

MegaTheaterTM

AVS550

*DVD/Tuner Pre-Amplifier
User Manual*



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 risk of electric shock to persons.



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 this product.

WARNING

DO NOT OPEN

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

AVISIQUE

POUR EVITER TOUT RISQUE DE CHOC ELECTRIQUE, NE PAS DEMONTER LE COUVERCLE DU HAUT PARLEUR. AUCUN ENTRETIEN DES PIECES INTERIEURES N'EST REQUIS. TOUT SERVICE D'ENTRETIEN NE DOIT ETRE EFFECTUE QUE PAR DU PERSONNEL D'ENTRETIEN QUALIFIE.

READ AND HEED IMPORTANT SAFETY WARNING ON REAR OF ENCLOSURE

CAUTION:

TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, INSERT FULLY.

ATTENTION:

POUR EVITER LES CHOCES ELECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

IMPORTANT NOTICE:

THE SERIAL NUMBER FOR THE PRODUCT IS LOCATED ON THE REAR PANEL. PLEASE WRITE THIS NUMBER DOWN AND KEEP IT IN A SECURE AREA. THIS IS FOR YOUR SECURITY.

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exist from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



DISC PRECAUTIONS:

MOISTURE OR DEW – May form on the lens or disc if the product is suddenly moved from a cold environment to a warm one, and prevent the unit from reading the disc. If this happens, turn the product on for a least one hour before inserting a disc.

DAMAGED DISCS – Never play cracked, warped, or otherwise damaged discs as they may harm the mechanism.

HANDLING DISCS –

- Do not touch the play side of the disc. Always handle the disc by the edges.
- Do not attach paper, tape or labels to the disc except for purpose-designed CD labels applied with an applicator intended for the purpose. Out of balance discs may damage the mechanism.
- Keep discs away from direct sunlight and excessive heat.
- Keep disc in proper storage cases when not in use.

DISC CLEANING –

- Before playback, wipe the play surface of the disc outwards from the center with a clean, soft, lint-free cloth.

STATEMENT OF COMPLIANCE – 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, you are encouraged to try to correct the interference by one or more of the following measures:

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

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Thanks for choosing the MegaTheater AVS550 as the heart of your home theater system. We at Cambridge SoundWorks believe that it is the ideal utilization of high technology to simplify the home entertainment experience.

The AVS550 will entertain you for many years with its flawless playback of DVD movies and high-resolution DVD-Audio discs, sensitive AM and FM radio reception, and playback of normal CD, CD+G, HDCD, and MP3 or WAV music files on recordable CD or DVD discs. It will also play back DVD-R, DVD-RW, DVD+R, DVD+RW, VCD and SVCD discs you burn on your PC from video files such as home movies from your digital camcorder. In addition, the AVS550 will display your JPEG digital still photos from CD on your TV screen. You can even produce a "slide show" with musical background by saving your photos and background music MP3 file on the same disc.

The AVS550 includes all the inputs and outputs necessary for most home theater system needs. There are two sets of rear panel A/V inputs and a recording output to connect a VCR and a satellite receiver or cable box. A front panel input can be used for quick connection of a camcorder, video game, or portable music player. Optical and coaxial digital inputs are also provided to connect up to two set top boxes (cable TV, HDTV, or satellite receiver) equipped with a digital output.

The built-in 5.1 surround decoders (Dolby Digital, Dolby Pro Logic 2 and DTS) will accurately play back any contemporary DVD when connected to a suitably powered loudspeaker system or multichannel power amplifier. The 24 bit 192kHz Analog to Digital converters make the AVS550 fully compatible with stereo and 5.1 DVD-Audio discs.

Finally, the AVS550 provides a superb picture when connected to a High Definition TV thanks to its advanced Super Smart™ progressive scan circuitry. This unique circuit analyzes the characteristics of the source material on DVD and automatically selects the proper de-interlacing algorithm for fast motion or still scenes, as well as 3:2 pulldown to convert the frame rate of film sources to that of video. The result is the clearest, sharpest picture - totally free of motion artifacts or the visual stutter sometimes seen when movies, or movie segments originally shot on film, are converted to video.

If You Are New To Digital Discs

DVDs are divided into one or more sections called "titles." A number corresponding to each title is displayed on the front panel Vacuum Fluorescent Display (VFD). You can select the different titles using the TITLE key on the remote control. The ability to bypass titles on a particular DVD is controlled by the maker of the specific DVD, and may not be available on all DVDs.

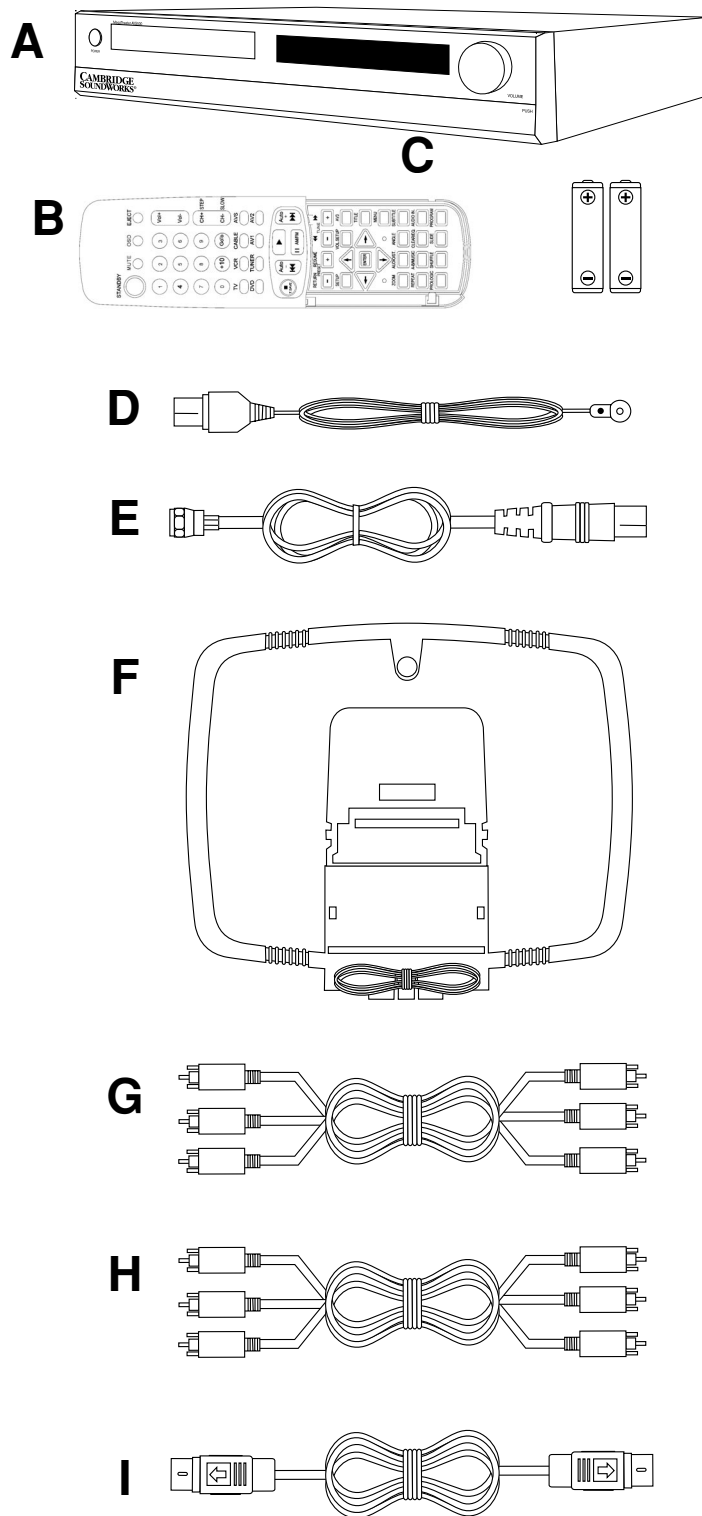
Each title is divided further into "chapters". You may navigate chapters using the skip keys (|<, >|), using the numerical keypad, or within the DVD's on-screen menu.

CD and VCD discs are divided into "tracks". You may select the tracks using the skip keys or the numeric keypad.

MP3, WAV and Picture CDs are organized in files that may be contained within folders. Use the on-screen "Smart Navi" function to navigate through the folders on the disc and select the files you wish to play. Some features of DVD playback are automated by "flags" in the digital bitstream that let the disc producer tell your player the optimum playback mode. The AVS550 will respond to these flags where appropriate and automatically select the proper soundtrack or technique for producing a progressive scan picture on high definition TV sets. Likewise, the disc producer may activate or deactivate some features of the format. If you find the occasional disc that does not offer some of the features explained in this manual, it is not the result of a defect of the AVS550.

CARTON CONTENTS

- A. One AVS550 main control unit.
- B. Remote control
- C. Two AA Batteries
- D. FM Antenna
- E. FM antenna to F-connector adapter cable.
- F. AM Loop antenna
- G. A/V cable with three RCA plugs (red, white, yellow) on each end.
- H. Component video cable with three RCA plugs (red, green and blue) on each end.
- I. S-Video cable

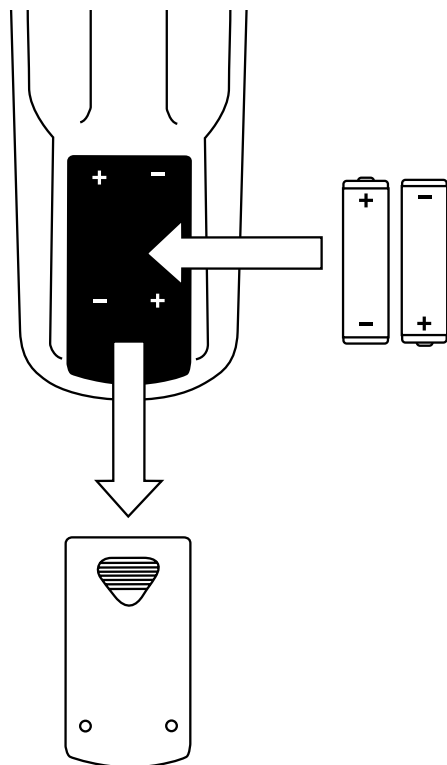


REMOTE CONTROL

Installing The Remote Control Batteries

Remove the lid of battery chamber in back of the remote control and install the two AAA batteries (included). Observe and follow the polarity marks. Replace the lid.

When the batteries become weak, replace them immediately. Old batteries may leak highly corrosive fluid and permanently damage the remote control.



Button Locations and Functions

Most operation of the AVS550 is done using the remote control. Basic controls are provided on the front panel for emergency use in the event of battery failure or a lost remote.

1. **STANDBY:** Use this to turn the AVS550 on and off for normal use.
2. **MUTE:** Press to mute the main audio output. Press again to restore output.

