



# AudioConnect™ User Manual

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AUDIOCONNECT USER MANUAL  
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Rev 022820

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# Limited Warranty

LISTEN, Inc., a Massachusetts Corporation, having its principal place of business at 580 Harrison Ave, Suite 3W, Boston, MA 02118 ("Manufacturer") warrants its **AudioConnect** products (the "Products") as follows:

## 1. **Limited Warranty.**

Manufacturer warrants that the Products sold hereunder will be free from defects in material and workmanship for a period of one (1) year from the date of purchase. If the Products do not conform to this Limited Warranty during the warranty period (as herein above specified), Buyer shall notify Manufacturer in writing of the claimed defects and demonstrate to Manufacturer satisfaction that said defects are covered by this Limited Warranty. If the defects are properly reported to Manufacturer within the warranty period, and the defects are of such type and nature as to be covered by this warranty, Manufacturer shall, at its own expense, furnish, replacement Products or, at Manufacturer's option, replacement parts for the defective Products. Shipping of the replacement Products or replacement parts shall be at Buyer's expense.

## 2. **Other Limits.**

THE FOREGOING IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Manufacturer does not warrant against damages or defects arising out of improper or abnormal use of handling of the Products; against defects or damages arising from improper installation (where installation is by persons other than Manufacturer), against defects in products or components not manufactured by Manufacturer, or against damages resulting from such non-Manufacturer made products or components. Manufacturer passes on to Buyer the warranty it received (if any) from the maker thereof of such non-Manufacturer made products or components. This warranty also does not apply to Products upon which repairs have been effected or attempted by persons other than pursuant to written authorization by Manufacturer.

## 3. **Exclusive Obligation.**

THIS WARRANTY IS EXCLUSIVE. The sole and exclusive obligation of Manufacturer shall be to repair or replace the defective Products in the manner and for the period provided above. Manufacturer shall not have any other obligation with respect to the Products or any part thereof, whether based on contract, tort, strict liability or otherwise. Under no circumstances, whether based on this Limited Warranty or otherwise, shall Manufacturer be liable for incidental, special, or consequential damages.

## 4. **Other Statements.**

Manufacturer's employees or representatives' ORAL OR OTHER WRITTEN STATEMENTS DO NOT CONSTITUTE WARRANTIES, shall not be relied upon by Buyer, and are not a part of the contract for sale or this limited warranty.

## 5. **Entire Obligation.**

This Limited Warranty states the entire obligation of Manufacturer with respect to the Products. If any part of this Limited Warranty is determined to be void or illegal, the remainder shall remain in full force and effect.

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# Introduction

The AudioConnect™ USB audio interface is designed to meet the majority of audio test and measurement needs. It is specifically designed for audio and electroacoustic test and measurement. It offers two channels of analog input and output as well as two channels of digital I/O, USB control, and a power indicator. All other typical sound card controls that are not used for audio test applications have been eliminated. This offers simple operation and calibration with no room for error. The interface is supplied fully calibrated.

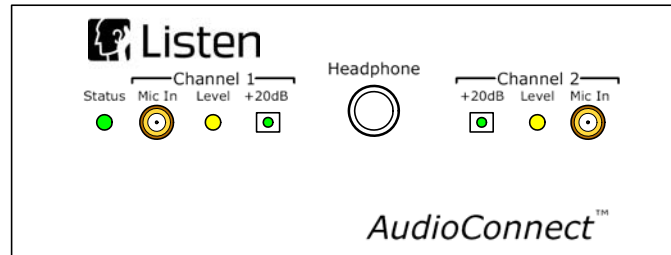


Figure 1-1: Front Panel

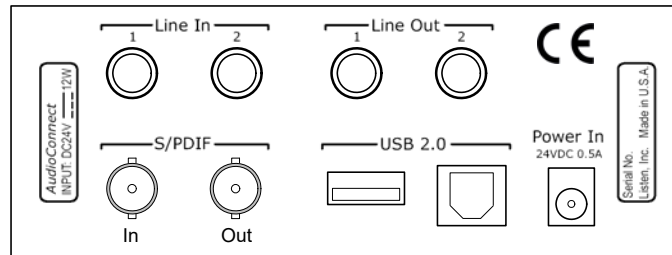


Figure 1-2: Back Panel

## Features

- High quality professional audio interface
- Analog audio in and out
  - 2 Channels In / 2 Channels Out
- USB Controlled in SoundCheck (AudioConnect requires SoundCheck 14 or later)
- All other settings eliminated for ease of use
- 44.1 kHz sampling rate
- SCM microphone power
- Gain: 0 dB or 20 dB, front panel switchable. See [Figure 1-1](#).
- Headphone amplifier
- Software Control Panel to allow easy switching of functions (AudioConnect requires SoundCheck 14 or later)
- External USB hub
- Internal USB hub: A secure place to keep the SoundCheck hardware key
- Compact, rugged and rack-mountable
- Excellent value

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# Installation

**Windows** - AudioConnect uses a standard Windows WDM driver. Just connect to the SoundCheck computer with the USB cable provided and the driver will install automatically.

**Mac** - AudioConnect uses a native Core Audio driver. The device is recognized after connecting with the USB cable provided.

The AudioConnect Controller driver is included with the installation of SoundCheck 14 and later.

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**Important! SoundCheck 14 or later is required to control AudioConnect.**

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## NI Visa

NI Visa is required for Listen Hardware such as: AmpConnect, AudioConnect and SoundConnect 2. It is automatically installed with the SoundCheck installer for Windows and must be manually installed for Mac OS.

## Hardware Editor

Default values for the SoundCheck Hardware Editor are shown below.

### Auto Mode

As of SoundCheck 14, the Hardware Editor in SoundCheck can automatically read the Vp values from AudioConnect when the editor is set to Auto Mode. Please refer to the SoundCheck Manual Hardware Editor chapter for more information on Auto Mode.

---

**Important! The Output Channel Vp values read are for Balanced Connection. For Single Ended (Unbalanced) Connections, uncheck Auto in the Hardware Editor.**

---

Open the Hardware Editor from the SoundCheck Main Screen.

