

# *Aztech AMS 5.1 Multi-Channel Speakers*

*...the perfect home theatre with  
AMS TheatreSurround!*



*Read on to explore what Aztech AMS 5.1 can offer you !*

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## Part 15 FCC Compliance Statement

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

## Operating Environment

For Home or Office Use

### Notice

This equipment has been tested and found to comply with the limits of 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:

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

### Caution

To comply with the limits for the Class B digital device according to Part 15 of FCC Rules, this device must be installed in computer equipment certified to comply with the Class B limits. All cables used to connect the computers and peripherals must be shielded and grounded. Operation with non-certified/shielded cables may result in radio/TV interference.

### Modification

Any modification not expressly approved by the manufacturer of this device could void the user's authority to operate the device.

### Party Responsible for Product Compliance:

*Aztech Labs, Inc.  
45645 Northport Loop East  
Fremont, CA 94538, U.S.A.*

Version 1.0  
P/N: 040-412001-101

# Safety Guidelines

Adhere to the following safety guidelines when using your equipment to reduce the risk of fire, electric shock and injury to people.



Understand all instructions in the manual. Follow all instruction labels found on the equipment.



Except for the power adapter supplied, the equipment should not be connected to other adapters/power supplies.



Do not place the equipment under direct sunlight or next to a radiator. Make sure there is sufficient space surrounding the equipment to prevent overheating. (This is particularly important if you wish to place the equipment on a television)



Never spill liquid of any kind on the equipment.



Unplug the equipment from the socket outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a soft, damp cloth for cleaning.



Do not use the equipment near water, for example, near a bathtub, kitchen sink, or laundry tub.



Do not place the equipment on an unstable stand or table. The equipment may fall and become damaged.



Refer to qualified servicing personnel under the following conditions:

- when liquid is spilled into the equipment
- when the equipment is exposed to rain or water
- when the equipment does not function correctly even when operating instructions are followed
- when the equipment exhibits a distinct change in performance

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1

## Introducing AMS 5.1

***Congratulations on your purchase of the Aztech AMS 5.1 Multi-Channel Speakers!***

The Aztech AMS 5.1 Multi-Channel Speaker System is a high-end speaker system consisting of a **powered Subwoofer**, **5 Satellite Speakers**, a **Digital Control Unit (DCU)** and a **Remote Controller**.

The 5 satellite speakers are magnetically shielded. Interference with nearby monitor, television or other visual equipment is thus eliminated, preventing picture distortion.

The controllers - DCU and Remote Controller, facilitate easy access and control. Designed for home entertainment, the Remote Controller allows full control from the comfort of your couch!

The AMS 5.1 also provides pre-defined environmental settings such as Jazz, Pop, Rock and Cinema. You can even program and save your own settings and configurations!

The AMS 5.1 is compatible with all desktop PCs and audio/visual equipment such as television, laser disc player and DVD player.

***The Aztech AMS 5.1 Multi-Channel Speaker System delivers the finest home-theater quality sound to the desktop, bringing games, music and movies to life!***



# 2 Before You Begin

*Go through the checklist and power specifications before connecting your AMS 5.1 speakers...*

Before you start unpacking and connecting your system, please make sure that you have the following items inside your AMS 5.1 package. For any items that are missing, please contact your dealer immediately.

- ✓ 1 Subwoofer
- ✓ 5 satellite speakers with RCA connectors  
(5 mounting brackets; 5 mounting screws)
- ✓ Remote Controller
- ✓ Digital Control Unit (DCU)
- ✓ This User Manual
- ✓ Warranty Card
- ✓ 1 Stereo Jack Cable (Green)
- ✓ 1 Stereo Jack Cable (White)
- ✓ Power Adapter

## 2.1 IMPORTANT - Before Applying Power !!

### **For USA and Canada**

Units shipped are designed for operation on 120volts AC only.

### **For United Kingdom (UK), Singapore, Malaysia and Hong Kong (HK)**

Units shipped are designed for operation on 230volts AC only.