3. OSD:

- When playing a DVD, press once to show an On-Screen Display of the current title and chapter. Press again to display the remaining time. Press a third time to display chapter elapsed time. Press a fourth time to display chapter remaining time. A fifth press will turn the On Screen Display off.
 - For all CD, VCD, SVCD discs, press once for single track elapsed time. Press again for single track remaining time. Press a third time for total elapsed time. The fourth press displays total remaining time, and the fifth press turns the OSD off.
 - For MP3 discs, one press displays file elapsed time, the second press turns the OSD off.
4. **EJECT/LOAD:** Press to eject the disc tray, or to load the disc tray.
 5. **NUMBER KEYS:** Use for direct access to chapters, titles, and tracks (not all discs allow direct access). You may also start a disc from a particular title and chapter, or at a particular time.
 - To skip to a track or chapter while playing a disc, press GOTO, then select the track or chapter number desired (use +10 key for tracks above 9), then press ENTER.
 - To start playing a specific title at a specific chapter, press GOTO, then use the < > keys to determine the desired title number. Enter the title number using the number keys. Use the < > keys to determine the desired chapter and enter the chapter number using the number keys.
 - Press ENTER to play the disc from the point you selected.
 - To start playing a disc from a specific time, press GOTO twice. Use the < > keys to highlight Title determine the desired title number. Enter the title number using the number keys. Use the < > keys to determine Time and enter it using the number keys. You must enter a 0 first for hours less than 10. Press ENTER and play will begin from your selected time.

- You may also directly access radio station presets 1-10 by pressing the appropriate number button during radio play.

6. VOLUME: Press to increase or decrease volume.

7. CH-/Slow:

- DVD, VCD, SVCD - Press to engage in slow motion playback. The first press is 2x Slow (i.e. 1/2 normal speed), the second press is 4x, third press is 6x, and the fourth press is 8x. A fifth press returns to normal speed.

- Tuner - Select next lower numbered preset radio station.

CH+/Step:

- DVD, VCD, SVCD - Press to step to the next frame manually.

- Tuner - Select next higher numbered preset radio station.

8. REMOTE SOURCE SELECT: Press the button that corresponds to the device you wish to control. TV, VCR, and CABLE may be programmed with codes from other remotes during initial setup. See "Learning IR Codes."

9. SOURCE SELECT: Use to select the A/V Source to be played by the AVS550. The button for AV3 is located below the door covering the lower half of the remote.

10.PLAY: Use to start disc play. Also used to step between Equalizer preset curves.

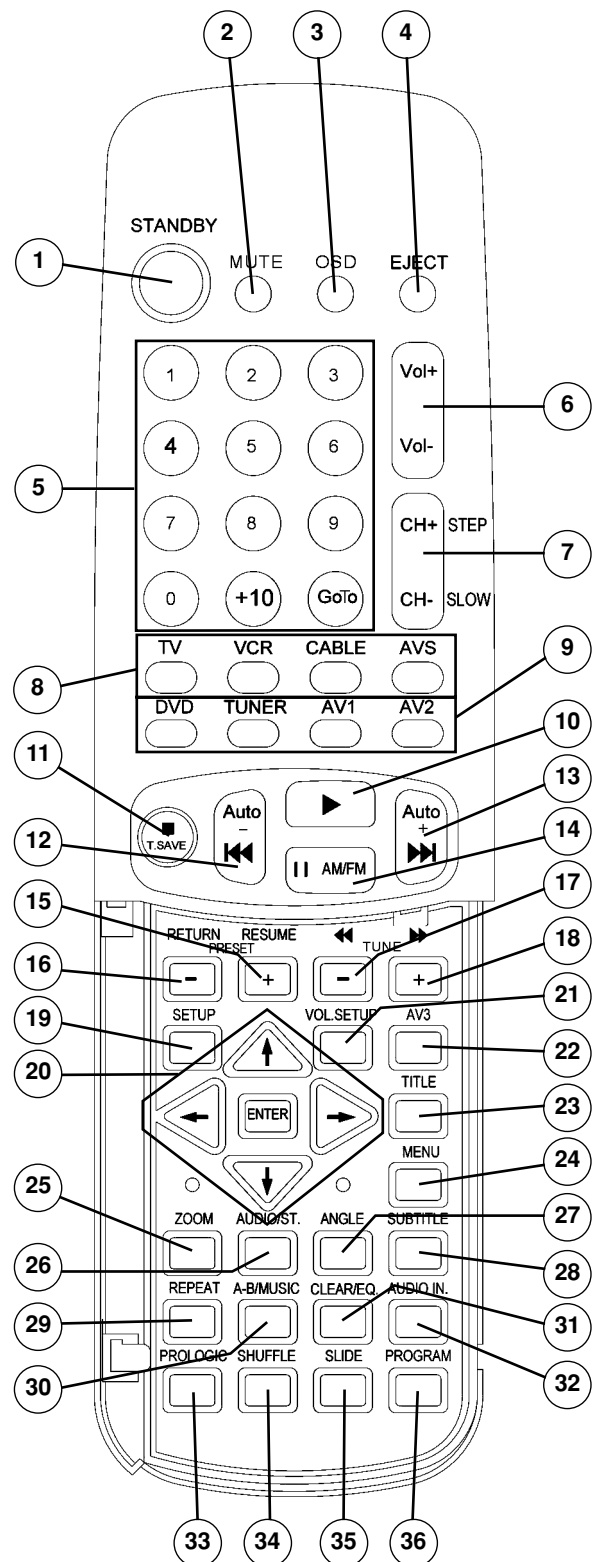
11.STOP / TUNER SAVE:

- For DVD press the STOP key once, the unit enters "memory stop." Play resumes from the same point when PLAY is pressed. Press STOP a second time to resume from the disc's beginning with the next press of PLAY.

- In TUNER mode the STOP Key is used to save the currently tuned station as a preset.

12. I<< / AUTO -:

- Disc play - Selects PREVIOUS track or Chapter.
- Tuner - Seeks the next lower station.



13. >>I / AUTO +:

- Disc Play - Selects NEXT track or Chapter.
- Tuner - Seeks the next higher station.

14. PAUSE / AM/FM:

- Disc Play - Pauses playback
- Tuner - Selects AM or FM band

15. PRESET +: Use to select a specific preset location to save a radio station.

- Slide Show Mode - select transition mode between slides. Refer to Viewing JPEG's on pg. 25.

16. PRESET -: Use to select a specific preset location to save a radio station.

17. << / TUNE -:

- Disc Play - Selects fast reverse playback. Each press increases speed of playback 2x > 4x > 6x > 8x > Normal.
- Tuner - Manual tune one step lower in frequency.

18. >> / TUNE +:

- Disc Play - Selects fast playback. Each press increases speed of playback 2x > 4x > 6x > 8x > Normal.
- Tuner - Manual tune one step higher in frequency.

19. SETUP: Use to enter the AVS550 main setup menus. Disc play will stop when selected. Press the button again to exit the menu when you are done.

20. CURSOR CONTROL: Press these buttons to navigate through menus. Use the ENTER key to make your selection.

21. VOL.SETUP: Press to adjust the volume of individual channels. (Adjustment may be made in DVD or tuner source mode only.)

22. AV3: Selects AV3 source input.

23. TITLE: The unit will return to the disc title page. You may navigate and make your selection using the CURSOR, ENTER and PLAY keys.

24. MENU: Press to select the disc menu for the current title. This may vary depending on how the par-

ticular disc is mastered. If there is no menu level, this button will select the current title.

25. ZOOM: Each successive press zooms the image 1.5x, 2x, and 3x. Press again to revert to normal size.

26. AUDIO/ST:

- DVD playback - Selects the available audio tracks on a DVD. This feature is not available on all DVD's.
- Tuner - Toggles FM reception between Stereo and Mono.

27. ANGLE: Selects different view angles if supported by the DVD.

28. SUBTITLE: Selects different subtitles available on the DVD. Not all DVDs support subtitle selection from this key.

29. REPEAT: Repeats a chapter or title on DVD, and disc, folder or track on CD and MP3 playback.

30. A-B / MUSIC: Repeats a user-defined section of a DVD, CD or MP3 file.

- Press the button once at the start of the section you wish to repeat, press it again at the end of the selection. Press the button again to cancel A-B repeat.

- In Slide Show mode, this key is used to select the background music file if desired.

31. CLEAR / EQ: Clears last entry when programming.

32. AUDIO IN: Press to toggle between analog and digital inputs when using AV1 or AV2 source

33. PROLOGIC: Press to select the desired Dolby Pro Logic 2 mode for Dolby Surround or stereo sources. Each press selects the next mode.

34. SHUFFLE: Plays CD, WAV, and MP3 music tracks, or JPEG files in random order.

35. SLIDE: Selects Slide Show mode for JPEG Photo viewing.

36. PROGRAM: Use to program a playing sequence for individual CD tracks.

Learning I.R. Codes:

You may teach the AVS550 remote control the codes from up to three other remote controls. Once you have programmed the new codes, the AVS550 remote will operate your entire system.

1. Press and hold the REMOTE SOURCE button (TV, VCR, or CABLE) you wish to program for 3 seconds until the status LED above the ANGLE button illuminates a steady GREEN.
2. Face the remote whose command you wish to learn (source remote) towards the small window above the ZOOM button of the AVS550 remote. Keep them approximately 3-4 inches apart.
3. Press the button on the source remote that you wish to teach the AVS550 remote. The LED will turn AMBER.
4. Press the button on the AVS550 remote where you want to assign the new code. When the command was successfully learned the LED on the AVS550 remote illuminates a steady GREEN. If the Green LED flashes, there was an error and you must try again.
5. The remote is now ready to learn the next command. Press the next button on the source remote you wish to learn and repeat the process.
6. Repeat as needed until all the commands you need to operate the system are learned. After 10 seconds of inactivity the remote will leave learning mode, the green LED will extinguish, and the remote control is ready for use.

Hint: Only save the commands you need to use from the source remote. There is usually no reason to save all the commands. It may be easiest to combine selected commands from various sources under one REMOTE SOURCE button. For example, if you always use a cable box or satellite tuner it will be easier to save the TV input source switching and cable box channel selection buttons under TV. You will not need to save the channel commands from the TV.

FRONT PANEL AND DISPLAY

1. **STANDBY** - Turns the unit "on" and "off" in normal operation.
2. **VFD** - Vacuum Fluorescent Display. Shows player status.
3. **POWER LED** - Indicates the presence of AC power. This LED will remain lit in standby mode when the main power switch (on the rear panel) is engaged.
4. **VOLUME** - Controls volume in 40 steps.
5. **OPEN/CLOSE** - Opens and closes the disc drawer.
6. **PLAY** - Starts play of the disc.
7. **PREVIOUS TRACK/CHANNEL** - Selects previous track on a disc, or selects the next lower radio preset.
8. **NEXT TRACK/CHANNEL** - Selects the next disc track or the next higher radio preset.

