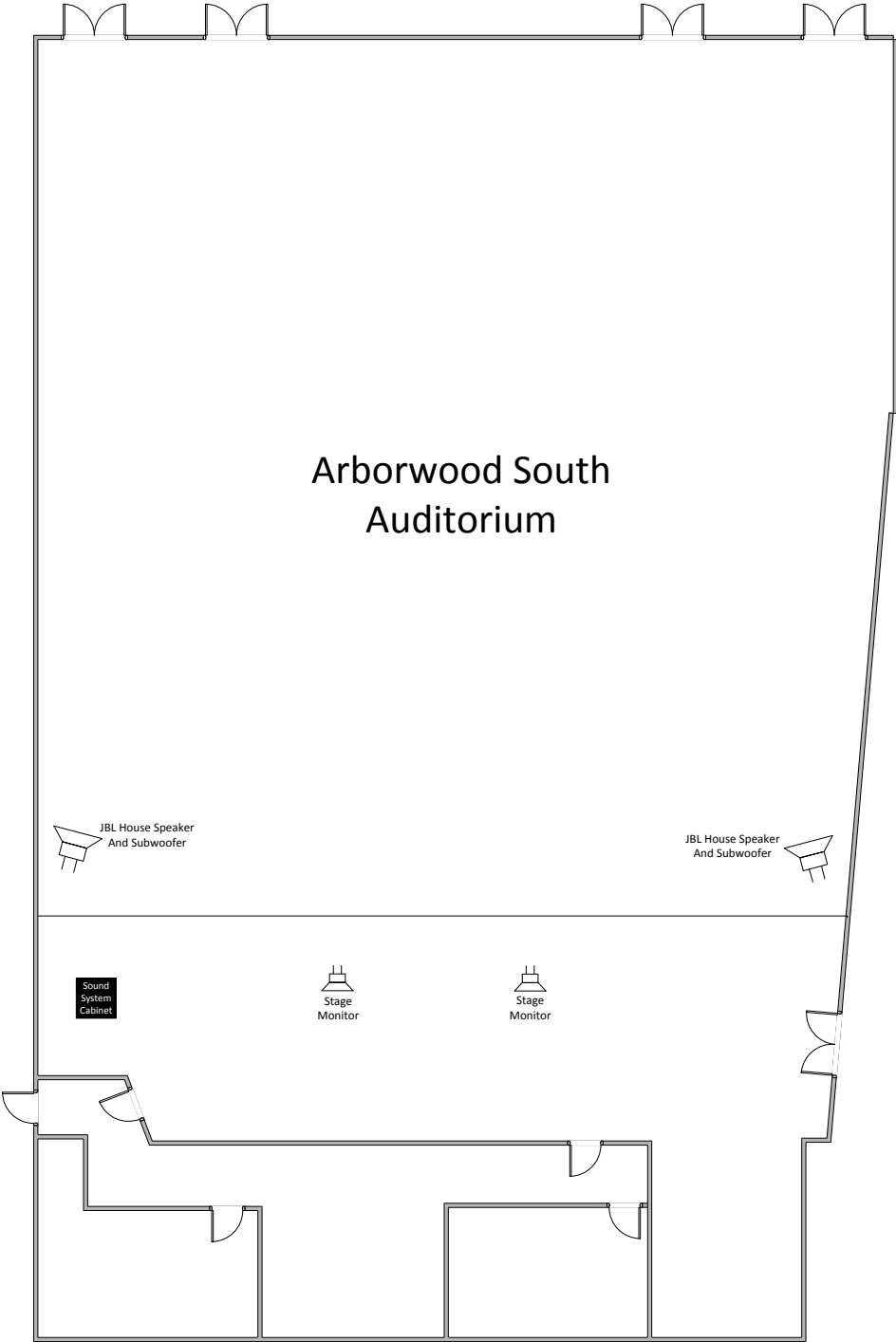


# Arborwood South Sound System Documentation

---

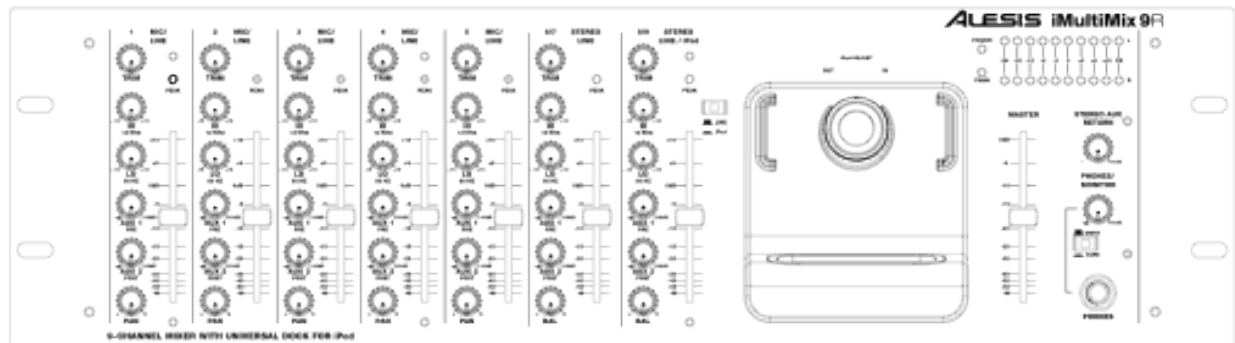


## Components

- 1 - Alesis iMultimix 9R (Sound Mixer)
- 1 - Tascam CD-200i (CD/iPod Player)
- 1 - Crown XTI Series 2002 Power AMP (Tops)
- 1 - Crown XTI Series 2002 Power AMP (Subs and Monitors)
- 4 - Sennheiser ew100 G3 Receivers (2 Handhelds, 2 Body Packs)
- 1 - Kramer VP-729 Audio/Video switcher
- 1 - Fuman M-8x PDU
- 2 - JBL PRX418s Subwoofer (House Sound)
- 2 - JBL House Speakers (House Sound)
- 2 - Stage Monitors (Stage Sound)

## Alesis iMultimix 9R

The Alesis iMultimix is the main mixer for the Arborwood South auditorium sound system. This piece of hardware is used to connect all of the incoming signals, mix the audio levels, and then output the sound to the Power Amps. This device has a total of seven input audio channels.



- Channel 1 - Stage Left XLR Port
- Channel 2 - Stage Center XLR Port
- Channel 3 - Sennheiser ew100 3G Handheld 1
- Channel 4 - Sennheiser ew100 3G Handheld 2
- Channel 5 - Sennheiser ew100 3G Headset 1
- Channel 6 - Sennheiser ew100 3G Headset 2
- Channel 7 - Kramer VP-729 Audio/Video Switcher

Each channel has independent controls to adjust the Trim, Highs, Lows, two Aux sends, Pan and a volume slider.

**TRIM** - Adjusts the level or volume of the signal coming into the mixer.

**HIGHS** - This is similar to Treble. This will adjust the high end of the sound wave either up or down depending upon how set.

**LOWS** - This is similar to Bass. This will adjust the low end of the sound wave wither up or down depending upon how set.

**AUX** - The two AUX sends are commonly used to send audio to stage monitors. At Arborwood South, only AUX1 will be used for the stage monitors mounted above the curtain.

**PAN** – This allows you to adjust the balance of the sound. This would be something you may need to use if using a split track where audio is on the left, and singing on the right. This should not be adjusted unless you are doing so for a specific media type.

**VOLUME SLIDER** - This slider is the volume control for the individual channel. It is used to mix the sound levels coming out of the house.

On the far right side of the mixer you will also find a Master Slider. This slider controls the sound level of the mix coming out of the house speakers. The higher the slider is the louder the sound.

