

Name: _____

MUS 14A ~ Introduction to Music Technology
Exploring the Music Technology Lab Equipment

This activity involves taking some time to get to know the characteristics of each piece of gear in the music technology lab. The best way to do this is to look at the manual or the specification sheet, which will provide many of the details discussed in Chapter 5 (Audio Hardware). Many manuals for synthesizer equipment and audio interfaces have a page or two of specifications at the back. Many manuals are available as PDFs online.

Microphone

Name:	Rode NT1-A Microphone
Link:	https://www.bhphotovideo.com/lit_files/589217.pdf
Condenser or dynamic?	
Large diaphragm or small diaphragm?	
Polar pattern(s)?	
Other details (uses battery, stereo mic, etc.)?	

Line Level Devices: Synthesizers, Modules, Hardware Processors

Name:	M-Audio Oxygen 61 MKV Keyboard Controller
Link:	http://manuals.audiomania.ru/data/m-audio_oxygen_61_mk_v.pdf
Type of input/output connectors?	

Mixer

Name:	Zoom LiveTrak L-20 20-Channel Digital Mixer
Link:	https://zoomcorp.com/media/documents/E_L-

Number of mic/line inputs?	
Number of line-only inputs?	
Number of buses?	
Number of outputs?	
Special features, such as effects?	

For each mic/line input:

Phantom power?	
How much gain is available using gain knobs?	
Pads on inputs? If so, how many dB?	
Instrument level (High-Z) input available?	
Number of bands of EQ? Types and frequency range?	There is a Channel Strip section with a 3-band Mid-Parametric EQ
Mute and solo?	

For each line-only input:

+4 dBu or -10 dBV?	+14 dBu
Balanced, unbalanced, or either?	
Connectors?	
Mono or stereo?	

Number of bands of EQ? Types and frequency range?	There is a Channel Strip section with a 3-band Mid-Parametric EQ

Audio Interface

Name:	Focusrite Scarlett 18i8 2nd Generation Audio Interface
Link:	https://static.bhphotovideo.com/lit_files/374164.pdf
Number of preamps?	8 Analogue Inputs
Phantom power for preamps?	
How much gain is available using gain knobs?	
Pads for preamps? If so, how many dB?	
High-Z instrument level inputs? How many?	
Line level inputs? How many?	
Line level connectors?	
Line level inputs +4 dBu or -10 dBV?	Microphone Inputs = Maximum Input Level of +8.5 dBu (without pad) Line Inputs 1 & 2 = Maximum Input Level of +22 dB Line Inputs 3–8 = Maximum Input Level of +16 dBu
Line level inputs balanced, unbalanced, or either?	
How many simultaneous inputs?	

Number of line level outputs?	
Line level output connectors?	
Line level outputs +4 dBu or -10 dBV?	Maximum Output Level (0 dBFS) = +16 dBu, balanced
Line level outputs balanced, unbalanced, or either?	
Digital inputs/outputs?	
Digital input/output type and connector?	
Support for direct monitoring?	

Monitors (Speakers)

Name:	Yamaha HS5 5" Powered Studio Monitor Pair (White)
Link:	https://www.pdf-manuals.com/pdf/yamaha-hs5-powered-studio-monitor-hs5-b-h-photo-video-218380-user-manual.pdf
Active or passive plus power amp?	
Two-way or three-way?	
Bottom end of frequency range?	
Subwoofer?	