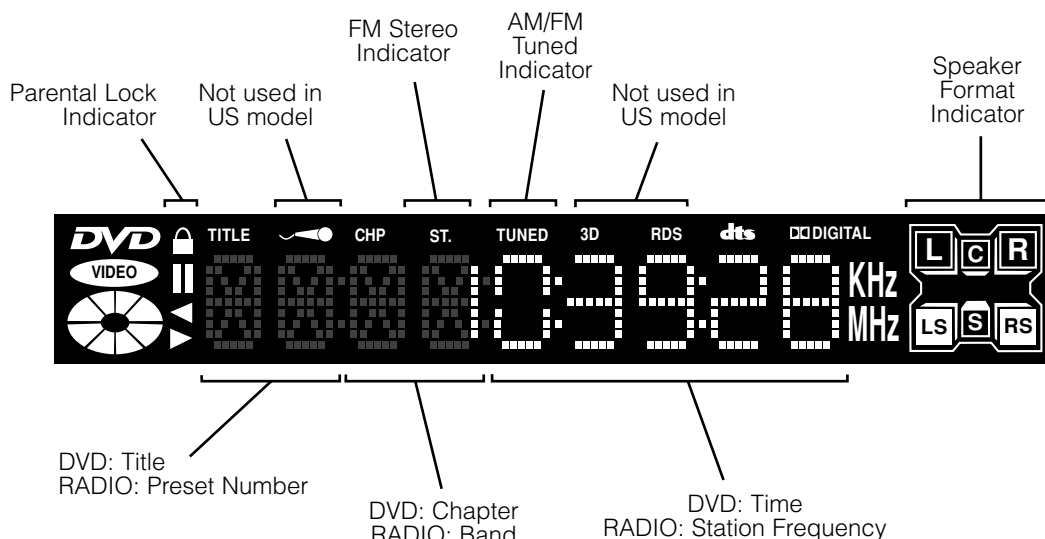
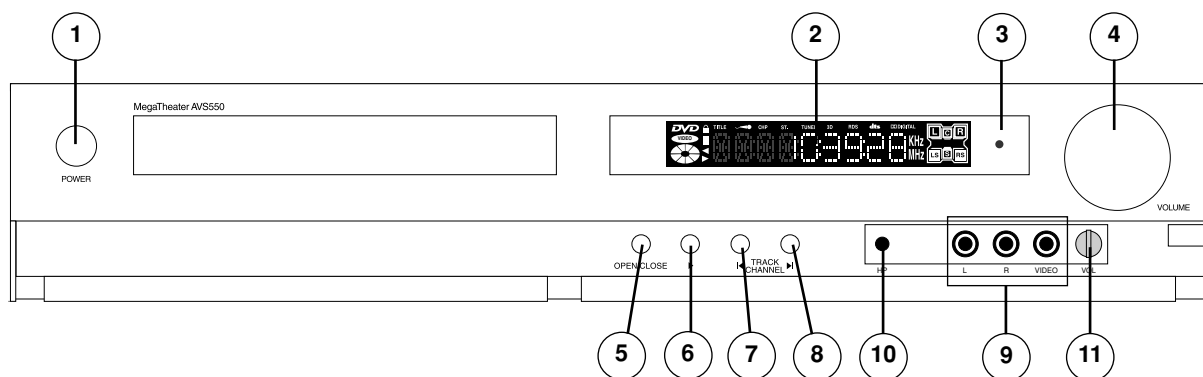
9. **AV3 IN** - Composite video and stereo analog audio inputs for external A/V source.

10. **HEADPHONE jack** - Output for headphones with a 3.5mm miniplug..

11. **HEADPHONE VOLUME** - Controls headphone volume independently of the main system volume.

MAIN POWER SWITCH

A Main power switch is located on the rear panel. This switch should normally be left ON. Switch it to the OFF position when leaving the AVS550 for an extended period of time, such as on vacation, to protect the circuitry against power surges that may occur when you are away.



GETTING STARTED

There are two stages to an efficient installation of the MegaTheater system.

Stage 1 is the placement and connection of all the components. We have made this as easy as possible by color-coding all of the critical connections.

Stage 2 is set-up and adjustment. You tell the AVS550 what type of TV set you have. You may also tell it what type of speakers you have and their placement. You may also set up parental controls and adjust language preferences at this time.

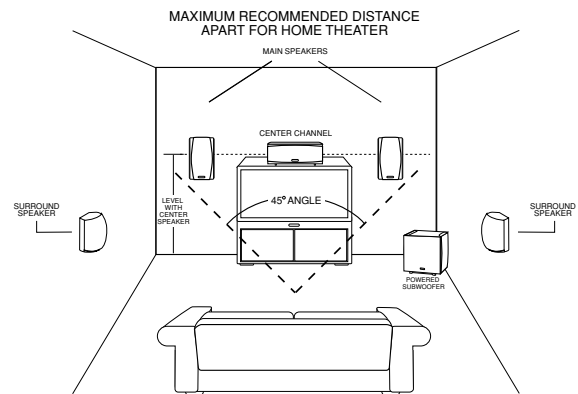
COMPONENT ARRANGEMENT:

The arrangement of the speakers within the room significantly influences their performance. Here are a few guidelines to help you get the most from your system.

- The TV monitor is the focal point of any home theater system. The front left and right speakers should be placed symmetrically a few feet to either side of the TV. These speakers should be no farther apart than the distance of the listener to the speakers.
- The center channel speaker should be placed directly above or below the TV, and ideally at the same distance from the listener as the left and right speakers. Placing the front left, front right, and center speakers at the same height is preferred.
- The surround speakers should be placed on the side walls, slightly to the rear of the listening position. Ideally they should face each other and be at a level about 2-3 feet higher than the listeners' ears. If that is not possible, they may be placed on the rear wall facing forward.
- The subwoofer is best placed in the front half of the room, near the plane of the front speakers. Placing the subwoofer in a corner will provide the most efficient coupling of the subwoofer's energy to the

room. Positioning the subwoofer away from the walls will reduce its output. Room acoustics play a major role in the propagation of bass notes, so it is advisable to experiment with a variety of placement options and stick with the one that gives the strongest bass with the most even response throughout the room.

- The remote control needs a clear line of sight to the AVS550's front panel.



SYSTEM CONNECTION

Determining Your System Setup:

There are a variety of system configurations you can select, depending on the other equipment you wish to connect to your MegaTheater system.

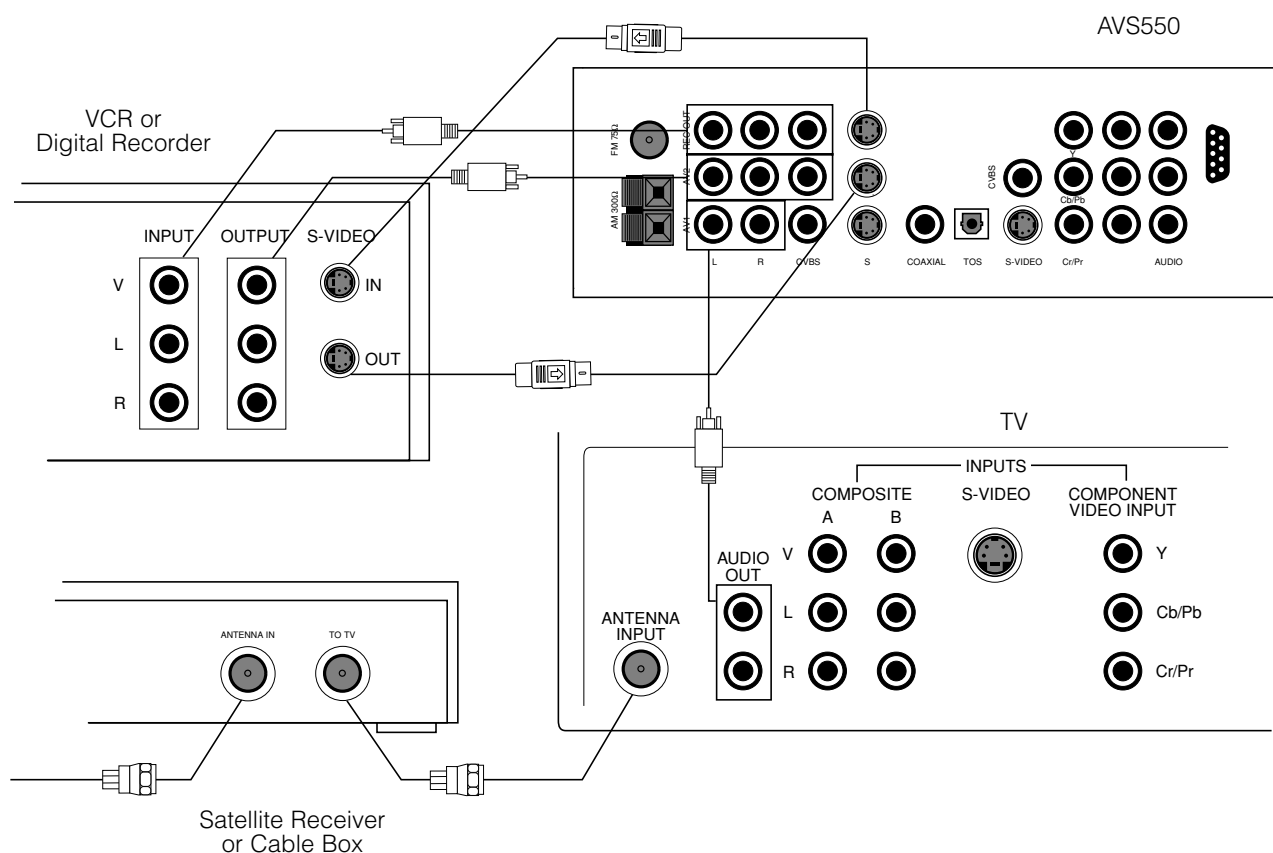
Option A: The simplest system consists of the MegaTheater and a TV set. A cable box or satellite receiver may connect to your TV's antenna input and is viewed by tuning your TV to channel 3 or 4.

Use this diagram if:

- A. You do not have a cable box or satellite receiver and use your TV tuner to select channels.
- B. You have a basic cable box connected to your TV by the antenna connection.

1. Connect the video output from the MegaTheater to your TV's video inputs to watch DVD movies.
2. Connect the TV's L & R audio outputs to an auxiliary A/V input of the AVS550. Select this same auxiliary A/V input to listen to your off-air, cable, or satellite programs using the MegaTheater Audio features.

Note: If your cable box or satellite receiver have AV outputs, it is best to use Option B even if you currently have it connected to your TV as shown below. The Option B connection will result in superior sound and picture quality.

