

**User Guide    Altec Lansing  
Computer Speaker System**

## **ADA70**

### **RF Breakthrough Advisory**

If this product is placed too close to a high level source of RF energy, RF breakthrough may be experienced which can cause some audio disturbance. If this happens, move the product as far away as possible from the source until the disturbance is eliminated. Using an audio input cable with a high percentage of shielding is also helpful in reducing or eliminating interference.

**Connecting the Power Cord** (Info and figure goes here)

### **IMPORTANT SAFETY INSTRUCTIONS** (here)

#### **The FCC Wants You to Know**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- a) Reorient or relocate the receiving antenna.
- b) Increase the separation between the equipment and receiver.
- c) Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- d) Consult the dealer or an experienced radio/TV technician for help.

#### **FCC Warning**

Modifications not expressly approved by the manufacturer could void the user authority to operate the equipment under FCC Rules.

#### **Important**

If you experience any difficulties with your computer speaker system, please call us. It may be a simple problem that we can help you solve right over the phone. Call our customer service number for assistance before returning the speakers. Thank you.

**Introduction**

Welcome to the extraordinary world of Altec Lansing high fidelity sound.

The patented Altec Lansing Speaker System is designed like no other speaker system in the world. You can plug these computer speaker systems into a PC audio card and vastly enhance any business presentation, training, education or advertising, music or video production with the same level of digital audio quality you are used to hearing from a music CD. These speaker systems can be used with any multimedia home computer, CD player or video interactive game to provide a total intelligent audio solution which is practical and affordable.

**Description**

The ADA70 is an amplified stereo speaker system featuring a subwoofer for extended low frequency response. The system is especially designed for multimedia computer audio. A USB interface and two audio inputs (1) and (2) allow mixing of computer audio signals with other sources of sound. A patented control circuit automatically boosts bass at low volume to maintain musical sound realism.

Electronic controls adjust system volume, bass and treble. The subwoofer has a separate volume control for blending the subwoofer level with the satellites to the listeners preference.

The satellite speakers are magnetically shielded and can be placed close to the monitor without disturbing images.

When the ADA70 is not used with a Multimedia Computer, it can serve as an amplified speaker system for CD players, cassette players and various video/audio sources with excellent results.

**Back View of ADA70 Components Showing Connection Between Units**

Do not insert the AC power plug into the wall outlet until all connections are made as shown in figure 1.

- Before making connections, notice that the DIN connector plug, the stereo plug and the speaker mono plug are color-coded to prevent errors. This color coding corresponds to connectors found on the rear of the subwoofer, right speaker and computer.
- When connecting the red color-coded DIN connector into the SPKR OUT receptacle color-coded red on the subwoofer, notice that the DIN connector has an arrow. The arrow should face up to make a proper connection. Press the connector firmly into the receptacle to make sure it is fully seated.
- The speaker mono plug colored white is inserted into the jack marked SPKR color-coded in white on the right satellite speaker.

- Insert the stereo plug colored green into the audio jack (input 1) color coded in green. Insert the plug on the other end of the stereo cable into the computer audio output.
- Plug it in. The ADA70 is now operational.

#### **Use of Top Panel Controls on Right Satellite Speakers (See Figure 2)**

- **ON/OFF SWITCH:** To turn the unit on, press the POWER switch. A yellow indicator next to the switch will glow to show the power is on. Press the switch again to turn the power off.
- **MASTER LEVEL ROTARY CONTROL:** The master level rotary control defaults to master volume control. Rotating the master rotary level control, in this mode, clockwise will raise the volume of all of the speakers simultaneously. Rotating the control counterclockwise will decrease the master volume.

If one of the function buttons has been depressed (BASS or TREBLE), the master level rotary control will adjust the level of the function selected. In this mode, the green function indicator associated with the function selected will be illuminated: see TREBLE/BASS CONTROLS below.

- **TREBLE/BASS CONTROLS:** To raise or lower treble or bass response, press the switch next to each mode selector, a green indicator will glow to show the function is operational. Turn the ROTARY control clockwise to increase response and counterclockwise to decrease response. Once the level is set, the indicator next to the function will turn off after a short period. Each function can be turned off quickly by pressing the function button a second time. To reset the Treble and Bass controls to their factory preset (flat) position, depress and hold the corresponding button for a period of approximately three seconds. The green indicator will go out denoting the control has been reset. Once the green indicator is off, the master volume control becomes operational.

#### **Streaming USB Interface**

The ADA70 can interface to your Computer through a streaming USB interface where the speakers can be controlled via a Graphical User Interface on the computer. This interface allows the user to control all speaker functions from their computer screen. This is a plug and play interface so the speakers can be connected and disconnected from the system at any time.

