

# SETUP Room 135

The following guide ensures correct operation of the components in this space.



This room consists of the following setup from left to right:

- |                          |   |                               |
|--------------------------|---|-------------------------------|
| Genelec 8020 (5.1)       | - | Speakers                      |
| Ableton Push 1           | - | Midi Controller keyboard      |
| Focusrite Scarlett 18i20 | - | Multi Channel Audio Interface |
| XLR                      | - | Patchbay                      |
| Apple Mac Pro            | - | Audio Workstation             |
| Nord Stage 2             | - | Synthesizer/Midi controller   |

## **FUNCTION:**

The Music Composition / Editing Room has the capability to record up to 8 analog input signals in real time: a combination of 8 mic **or** line level signals.

# SOUND Playback

## Switching Off and On

Below picture shows the main setup in this space. Initially it is a connection between the IMAC workstation, the soundcard and the speakers directly.

### **Switching On** procedure:

- 1 - Mac pro workstation
- 2 - the Scarlett Audio Interface.
- 3 - the five Speakers.

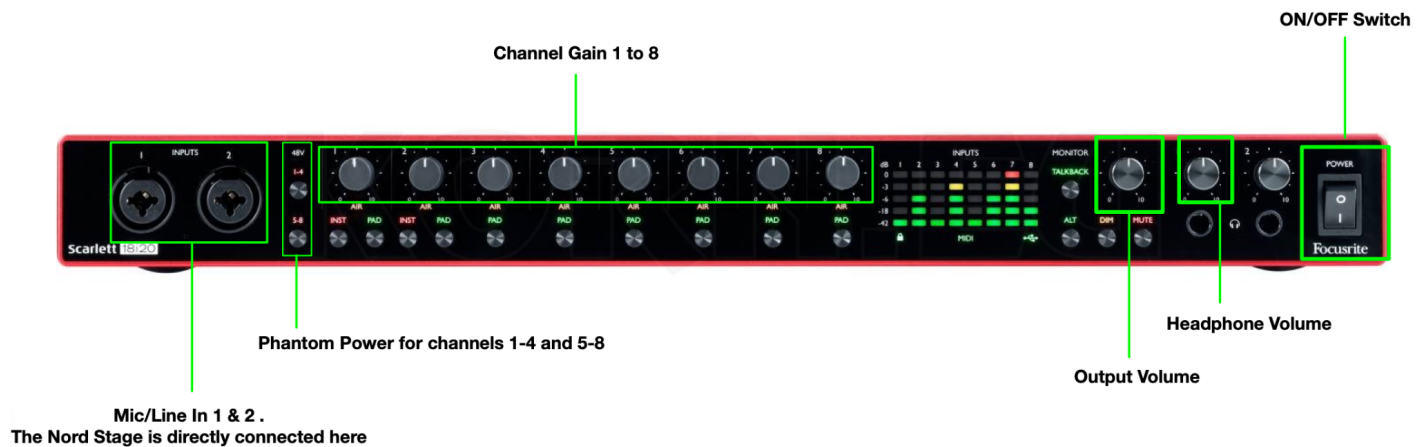
**Switching off** procedure same as above in reverse order.

- 1 - the five Speakers
- 2 - the Scarlett Audio Interface.
- 3 - Shutting down the Mac Pro.

# SOUND Playback

The Audio Interface unit:

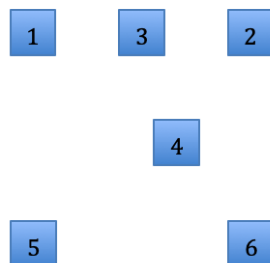
The Focusrite Scarlett unit is an integral component of this space.



Output volume: Volume to Genelec Speakers  
Headphone 1 socket: Volume to headphone 1

## 5.1 configuration

The room is equipped with 5 Genelec 8020 speakers, configured in the following way:

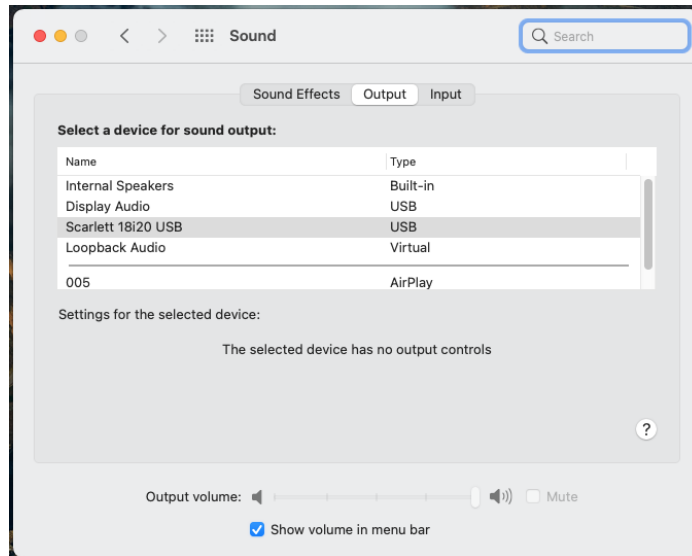


1 - Front Left  
2 - Front  
Right  
3 - Center  
4 - LFE  
5 - Left Rear  
6 - Right



