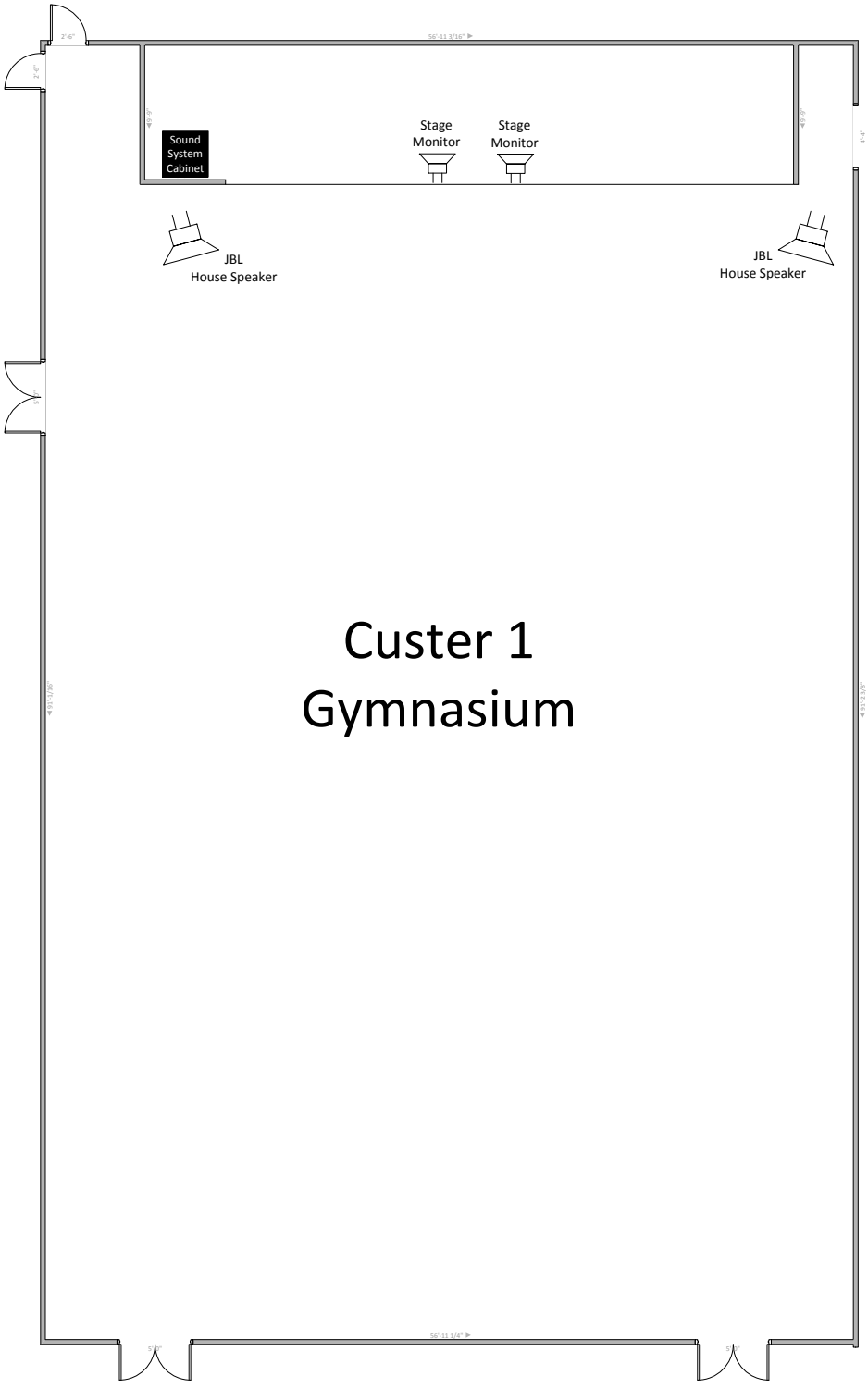
Custer 1 Sound System Documentation

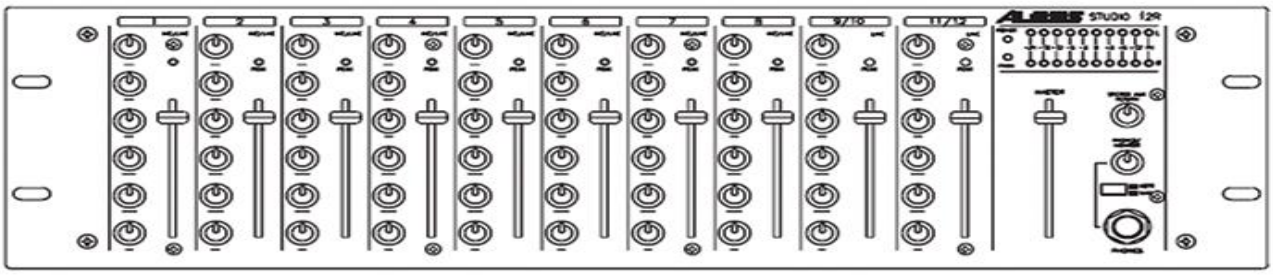


Components

- 1 - Alesis iMultimix 12R (Sound Mixer)
- 1 - Tascam CD-200i (CD/iPod Player)
- 1 - Crown XLS 1500 Power AMP (House and Monitors
- 4 - Sennheiser ew100 G3 Receivers (2 Handhelds, 2 Body Packs)
- 1 - Fuman M-8x PDU
- 2 - JBL EON 15” Speakers (House Sound)
- 2 - Stage Monitors (Stage Sound)

Alesis iMultimix 12R

The Alesis iMultimix is the main mixer for the Custer 1 Gym 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 ten input audio channels.



Channel 1 – Stage XLR Channel 1
Channel 2 – Stage XLR Channel 2
Channel 3 – Stage XLR Channel 3
Channel 4 – Stage XLR Channel 4
Channel 5 – Sennheiser ew100 3G Handheld 1
Channel 6 - Sennheiser ew100 3G Handheld 2
Channel 7 – Sennheiser ew100 3G Bodypack 1
Channel 8 – Sennheiser ew100 3G Bodypack 2
Channel 9 – Tascam CD-2001
Channel 10 – Projector

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 Custer 1, 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.

Sennheiser Wireless Microphones

The Sennheiser Wireless Microphones installed at Custer 1 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 Custer 1 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 - 523.500 MHz
Handheld 2 - 533.875 MHz
Headset 1 - 516.950 MHz
Headset 2 - 527.650 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: Verify the Master slider on the Alesis iMultimix 12R (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 Tascam CD-200i (Channel 9) on the Sound Mixer. This higher the slider is the louder the volume.

Step 8: 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 9. 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: Verify the Master slider on the Alesis iMultimix 12R (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 Tascam CD-200i (Channel 9) on the Sound Mixer. This higher the slider is the louder the volume.

Step 7: 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 9. 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 and set to the Computer 1 input

Step 3: Connect the laptop to the wall plate in the room for video and audio (Located on the stage)

Step 4: Turn on the Laptop

Step 5: Verify the Master slider on the Alesis iMultimix 12R (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 projector (Channel 10) 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 10. 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 12R (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 5 - Handheld 1
Channel 6 - Handheld 2
Channel 7 - Headset 1
Channel 8 - 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 Channels 5-8. If you want it louder turn it clockwise, softer turn it counter clockwise.