#### **Placement of Speakers**

All stereo information is heard from the satellite speakers. The subwoofer contains no stereo information and its sound is non-directional. As a result, the subwoofer does not necessarily have to be placed in any particular relationship to the satellites. Placing the subwoofer on the floor close to a wall or corner of a room provides maximum bass efficiency. The subwoofer is not magnetically shielded and should not be placed near video displays.

The satellite speakers are magnetically shielded and can be placed close to the computer monitor without distorting the video image. Best stereo effect is obtained by placing the speakers as far apart as practical.

### **ADA70 Specifications**

#### **Satellites**

<b>Drivers</b>	One 3 inch full range One 1 inch tweeter
<b>Satellite Power</b>	7 Watts RMS (Per Channel)
<b>THD</b>	<0.8% @ 1 Watt @ 1kHz
<b>Treble Control</b>	±9dB @ 7kHz (3dB Steps)
<b>Bass Control</b>	±9dB @ 150Hz (3dB Steps)

#### **Subwoofer**

<b>Driver</b>	One 6 inch long throw
<b>Subwoofer Power</b>	20 Watts RMS
<b>THD</b>	<0.8% @ 1 Watt @ 100Hz

#### **System**

<b>Frequency Response</b>	35Hz – 20kHz
<b>Input Impedance</b>	>10k Ohms
<b>Input Sensitivity</b>	500mV for full output
<b>Signal-to-Noise Ratio</b>	>65dB
<b>Crossover Frequency (Subwoofer)</b>	150Hz

#### **Power Requirements**

<b>USA/CANADA Model</b>	120 Volts 60Hz AC
<b>United Kingdom Model</b>	240 Volts 50Hz AC
<b>European Model</b>	230 Volts 50Hz AC
<b>MAX Power Consumption</b>	120 Watts
<b>UL/CUL/CE Approved</b>	

### **Three Year Limited Warranty**

Altec Lansing Technologies, Inc. warrants to the end user that all of its computer speaker systems are free from defects in material and workmanship in the course of normal and reasonable use for a term of three years from the date of purchase.

This warranty is the exclusive and only warranty in effect relative to Altec Lansing computer speaker systems and any other warranties, either expressed or implied, are invalid. Neither Altec Lansing Technologies, Inc. nor any authorized Altec Lansing Technologies, Inc. reseller is responsible for any incidental damages incurred in the use of the speakers. (This limitation of incidental or consequential damage is not applicable where prohibited.)

Altec Lansing Technologies, Inc. obligation under this warranty does not apply to any defect, malfunction or failure as a result of misuse, abuse, improper installation, use with faulty or improper equipment or the use of the computer speaker systems with any equipment for which they were not intended.

The terms of this warranty apply only to computer speaker systems when such speakers are returned to the respective authorized Altec Lansing Technologies, Inc. reseller where they were purchased.

Under the terms of this warranty the original consumer purchaser has certain legal rights and may have other rights which vary worldwide.

## **Troubleshooting**

### ***Symptoms***

Distortion

(i.e. static, crackling,  
hissing)

No Sound From Speakers

Subwoofer

Emits Very Loud Humming/  
Buzzing Noise

### ***Possible Problem***

Speaker is being overdriven by an amplified audio source.

Noise may be caused by interference from the monitor.

Volume level on sound card or other audio source may be too high and causing speaker to be overdriven.

Sound card or specific sound file/track may be root of problem.

No power to unit.

Volume level on sound card or other audio source may be too low.

Signal cable is not completely inserted into signal jack on subwoofer or speaker.

***Solution***

Make sure speaker is connected to line-out jack (unamplified) of sound card and not speaker-out jack (amplified); refer to color coding when making connections.

Turn monitor off to see if noise is eliminated. Move cables away from monitor.

Check volume level of sound card or audio source and lower as necessary.

Check speakers with another audio source (CD-ROM player) to see if sound card or specific file/track may be problem.

Make sure all connecting plugs between the satellite speakers, subwoofer and computer are fully seated. Make sure the wall power outlet or power strip has power. Make sure the power switches on the power strip and satellites are turned on.

Bypass the power strip if used by plugging the subwoofer directly onto a wall outlet.

Check volume level of sound card or audio source and raise as necessary.

Make sure signal cables are inserted snugly into signal jacks.

***Note***

Depending on your sound card, you may also turn off amplifier on sound card (check your sound card manual).

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For this check, disconnect speakers from sound card and plug into headphone jack on front of CD-ROM player or alternate line-level audio source.

Provided power has been verified, it is possible to test the unit by pulling out the audio cable that is connected to the computer and connecting it to an alternate audio source such as a portable CD player.

Check with an alternate audio source as mentioned above.

If need be, turn cable slightly when inserting to ensure complete contact.