### **For Europe**

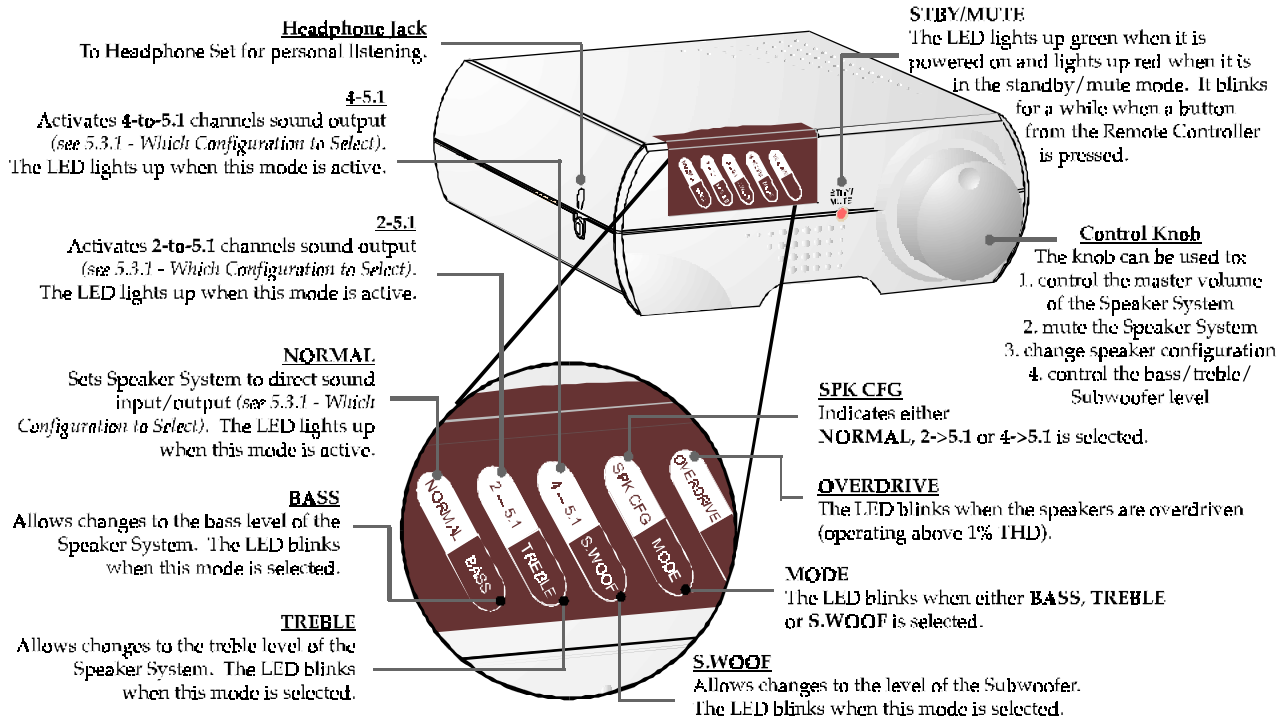
Units shipped are designed for operation on 230volts AC only.

### **For Australia, New Zealand and Europe**

Units shipped are designed for operation on 240volts AC only.