## Tascam CD-200i

The Tascam CD/iPod player is a single device allowing you to play music using either a CD (not MP3) an iPod / iPhone with the 30 pin adapter, or using the AUX in with a 3.5mm audio cable. To select which input you want to use on the remote control you will click the source key. To change sources on the device without the remote on the Tascam you will press both the Shift and Source Sel key at the same time. The Tascam will only allow you to switch to available sources. If an iPod or Aux cable is not hooked to the device, than CD will be the only source available.



## Kramer VP-729 Video Switcher

The Kramer Video switcher is used to select which audio or video signal will be playing to both the projector and the sound system. To select what will be broadcast you will select the button making sure it is lit Red (for audio) or Purple (Audio and Video). The below devices are hooked to the Kramer for use.

### UNIVERSAL INPUTS

In 1 - Tascam CD / iPod Player  
In 2 - Open  
In 3 - Open  
In 4 - Open

### INPUTS

UXGA 1 - Computer  
UXGA2 - Open  
HDMI 1 - Apple TV  
HDMI 2 - Open  
USB - Open

## Sennheiser Wireless Microphones

The Sennheiser Wireless Microphones installed at Arborwood South are in two fashions. The first is a standard Handheld (Sennheiser e815). This style of handheld is good for when handling normal presentations, or for vocals (singing). These mics tend to have no issues with feedback unless the operator uses improper microphone techniques. The second type of microphone is the Headset with Bodypack( Sennheiser ew 100 g3 ). This microphone is a dual ear hook headset designed to be worn. These work well for those who want to have free range motion of their hands while presenting, or for use with plays and other similar events. These can work for vocals, but being more sensitive than the standard handset is more likely to have issues with feedback.

The Arborwood sound system has two of each of the microphone types. They are configured on the following microphone frequencies. It is important to note that each wireless device needs to not only be on separate frequencies, but ones with minimal interference. Testing the microphone in both the on, and off state will help you find open frequencies with minimal interference. The microphones are currently set to channels that appear to not have any interference at this time. To have the frequencies adjusted please contact the Technology Department.

**Handheld 1** - 524.700 MHz

**Handheld 2** - 518.200 MHz

**Headset 1** - 530.100 MHz

**Headset 2** - 548.850 MHz

With the headset microphones best practice is once you are done using the headset to store it back in the box that the headset came in. This will decrease the chance of damage to the body pack or the headset.