- Click **Refresh** to update the **Device Field**. The fields should now show your device serial number.

### Balanced vs Single Ended Vp Values

The example in [Figure 2-1](#) shows the Output Vp value when using Balanced Line, 1/4" Tip-Ring-Sleeve (TRS) connectors. The Vp value on Outputs 1 and 2 is 4.4 V.

Channel Name	Driver	Device	Select Ch	Vp	A/D	Sampling Rate	Alias Freq	Bit Depth
Input 1	WDM/MME	AudioConnect 40501300061	L	11.4	Analog	44100 Hz	20948 Hz	24 bit
Input 2	WDM/MME	AudioConnect 40501300061	R	11.4	Analog	44100 Hz	20948 Hz	24 bit
Mic In 1	WDM/MME	AudioConnect 40501300061	L	5.3	Analog	44100 Hz	20948 Hz	24 bit
Mic In 2	WDM/MME	AudioConnect 40501300061	R	5.3	Analog	44100 Hz	20948 Hz	24 bit
Output Channels								
Channel Name	Driver	Device	Select Ch	Vp	A/D	Sampling Rate	Alias Freq	Bit Depth
Output 1	WDM/MME	AudioConnect 40501300061	L	4.4	Analog	44100 Hz	20948 Hz	24 bit
Output 2	WDM/MME	AudioConnect 40501300061	R	4.4	Analog	44100 Hz	20948 Hz	24 bit
Sng End Out 1	WDM/MME	AudioConnect 40501300061	L	2.2	Analog	44100 Hz	20948 Hz	24 bit
Sng End Out 2	WDM/MME	AudioConnect 40501300061	R	2.2	Analog	44100 Hz	20948 Hz	24 bit

**Figure 2-1: Balanced Output Values**

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**Important! When using Single Ended connectors (1/4" Tip-Sleeve unbalanced), the Output Vp values are reduced by half as shown in Figure 2-1, on Channel Name - SnglEnd Out 1 and 2; e.g.,  $[4.4 \text{ V} / 2 = 2.2 \text{ V}]$**

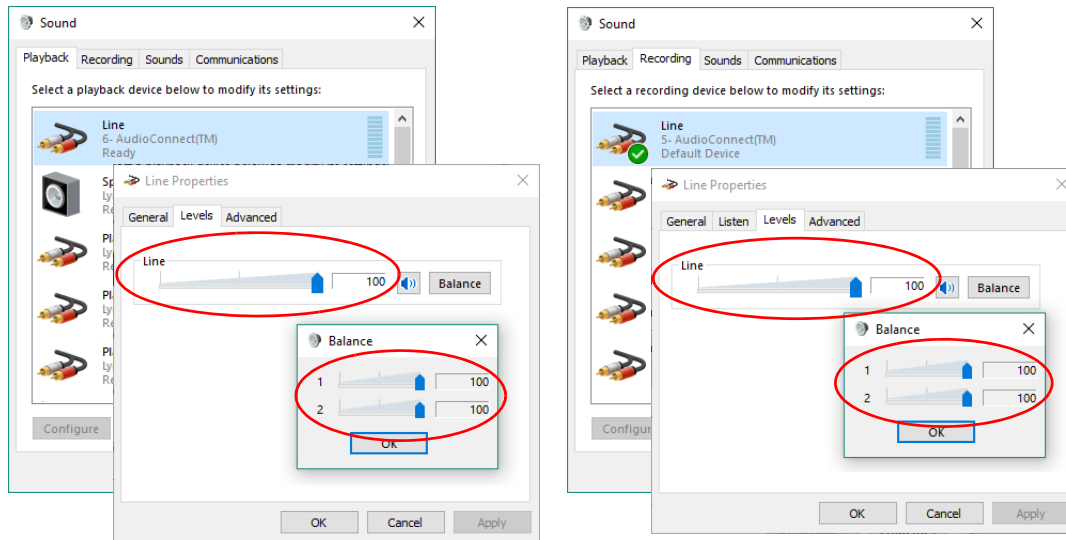
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## Windows Mixer Settings

Click on: **Start > Control Panel > Hardware and Sound > Manage Audio Devices**

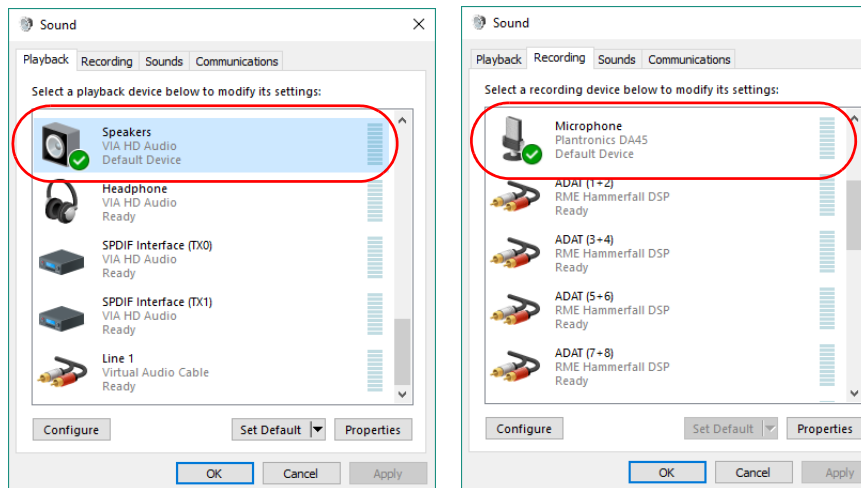
Double click on AudioConnect under the Recording and Playback tabs.

The Windows audio mixer must be set to 100% for both Level and Balance as shown in [Figure 2-2](#).



**Figure 2-2: Windows Mixer Settings**

We also recommend that you set the mother board audio device (or an audio channel not used for measurements) as the default Windows audio device as shown in [Figure 2-3](#). This prevents Windows sounds from playing back through AudioConnect.



**Figure 2-3: Set Default Device**

# Headphone Amp Calibration

When using the Headphone Out of AudioConnect for headphone testing, the Headphone Amp should be calibrated in the SoundCheck Calibration editor.