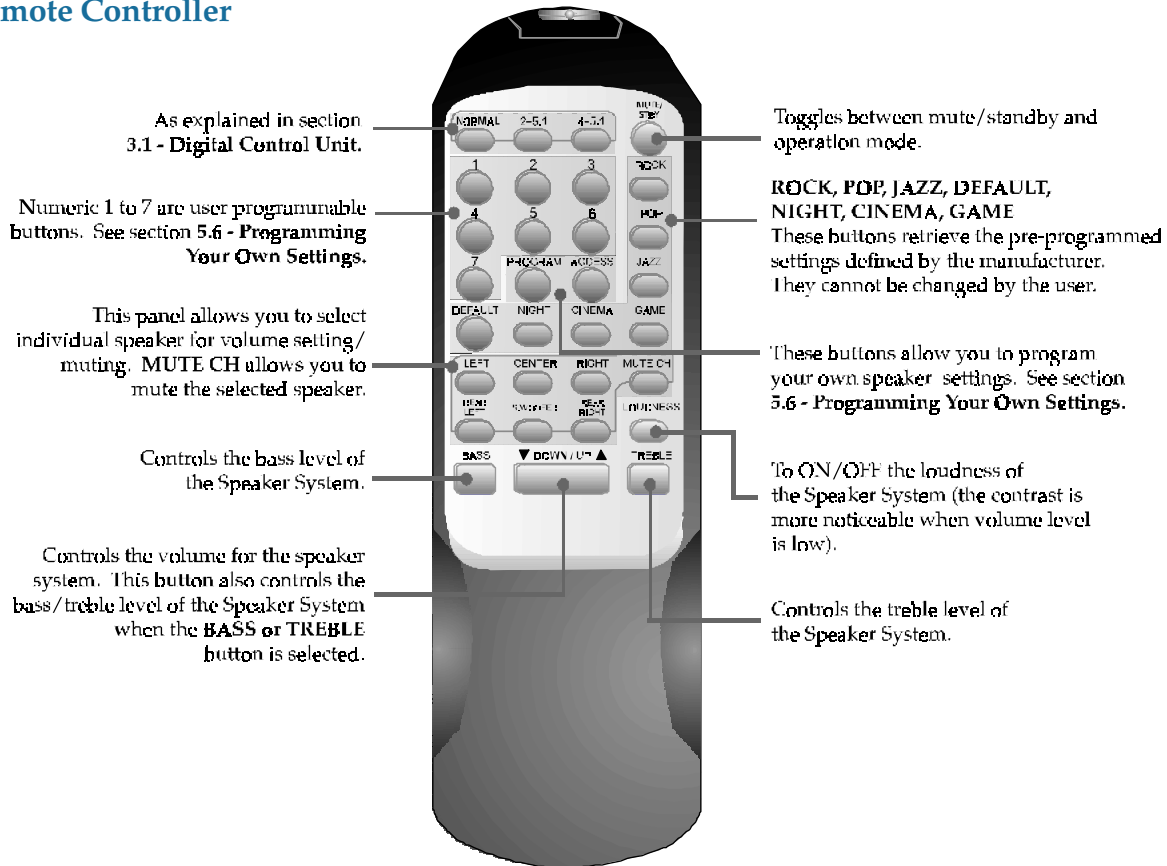
# 3 Function Descriptions

## 3.1 Digital Control Unit (DCU)





## 3.2 Remote Controller

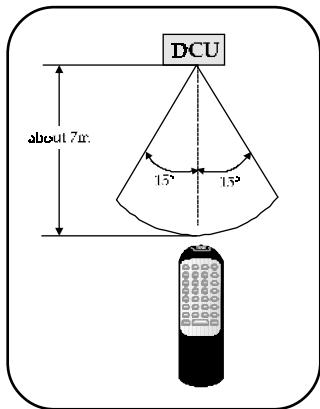


### 3.2.1 Battery Compartment

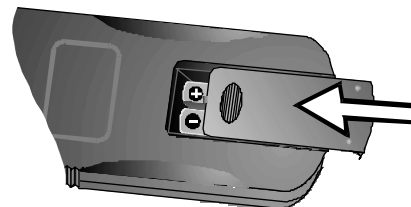
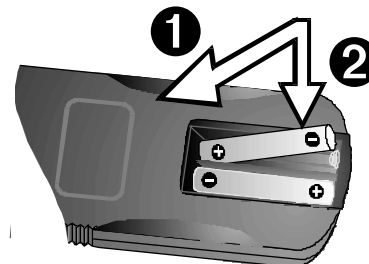
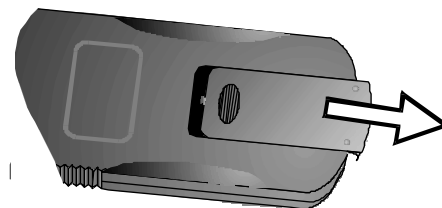
The AMS 5.1 Remote Controller works with two 1.5V 'AAA' batteries.

Please ensure that you have placed the batteries according to the **polarities** shown.

