

## Media Rooms

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A MEDIA ROOM AV SYSTEM IS THE COMBINATION OF ELECTRONIC COMPONENTS AND ROOM DESIGN DEVELOPED TO WATCH TV OR MOVIES AND LISTEN TO MUSIC IN A MULTI-FUNCTION ROOM WHERE OTHER ACTIVITIES TAKE PLACE.

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### What is a Media Room?

A media room is a multi-purpose room designed to watch picture perfect movies and shows using the latest technological advances. Bravo AV's goal is to complement your life style by de-mystifying media rooms and delivering to you:

- The Best Picture
- The Greatest Sound
- The Most Comfortable Environment

More precisely, a media room AV system is the combination of electronic components and room design developed to watch TV or movies and listen to music in a multi-function room where other activities take place. Media Room systems are made up of multiple electronic components and may or may not include furniture, acoustic treatments, lighting control and HVAC control. Here is a summary, and then each component is defined:

- **Display Device:** TV
- **Surround Sound Decoder:** AV Receiver or Preamp and Amplifier Combination
- **Speakers:** Usually 5 or 7 depending on the size of your room
- **Subwoofer:** Another type of speaker, but for bass, explosions & sound effects
- **Sources:** (Signal Components): Blu-ray players, cable or satellite boxes, movie & music servers, SiriusXM satellite radio, iPod docking station, Video games (Xbox 360, PS3 and Wii) etc.
- **Wire & Cables:** To connect all the gear and to get signals to the speakers
- **Remote control solutions:** One remote controls your entire system.
- **Surge Protection & Power Conditioning:** To protect your system from being damaged due to electrical disturbances
- **Seating:** Custom configured to match your home décor
- **Acoustics:** Wall and ceiling mounted panels that greatly enhance audio quality
- **Lighting and HVAC control:** Through one of our numerous remote control solutions we can control your lighting and HVAC

## Definitions

**TV:** The TV can be either Plasma, LCD or LED powered LCD, typically in sizes ranging from 40 to 65 inches.

**Receiver:** An electronic component that “receives” audio (sound) and video (picture) signals from source devices and transmits these sounds to your speaker surround sound system. One can think of a receiver as a traffic cop. Through it you select what source you wish to listen and watch and the receiver directs it appropriately.

**Preamplifier & Amplifier Combo:** Same as receiver, but can be provided in two components rather than one for a higher fidelity.

**Speakers:** Also known as loudspeakers, are devices for audio playback. Typically a media room has at least 5 speakers: Left, Center, Right, and two side-surround speakers. In some larger theaters two additional rear speakers are added on the back wall. In components and speaker systems, a channel is a separate audio signal path – the ones most commonly found in an AV system are as follows:

**Center Channel:** The center speaker in a media room setup carries the primary amount of information and all the dialogue. Ideally, center speakers are placed within one or two feet above or below the horizontal plane of the left and right speakers and above or below the display device, unless placed behind a perforated screen.

**Left Channel:** The left speaker carries the left audio channel information.

**Right Channel:** The right speaker carries the right audio channel information.

**Side Surround Speakers:** Speakers located beside the listener that reproduce the surround sound channels of surround-sound-encoded audio programs.

**Rear Surround Speakers:** Speakers located behind the listener that reproduce the surround sound channels of surround-sound-encoded audio programs.

**Subwoofer:** A loudspeaker dedicated to producing bass (sound with low frequencies.) Subwoofers typically add that shake and rumble to your media room.

**Sources:** Source components are devices that provide audio and video signals to your media room. Great examples are:

- Blu-ray player,
- Cable Boxes or Satellite Receivers (DirectTV or Dish Network)
- Video games: Xbox 360, PS3 and Wii, etc.
- PCs
- Digital media servers – Imagine having all your favorite music and movies at your fingertips
- Family Camcorder
- CD's, Radio, Turntables

**Remote Control Solution:** This is the “user interface” to the AV system. At Bravo AV we design simple to use remote control solutions for everyone in the family. No more will you have a coffee table full of various remote controls. No longer will you have to call your children to turn the TV on.

**Wire and Cables:** Wire and cables connect the entire system together. Examples of wire & cables necessary to outfit a complete media room would be:

**Speaker Wire** connects the speakers to the amplifier (a minimum thickness of 14 gauge copper wire is recommended)

**Coax or RG6 Wire** is typically used for Cable TV, DSS.

**CAT-5/6 Wire:** Category-5 is a communications wire used for many applications. Networking, telephones, infrared communications and keypad communications are some basic examples of the many uses of cat-5.

**RGB Wire:** Cabling for getting higher quality video signals (such as component & high definition) to the display device. RGB wire can have anywhere from 3 to 6 wires inside one cable.

**HDMI Cable:** (High Definition Multimedia Interface) sends both audio & video on one digital cable. HDMI also supports the highest quality video available on the market today.

For more information on wire and cable see Bravos AV's:

- **Theater Connectivity Diagram**
- **Classification of Low Voltage Network Wire** and
- **Structured Wiring Approach.**

**Surge Protection:** In today's world electronics and electronic systems have become very expensive, even at the inexpensive level. Surge Protection helps to protect your expensive electronics from lightning, power surges, brownouts, blackouts, and many other possible dangerous signals that can come in through the electrical systems in your home.

**Power Conditioning:** Modern electronics have become increasingly better at displaying very high levels of detail in video and audio images. Noise on your electrical system from appliances and various other devices plugged in throughout the home can easily become magnified through your media room system. Power conditioning takes the incoming electricity, cleans all noise and interference off the line and then provides clean pure power to your electronics systems for a much-improved viewing and listening experience.

**Seating:** Chairs come in all sizes, colors, firmnesses and styles. Many chairs have motorized options and some have heaters. We also have custom cabinet craftspeople and interior design consultation available to help you design a media room that looks as good as it sounds.

**Acoustics:** Acoustic treatments are used to control sound within the room to maximize the sonic experience. The goal is to have the listener involved in the movie's soundtrack and transported into the experience.

**Lighting:** Bravo AV can design automatic lighting control solutions for your media room or the whole house. Imagine the lights dim when you press "play" on your remote control.

**HVAC:** Heating Ventilation and Air Conditioning. We can have your remote control communicate with your thermostat.