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**Note:** *As of SoundCheck 14.01, the headphone out sensitivity is -5.8 dB (typical) when using Balanced Out Vp values in the Hardware Editor. The calibrated sensitivity of the Headphone Out is dependent on whether Balanced or Single Ended connections and Vp values are used in the SoundCheck Hardware Editor. If you change the Hardware Editor Output Vp values, the Headphone Amp must be re-calibrated.*

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**Note:** *As of SoundCheck 15, a new AudioConnect calibrated device is available in the Calibration Editor. The output sensitivity is set to -5.8dB as a nominal value.*

---

The following procedure allows you to calibrate the left and right channels of the headphone amp. This will set the Sensitivity in the Calibration editor and create a correction curve for both amp channels.

AudioConnect must be set to **Line In** before running the calibration procedure. You can do this in the **Hardware Editor - Listen Hardware - Startup Defaults** or from an **Offline Message Step** (select AudioConnect.MES template). See [Figure 3-1](#).

- Set Channel 1 and 2 to **Line**
- Set the Headphone Out to **SoundCheck Output**. The level is fixed and cannot be adjusted in the editor.
- Make sure **Mute** is not checked
- Click **Apply** to send the settings to AudioConnect and OK to exit the editor

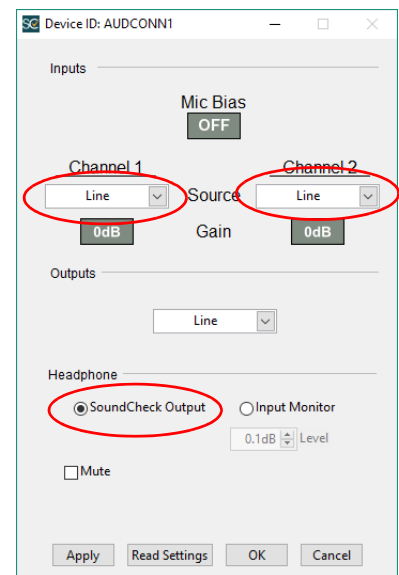


Figure 3-1: Message Step

This procedure requires the use of a Stereo 1/4" TRS to 1/4" Mono Left/Right cable typically called an Insert Cable. The wiring is shown in [Figure 3-2](#).

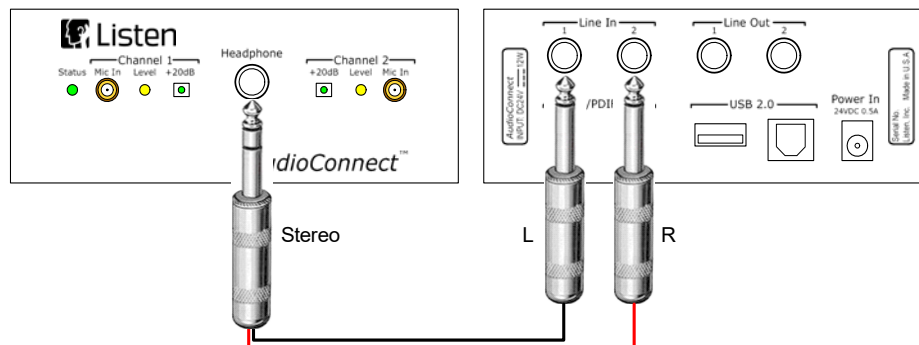
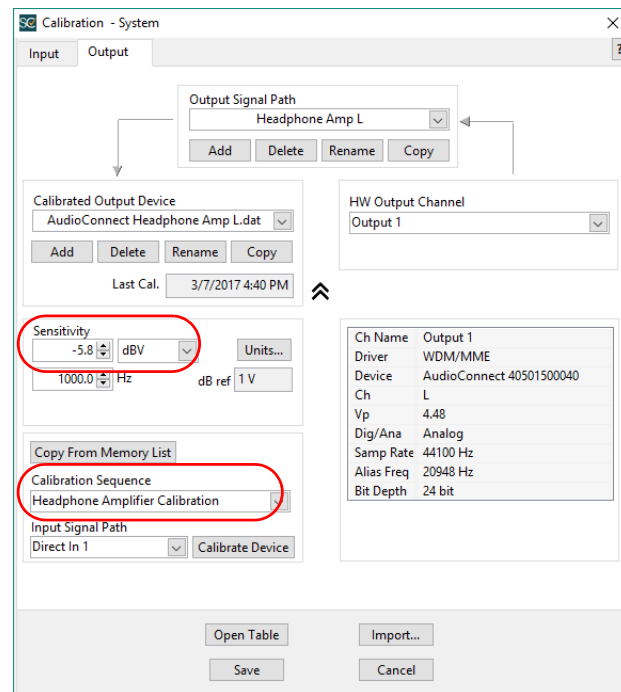


Figure 3-2: Calibration Wiring

## Calibration Procedure

1. Open the Calibration Editor as shown in [Figure 3-3](#)
2. In the Output Signal Path field select Headphone Amp L (default name)
3. Under Calibrated Output Device, Click **Add** and enter the name for the device:  
**AudioConnect Headphone Amp L.dat**
4. Make sure the HW Output Channel is correct. The default hardware channel is Output 1.
5. Under **Input Signal Path** select the channel that the output of the AudioConnect Headphone Amp L is routed to.
6. Click **Calibrate Device**. When prompted with wiring instructions, use the example in [Figure 3-2](#). Follow the sequence prompts, clicking **Enter** to continue.
7. When the Amplifier Calibration process is complete the display shows the response curve of the headphone amp and the measured gain. Click **Enter** to finish the sequence. The gain value is automatically entered in the **Sensitivity** field as shown in [Figure 3-3](#). Select **dBV** to see the gain in dB.
8. Repeat the above procedure for the right headphone amp channel.



**Figure 3-3: Calibration Editor**

# Operation

## SoundCheck Control

AudioConnect can be controlled through the SoundCheck Hardware Startup Default or through message steps. (SoundCheck 14 minimum required)

The default settings for AudioConnect can be set in the SoundCheck Hardware Editor from the Listen Hardware page. Right click on the AudioConnect device line and select **Assign Startup Default** as shown in [Figure 4-1](#).