#### Operating Range



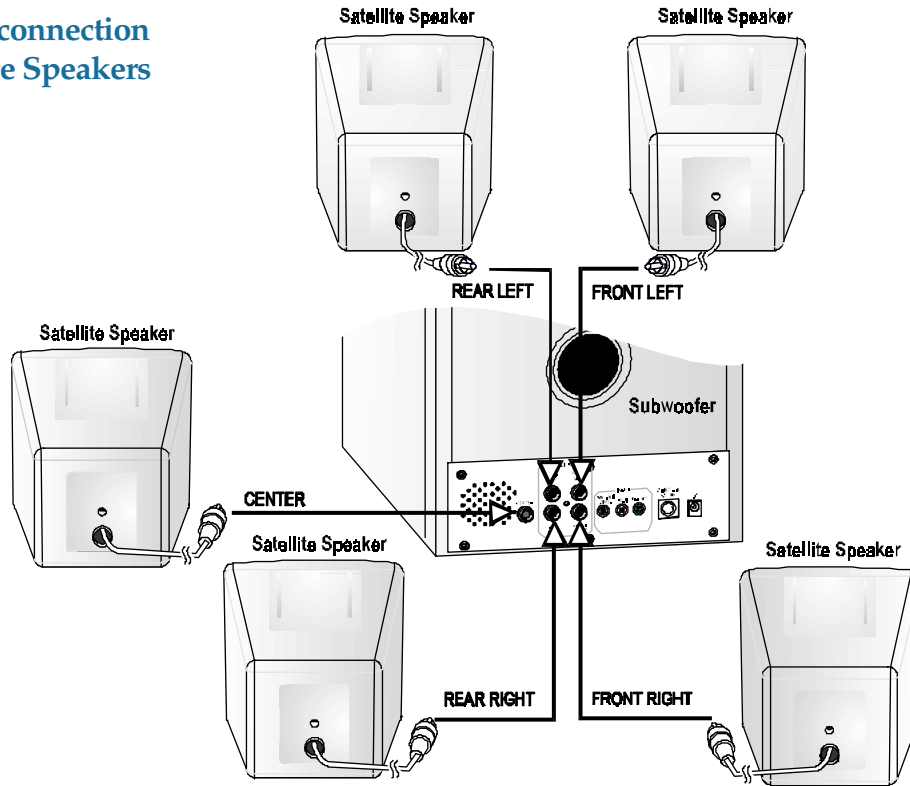
*If you will not be using the Remote Controller for a long period of time, it is advisable to remove the batteries from its compartment to prevent possible damage from battery leakage.*



# 4

## Connecting AMS 5.1

### 4.1 Output connection to the Satellite Speakers



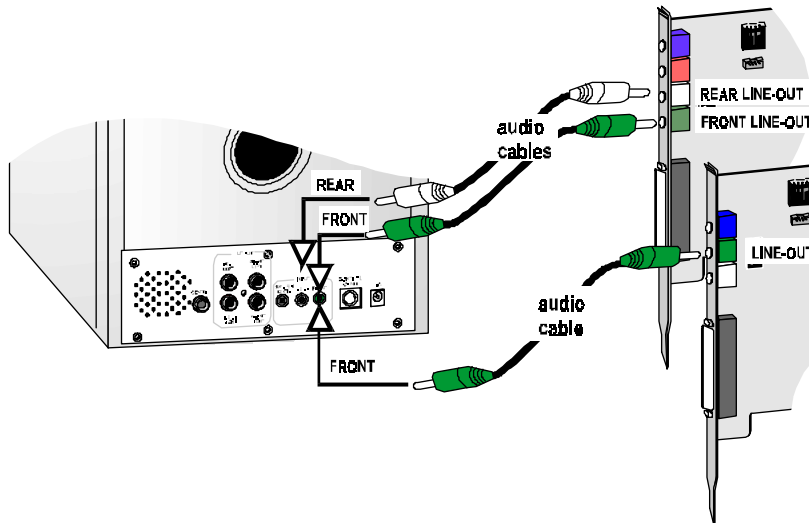
## 4.2 Audio Inputs from PC/AV Player

You may connect the audio inputs from your sound card or audio/visual player to the speaker system as illustrated in the following sections.

### 4.2.1 Sound Card



Some of you may have 2 Line-Out jacks on your sound card and others, only 1. Refer to the following illustration for the correct connection.

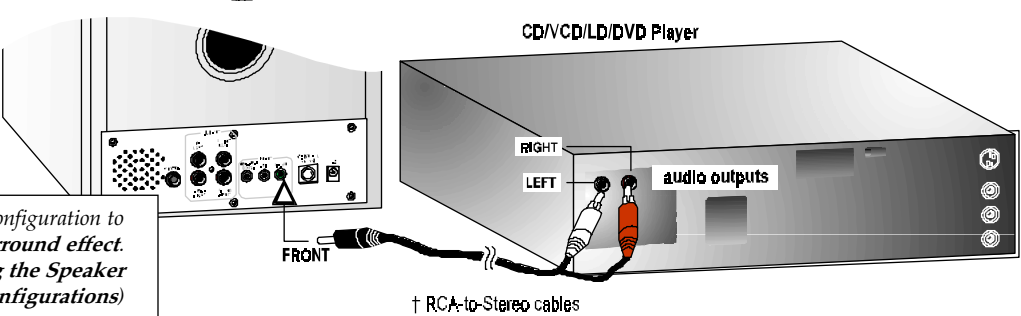


These connections are for sound cards with 2 **Line-Out** jacks (4-channel outputs)  
You may select the **4->5.1** configuration to activate the **AMS TheatreSurround effect**.  
(see section 5.3 - *Selecting the Speaker System Configurations*)