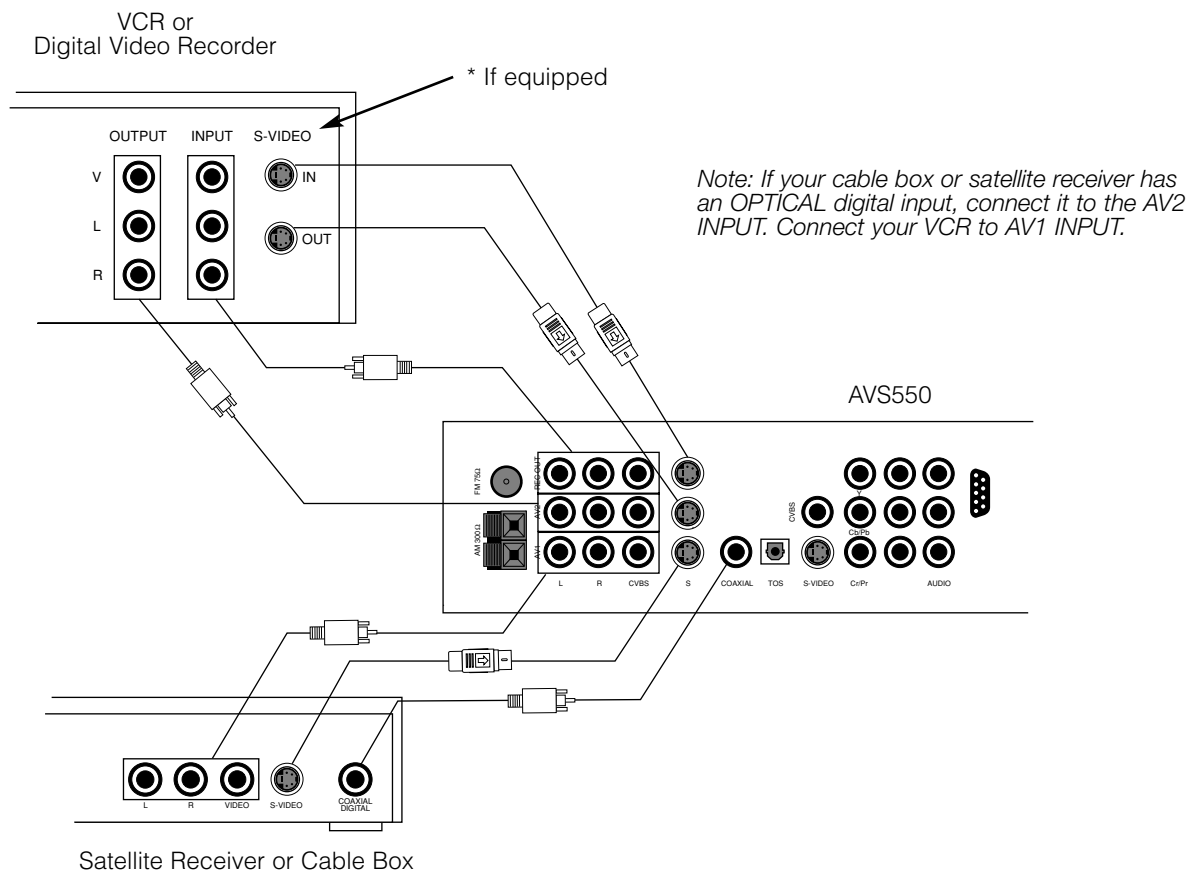


Option B:

This option is the best choice if:

- A. *You have a cable TV, HDTV tuner, or satellite receiver set top box (STB) with digital or stereo analog output.*
- B. *You have a VCR and wish to record or play in Stereo or Pro Logic II surround mode.*

1. Connect the audio output of the STB directly to the AVS550. The AVS550 processor can then decode the Dolby Digital signal from your STB when present, or play the sound in Stereo or Dolby Pro Logic II otherwise.
2. The Video output of the STB may be connected either to the AVS550 or directly to the TV, whichever is more convenient. The video output from an HDTV STB must be connected directly to the TV to get High Definition video.

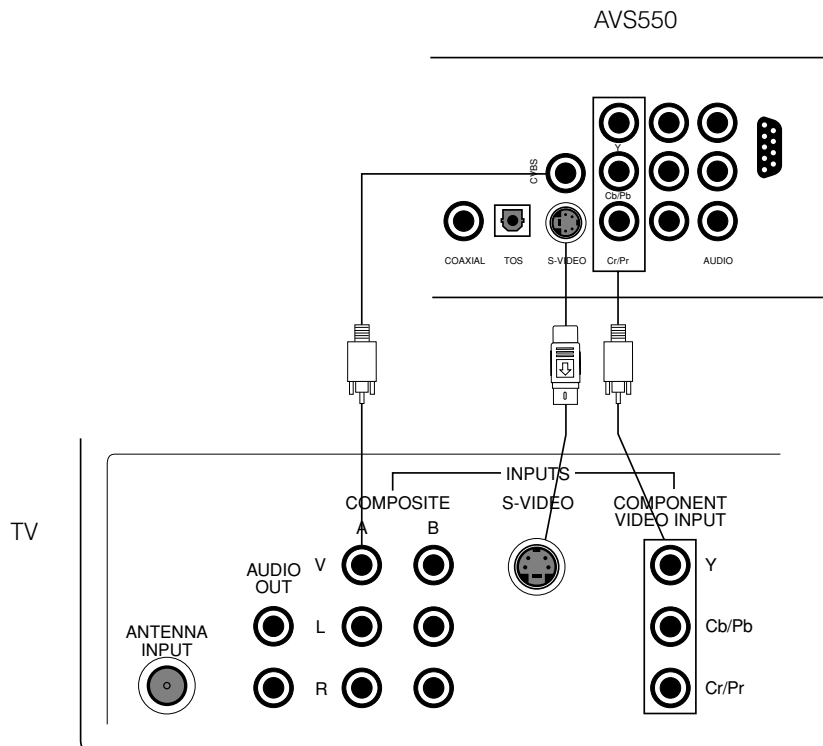


Connecting the AVS550 To Your TV:

The video output connection is determined by the capability of your TV.

- A. If your TV is equipped with progressive scan (Y/Pb/Pr) inputs or interlaced (Y/Cb/Cr) component video inputs, use them for the best picture from DVD playback.
- B. If your TV does not have component video inputs, S-Video input is the next best choice. Most current TVs have at least one S-Video input.
- C. The most common video input type on a TV is composite video, also known as CVBS. This input uses a standard RCA jack, usually color-coded yellow.

The AVS550 supports all three of the above options via its TV output. All of the video input sources connected to the AVS550 are available at its S-Video and CVBS outputs. The component output is only available when the AVS550 internal player is used. If you have other sources connected to the AVS550, you must connect an S-Video or CVBS cable from the AVS550 to your TV. Connect an S-video cable if any of your auxiliary sources have S-Video output. Connect a composite (CVBS) video cable if any sources have CVBS output only, or if your TV does not have an S-Video input. If you are not certain what you need at this point, connect them all.



Connecting Auxiliary A/V Sources:

There are three auxiliary A/V input connections available on the AVS550 (AV1, AV2, and AV3). AV1 and AV2 are located on the rear panel and may be used to connect a VCR, Cable Box or similar devices. AV3 is behind the door on the front panel. It provides convenient temporary connection of a camcorder, video game, or portable music player.

There is also an output labeled REC OUT for connection of an audio or A/V recording device such as VCR or Digital Video Recorder.

- A. AV1 has S-Video, CVBS, Stereo Audio and Coaxial digital input.
- B. AV2 has S-video, CVBS, Stereo Audio and Optical digital input.
- C. AV3 has CVBS and Stereo audio input only.

The AVS550 will convert a CVBS input to S-Video output to feed your TV. It will also convert S-video to CVBS. However, you will get the best picture quality by viewing the video in its native format. When viewing a source that has only CVBS output, it is best to select a CVBS input on your TV. Likewise, when viewing an S-video source, selecting an S-video TV input source will result in the best picture. The REC OUT jacks do not provide any format conversion. You must connect the AV input source you wish to record in the format your recording device will accept. Usually this is CVBS.

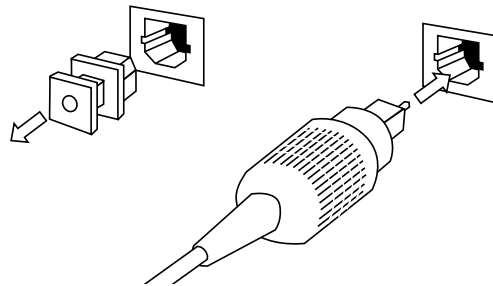
Connecting an Auxiliary A/V Source with Digital Output:

Many digital cable systems and almost all Digital Satellite receivers offer digital audio outputs. This provides access to the Dolby Digital (AC3) audio stream from movies and high definition TV broadcasts. You may also connect any audio source or PC sound card that provides a standard SPDIF (Sony Philips Digital Interface) signal with up to 24-bit/96Khz resolution.

If your digital source has a Coaxial output, attach it to AV1. If the source has an Optical output, connect it to AV2.

When AV1 or AV2 are selected, the AVS550 will automatically choose the digital input if present. If there is no digital signal the AVS550 will play the analog input.

Note: The digital input must be playing when the AV input is selected in order for the AVS550 to sense the signal. If the digital signal is not playing, or if the AVS550 fails to accurately sense the digital input, you can manually toggle between Digital and Analog input by pressing the AUDIO IN key on the remote control.



Audio Output Connections:

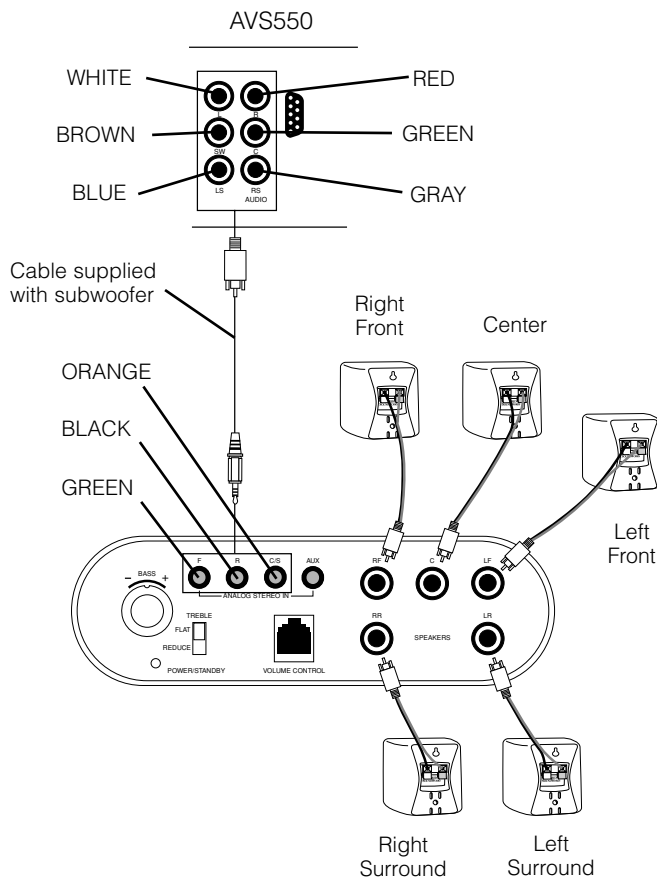
5.1 Surround System (RCA Jacks):

The main audio outputs of the AVS550 are next to the Component video outputs. These outputs are color coded to match the cables supplied with the Cambridge SoundWorks BassCube 851. Connect these outputs to the BassCube 851 or to another 5.1 compatible amplifier/speaker system.