This allows you to use **Auto Mode** in the Hardware Editor.

Auto Mode will set the appropriate Vp values for the selected AudioConnect Input Channels.

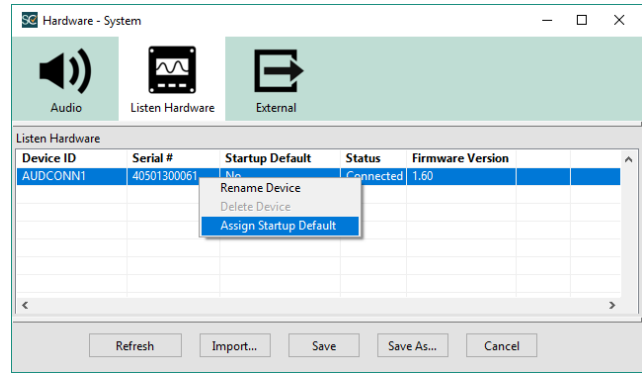


Figure 4-1: Assign Startup Default

## SoundCheck Acquisition Step Gain Field

**Important!** *Switching Listen Hardware from Maximum Gain to Minimum Gain in the Acquisition Step is not recommended. This does not allow the input gain circuit sufficient time to stabilize. If you need to switch from Max Gain to Minimum Gain we recommend that you use a Listen Hardware Message step with a 500 mSec wait time to allow for settling.*

## Auto Mode OFF

Using Message Steps in a sequence to switch AudioConnect between Line In and Mic In will require that **Auto Mode** is turned **OFF** in the Hardware Editor.

It also requires that discreet hardware input channels are created for **Mic In 1 and 2** as well as **Line In 1 and 2**. These channels should have the specific Vp values for each channel. These can be found by using Auto Mode or from the AudioConnect QC Sheet. The values should be manually entered in the Hardware Editor.

## Settings

The Hardware Editor Startup Default and the AudioConnect Message Step settings panels are the same.

Open the AudioConnect Message Step in the sequence editor. Listen Hardware is selected on the first page of the Message Editor as shown in [Figure 4-2](#).

- **Listen Hardware** selected under Message
- **Pass/Fail** - Not used in this type of step
- **Wait** - Allows you to set a settling time so the Mic or Line Inputs stabilize before a measurement is made
- Click **Configure Listen Hardware** to open the device settings panel ([Figure 4-3](#))

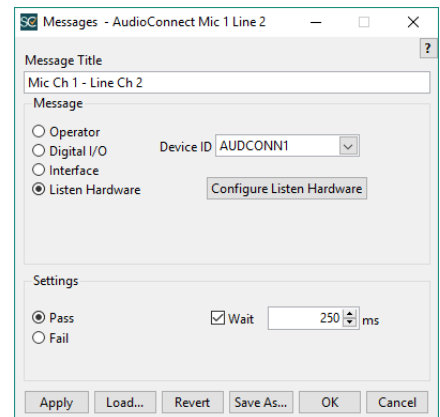


Figure 4-2: Message Step Page 1

## Configure Listen Hardware

The Message Step for AudioConnect in [Figure 4-3](#) shows the default settings for AudioConnect.

### Mic Bias

- Turns the 9.5 VDC microphone bias On and Off for both microphone input channels

### Gain

- Select 0 dB or +20 dB independently for channels 1 & 2

### Input select

- Select Mic or Line Input independently for channels 1 & 2
- SoundCheck Hardware Editor Vp values automatically adjust when AudioConnect input channels are switched between mic and line via Message steps in a sequence

### Output select

- The output should be set to Line
- Digital Out is currently not available.

### Headphone

- **SoundCheck Output** - Allows you to monitor the Output of the audio interface at the Headphone jack. Use this setting if using the output for Headphone testing.
  - For use in headphone testing, the gain is fixed at 0.1 dB. The headphone out should be calibrated in the SoundCheck Calibration Editor. The Headphone Amp Calibration Sequence should be used. See [Headphone Amp Calibration on page 5](#).

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**Note:** Prior to serial number 40501270109, firmware 1.61, the headphone output polarity is inverted for both channels. Polarity tests using the headphone out will need to be adjusted accordingly. Polarity Limits may need to be changed from a Lower Limit of 0 to an Upper Limit of 0.

---

- **Input Monitor** - Used to listen to the Input of the audio interface. Use this setting when verifying the signal coming into SoundCheck.
  - Monitor level default is approx -16 dB

**Apply** - Click to send the current setting to the device

**Read Settings** - Click to get the current settings of the connected device

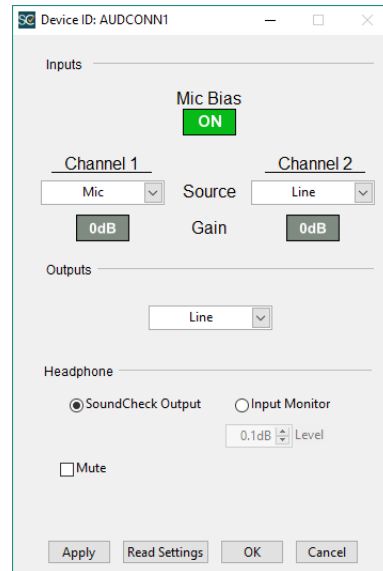
**OK/Cancel** - Click to close the device editor or message step

- OK accepts the changes
- Cancel will ignore the changes and return to the previously saved state

For more information on the use of Message Steps in a SoundCheck, please refer to the Message Editor chapter of the SoundCheck Manual.

## Analysis

AudioConnect requires that all Analysis Steps in SoundCheck sequences use Auto Delay on the Delay Tab.