## The Computer settings:

Computer settings need to be selected as in below picture in:  
**System Preferences => Sound**



# SOUND Recording

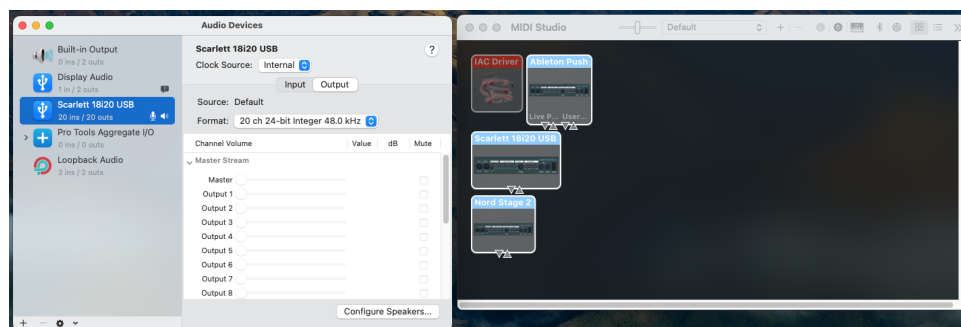
## Recording Virtual Instruments / Midi

You have essentially 2 MIDI controllers which can be used to enter MIDI data:

The Ableton Push  
The Nord Stage

If you have difficulties setting up any of these Controllers in your respective Audio software, do the following:

1. Make sure the unit is connected via USB to the computer
2. Switch the device off and on again
3. Check Applications => Utilities => **Audio Midi setup** => Window: Show MIDI Studio

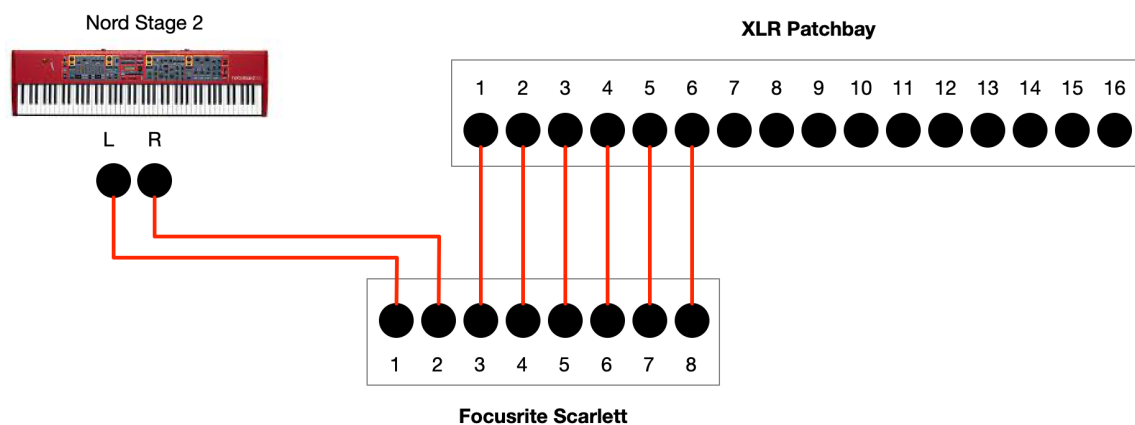


If you can't receive any MIDI signal, check with the music department in Office 107 or send an email to: [nyuad.music@nyu.edu](mailto:nyuad.music@nyu.edu).

## Signal Flow

If you intend to connect or use external gear like microphones, Guitars, synthesizers you would need to know the signal flow between the devices in the rack to successfully capture a sound source.

Below is a diagram, which will help clarify how the different pieces of equipment are connected and interact with one another.



The main things to note from this diagram are as follows:

- The Nord Stage Synthesizer is directly connected to the Line inputs 1 & 2 in the front panel of the Focusrite Scarlett.
- XLR patchbay 1-6 are directly connected to the Mic/Line Ins 3-8 of the Focusrite Scarlett

**Initially the signal flow is through the XLR Patchbay.** Any signal connected there will go to the Scarlett Audio Interface as indicated on the patchbay.