5.1 Surround System (15-pin D-Subminiature Jack):

Audio output for use with specific Cambridge SoundWorks woofer/amplifier modules. A cable for this connection will be supplied with compatible products. *DO NOT attach a video monitor to this jack!*

Option A: Use for BassCube 851 and MegaWorks Series subwoofers.



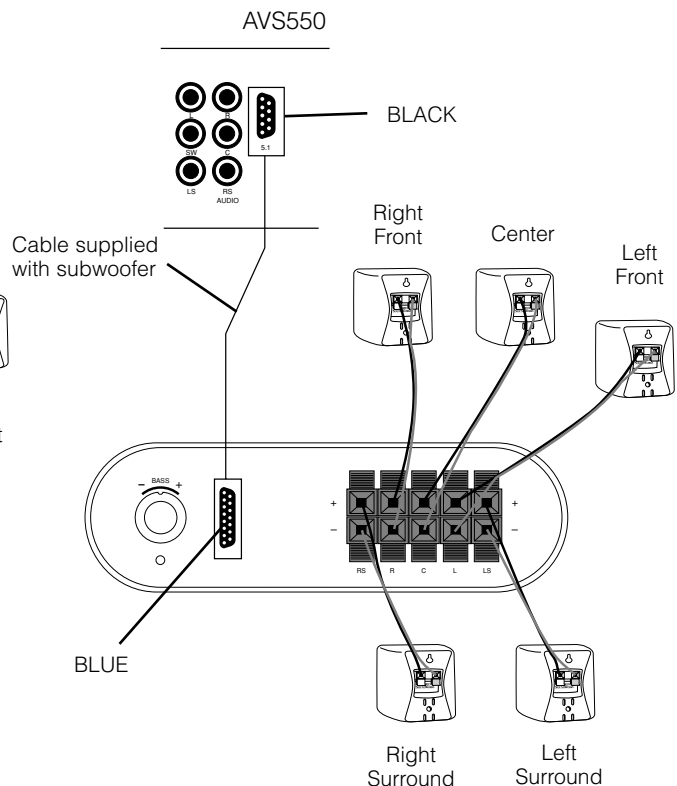
Stereo System:

Use only the Red and White output jacks to connect the AVS550 to a conventional 2-channel stereo system, or powered system such as the Cambridge SoundWorks BassCube821. Select an appropriate Downmix mode, as explained on pg. 32, for stereo operation.

REC Outputs:

A/V outputs are provided for connection of a VCR or other recording device. They duplicate the signal fed to the Front Left and Front Right speaker system, but are not controlled by the main volume. *Note: If you wish to make a recording from a DVD or other multi-channel source, be sure to select the DVD's STEREO audio track or choose STEREO in the DOWNMIX setup menu.*

Option B: Use for subwoofers equipped with 15-pin connector..



BASIC SETUP MENU

To get the most from your MegaTheater system it must be configured for your TV and speaker types. Configuration is made via the Setup menu, accessed by pressing the SETUP button on the Remote control. Use the \leftarrow \rightarrow buttons to navigate through the menu and highlight your selection. Use the ENTER button to make the selection. The \leftarrow key will return you to the previous menu level. When you are all done, press the remote control SETUP button again to return to normal operation.

1. Turn the main power on using the main power switch on the rear panel. After a few seconds the red LED next to the display will illuminate and the AVS550 will be in Standby mode. Also turn on the main power to your BassCube (or other amplifier system) or other amplifier system and to your TV. Switch the AVS550 to operating mode by pressing the STANDBY button. The front panel VFD will illuminate and indicate LOADING, then NO DISC. If it does not, press the DVD source button on the remote.
2. Use your TV's remote to select the video input you have connected the AVS550 to. When the correct input is selected, you will see the Cambridge SoundWorks logo on the TV. If you have an HDTV or EDTV, use the Component inputs. If you see a double, overlapped or streaked logo screen, your TV is in progressive mode. Change the TV monitor mode to INTERLACED (for now) so you can read the menus.

Video Setup:

For the best picture, the AVS550 needs to know a few things about your TV.

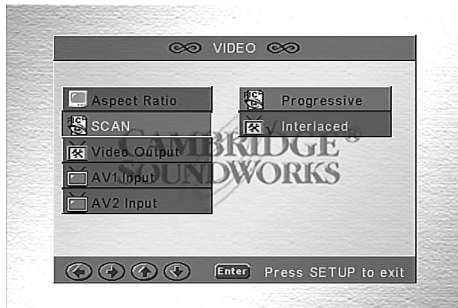
Select TV Aspect Ratio



A conventional TV has an aspect ratio of 4:3 (4 units wide, 3 units high). A Widescreen TV has a 16:9 aspect ratio. This setting must match your set or the picture will look stretched or squashed.

- A. Press SETUP to enter the setup menu.
- B. Select VIDEO and press ENTER.
- C. Select ASPECT RATIO, and choose ENTER. If you have a widescreen TV (16:9 Aspect Ratio), select WIDE. If you have a conventional 4:3 TV, select either of the NORMAL options. In wide mode, 16:9 movies will fill the screen; 4:3 movies will have blank bars at the sides but fill the screen vertically. Other widescreen aspect ratios may have thin bars at the top and bottom to fit the full frame onto your screen. *Note: Some 16:9 TVs will automatically stretch 4:3 source material to fill the screen resulting in distorted geometry on 4:3 material. This is not a function of the AVS550 and is controlled by your TV. If you have a conventional 4:3 TV, select either of the NORMAL options. NORMAL/PS (Pan and Scan) will crop the sides off of a widescreen movie in order to fill the screen vertically. NORMAL/LB (Letterbox) will place black bars at the top and bottom of widescreen movies in order to fit the full picture on your screen.*
- D. Press ENTER to confirm your selection, then press \leftarrow to return to the previous menu level.

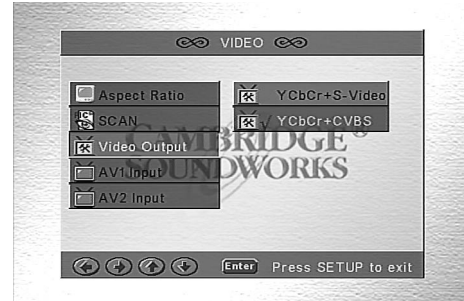
Select TV Scan Mode:



Skip this step if your TV does not support Progressive Scan video. The output mode of the AVS550 must match the input mode of your TV set.

- A. Press SETUP to enter the setup menu.
- B. Select VIDEO and press ENTER.
- C. Select SCAN and choose ENTER.
- D. Choose PROGRESSIVE only if you have a Progressive scan compatible TV. Otherwise choose INTERLACED.
- E. Press ENTER to confirm your selection, then press < to return to the previous menu level.
- F. Change your TV input to a progressive scan input.
IMPORTANT NOTE: If you inadvertently select Progressive Scan with an incompatible TV, the picture may be lost and you will be unable to navigate the menus. If this occurs:
 1. Press Eject to open the drawer in DVD mode.
 2. Press the SLIDE key to switch between progressive and Interlaced until the picture reappears.
 3. Close the drawer.

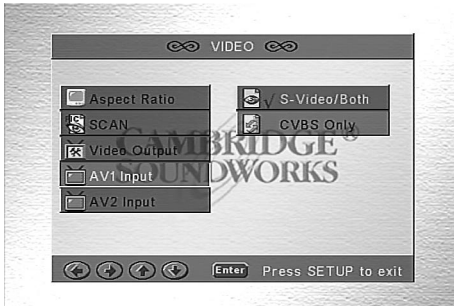
Select TV Output type:



You may skip this step if you have connected the AVS550 to your TV using an S-Video cable. It is only necessary if your TV has a CVBS video input exclusively.

- A. Select TV OUT.
- B. Choose YCrCb + CVBS.
- C. Press ENTER to confirm your selection, then press < to return to the previous menu level.

Select AV Input type:



You may skip this step if the source connected to AV1 has S-Video output. It is only necessary if the source is exclusively connected with a CVBS cable.

- A. Select AV1 Input.
- B. Select CVBS ONLY. Otherwise keep the default setting of S-Video/Both.
- D. Press ENTER to confirm your selection, then press < to return to the previous menu level.
- E. Repeat for AV2 if necessary.

Press SETUP to exit the menu and return to normal operation.

You may now begin to enjoy your Megatheater system.

Additional optional setup features are covered in the ADVANCED SETUP chapter later in this manual.

OPERATION AND USE

Playing DVD, VCD, SVCD, CD, JPEG Photo Disc, WAV or MP3 Music Files:

Press the DVD key on the remote control.

1. Press EJECT/LOAD on either the remote or the front panel to open and close the drawer.
2. Insert the disc and press EJECT/LOAD again to close the drawer. The AVS550 will auto identify the disc and load it.
 - If the Disc is a DVD, the unit will play the MENU or TITLE of the disc.
 - If the disc is VCD or SVCD, the unit will begin play as authored.
 - If the disc is a music CD the unit will play sequentially from track 1.
 - If the disc contains WAV, MP3 or JPEG files, the SMART-NAVI menu (which shows the disc folder and file structure) will be shown if selected. If NO MENU is selected in the GENERAL menu the content will begin playing from the first file.
3. Use the PLAY, PAUSE, STOP, <<, >>, |<<, and >>| keys to control transport motion or to navigate MP3 or JPEG files when SMART NAV is set to NO MENU.[^]
4. Use the , v, <, >, and ENTER keys to navigate DVD or VCD menus and music or picture files and folders when SMART NAV is set to WITH MENU.

Playing the Radio:

1. Press the TUNER key on the remote. Use the AM/FM key (Pause button) to select the band.
2. Use the CH+ and CH- keys to select a previously saved preset station.
3. Use the << and >> keys to manually tune a desired station.
4. Use the |<< and >>| keys to seek the next or previous strong station.

5. To save a station preset:

- a. Tune to the desired station.
- b. Press Save (Stop button). The Preset number on the VFD will begin to flash.
- c. Using the Preset + and Preset - buttons, choose the preset location where you want to save the station.
- d. While the Preset number is still flashing, press SAVE again to confirm.