This connection is for sound cards with 1 **Line-Out** jack only (2-channel outputs)  
You may select the **2->5.1** configuration to activate the **AMS TheatreSurround effect**.  
(see section 5.3 - *Selecting the Speaker System Configurations*)

### 4.2.2 CD/VCD/ LD/DVD Player (2-channel output)

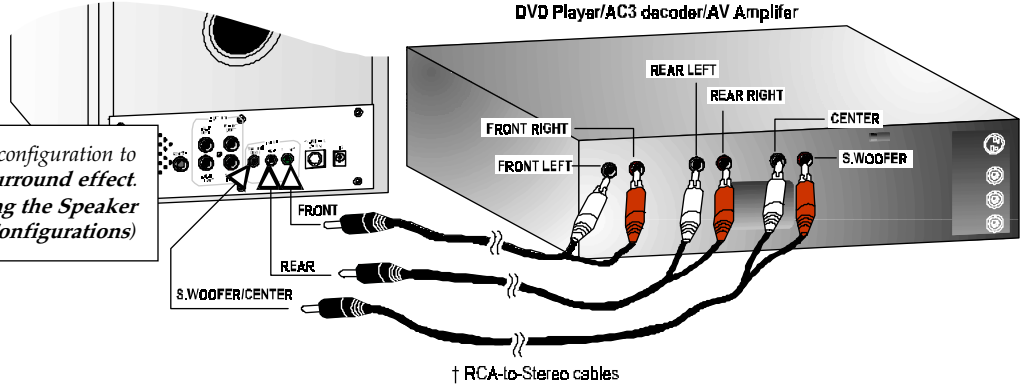
You may select the 2->5.1 configuration to activate the *AMS TheatreSurround* effect. (see section 5.3 - *Selecting the Speaker System Configurations*)



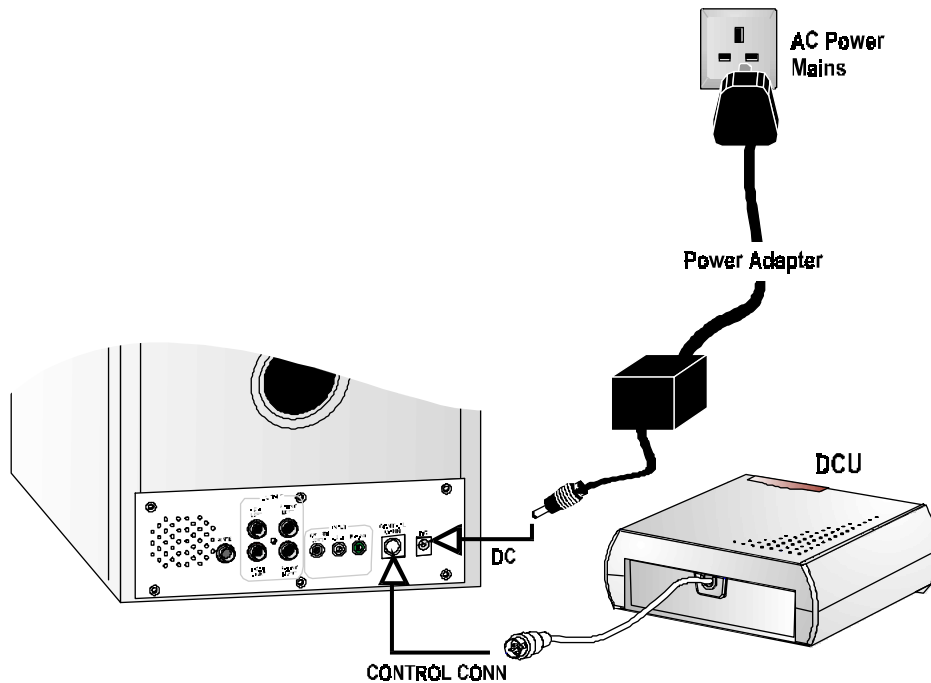
† The RCA-to-Stereo cables are not included in the package.