**Figure 4-3: Device Settings**

## Front Panel

### Status LED

- Off: No power has been applied to the unit
- Yellow: Power has been applied to the unit, but there is no USB communication with the computer
- Green: Power has been applied to the unit and there is USB communication with the computer

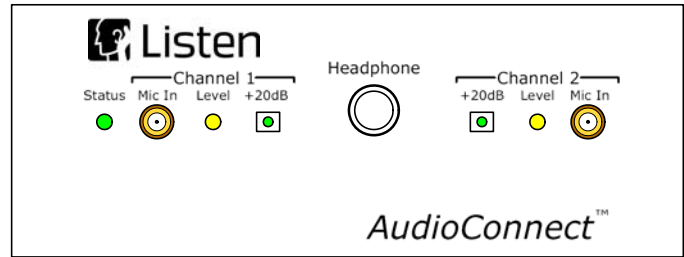


Figure 4-4: Front Panel

### Mic In

- Microdot (10-32 female RF) connector
- A constant voltage bias can be supplied for Listen, Inc. SCM Microphones as well as other compatible electret-based measurement microphones.
- Open Circuit Bias Voltage: 10 VDC
- Bias voltage can be enabled for both inputs from the Message Step. See [SoundCheck Control on page 7](#).
- Disable the Bias voltage when running the Sound Card calibration process on the microphone inputs or when running Self Test.

### LED Level Indicators

- Off: Output level is less than -50 dBFS
- Green: Output level is between -50 dBFS and -3 dBFS
- Yellow: Output level is between -3 dBFS and 0 dBFS
- Red: Output level has reached 0 dBFS

### +20 dB Gain

- Off: No gain applied. 0 dB
- Green: +20 dB gain is applied
- Applies to Mic In and Line In. Does not apply to Digital In.
- Independently switchable on each channel

### Headphone Out

- Standard 1/4" TRS stereo headphone connection
- See [SoundCheck Control on page 7](#)

---

**Note:** Prior to serial number 40501270109, firmware 1.61, the headphone output polarity is inverted for both channels. Polarity tests using the headphone out will need to be adjusted accordingly. Polarity Limits may need to be changed from a Lower Limit of 0 to an Upper Limit of 0.

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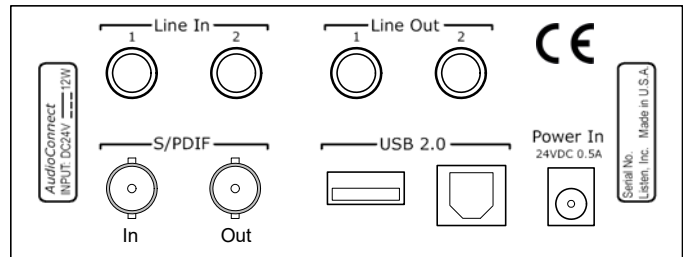
## Back Panel

### Line In

- 1/4" Balanced TRS connector
- Can also be used with Single Ended connections

### Line Out

- 1/4" Balanced TRS connector
- Can also be used with Single Ended connections



**Figure 4-5: Back Panel**

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**Note:** Single Ended Output connections require a different Output Vp value in the SoundCheck Hardware Editor. See [Hardware Editor on page 3](#).

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### S/PDIF In/Out

- Currently not available for use

### USB device Connector

- USB-B connector for connection to computer

### USB Hub Connector

- The USB Full Speed connector is for: Hardware Keys, keyboards, mice and control of devices such as SoundConnect 2. It is not for use with hard drives, memory sticks or audio interfaces.

### Internal USB Hub Connector

- The USB Hub inside the case can be used for the SoundCheck USB Hardware Key

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**Note:** *Any steel cable or ball chain used to secure hardware keys and ID tags must be removed before securing the hardware key in the AudioConnect chassis.*

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### Power In Connector

- 24 VDC 0.5 A
- Use only the approved DC supply provided by Listen, Inc.

## Recommended Cable Length

- All cables used for AudioConnect should be no longer than 3 meters (9.9 feet)



# Connection Diagram

## Loudspeaker Test using AudioConnect™ and SC Amp™

- AudioConnect connected to the SoundCheck computer via USB
- SCM Microphone connected to Mic In 1 of AudioConnect
- SoundCheck Message Step used to assign AudioConnect channel settings. See [SoundCheck Control on page 7](#).
- AudioConnect Output 1 to SC Amp Line Input: Balanced connection recommended
- SC Amp 0.1 V/A Impedance Interface Output to AudioConnect Input 2: **Balanced connection required** (See [Figure 4-6](#))
- Loudspeaker connected to SC Amp Output