Playing Auxiliary A/V Sources:

Press the AV1, AV2 or AV3 key that corresponds to the desired source.

- If the source has a digital audio connection, the AVS550 will automatically choose the digital input. Otherwise the stereo analog input will be selected. (AV1 and AV2 only.) If the AVS550 fails to lock on to a digital source, press the AUDIO IN button to toggle between Analog and Digital input. You may need to do this if the digital source was not playing at the time the AV input was selected, or if the digital signal was weak.
- Digital audio sources will automatically select Dolby Digital, DTS, Pro Logic, or Stereo, according to the setting in the GENERAL setup menu.
- Analog sources may be played with Dolby Pro Logic II surround processing by pressing the PRO LOGIC key. Pressing the PRO LOGIC key repeatedly selects the available surround options. The presence of Dolby Digital or DTS overrides Dolby Pro Logic II. *Note: You must select a CVBS or S-Video input on your TV to view sources connected to AV1, AV2, or AV3.*

Using Dolby Pro Logic 2:

The AVS550 features Dolby Pro Logic 2 surround circuitry to process Dolby Surround encoded programming from TV broadcasts and Videotapes. In addition, Dolby Pro Logic 2 will create surround sound fields from non-encoded Stereo sources such as CD's, MP3's and Radio stations. Pressing the PROLOGIC button on the remote will select from each of the available sound field options. The selected sound field is displayed on the front panel display for AV sources, and on the TV screen for CD, MP3 and Tuner sources.

Internal or external digital sources with Dolby Digital or DTS soundtracks will override the Dolby Pro Logic circuitry so that these sources will play with their proper decoders. See pg. 31 for a description of the various Dolby Pro Logic 2 soundfields available.

Listening with Headphones:

1. Plug the headphones into the headphone jack located behind the lower flap. The AVS550 will automatically switch the front L & R audio channels to STEREO DOWNMIX when headphones are attached.
2. Use the rotary volume control located to the right of the headphone jack to adjust headphone volume independent of the main volume. Press and release the volume knob to extend the control shaft for easier adjustment.
3. Do not leave the headphones plugged in when you are not using them.

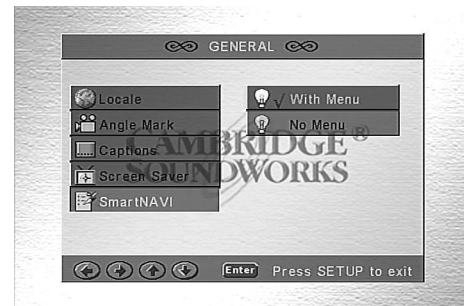
Recording from the AVS550:

You can only record from sources that are not Copy Protected.

1. Connect your recording device to the REC OUT jacks on the rear of the AVS500. The video format (S-Video or CVBS) of the input you are recording must be the same as your recording device will accept.

2. When recording a 5.1 source select a 2.0 soundtrack if available in the disc menu. If no stereo soundtrack is available, select Stereo or Pro Logic Downmix mode in the SPEAKER Setup menu. See Advanced Setup pg. 29.
3. Set Pro-Logic mode "Off."

Viewing Or Playing Files:



SMART NAVI - WITH MENU

You may play back MP3-encoded music files and view JPEG encoded picture files that have been recorded to a CD. You may include both file types on the same CD. JPEG files may be viewed individually or may be combined into a slide show with automatic transitions.

You may use an MP3 file to provide a musical background for your slide show.

The specifics of file navigation depend on the SMART NAVI setting in the GENERAL page of the Setup menus.

Playing MP3 or WAV Files:

Select DVD source and load your MP3 or WAV encoded CD.

If SMART NAVI = NO MENU: All the tracks on the disc will be played in order as if they were all at the same level. The hierarchy of files and folders is not displayed on the screen.

- Use the number buttons or the |<< and >>| buttons to select tracks.

- Press PLAY or ENTER to begin playback.
- Once play has begun, the <<, >>, |<<, >>|, STOP and PAUSE controls function exactly as they do for CD or DVD playback. The Track number will be displayed on the VFD, followed by track elapsed time.

If SMART NAVI = WITH MENU: The screen will display the folders and files in the hierarchy that they have been saved on the disc.

- Use the <, >, , and v keys, or the number keys to navigate through the menus. The < and > keys move between the two directory levels displayed. The and v control movement within each column. Once you have selected a file to begin playback.
- Press PLAY or ENTER to begin playback
- Once play has begun, the <<, >>, |<<, >>|, STOP and PAUSE controls function exactly as they do for CD or DVD playback.
- To select a different folder or change the play mode, first STOP playback.
- You may change the play mode by pressing the REPEAT button.



Viewing JPEG Files:

Press the DVD key on the remote to select the input, and load your JPEG Photo CD. The specifics of file navigation depend on the SMART NAVI setting in the GENERAL page of the Setup menus.

A Camera Icon indicates JPEG Files.

SMART NAVI = NO MENU: The files on the disc play in order. Folders and files are not shown. Press PLAY or

ENTER to begin viewing.

- The file number will be displayed on the VFD. Set play mode to SINGLE by using the REPEAT button to view one photo only.
- Once play has begun, the |<<, >>|, STOP and PAUSE controls function exactly as they do for CD or DVD playback.
- You may activate SHUFFLE or REPEAT functions from the remote.

SMART NAVI = WITH MENU: The folders and files are displayed in the same order that they appear in Windows Explorer. A camera icon identifies JPEG files.

- Use the <, >, , and v keys, or the number keys to navigate through the menus.
- The < and > keys move between the two menu levels displayed and the PLAY MODE selection field.
- The and v controls move within each column.
- Once you have selected a file for playback, press ENTER or PLAY to begin. The PLAY MODE setting will determine how the pictures are viewed. The file number will be displayed on the VFD. Set PLAY MODE to SINGLE to view one photo only.
- Once play has begun, the <<, >>, |<<, >>|, STOP and PAUSE controls function exactly as they do for CD or DVD playback.
- To select a different folder or PLAY MODE, first STOP playback.



PLAY MODE:

Play mode setting is shown at lower left of menu.

Play mode settings control the order and frequency of file play or viewing for both JPEG files and MP3 music. You may change the play mode by pressing the REPEAT button. The selected play mode will show on the lower left of the OSD. Nine different play modes are supported:

SINGLE - Plays the selected file once and stops.

REP-ONE - Repeats the selected track indefinitely.

FOLDER - Plays all the files in the current folder once in sequence.

FOLDER R - Plays all the files in the current folder in sequence indefinitely.

DISC SCAN - Plays the first 10-seconds of each file on the disc once in sequence.

DISC - Plays all the files on the disc once in sequence.

DISC REP - Plays all the files on the disc in sequence indefinitely.

RANDOM - Plays all the files in the selected folder in random order, indefinitely.

SHUFFLE ON - Plays all the files in the selected folder once in random order.

TRANSITIONS BETWEEN PHOTOS:

Press the TRANSITION button on the remote. Each press selects the next mode. Twelve slide show transition modes are provided:

Mode 0 - no transition (default)

Mode 1 - wipe from top

Mode 2 - wipe from bottom

Mode 3 - wipe from top and bottom to center

Mode 4 - wipe from center to top and bottom

Mode 5 - vertical blinds

Mode 6 - wipe from left to right

Mode 7 - wipe from right to left

Mode 8 - wipe from left and right to center

Mode 9 - wipe from center to left and right

Mode 10 - wipe from edge to center

Mode 11 - horizontal blinds

Mode 12 - random

IMAGE ROTATION:

There are four modes to rotate a picture that does not display correctly: Invert, Mirror, Left, and Right.

These operations are allowed only when a picture is being displayed manually, and will be cancelled automatically when a new picture is displayed. The direction key is used to select the different rotation modes:

UP button : Invert/Normal

Down button v: Mirror/Normal

Left button <: Turn left

Right button >: Turn right

IMAGE ZOOM:

The AVS550 provides both zoom in/out for DVD, VCD, and SVCD and zoom with pan functions for JPEG pictures.

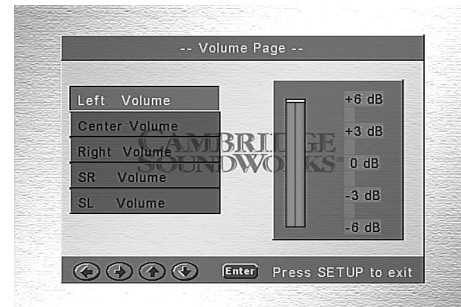
- Press the ZOOM key to select the zoom ratio options. When ZOOM mode is on, any picture will be displayed at the last ratio selected by the user. An OSD message will indicate the current ratio.
- When ZOOM mode is on, << and >> buttons are used to control the ratio of zoom in/out. ^
- With zoom ratios above 100%, use the <, >, ^, and v buttons to pan to different areas of the picture. When ZOOM mode is off, each picture is scaled to fit the whole screen.

Note: during ZOOM mode, slide show transition and image transformation are disabled.

PROGRAMMED PLAYBACK:

With the disc stopped, you may program a playing sequence for CD playback.

1. Press the PROGRAM key to enter programming mode.
2. Press the number key corresponding to the first track you wish to play. The OSD will display P01: (Track #).
3. Press the number key for the next track, the OSD will read P02: (Track #).
4. Continue until all tracks are programmed, then press PLAY or ENTER to begin programmed play. If you make a mistake during programming, press CLEAR to erase the last entry.



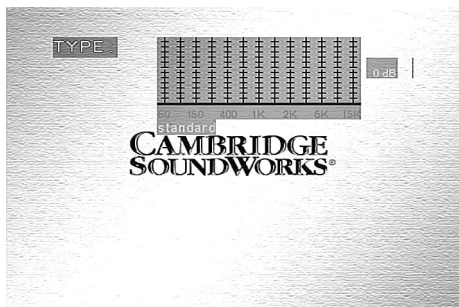
VOL SETUP:

The Volume Setup button lets you fine tune the individual channel levels while the program is playing.

1. Press the VOL SETUP button on the remote to enter the menu.
2. Use the ^ and v buttons to select the channel you wish to adjust, then press ENTER. Use the ^ and v buttons to adjust the level.
3. Use the < button to return to the top level.
4. Press VOL SETUP again to return to normal viewing.

ADVANCED OPERATION

Graphic Equalizer:



The built-in 7-band graphic equalizer lets you fine-tune the system frequency response to your room or your taste. Use the CLEAR/EQ button to turn on the graphic equalizer function.