### 4.2.3 DVD Player/ AC3 Decoder/AV Amplifier (6-channel output)

You may select the *NORMAL* configuration to activate the *AMS TheatreSurround* effect. (see section 5.3 - *Selecting the Speaker System Configurations*)



### 4.3 Inputs from the Mains and DCU



# 5 Operating AMS 5.1


## 5.1 Muting the Speakers

The Mute function can be applied to either the entire speaker set or individual speaker.

### To standby/mute your speaker system




#### From DCU

Press  (Control knob) for more than 2 seconds and release.

OR



#### From Remote Controller








Press . The **STBY/MUTE** LED on the DCU will light up red, indicating that the speaker system is now in mute/standby mode.

To **de-activate** the standby/mute, repeat the same action.

### To mute individual speaker



#### From Remote Controller


Press  followed by the button   
 /    or   
depending on which speaker you want to mute.

#### Example: To mute the Subwoofer

Press  → .

To **de-activate** the mute selection, press the respective speaker again.

#### Example: To unmute the Subwoofer

Press .


## 5.2 Adjusting the volume

The volume can be adjusted for either the entire speaker set or individual speaker.

### To adjust the volume of your Speaker System




From DCU

Rotate  (Control knob) left/right to decrease/increase the volume.

OR








From Remote Controller


Press  to decrease/increase the volume.


### To control the volume of individual speaker



From Remote Controller

1. Press      or

 depending on which speaker you want to have the volume adjusted.

2. Press  to decrease/increase the volume. (Do not exceed 3 seconds, else you need to repeat **step 1.**)

**Example: To increase the volume of your Subwoofer**



Press    





## 5.3 Selecting the Speaker System Configurations



### From DCU

1. Press  (**Control knob**) once.
2. One of the LEDs will start to blink. Immediately rotate  left/right to your desired configuration.
3. The LED for the selected configuration will light up and blink for approximately 5 seconds, after which the LED will light up permanently, indicating that the selection is active.

#### Example: To select 2->5.1 configuration

Press  once → rotate right  to 2-5.1 selection (the LED lights up permanently after blinking for approximately 5 seconds)



*When the LED stops blinking, the control knob will act as the master volume control for the Speaker System.*



### From Remote Controller

Press either  **NORMAL**,  **2->5.1** or  **4->5.1**.

*continue next page...*

*...continued from previous page*

### 5.3.1 Which configuration to select

#### Normal

This mode sets the speaker system to direct input/output configuration. Select this mode for direct audio output. *This configuration is suitable for all modes: 2-channel (stereo), 4-channel as well as 5.1-channel audio.*

#### 2-5.1

The 2-to-5.1 mode changes the conventional 2-channel (stereo) audio streams from your computer or audio/visual equipment to full surround sound effects through the AMS 5.1.

Select this mode if you are connected to 1 audio output on your computer or audio/visual equipment. You will experience the *AMS TheatreSurround* effect!

#### 4-5.1

The 4-to-5.1 mode transforms the 4-channel audio streams from your computer or audio/visual equipment to full surround sound effects through the AMS 5.1.





Select this mode if you are connected to 2 audio outputs on your computer or audio/visual equipment. The simulated center channel effect will be activated and you will experience the *AMS TheatreSurround* effect!

**See section 4.2 - Audio Inputs from PC or AV Player.**

## 5.4 Adjusting the Bass, Treble and Subwoofer level



### From DCU

1. Press  (**Control knob**) twice.
2. The LED for **MODE** will start blinking, indicating that you can now select either **Bass**, **Treble** or **Subwoofer**. At the same time, the **BASS** LED will blink. (The LEDs will only blink for approximately 5 seconds.)
3. To adjust the **bass level**, rotate  left/right to decrease/increase.  
*(Rotate the Control knob before the LEDs stop blinking!)*
4. To proceed to **TREBLE** mode, press  when the LEDs are still blinking. Now, the LED for **TREBLE** will blink. Rotate  to decrease/increase the treble level.





### Example: To increase the Subwoofer level

Press  x4 (the LED for S.WOOFER blinks)  rotate  right to increase the Subwoofer level.

*(The blinking will stop after approximately 5 seconds. The Control knob will again acts as the master volume control for the speaker system.)*



### From Remote Controller

1. Press either  ,  
 or  .
2. Press  to decrease/increase the bass, treble or Subwoofer level.










*If the LED for **MODE** stops blinking before you proceed to the next mode, you have to repeat from step 1.*

## 5.5 Selecting the Environmental Settings


The different environmental settings are: **ROCK**, **POP**, **JAZZ**, **DEFAULT**, **NIGHT**, **CINEMA** and **GAME**.  
Play around for the settings that you prefer under different environments!