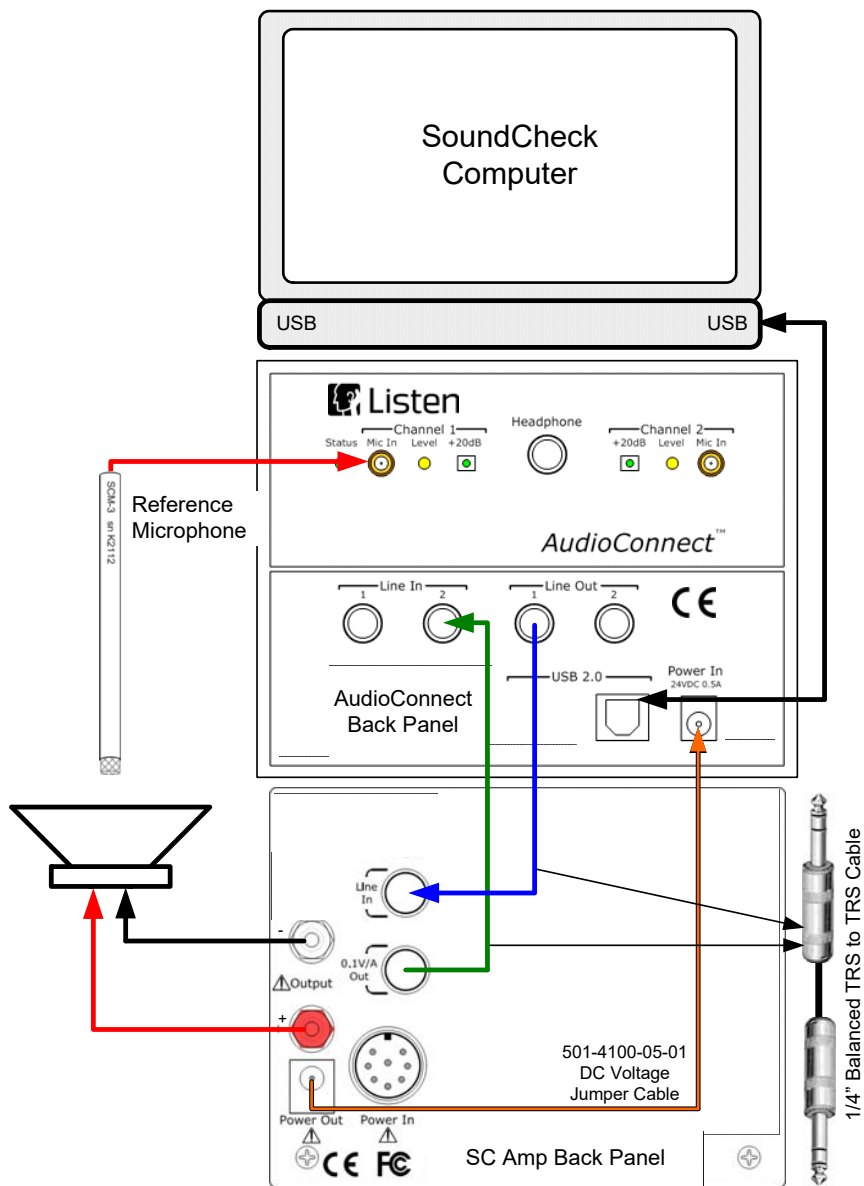


Figure 4-6: Loudspeaker Test - Balanced Wiring

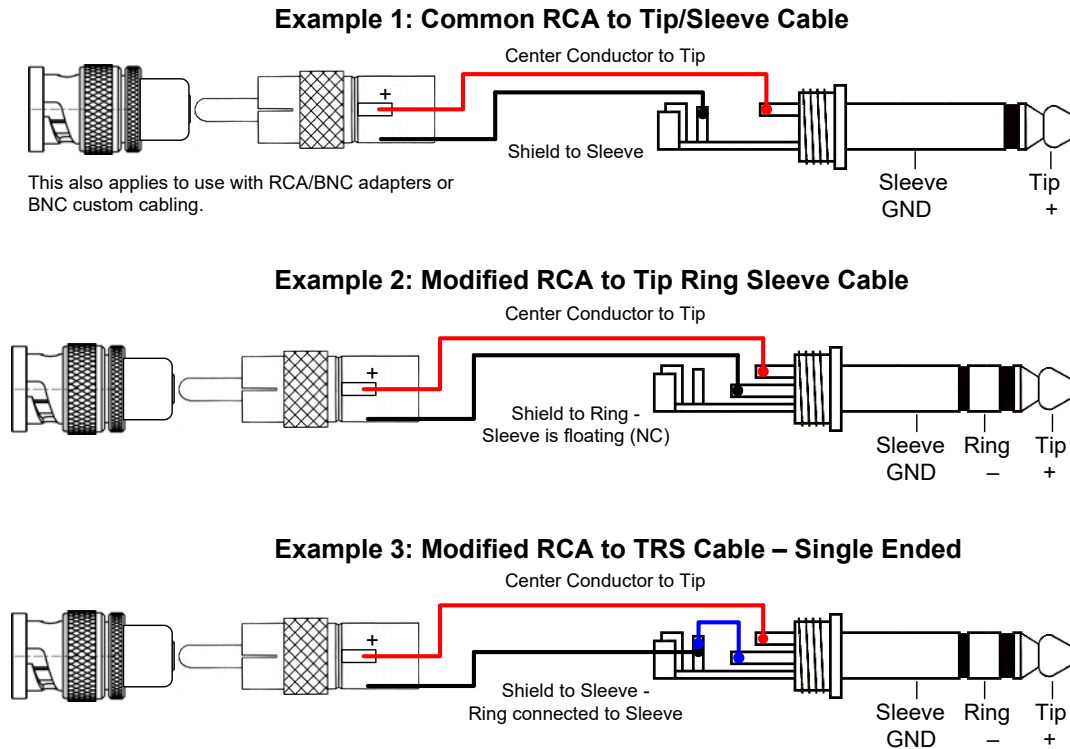
## Balanced vs Single Ended Connections

AudioConnect accepts both Balanced and Single Ended (Unbalanced) connections.

BNC and RCA connections are both typically single ended.

As noted under [Balanced vs Single Ended Vp Values on page 3](#), when a **Single Ended Output** connection is used, the Vp value for that channel of the Hardware Editor should be half the value used for a Balanced connection. The Input Vp values are not affected by single ended connections

Some instances may arise that require a single ended connection using a BNC or RCA connector. The diagram in [Figure 4-6](#) shows preferred wiring methods using these connectors.



**Figure 4-7: Balanced vs Single Ended Wiring**

### Example 1

The common RCA to 1/4" Tip/Sleeve cable requires the use of Single Ended Vp values in the SoundCheck Hardware Editor.

