

## Specifications

### Overall

Total Audio Power	40 watts
THD	<0.8% @ 1 watt, 1 kHz
Input Sensitivity	300 mV for full output
Input Impedance	>10K ohms
Frequency Response	38 Hz - 18 kHz

### Satellites

Speakers (per satellite) One 3 inch (75 mm)

Audio Power 5 Watts per channel  
(20 watts total)

Frequency Response 250 Hz - 18 kHz

S/N Ratio >65 dB

### Subwoofer

Speaker One 4 inch  
(100 mm)  
long throw

Audio Power 20 Watts

Frequency Response 38 Hz - 250 Hz

### Power Requirements

USA/CANADA 120 volts 60 Hz  
AC

Max Power Consumption 120 Watts

UL/CUL/CE approved

## One 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 one year 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.'s 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.

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## User's Guide

### Computer Speaker System

Visit Our Website  
[www.altecmm.com](http://www.altecmm.com)



**ACS54**

## IMPORTANT



The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

## CAUTION

RISK OF ELECTRIC SHOCK  
DO NOT OPEN

CAUTION: TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

## SAFETY INSTRUCTIONS

**Read Instructions** – All the safety and operating instructions should be read before the appliance is operated.

**Retain Instructions** – The operating instructions should be retained for future reference.

**Heed Warning** – All warnings on the appliance and in the operating instructions should be adhered to.

**Follow Instructions** – All operating and use instructions should be followed.

**Water and Moisture** – The appliance should not be used near water – for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

**Outdoor Use** – Warning: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

**Location** – The appliance should be installed in a stable location.

**Ventilation** – The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or placed in a built-in installation, such as a closed bookcase or cabinet that may impede the flow of air through the ventilation openings.

**Heat** – The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

**Power Sources** – The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

**Power-Cord Protection** – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

**Grounding or Polarization** – The precautions that should be taken so that the grounding or polarization means of an appliance is not defeated.

**Cleaning** – The appliance should be cleaned only with a polishing cloth or a soft dry cloth. Never clean with furniture wax, benzene, insecticides or other volatile liquids since they may corrode the cabinet.

**Non-Use Periods** – The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

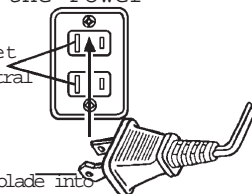
**Object and Liquid Entry** – Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

**Damage Requiring Service** – The appliance should be serviced by qualified service personnel when:

- The power-supply cord or the plug has been damaged.
- Objects have fallen, or liquid has been spilled into the appliance.

## Connecting the Power Cord

AC Wall Socket  
Long slot is neutral  
(ground) side.



Insert the wide blade into

## CAUTION

To prevent electric shock do not use this (polarized) plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

## WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

## Description

The ACS54 consists of four satellites and a subwoofer and is especially designed as a multimedia gaming amplified speaker system. It is used with computers that have sound cards which provide 3D (three-dimensional) decoded audio outputs or with conventional computer sound cards. The sound card outputs for 3D audio outputs are usually marked as OUT 1 and OUT 2. The ACS54 has two inputs that are connected to these sound card outputs. The information provided from the computer outputs will activate the 4 satellite speakers and subwoofer so that you will hear sounds above and below you and approaching from every direction. The result is a real-life audio experience that surrounds the listener with sound in all three dimensions. The computer software will allow modifying the directionality of the sound.

If the computer you are using does not have the 3D sound card decoder, it is possible to install one. The supplier of the sound card will provide installation instructions and software.

If your computer only has a stereo sound card, the ACS54 can still operate as a stereo amplification system. In this instance only one input of the ACS54 will be used. All four satellites and subwoofer will be activated. The front and surround speakers on one side will be one stereo channel and the front and surround speakers on the other side will be the other stereo channel.

It is also possible to drive the ACS54 from a DVD player that has two analog outputs.