### From Remote Controller

1. Press       or , depending on which environmental effect you prefer.

**Example: For games**

Press .

The setting will be changed immediately.

## 5.6 Programming Your Own Settings

Adjust your own volume, bass and treble settings. You may use one of the pre-programmed settings: **ROCK**, **POP**, **JAZZ**, **DEFAULT**, **NIGHT**, **CINEMA** or **GAME** as a starting point.



### From Remote Controller

Press  ⇒  ⇒ 'X'.

('X': you can select numeric 1-7, depending on your preference)

**Example: To store in numeric 1.**

Press  ⇒  ⇒ .

### To recall your setting



#### From Remote Controller

Press  ⇒ 'X'.

('X': the numeric that you have selected to store your settings)

**Example: To recall setting stored in numeric 1.**

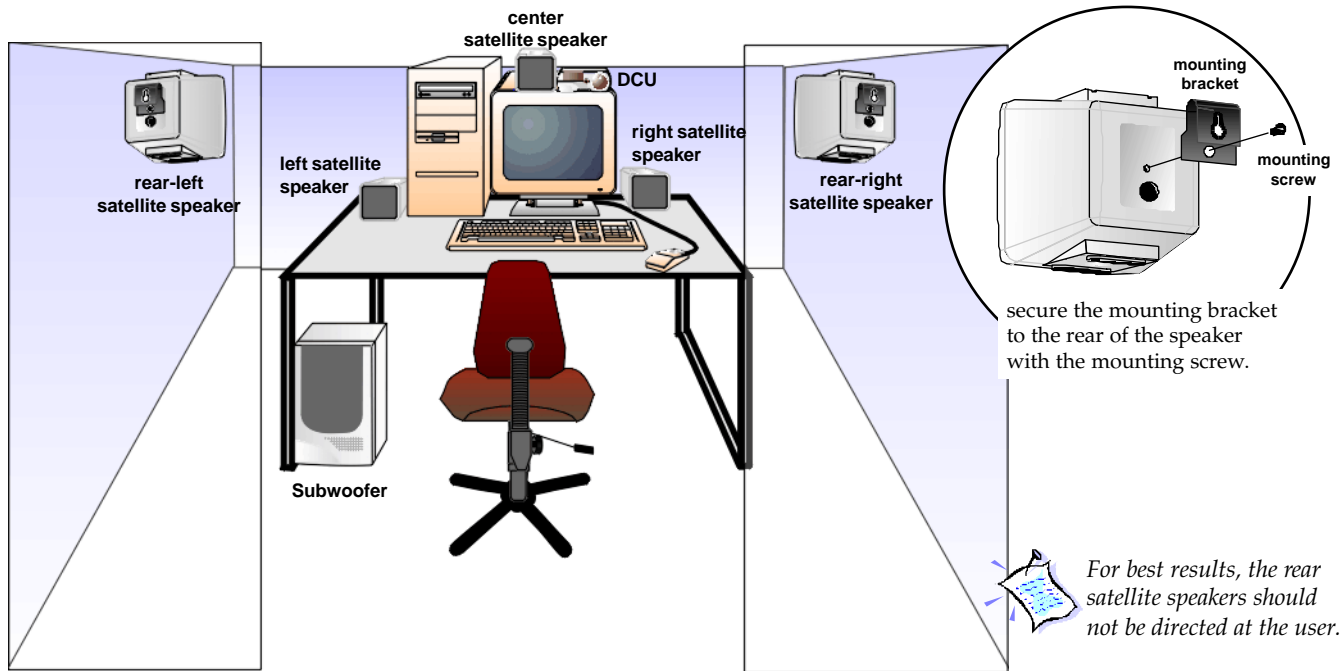
Press  ⇒ .



*Storing different settings to the same numeric will overwrite your previous settings.*

# 6 Recommended Positioning for AMS 5.1

The AMS 5.1 gives you the flexibility of placing your satellite speakers either on the desk, shelves or hanging them up on the walls. The following shows the recommended position for the best sound effect.



# 7

## Frequently Asked Questions

Review this chapter for the most commonly asked questions and their possible solutions...