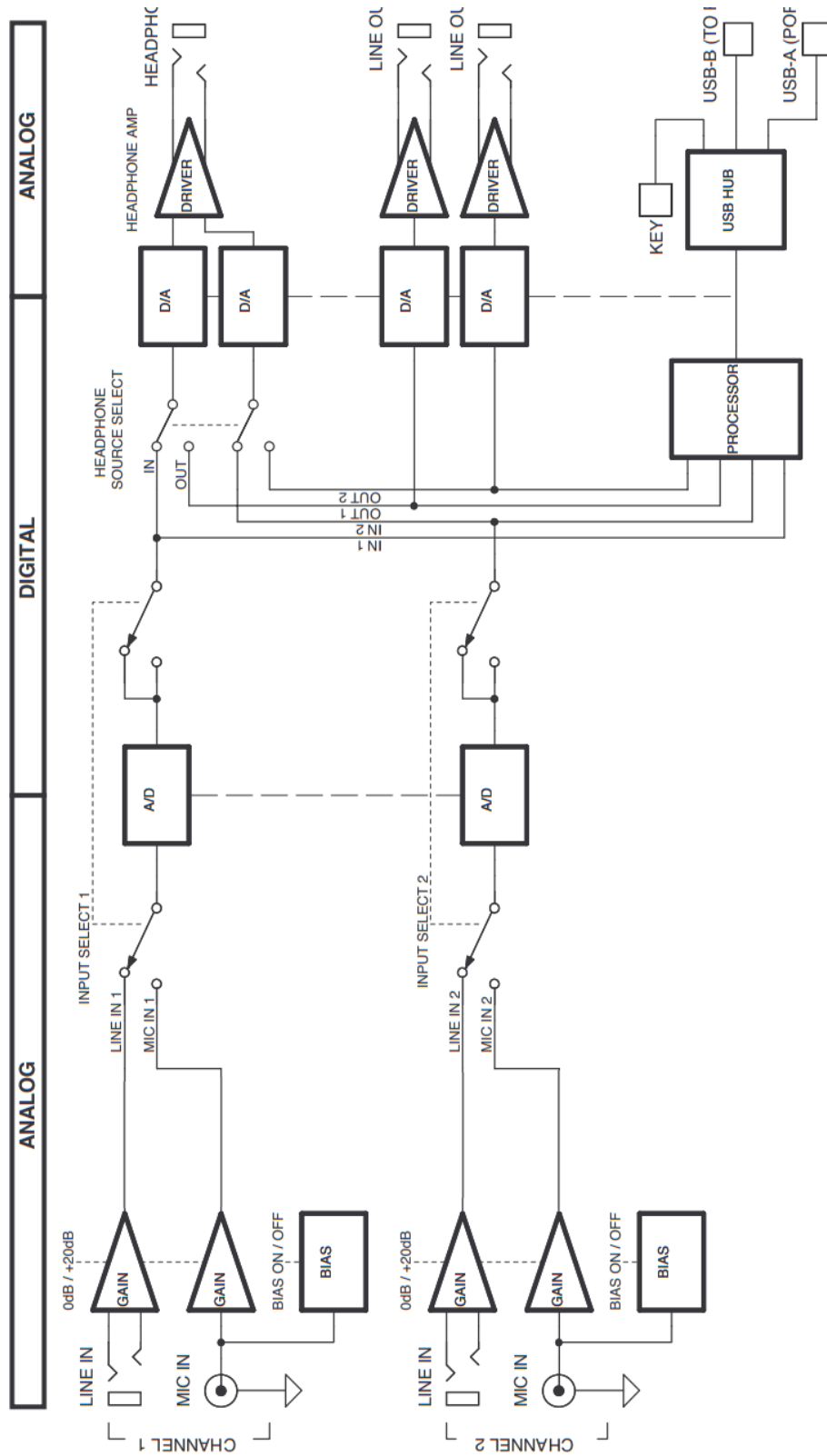
### Example 2

This option allows you to still use Balanced Vp values in the Hardware Editor.

### Example 3

While this method uses a 1/4" TRS connector, when the Ring is connected to the Sleeve it makes the connection to AudioConnect Single Ended. This method requires the use of Single Ended Vp values in the SoundCheck Hardware Editor.

# Block Diagram



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# Connect Series Hardware Shelf Mounting Instructions

- The Connect Series of instruments from Listen, Inc. can be rack mounted using the Hardware Shelf Kit, p/n 4901. Four devices can be mounted on the shelf as shown.

Each Connect Series device is attached to the shelf with four,

- 4-40 x 1/4" Phillips flat head machine screws (included).

## Mounting

- Remove the rubber feet from the bottom plate of the Connect Series device to expose the 4-40 threaded inserts.

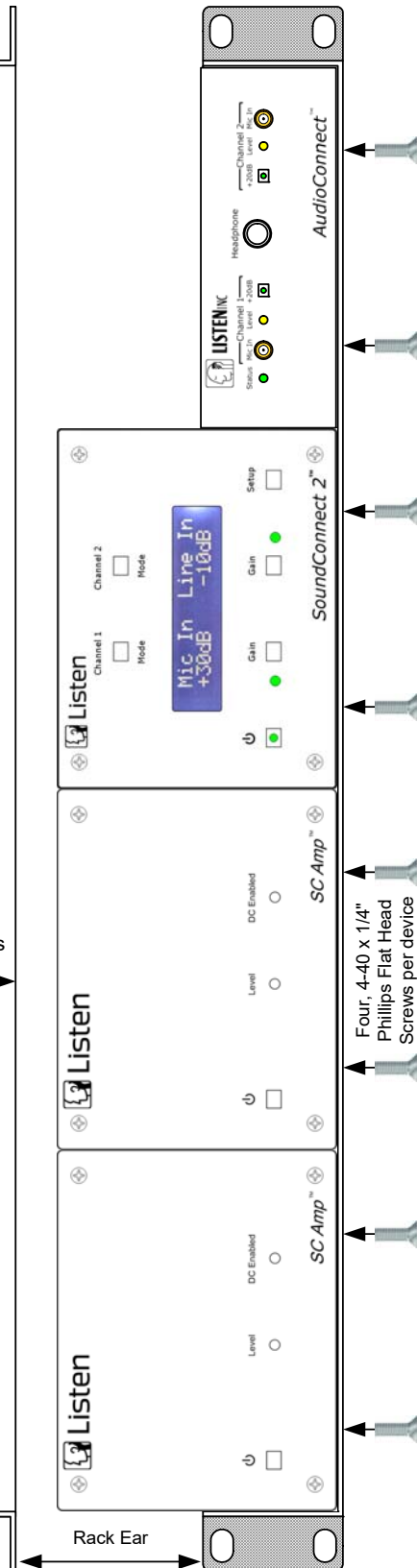
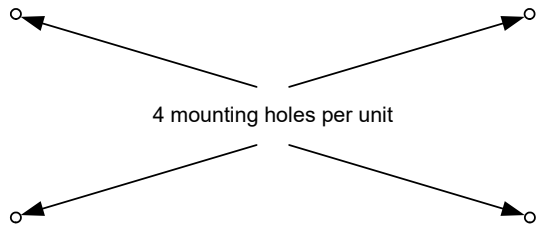
Next place the device on the rack shelf with the front panel of the device facing the "rack ears" of the shelf.

- Insert 4 Phillips screws through the bottom of plate into the device and hand tighten.