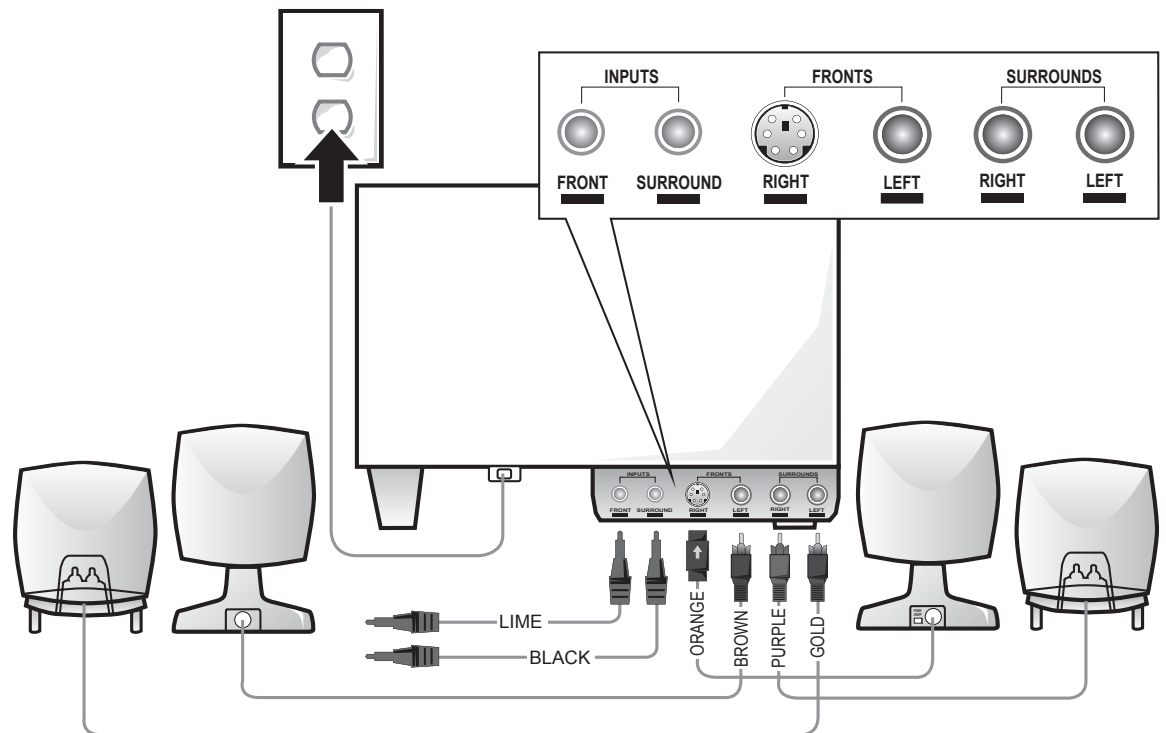
Setup Instructions  
(See Figure 1)  
Do not insert the power plug into an AC outlet until all connections are made.

Notice that the input jacks on the subwoofer are color-coded. The plugs that are inserted into these jacks have matching colors to avoid mistakes. The RIGHT FRONT jack is a mini-DIN connector which is different from the other jacks. Notice that the DIN plug has an arrow. The arrow should face up before inserting into the jack. The input plugs 1 and 2 should be inserted into the back of the computer outputs 1 and 2.

If your computer only has a stereo output, insert the plug (lime) indicated as number 1 into the computer stereo output. The ACS54 will automatically decode the stereo information so that the left front and left surround will become one stereo channel and the right front and right surround the other channel.

## ACS54 Setup Instructions

Figure 1



## Use of Controls (See Figure 2 and 3)

**Power On/Off:** Press the on/off switch on the surround of the right satellite. The power LED on the front panel will glow to indicate the unit is turned on. Press this switch again to turn the unit off.

**Volume Up/Down:** Turn the volume control clockwise to increase volume and counter-clockwise to decrease volume.

**Surround Control:** The SURROUND Control varies the volume of the left and right surround speakers. The adjustment of

this control is made at the users discretion. Adjust this control until the surround affect is enhanced for best realism.

This control operates in the same manner when computers only have stereo outputs.

**Bass Control:** The BASS Level Control is located on the front of the subwoofer. Rotating this control clockwise, increases the bass response and rotating the control counter-clockwise, decreases the bass. Most usually, this control is set by blending the subwoofer output with satellites and is not intended to be used often. Some experimentation is required to obtain a proper balance between the subwoofer and satellites. It is best to use a wide variety of music for setting the control.

## Placement of Speakers (See Figure 4)

Figure 4 shows a typical placement of the speakers to obtain the 3D spatial effect. The listener sits in the center of the four satellite speakers. The satellite speakers have notches on the back, which also allows them to be mounted on a wall. The subwoofer does not have to be placed as shown, but the subwoofer is not shielded and should not be placed near the monitor. Subwoofer sound is non-directional and therefore does not have to be placed in any special relationship to the satellites.

Figure 4

Figure 2

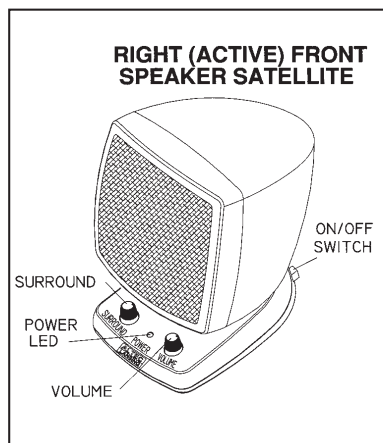


Figure 3

