

## Specifications

System Response	30Hz — 20KHz
Total Audio Power	70 Watts
Inputs	Digital Front Speakers Surround Speakers
<b>Satellite Amplified Speakers</b>	
Speaker Drivers	Four 3" (75mm) Full Range Magnetically Shielded
Audio Power	35 Watts
<b>Subwoofer</b>	
Speaker Driver	Long Throw 6 1/2" (165mm)
Audio Power	35 Watts
Crossover Frequency	105Hz
<b>Power Requirements</b>	
USA/Canada	120v/240w/60Hz
Europe/United Kingdom And various Asian Countries	230v/50Hz
ETL/cETL/CE	

## 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.



## User's Guide

## Computer Speaker System

# ACS56

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800-ALTEC-88 • www.altecm.com

## 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: 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:

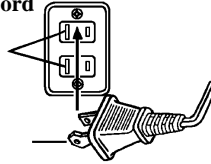
- The power-supply cord or the plug has been damaged.
- Objects have fallen, or liquid has been spilled into the appliance.
- The appliance has been exposed to rain.
- The appliance does not appear to operate normally or exhibits a marked change in performance.
- The appliance has been dropped or the enclosure damaged.

**Servicing** — The user should not attempt to service the appliance. Servicing should be referred to qualified service personnel or returned to the dealer or call the Altec Lansing service line for assistance.

### Connecting the Power Cord

#### AC Wall Socket

Long slot is neutral (ground) side.



Insert the wide blade into the ground side slot.

### 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.

### 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.

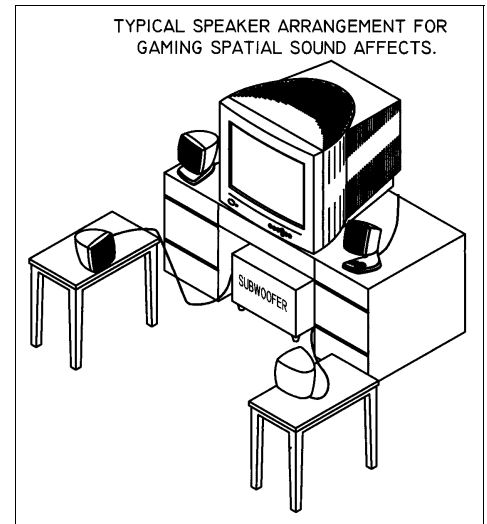
## Introduction

The ACS56 is especially designed as a "Gaming" amplified speaker system. The input signals to operate the speakers are obtained from a multimedia computer with a gaming "sound" card. The ACS56 can also operate from a stereo sound card. However, in this instance only stereo operation of the speakers is possible.

The ACS56 consists of four satellite speakers and a subwoofer. The satellite speakers are magnetically shielded and can be placed close to the computer monitor without distorting color or images. The subwoofer is not magnetically shielded and should not be placed close to the monitor.

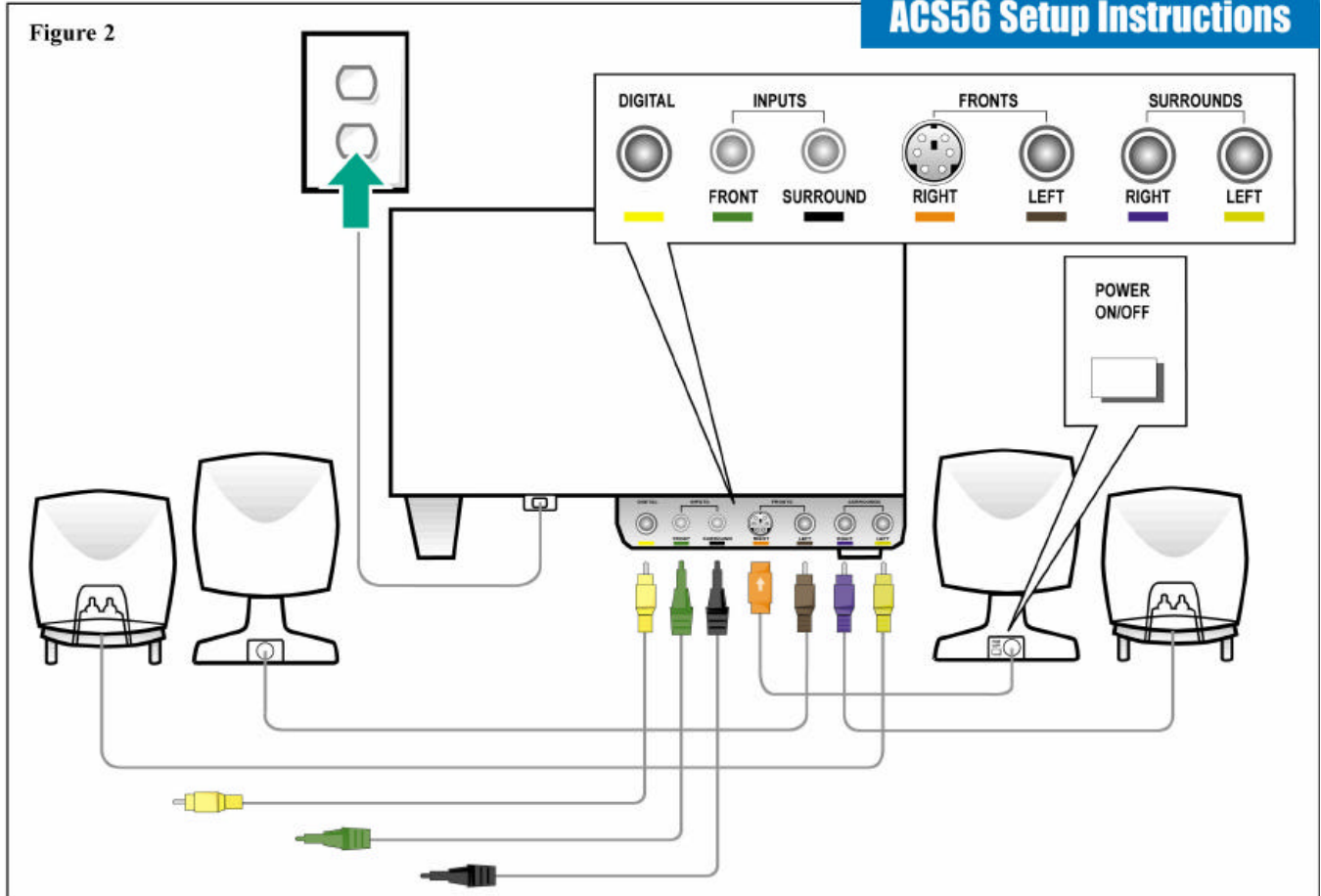
All stereo and surround sound is processed from the satellite speakers. Subwoofer frequencies are monaural and contain no stereo or surround information. As a result, the subwoofer does not have to be placed in any particular relationship to the satellite speakers. The subwoofer is not magnetically shielded and should not be placed near the monitor. Placing the subwoofer on the floor close to a wall, corner of a room or under a desk gives excellent results. Figure 1 shows a typical arrangement of the speakers for best stereo and spatial affects.