- **Use only the 1/4" long screws provided. Using longer screws can damage the pc board of the device.**

Front panel of device faces rack ears of shelf

- 



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## Specifications

<b>Line In</b>	
Flatness 20 Hz - 20 kHz	+0.1/-0.25 dB
Frequency Response	-3.0 dB, < 5 Hz to > 20 kHz
Maximum Input Voltage	11.4 Vp @ 0 dB Gain
Input Impedance	88 k $\Omega$ - Balanced, 44 k $\Omega$ - Single Ended
Selectable Gain	$\pm$ 0.02 dB, 0 dB or +20 dB
Noise (at input)	30 $\mu$ V @ 0 dB Gain, 20 Hz to 20 kHz BW, 150 $\Omega$ Terminated
THD+N	< -88 dB, (0.004 %), @ 1 kHz, 20 to 20 kHz BW
Crosstalk @ 1 kHz	-80 dB @ 1 kHz, 20 Hz to 20 kHz BW
Inter-channel Phase	$\pm$ 0.250 degrees, 20 - 20 kHz BW
Connector	1/4" TRS Phone Jack, Balanced or Single Ended
<b>Mic In</b>	
Flatness 20 Hz - 20 kHz	+0.1/-0.25 dB
Frequency Response	-3.0 dB, < 5 Hz to > 20 kHz
Maximum Input Voltage	5.15 Vp @ 0 dB Gain
Input Impedance	7.5 k $\Omega$ , Bias On
THD+N @ 1 kHz	< -86 dB, (0.005 %), @ 1 kHz, 20 to 20 kHz BW
Selectable Gain	$\pm$ 0.03 dB @ 0 dB, $\pm$ 0.05 dB @ 20 dB
Noise	30 $\mu$ V @ 0 dB Gain, 20 Hz to 20 kHz BW, 150 $\Omega$ Terminated
Inter-channel Phase	$\pm$ 0.25 degrees, 20 - 20 kHz BW
Crosstalk @ 1 kHz	-92 dB @ 1 kHz, 20 Hz to 20 kHz BW
Bias	Off or 10 V DC, Constant Voltage, SCM/Electret bias
Open Circuit Voltage	10.1 V DC, Fixed
Connector	Microdot 10-32
<b>Line Out</b>	
Flatness 20 Hz - 20 kHz	+0.1/-0.25 dB
Frequency Response	-3.0 dB, < 5 Hz to > 20 kHz
Level	4.25 Vp Line Out (Balanced)
THD+N	< -94 dB, (0.002 %), @ 1 kHz, 20 to 20 kHz BW
Output Impedance	200 $\Omega$ - Balanced, 100 $\Omega$ - Single Ended
Connector	1/4" TRS Phone Jack, Balanced or Single Ended

<b>Headphone Output</b>	
Flatness 20 Hz - 20 kHz	+0.1/-0.3 dB
Frequency Response	-3.0 dB, < 5 Hz to > 20 kHz
Source Impedance	600 mΩ @ 1 kHz
Continuous Output Power	65 mW into 32 Ω, 116 mW into 16 Ω, @ 1 kHz
THD+N @ 1 kHz, 10mW into 20 Ω	< -77 dB, (0.014 %), @ 1 kHz, 20 to 20 kHz BW
Crosstalk @ 1 kHz	-60 dB @ 1 kHz, 20 Hz to 20 kHz BW
Minimum Load	16 Ω
Output Connector	1/4" TRS Headphone Jack
<b>USB Interface</b>	
Inputs	2, Individually selectable between mic input and line input
Outputs	2, shared between line output and headphone output
Sample Rate	44.1 kHz
Bit Depth	24 bit
Audio Interface provides audio in/out to PC (USB 1.1 Audio). All front panel functions USB controllable.	
<b>Physical</b>	
Dimensions	1.6" H (41mm) x 4.37" W (111mm) x 8.625" D (207mm)
Weight	1.5 lbs (0.7 kg)
Power	24 VDC 0.5 A



# Equipment Ratings

## Normal Environmental Conditions

AudioConnect may be used under the following environmental conditions:

- Indoor use only
- Altitudes up to 2,000 m
- Temperatures between 0 °C to 40 °C
- Maximum relative humidity 80%
- Within the main supply voltages listed on the supplied or approved AC power adapter
- Transient Overvoltages up to the levels of Overvoltage Category II as required in the relevant standards listed on the Declaration of Conformity
- Temporary Overvoltages occurring on the mains supply as required in the relevant standards listed on the Declaration of Conformity
- Pollution Degree 2 as required in the relevant standards listed on the Declaration of Conformity

## Degree of Ingress Protection:

- AudioConnect is rated IPX0 as required in the relevant standards listed on the Declaration of Conformity



**DECLARATION OF CONFORMITY**  
According to EN ISO/IEC 17050-1:2004



**Manufacturer's Name:** Listen, Inc.  
**Manufacturer's Address:** 580 Harrison Avenue  
Suite 3W  
Boston, MA, 02118  
U.S.A.

**Declares under sole responsibility that the product as originally delivered**

**Product Description:** AudioConnect USB Audio Interface  
**Model Number:** 4050

**complies with the essential requirements of the following applicable European Directives, and carries the CE marking accordingly:**

Low Voltage Directive (2006/95/EC)  
EMC Directive (2004/108/EC)

**and conforms with the following product standards:**

**Safety:**  
EN61010-1:2010, Ed. 3.0

**EMC:**  
EN55011:2009+A1(2010) – Class A, Group 1  
EN61326-1:2013

USA: FCC Part 15, Class A  
Canada: ICES-003:2012  
Australia/New Zealand: AS/NZS CISPR11

**This Declaration of Conformity applies to the products listed herein and placed on the EU market after:**

**Date:** 4 day of January, 2016

**Manufacturer:**

**Signature**

**Name:** Steve Temme  
**Position:** President  
**Date:** 4 Jan, 2016

## Contact Information

Contact the Listen office at 617-556-4104, Monday thru Friday, between 9 AM and 5 PM EST.

Sales - [sales@listeninc.com](mailto:sales@listeninc.com)

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