1. Press once to turn the equalizer on and see the currently selected curve.
2. Use the PLAY button to select Standard (flat), Classic, Jazz, Rock, Pop, Ballad, or Personal mode. You may also use the CLEAR/EQ button to cycle through all of the EQ modes when you are using AV1, AV2, or AV3 sources.
3. When in personal mode, use the < and > keys to select the band, and use the ^ and v keys to adjust each band to your taste.
4. Press the EQ button again to show an on-screen spectrum level display.
5. Press again to turn the display off but keep the equalizer on.
6. Press again to turn the equalizer off.
7. When the EQ is turned on again, it will return to the last-used response curve.

Music Slide Show:

The AVS550 lets you select a background sound track for a JPEG slide show. The sound file must be in MP3 format, and be on the same CD as the picture files.

1. Load the CD containing the files.
2. Press the SLIDE button. The OSD will display MUSIC SLIDE SHOW MODE.

3. Select the MP3 track you wish to play, then press the A-B/MUSIC button. The OSD will read MP3 IS SELECTED.
4. Select the first photo of the slide show, and press PLAY. The show will begin.

Notes:

- PLAY MODE settings apply to the JPEG files. The PLAY MODE for the music files is SINGLE and the slide show will end after the music file has played. Therefore when making your slide show disc, use a sufficiently long MP3 file or combine a number of songs into a single file of adequate length.
- You cannot use WAV files as background music files for slide shows.
- Hi-resolution JPEG files may cause occasional interruption of the background music. The maximum resolution necessary for TV viewing is 720 x 480.
- During Music Slide Show mode, image transformation, zoom, and thumbnail browsing are not allowed.
- If loading a mixed format CD for the first time after turning the power on, it may be necessary to play the music track briefly to initialize music playback before selecting the background music track in Music Slide Show mode.

Browsing Thumbnails:

You may browse thumbnails of the files on JPEG File discs.

- Press the MENU button at any time within a folder. Nine photo thumbnails will be displayed on the screen.
- Use the number keys 1-9 to select a photo, or use the I<< and >>I keys to step to the previous or next nine scenes.
- Press STOP to exit.

ADVANCED SETUP

The Megatheater system will perform well as it comes out of the box. However, advanced users will benefit from the fine tuning available in the setup menus. In most instances, you will leave these in the factory default settings. To enter the SETUP Menus:

- Press the SETUP key In DVD STOP mode to display the MAIN PAGE of the setup menus.
- Use the UP (^) and Down (v) buttons to move the cursor.
- Use the RIGHT (>) or ENTER buttons to enter the sub menu.
- Use the LEFT (<) button to return to the upper menu.
- Use the ENTER button to select the function.
- Press the SETUP button at any time to exit the Setup menu.

Note: Disc play will stop when changing settings on the Setup menus to prevent unexpected results.

VIDEO menu:



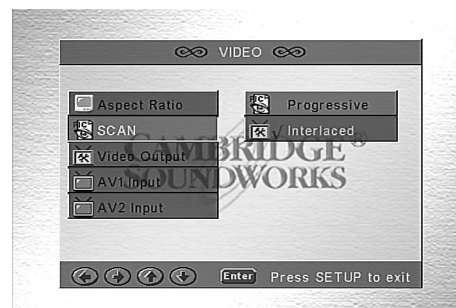
Select your TV type, Interlaced or Progressive scan, input and output connections.

ASPECT RATIO:

- 4:3 / Pan and Scan. Use for 4:3 aspect ratio TVs. Widescreen movies will fill the screen vertically, but the sides of the picture will be cut off.
- 4:3 / LB - Letterbox. Use for 4:3 aspect ratio TVs. Widescreen movies will fill the screen from side to side, black bars will show top and bottom. This is the only way to view the entire picture of a widescreen movie on a 4:3 TV set.

- 16:9 / Widescreen - Use for 16:9 widescreen TVs. 4:3 format movies will have vertical blank bars on each side, 16:9 widescreen video will fill the screen, and 2.35:1 theatrical widescreen movies will have narrow black bars on the top and bottom of the frame. Note: The AVS550 also responds to the aspect ratio flag on the DVD. Some DVDs are incorrectly flagged, causing improper display even when the setting of your equipment is correct. If you find that an occasional DVD does not display correctly, it is probably the particular DVD and not an incorrect setting or malfunction of the AVS550. For these few discs, you may need to select a different, technically "incorrect" aspect ratio. The proper picture geometry also depends on any related settings that may be offered on your TV. Some TV's will stretch a 4:3 picture to fill a 16:9 screen even when the AVS550 is providing the correct 4:3 output to the TV.

SCAN:

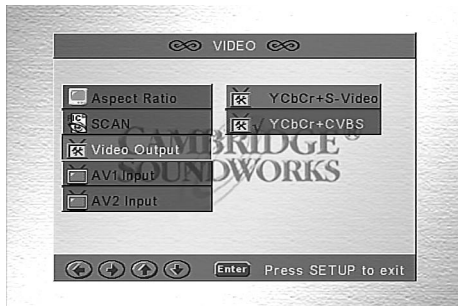


Select Progressive if your TV will support it. Otherwise use Interlaced (default).

IMPORTANT NOTE: If you inadvertently select Progressive Scan with an incompatible TV the picture may be lost and you will be unable to navigate the menus. If this occurs:

1. Press Eject to open the drawer in DVD mode.
2. Press the SLIDE key to switch between progressive and Interlaced until the picture reappears.
3. Close the drawer.

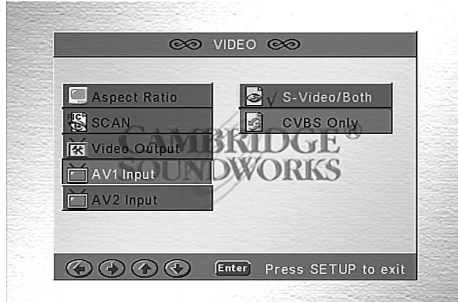
VIDEO OUTPUT:



This selection switches the CVBS to S-video circuitry appropriately for the TV connection used.

1. If you do not have an S-video connection between the AVS550 and your TV set, choose YCrCb + CVBS. Otherwise keep the default YcrCb + S-Video setting.
2. Press ENTER to confirm your selection, then press < to return to the previous menu level.

AV INPUT 1 and AV INPUT 2:



This selection switches the CVBS to S-Video circuitry appropriately for the Input connection used.

1. If your AV1 Source has a CVBS connection only (no S-video), select CVBS ONLY. Otherwise keep the default setting of S-Video/Both.
2. Press ENTER to confirm your selection, then press < to return to the previous menu level. Repeat for AV2 if necessary.

AUDIO page:



Choose how the AVS500 handles Pro Logic II decoding and control Dynamic Range compression.

PRO LOGIC: Sets your preference for Pro Logic decoding of DVD's or external digital (SPDIF) sources.

- AUTO (default) - Material containing a Dolby Digital 2.0 or 2.1 soundtrack will play back in Stereo unless flagged in the bitstream for Dolby Pro Logic.
- ON - Stereo source material will play back in Pro Logic mode regardless of how it is flagged.
- OFF - All non-5.1 source material will play back in Stereo.

Note: Dolby Digital 5.1 or DTS soundtracks will take precedence over the settings in this menu and play back in their proper format. Also, when making a stereo recording of a disc source from one of the AVS550's A/ V outputs, set Pro Logic OFF.

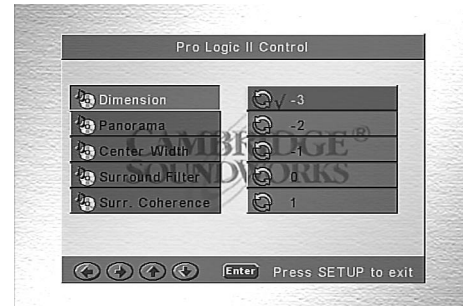
PRO LOGIC II MODE:



Selects the default mode that will be used when AUTO Pro Logic is selected.

- **PRO LOGIC** - Emulates original Dolby Pro Logic with 7kHz high frequency filter on rear speakers and mono surround processing.
- **VIRTUAL** - Virtual surround for use without rear loudspeakers.
- **MUSIC** - Recommended for Music. When compared with the MOVIE mode, this mode provides a more spacious front image and less high frequency content from the rear channels for an effect similar to a live concert space.
- **MOVIE** - (Default) The best choice for most content. Works well with both music and movies. Full range high frequency response from the rear speakers. Autobalance circuitry keeps dialogue accurately centered.
- **MATRIX** - Use for monaural source material.
- **CUSTOM** - User adjustable surround parameters.

PRO LOGIC II CONTROL:



Set the parameters for CUSTOM surround processing. Specific adjustments may also be made to parameters in Virtual, Music, Movie, and Matrix modes. The available adjustments will be shown in Blue. If a menu item is grayed out, it cannot be adjusted in the selected mode.

- **Dimension** - Allows you to gradually adjust the sound field either towards the front or towards the rear.
- **Panorama** - Extends the front stereo image so that it includes the surround speakers for an exciting wraparound effect
- **Center Width** - Allows variable adjustment of the center channel so that it is heard only from the center speaker or in combination with the Left and Right speakers.
- **Surround Filter** - Applies a mild high frequency shelf filter to the rear surrounds. This results in a more natural soundfield on music since ambient sounds normally have a high-frequency rolloff induced by room reflections and absorption.
- **Surround Coherence** - Keeps left and right surround speakers coherent for a more focused rear. Keep "off" for a more spacious, diffused surround effect.

COMPRESSION:



Controls the amount of dynamic range compression from FULL compression to no compression (OFF). You may freely adjust this to your taste. FULL compression is useful for low-powered speaker systems, or listening at reduced levels at night to avoid disturbing others. With FULL compression low-level dialogue becomes louder and loud passages are quieter. Turning the compression OFF will give the most realistic dynamic range, with wide contrast between the loudest scenes and the quietest ones. This provides the full impact of the soundtrack. The default is OFF.

DUAL MONO:



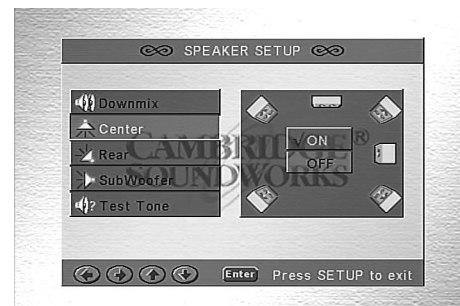
The normal setting is STEREO.

L-MONO - sends only the left channel signal to both Left and Right output channels.

R-MONO - sends only the right channel output to both channels. These two selections are useful for some VCDs which may have one language on each channel in Mono. MIX-MONO - mixes both left and right channels, sending the resulting mono mix to both output channels. Use this when you are using a mono speak-

er/amplifier system, or sending the output to an older TV with a single speaker.

SPEAKER SETUP:



Use this menu to alter the AVS550 for different speaker configurations and non-ideal speaker placement.

DOWNMIX: Selects downmix mode to use if you do not have a surround system.