# How to play audio from an iPod / iPhone

---

Step 1: Turn on the sound system by flipping the Power Switch on the Fuman PDU (Power Distribution Unit)

Step 2: Turn on Tascam CD/iPod player (If not already on)

Step 3: Open the iPod doc by pressing on the tray and extend it to the open position

Step 4: Place the iPod on the doc. Once properly connected you will hear the iPod make the charging alert sound.

Step 5: Set source on the Tascam to iPod (If not already)

- a. Using the Remote control Press the SOURCE button
- b. Using the device press both the SHIFT and SEL SOURCE keys at the same time

Step 6: Set the Kramer Switch box to In 1 - Tascam (Button should turn Red)

Step 7: Verify the Master slider on the Alesis iMultimix 9R (Sound Mixer) is set to about 3/4s of the way. This is the master volume to the audience

Step 8: Set the volume level for the Kramer Switch box (Channel 7) on the Sound Mixer. This higher the slider is the louder the volume.

Step 9: Test the iPod and adjust the volume to the level you want.

Optional:

To set the volume of the stage monitors (speakers) you will need to turn the Red AUX1 knob for Channel 7. If you want it louder turn it clockwise, softer turn it counter clockwise.

# How to play audio from a CD

---

Step 1: Turn on the sound system by flipping the Power Switch on the Fuman PDU (Power Distribution Unit)

Step 2: Turn on Tascam CD/iPod player (If not already on)

Step 3: Set source on the Tascam to CD (If not already)

- a. Using the Remote control Press the SOURCE button
- b. Using the device press both the SHIFT and SEL SOURCE keys at the same time

Step 4: Insert CD by pressing the eject button on the CD player to open the tray, placing the CD in the tray, and pressing the eject button again for it to close the tray.

Step 5: Set the Kramer Switch box to In 1 - Tascam (Button should turn Red)

Step 6: Verify the Master slider on the Alesis iMultimix 9R (Sound Mixer) is set to about 3/4s of the way. This is the master volume to the audience

Step 7: Set the volume level for the Kramer Switch box (Channel 7) on the Sound Mixer. This higher the slider is the louder the volume.

Step 8: Test the CD and adjust the volume to the level you want

Optional:

To set the volume of the stage monitors (speakers) you will need to turn the Red AUX1 knob for Channel 7. If you want it louder turn it clockwise, softer turn it counter clockwise.

# How to Use the Apple TV

---

Step 1: Turn on the sound system by flipping the Power Switch on the Fuman PDU (Power Distribution Unit)

Step 2: Turn on the Projector

Step 3: Set the Kramer Switch box to HDMI 1 - AppleTV (Button Should Turn Purple)

Step 4: Verify the Master slider on the Alesis iMultimix 9R (Sound Mixer) is set to about 3/4s of the way. This is the master volume to the audience

Step 5: Set the volume level for the Kramer Switch box (Channel 7) on the Sound Mixer. This higher the slider is the louder the volume.

Step 6: Connect the Apple TV with your iPad using AirPlay

Optional:

To set the volume of the stage monitors (speakers) you will need to turn the Red AUX1 knob for Channel 7. If you want it louder turn it clockwise, softer turn it counter clockwise.

# How to Use the Computer

---

Step 1: Turn on the sound system by flipping the Power Switch on the Fuman PDU (Power Distribution Unit)

Step 2: Turn on The Projector

Step 3: Turn on the Laptop

Step 4: Set the Kramer Switch box to UXGAI 1 - Computer (Button Should Turn Purple)

Step 5: Verify the Master slider on the Alesis iMultimix 9R (Sound Mixer) is set to about 3/4s of the way. This is the master volume to the audience

Step 6: Set the volume level for the Kramer Switch box (Channel 7) on the Sound Mixer. This higher the slider is the louder the volume.

Step 7: Test the Laptop making sure the video and audio is working

Optional: To set the volume of the stage monitors (speakers) you will need to turn the Red AUX1 knob for Channel 7. If you want it louder turn it clockwise, softer turn it counter clockwise.



# How to Use a Wireless Microphone

---

Step 1: Turn on the sound system by flipping the Power Switch on the Fuman PDU (Power Distribution Unit)

Step 2: Turn on the wireless Microphone (Check battery level on microphone)

- a. Handheld microphones are turned on with a small red button on the bottom of the handset.
- b. Bodypacks are turned on with an On/Off button located on the inside of the battery door. Open the door by pushing the buttons on the side of the bodypack.

Step 3: Verify the Master slider on the Alesis iMultimix 9R (Sound Mixer) is set to about 3/4s of the way. This is the master volume to the audience

Step 4: Set the volume level for the Microphone to a desired level. Depending on which microphone you are using you will edit the appropriate channel. This higher the slider is the louder the volume.

- Channel 3 - Handheld 1
- Channel 4 - Handheld 2
- Channel 5 - Headset 1
- Channel 6 - Headset 2

Step 5: Test the Microphone to verify you are happy with the audio level

Optional: To set the volume of the stage monitors (speakers) you will need to turn the Red AUX1 knob for Channel 3-6. If you want it louder turn it clockwise, softer turn it counter clockwise.