid your authority, granted by the FCC, to use the product.

**IMPORTANT:** When connecting this product to accessories and/or another product, use only high quality shielded cables. Cable (s) supplied with this product **MUST** be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.

*NOTE:* This product has been tested and found to comply with the limit for a Class B Digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide a reasonable protection against harmful interference in a residential environment. This equipment generate, use and radiate radio frequency energy and, if not installed and used according to the instructions found in the users manual, may cause interferences harmful to the operation to other electronic devices. Compliance with FCC regulations does not guarantee that interferences will not occur in all the installations. If this product is found to be the source of interferences, witch can be determined by turning the unit "OFF" and "ON", please try to eliminate the problem by using one of the following measures:

- Relocate either this product or the device that is affected by the interference.
- Use power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter(s).
- In the case of radio or TV interferences, relocate/ reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to coaxial cable.
- If these corrective measures do not bring any satisfied results, please the local retailer authorized to distribute this type of product. If you cannot locate the appropriate retailer, please contact Arturia.

The above statements apply **ONLY** to those products distributed in the USA.



## CANADA

*NOTICE:* This class B digital apparatus meets all the requirements of the Canadian Interference-Causing Equipment Regulation.

*AVIS:* Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

## EUROPE



This product complies with the requirements of European Directive 89/336/EEC

This product may not work correctly by the influence of electro-static discharge; if it happens, simply restart the product.