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Setup for recording with one microphone

(Done BEFORE turning on the computer)

1. Samson C01 microphone is plugged into XLR In 1
2. 48V is pressed in
3. Gain is set to 35
4. Volume Fader is set to 10
5. Red and White cables go out from TAPE to Amplifier
6. Headphones are plugged into PHONES
7. FIREWIRE OPTION is pressed
8. ASSIGN TO MIX is pressed
9. Main mix is set to 20
10. CONTROL ROOM is the same as in the diagram
11. PHONES is set to the same as in the diagram
12. Turn the Mixer ON
13. Turn the Amplifier ON
14. Set Speakers to A+B
15. Make the Balance and volume knobs the same as in the diagram
16. LOW LEVEL is depressed
17. LOUDNESS COMP is depressed

Stereo Amplifier 3130

NAD

PHONES

POWER

BALANCE

VOLUME

MIXER
After confirming the mixer and the amplifier settings are set to the above page turn on the computer.

Check the Audio preferences (shortcut option + F11)

Input and Output must be set to Onyx Firewire

Attaching the M-Audio Keyboard

1. Attach the M-Audio Keyboard to the computer using the USB cable

2. Turn the M-Audio Keyboard **ON** by using the switch in the back (pictured below)
GarageBand + MIDI Keyboard

If GarageBand is open when you plug in the keyboard a dialog box will pop up:
Click OK.

Setting up a Midi Keyboard track:

From the menu at the top choose
Track > New Track
Software Instrument Track > Create

At the Bottom right of the GarageBand window a library of instruments that can be assigned to the keyboard will appear.
Setting up a microphone track:

To record from a microphone there first needs to be a microphone track.

To make a new Track
1. Track > New Track>
2. Real Instrument Track> Create
3. In the bottom right part of the GarageBand window select Input Source
4. For a single Microphone choose Mono [Channel #](Onyx Firewire)
   Where # is the channel that the microphone is connected to
5. Make sure Monitor is set to OFF.

To record in GarageBand
1. Set the play head to where the recording will begin
2. Click the record button at the bottom of the screen

To stop a recording do any of the following:
Press the spacebar
Click the play button
Click the record button

GarageBand - Metronome
A metronome helps keep time by making a sound at a constant interval. To shut off the metronome go to:
Control> Metronome or press Command + U
Final Cut

To record a Final cut voice over there needs to be something in the time line for final cut to voice over. Even if the recorded audio is just meant for export. To record a voice over click:

1. **Tools**
2. **Voice over**
   or **Option + 0**

Make sure that both **Input** and **Source** are set to **Onyx Fire Wire**.

Before recording check to make sure that Final Cut is registering audio. The bar under input should reflect changes as sound enters the microphone.

To start recording:
1. Click **Record button**.
   Final Cut will start recording after the timer goes to zero

To stop recording:
2. Click the **Stop button**.
Onyx 1220 Mixer

**XLR In**
Microphone cords are plugged into these ports

**Phantom Power (48V)**
Labelled as 48V Phantom Power provides power to the microphone in the port directly above the button. When on a green light will be lit above the button.

**GAIN**
Controls the level at which the Mixer uses a channel. If the volume is set to maximum on the computer and voices are audible or the recording is distorted and loud use this for fine tuning.

**Equalizer Controls**
For fine tuning the audio as it is being recorded. Affects the bass and treble. Different settings can be used for optimal recording, however if you do not already have a knowledge of Equalizer settings it is recommended that the Equalizer controls remain untouched.

**MUTE**
Mutes a channel. Muted channels will not play sound out of the speakers. It is recommended that this is left ON while recording so that it removes the risk of feedback from the speakers. When the red light next to the MUTE button indicates that MUTE is on. If the MUTE does not work in GarageBand make sure that **DO NOT MONITOR** is set (see GarageBand Microphone recording)

**Volume Fader**
Controls the volume of each channel.

**SOLO**
Singles out one channel and mutes all channels not set to Solo. More than one channel can be set to Solo at once.

**MAIN MIX**
The Mixer’s master volume controller. Adjusts the final output from the mixer to the speakers.
Microphones

Sampson C01 Large Diaphragm Condenser Microphone
Ideal for: Single user, interview and singing

This is the Samson C01 is a high quality microphone used for recording a single voice in close situations. It requires phantom power to work (V48), and when the power is being supplied you will see a blue light illuminated on the front. The user must speak directly into the front of the microphone, projecting sound towards the side with the blue light. It will not pick up sound as well from other directions.

Sampson C02 Small Diaphragm Condenser Microphone
Ideal for: Group recordings, Singing, non-amplified instruments

The Samson C02 is used for recording groups of people. Using two together, just slightly skewing the angle, provides for stereo recording. If for any reason you don’t have enough microphones to record a large session interview, then this is a great alternative. They can also be used to record drums, acoustic guitars, or wind instruments.

Audix 0M2 Dynamic Vocal Microphone
Ideal for: singing and non amplified instruments.

A standard level recording microphone, Mainly for recording one voice, in a singing or interview situation. Next microphone to use after all of the C01 microphones have been exhausted. The Audix microphone can also be used to record groups and instruments in the same manner as the Sampson C02 microphones but the quality will not be as good.

Audix i5 Dynamic Instrument Microphone
Ideal for: non-amplified instruments, backup vocal microphone

The Audix i5 microphone is designed for use on percussion, wind instruments, and acoustic instruments. It has a very tight pickup pattern, good for isolating sounds.
Suggested recording Techniques:

Single Person

Recording with several people is the same as with one person just repeated on different channels
Suggested Stereo Recording

Singing Groups

Multi person interviews where there are not enough microphones for each person to have their own.