**There is no sound from all the Satellite Speakers/Subwoofer.**



Check the following:

1. The **power supply** from the Subwoofer is connected to the Mains and is powered on.
2. Cables from the Satellite Speakers are connected to the respective jacks on the Subwoofer as illustrated in section **4.1 - Output connection to the Satellite Speakers**.
3. The **mute or standby** function is not activated (the LED for **STBY/MUTE** on the DCU should light up green).
4. The volume of the Speaker System is not adjusted to the lowest.
5. The input source (example, PC/CD/LD/DVD player) is connected properly (as illustrated in section **4.2 - Audio Inputs from PC/AV Player**) and is playing audio.



**There is no sound from the individual Satellite Speaker(s).**



Check the following:

1. Make sure that **MUTE CH** for the respective Satellite Speaker(s) is not activated.
2. You should set the speaker configuration to either **2-5.1 or 4-5.1 mode** in order to hear sound from all the speakers. If you are connected to 1 audio output from your computer/AV equipment, select 2-5.1 mode. If you are connected to 2 audio outputs, select 4-5.1 mode. See section **5.3.1 - Which Configuration to select**.
3. Check the cable connections for the respective speakers. Make sure that the cable connections are not loose. If necessary, unplug the cables and plug in again.



You can also press one of the **Environmental Settings** (example, Cinema) to un-mute any muted Satellite Speakers.



**There is no response from the Speaker System when I press from the Remote Controller.**



*Check the following:*

1. *You are operating your Remote Controller within the operating range (see section 3.2.1 - **Operating Range**).*
2. *You have placed the batteries in the compartment according to the polarities indicated.*
3. *Your batteries may be getting weak. Replace both batteries with new ones.*



**The operating distance between my Remote Controller and DCU becomes noticeably shorter. Why is it so ?**



*This is an indication that your batteries are getting weak. Replace both batteries with new ones.*



*If going through the suggested steps still do not solve your problem, please contact your dealer immediately.*



# 8

## Technical Specifications

### 8.1 Speaker Features

#### 8.1.1 6 Channel Active Speakers

- 58 Watts RMS Output Power
- Five 7 Watts RMS 4 Ohms 3" Satellite Speakers
- One 23 Watts RMS 4 Ohms 5.5" Active Subwoofer
- One Digital Control Unit with 9-feet (3 meters) Interface Cable
- One Remote Controller
- Three 9-feet (3 meters) Satellite Cables
- Two 18-feet (6 meters) Satellite Cables

#### 8.1.2 Supports 2-channel, 4-channel and 5.1-channel inputs

- Supports 5.1 Channel Analog Input

#### 8.1.3 AMS Theatre Surround for 2-channel surround Movie SoundTrack

- Supports 2 Channel Analog Input with Selection for Simulated Center and Rear Channel Output

#### 8.1.4 AMS Theatre Surround for 4-channel Input

- Supports 4 Channel Analog Input with Option for Simulated Center Channel Output

### 8.2 Speaker Components

#### 8.2.1 Active Subwoofer

- 23 Watts RMS 4 Ohms 5.5" Speaker Cone
- External DC Power Supply
- 110 or 230V AC Input
- Sturdy MDF Wood Cabinet for deep rich bass

#### 8.2.2 Satellite Speakers

- 5 Satellite Speakers – Center, Front Left, Front Right, Rear Left and Rear Right

- 7 Watts RMS 4 Ohms 3" Speaker Cone
- Wide frequency range
- Magnetically Shielded
- One 9-foot (3 meters) Center Speaker Cable
- Two 9-foot (3 meters) Front Speaker Cable
- Two 18-foot (6 meters) Rear Speaker Cable

### 8.2.3 Digital Control Unit

- MicroController Processing Unit
- Rotary Pulse Switch for Control Knob
- 6 LED Indicators for Power, Standby and Speaker Configuration Settings
- Headphone Output
- Power Standby Switch
- Infra-Red Receiver
- 9-foot (3 meters) Interface Cable with 8 pin Mini-DIN Connector

### 8.2.4 Remote Controller

- Infra-Red Transmitter
- Requires two 1.5V 'AAA' Battery

## 8.3 Interfaces

### 8.3.1 Active Subwoofer

- 3.5mm jack for Front-Channel Speaker Input (Green)
- 3.5mm jack for Rear-Channel Speaker Input (White)
- 3.5mm jack for Center-Channel Speaker Input (Black)
- 5x RCA connector for Satellite Speaker Output
- 8-pin Mini-DIN connector for Digital Controller Unit

### 8.3.2 Digital Control Unit

3.5mm jack for Headphone Output

### 8.3.4 Power Supply

1x DC Socket for Power Supply

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# Notes