Figure 1



## ACS56 Setup Instructions

Figure 2



### Setup Instructions (See Figure 2)

*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 to prevent errors. The plugs that are inserted into these jacks have matching colors. As an example, the left front speaker satellite has a brown connecting plug. The plug is inserted into the brown color strip under the left front jack marking. All other connections are made in the same way. A DIN plug is used to make the connections for the right front satellite speaker. Note that the DIN plug has an arrow. The arrow should face up for easy insertion into the DIN jack.

Computer gaming sounds cards have three outputs. Most usually, the outputs will be marked as Digital

output, Front output and Surround output. Some slightly different terminology may be used. However, the sound card instructions will provide information so that you can determine what the outputs are. Connect the ACS56 three inputs to the computer sound card.

**Stereo Operation.** If your computer only has a stereo sound card, the ACS56 will still provide excellent performance. In this instance the sound card stereo output should be connected to the Front speaker input. Both Front/Surround speakers will be operational. The front and surround speakers in the left channel with

perform as the left surround stereo channel and the right front and rear speakers will be the stereo right channel. The mode button should be in stereo function.

Insert the power plug into an AC outlet. The unit is now ready to be operational.

## Operation of the controls (See Figure 3)

**On/Off Switch.** The on/off switch is located on the rear of the right satellite speaker. Press this switch to turn the unit on, the Mode indicator will light to show power is on. Press the switch again to turn power off. Operation any of the functions will also turn the unit on. In this instance, to turn the unit off, press the On/Off switch.

**Master Volume Control.** The master volume control has several functions. It operates as a master volume control for the overall system and can be used to individually adjust the levels of Bass, Treble, or Surround sound. If any of these functions is selected and not used for a few seconds, the control reverts back to becoming a master volume control.

Seven level indicators around the control show the position of the control. In the extreme counter-clock position all LED's are off. As the control is rotated clockwise the LED's illuminate one at a time until in the maximum position, all LED's are on.

If one of the functions 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 will be illuminated: see TREBLE/BASS CONTROLS below.

**Treble/Bass Controls.** To raise or lower the 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 the 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.

**Mode Selector.** The LED indicator above the Mode switch can operate in two colors, Green and Amber. By pressing the mode switch repeatedly, the mode of operation can change from Stereo to the "Gaming" mode. When the LED is Green the ACS56 is in the Gaming mode and when the LED is amber, the unit is in the stereo mode.

**Surround Channel Volume Level Adjustments.** To adjust the volume level of the surround speakers, in

either the stereo or gaming mode, hold down the Mode button until the level indicators around the Master Volume Control flash On/Off. The flashing LEDs indicate that the master volume control is programmed to adjust the level of the rear speakers. If the control is not actively used for a short while, the control reverts back to becoming a master volume control.

## Placement of Speakers

Some experimentation may be required to obtain the best sound effects in your particular room environment. The subwoofer achieves maximum efficiency when placed on the floor and close to a wall or corner of a room. In this instance the walls behave as an extension of a speaker horn. The subwoofer is not shielded and should not be placed near the monitor. The front satellites can be close to the monitor or stretched out as far as the speaker cords allow. The placement depends on where the listener sits. The surround speakers can be placed slightly behind the listener or as far as the speaker cords allow. Most usually the speakers are placed at ear level or slightly above. The surround speaker stands contain notches for mounting the surround speakers to a wall with screws, if desired. Sound effects may vary depending on how the recordings are made. By rearranging the speakers from time to time the listener will become aware which arrangement gives best results.

Figure 3