As you can see, the first eight inputs on the XLR patch bay are routed to the **Scarlett MIC/Line in**, which is routed to your DAW. These **1-6** inputs **correspond** to your **3-8** inputs in your DAW. You can set levels directly on the **Scarlett** by using the trim knobs numbered 1- 8 and locate settings via the **Focusrite Control** software located on the dock. See below:



Below is a signal FLOW CHART:

PATCHBAY	Motu Hardware unit	DAW INPUT
Nord stage (not on patchbay)	MIC/Line IN 1	Input 1
Nord stage (not on patchbay)	MIC/Line IN 2	Input 2
MIC/Line IN 1	MIC/Line IN 3	Input 3
MIC/Line IN 2	MIC/Line IN 4	Input 4
MIC/Line IN 3	MIC/Line IN 5	Input 5
MIC/Line IN 4	MIC/Line IN 6	Input 6
MIC/Line IN 5	MIC/Line IN 7	Input 7
MIC/Line IN 6	MIC/Line IN 8	Input 8

## Using the Nord Stage as MIDI keyboard

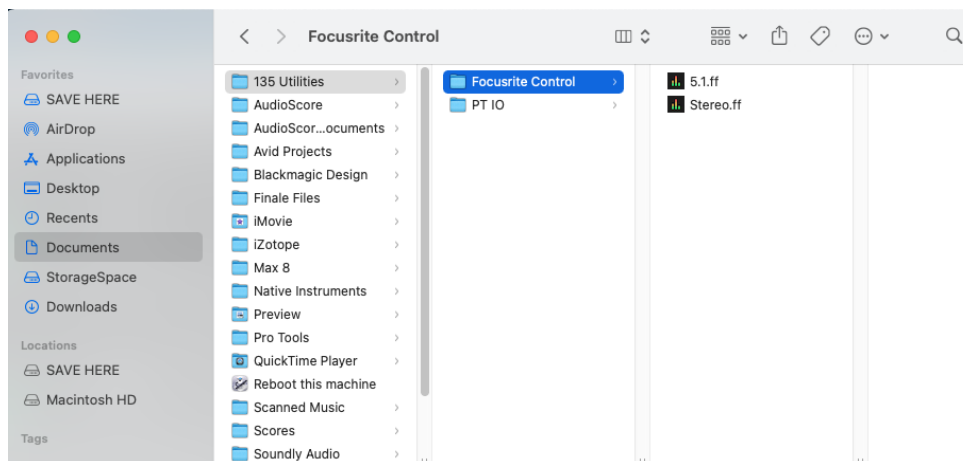
The Nord stage can be used as a synthesizer, if you are interested in the sounds that it generates, or as a midi keyboard, that you can use to play and control virtual instruments.

If this is how you intend to use the Nord Stage, please turn down the volume knob (see picture below) so that no sound coming from the Nord Stage can be heard. Since the midi messages are still being sent to the computer, you can now use the Nord keyboard to play a given virtual instrument in a DAW of your choice.



## Sound Diffusion Layouts

Different Sound diffusion layouts are available. They can be found at **Documents>135 Utilities >Focusrite Control Layouts**



By double clicking these files, you will import their settings onto the Focusrite Control application, which will in turn route audio to different channels.

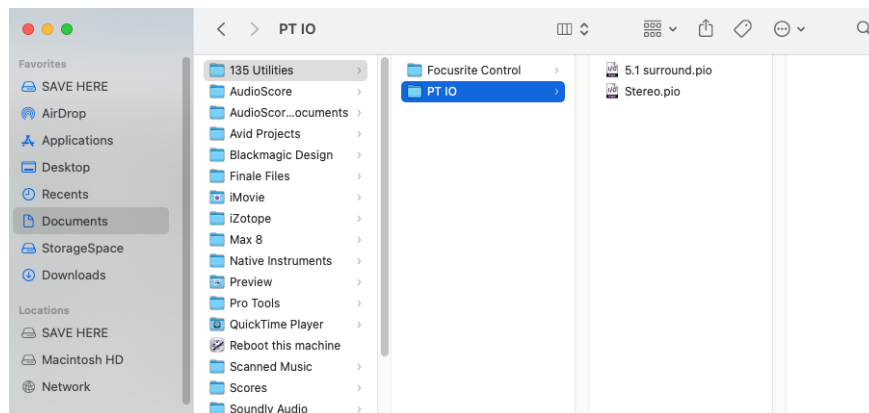
**Bellow is a brief description of each layout:**

- **Stereo** - Conventional Stereo Image. Speakers 1 and 2 are active.
- **5.1** - 5.1 Surround being fed by the Host Computer. DAWs, Multichannel .wav files, should be paired with this particular file. All speakers are active.

## Sound Diffusion Layouts - Pro Tools IO

Different IO configurations are available for Pro Tools. They can be found in **Documents>135 Utilities >PT IO**

- **Stereo** - Allows for audio output to be routed to Main Output 1&2
- **5.1** -Allows for audio output to be routed to the 5.1 system, as described in page 3.



# HAPPY RECORDING in 135.

For troubleshooting, please send an email to: [nyuad.music@nyu.edu](mailto:nyuad.music@nyu.edu)