- Lt/Rt applies Pro Logic downmix. This is useful for recording a 5.1 source to a videotape for later playback using Dolby Pro Logic.
- STEREO applies a standard stereo downmix appropriate for use with a conventional stereo speaker system or headphones.
- OFF is the default used with a surround speaker system.

CENTER: Select ON if you have a center channel speaker (default).

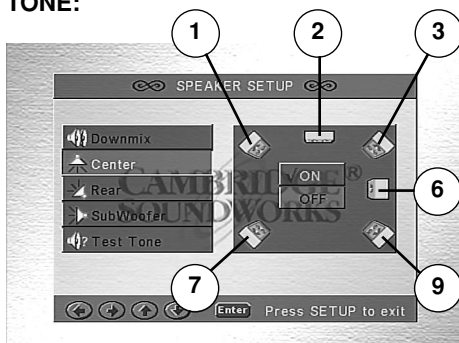
REAR: Select ON if you have rear channel surround speakers (default).

SUBWOOFER: Set ON if you have a separate subwoofer, or powered speaker system that does not have its own bass management/crossover circuitry.

CENTER DELAY: If your center channel speaker is the same distance or further away than your main speakers set this to 0 mS. If the center channel is closer to the listener than the main speakers, add 1 mS for each foot closer to the listener.

REAR DELAY: If the rear (surround) channels are closer to the listener than the front channels are, select 1ms for each foot closer the surround channels are than the main Left and Right speakers. If the surrounds are the same distance as, or farther away than, the front speakers set this to 0mS.

TEST TONE:



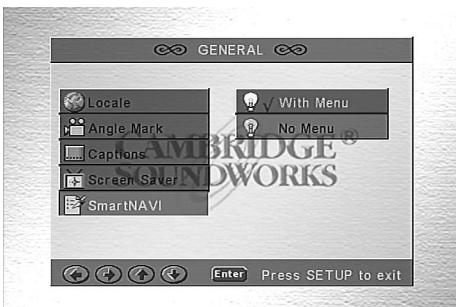
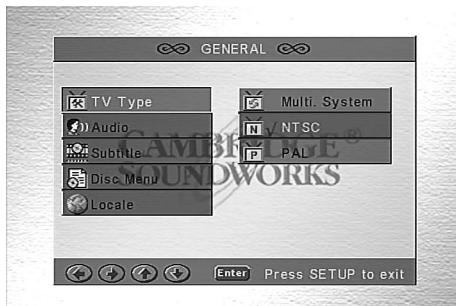
Use this after you have defined the speaker layout. When you select ON, a short burst of pink noise will be sent to each channel in turn. When the system is balanced, each speaker will play at the same apparent level when heard at the primary listening position. After selecting ON, let the tone cycle through all of the channels at least once. If any of the channels appear louder or softer than the main left and right channels,

they should be adjusted to play at the same volume. The buttons on the number keypad correspond to the speakers corresponding to their positions in the picture on the right half of the TV screen.

- 1 - Left Front
- 2 - Center
- 3 - Right Front
- 6 - Subwoofer
- 7 - Left Surround
- 9 - Right Surround

Press the button corresponding to the speaker requiring adjustment. The Tone will stay on this speaker, use the volume +/- buttons to adjust the volume level. Select the next channel to adjust and repeat the process. Continue until all of the channels play at the same apparent volume level. Press) to exit adjustment mode. *Hint: The adjustment may be made by ear; however, use of a sound level meter such as Radio Shack #330-2050 may make the adjustment easier and more accurate.*

GENERAL



Select language preferences, TV standards, file navigation style and parental controls.

TV TYPE: Set to match your TV. In the USA, the TV standard is NTSC (default).

AUDIO: Selects the priority language (when available) for the disc audio track. You may choose English (default), French, Spanish, Chinese, or Japanese.

SUBTITLE: Selects the priority language for subtitles when supported by the disc.

DISC MENU: Selects the priority language of the disc menus when supported by the disc.

LOCALE: Selects between the different parental lock standards of USA (default), China, France, Hong Kong, Japan, Taiwan, and Great Britain.

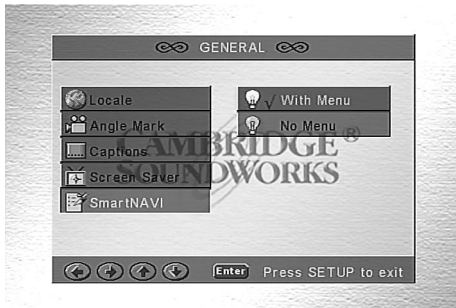
PARENTAL: You may select a specific rating level which will require a password to view. The default is No Parental, which will play all DVDs regardless of rating.

ANGLE MARK: With Angle Mark on, the OSD will display the number indicating the angle selected when playing a DVD with multiple camera angles.

CAPTIONS: When OFF, Subtitles are off by default and may be selected using the remote control. When ON, Subtitles are normally on, but may be turned off using the remote.

SCREEN SAVER: The AVS550 automatically activates a “bouncing ball” screen saver after a few minutes of inactivity. This will prevent burn-in of an image to a CRT-based, LCD, or Plasma TV. DLP based TV’s are more resistant to burn-in and do not normally require the screen saver. Although we do not recommend it, you may turn the “bouncing ball” screen saver off. If you decide to defeat the Screen Saver, do not leave the player on for an extended time on any paused scene, photo, or the AVS550’s logo screen.

SMART NAVI:



WITH MENU - The contents of the disc are displayed in the folder and file hierarchy as burned on the CD.

NO MENU - All of the files are at shown at the same level.

PARENTAL: You may select a specific rating level which will require a password to view. The default is No Parental, which will play all DVDs regardless of rating.

PASSWORD: Use to set your own personal password for the parental settings. The default password is 3308.

DEFAULTS: Restores the original factory settings.

SPECIFICATIONS

GENERAL

Supply Voltage: 100V~240V 50/ 60HZ

Power Consumption: 25W

Dimensions: 16 1/4" x 13-1/2" x 3 1/8" (410mm X 345mm X 80mm)

Weight: 11lb/5KG (13-lbs. shipping Weight.)

Operating Temperature: 5-40° C

Operational relative humidity: 15-75%

DVD

Compatible with: DVD-Video, DVD-Audio, SVCD, VCD1.0/1.1/2.0, CDDA, HDCD, MP3, CD-G, KODAK PICTURE CD, CD-R, CD-RW, DVD-R, DVD-RW, DVD+R, DVD+RW

Composite input: CVBS 1.0vp-p 75 Ohms

Composite output: CVBS 1.0vp-p 75 Ohms

S-Video Y, C

Y = 1.0vp-p 75 Ohms

C = 0.286vp-p/NTSC (0.3vp-p/PAL) 75 Ohms

FM TUNER

Frequency Range: 87.5-108MHz

Usable Sensitivity: 1.3 uV/13.2dBf

Signal-to-Noise Ratio: >70dB (mono), >68dB (stereo)

Distortion: 0.2% (mono), 0.3% (stereo)

Stereo Separation: 40dB @ 1kHz

Selectivity: 400kHz, 70dB

Image Rejection: 80dB

IF Rejection: 90dB

AM TUNER

Frequency Range: 520kHz-1710kHz

Signal-to-noise Ratio: 45dB

Distortion: 0.8% (1kHz, 50% Modulation)

Selectivity: 30dB at 10kHz

AUDIO

Audio Input: 0.5V - 2V

Audio Output: 0.5V - 2V

5.1 Channel Output: 1.0 V. p-p

Signal to Noise: >104dB ref. full output.

Dynamic Range: >100dB

Note: Cambridge SoundWorks subscribes to a policy of continuous improvement. As a result specifications and design may be subject to change without prior notice.

LIMITED WARRANTY

Cambridge SoundWorks, a Creative company, warrants the following Cambridge SoundWorks products for the periods indicated:

Loudspeakers for interior use without internal active amplifiers:

10 year limited parts and labor warranty from the product's Date Of Purchase (DOP) from an authorized Cambridge SoundWorks retailer.

Subwoofers for interior use:

10 year parts and labor on speaker elements, passive circuitry and cabinet workmanship from DOP. 2-year limited parts and labor warranty on the active amplifier circuitry from DOP.

MegaWorks speaker systems for interior use:

2-year limited parts and labor warranty from DOP.

MegaTheater AVS and other electronic source units for interior use:

1-year limited parts and labor warranty from DOP.

WHAT IS COVERED AND WHAT IS NOT COVERED

Except as specified below, this limited warranty covers parts and labor to correct all defects in materials and workmanship. The following are not covered by the warranty:

1. Damage, deterioration, malfunction or failure to meet performance specifications resulting from:
 - a. Accident, acts of nature, misuse, abuse, neglect or product modification.
 - b. Improper installation, removal or maintenance, or failure to follow instructions supplied with the product.
 - c. Repair or attempted repair by anyone not authorized by Cambridge SoundWorks to repair the product.
 - d. Any shipment of the product (claims must be presented to the carrier).
 - e. Any cause other than a product defect.
2. Cleaning, initial setup, checkups with no defects found, or charges incurred for installation, removal or reinstallation of the product.
3. Any product on which any serial number has been defaced, modified, or removed.
4. Batteries.
5. Accessories, including but not limited to batteries, cables, mounting hardware and brackets, cleaning accessories, antenna and detachable power cords.
6. Any product purchased outside the U.S.A., its possessions or territories.

WHO MAY ENFORCE THE WARRANTY

This limited warranty may only be enforced by the original purchaser.

WHAT CAMBRIDGE SOUNDWORKS, USA WILL PAY FOR

We will pay for all labor and material expenses for items covered by the limited warranty. Payment of shipping charges is discussed in the next section of this limited warranty.

HOW YOU CAN GET SERVICE

1. If you feel your unit needs service, contact Cambridge SoundWorks Return Authorization by calling toll-free (800) 367-4434. If we agree service is required, we will provide you with a Return Authorization number. Please do not return your unit to the factory prior to obtaining a Return Authorization.
2. You must pay any shipping charges to Cambridge SoundWorks. For repairs that are covered by this limited warranty, Cambridge SoundWorks will pay the return shipping charges to any destination within the fifty United States.

LIMITATION OF IMPLIED WARRANTIES

All implied warranties, including warranties of merchantability and fitness for a particular purpose, are limited in duration to the length of this warranty.

EXCLUSION OF DAMAGES

Cambridge SoundWorks, USA's liability for any defective product is limited to repair or replacement of the product at Cambridge SoundWorks, USA's option. Cambridge SoundWorks, USA shall not be liable for damage to other products caused by any defects in Cambridge SoundWorks product, damages based upon or loss of use of the product, or any other damages, whether incidental, consequential, or otherwise.

HOW STATE LAW RELATES TO THE WARRANTY

Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

This limited warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

This warranty is enforceable only inside the U.S.A., its possessions or territories.

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