# Recording Studio Induction

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## Recording Studio Induction Resources



## Induction presentation

Our Inductions have been created as slide shows for presentation and documentation purposes. Please feel free to download and use the guide and files as per our CC license in the footnote.

Some pages may link to other online workshops, tutorials or guides created at The Edge, you may require internet to connect and view links.

the_edge_-_recording_studio_induction_2024.pdf

recording_studio_booklet_2024.pdf

This wiki page is a supplement to the induction and can serve as a reminder of the basic operation of the studio and assist with troubleshooting issues.

## Outcomes

- Booking a session
- Safety
- Overview of recording studio hardware
- Power on/off procedure

- Microphone selection and positioning
- Overview of microphone Pre-Amp
- Setting gain on Pre-Amp
- Analog to digital audio signal path
- Recording audio
- Exporting audio

# Equipment

- RODE Broadcaster Microphone (mic)
- Mic lead
- Mic stand
- Pop-Filter
- Focusrite Microphone Pre-Amplifer (pre-amp)
- 500 series JLM Microphone Pre-Amplifier (pre-amp)
- Avid HD I/O
- Apple MacPro
- Audient Nero Monitor Controller
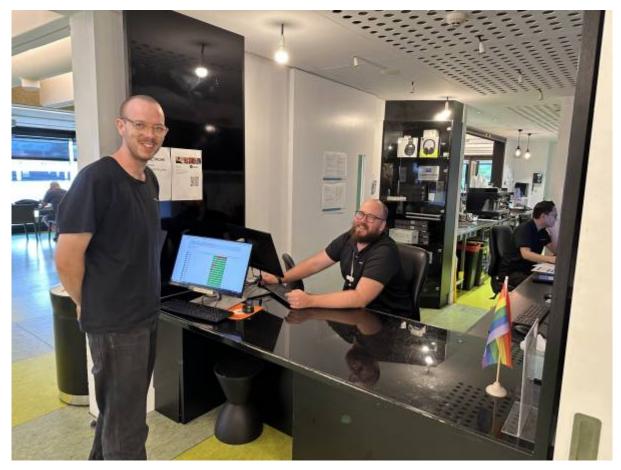- Adam A7 Studio Monitors.

# Making a booking

Once you have completed your induction with the facilitator you can make a booking here. You can book 2 sessions per week. Sessions are 2 or 4 hours long.

# On Arrival

When you arrive for your booking, check in at reception and one of the friendly Visitor Service Assistants (VSA) will open the studio, and supply you with your requested microphones. You can view the available microphones here.

## Acorn Online Component

Acorn is our database that holds your induction access details. Please enrol into the specific induction you are completing with the SLQ Acorn website. NOTE: This website is only available onsite at SLQ. [https://inductions.slq.qld.gov.au/user_login](https://inductions.slq.qld.gov.au/user_login)

## Support Info

### START UP PROCESS

Turn on in sequential order:

1. Both the Avid HD-Native and the Digidesign 96i Audio Interfaces
2. Denon CD/ Cassette player (Optional)
3. Focusrite Clarett Octo Pre
4. Mac Pro Rack
5. KRK Subwoofer (Optional)
6. Adam AC7 Monitors

[https://www.dropbox.com/scl/fi/kzr1afne8qp6qe7jhu771/Rec-Studio-Start-Up-Process.mov?rlkey=mm258bilfj8xg35rkhh7h6nxc&dl=0](https://www.dropbox.com/scl/fi/kzr1afne8qp6qe7jhu771/Rec-Studio-Start-Up-Process.mov?rlkey=mm258bilfj8xg35rkhh7h6nxc&dl=0)

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**SHUTDOWN PROCESS**

Essentially, this is the reverse order of the startup process. Shut down in sequential order:

1. Adam AC7 Monitors
2. KRK Subwoofer (Optional)
3. Mac Pro Rack
4. Focusrite Clarett Octo Pre
5. Denon CD/ Cassette player (Optional)
6. Both the Avid HD-Native and the Digidesign 96i I/O Audio Interfaces

Care must be taken at all times when powering equipment up and down.

This order protects the speakers from voltage spikes during powering on and also ensures the software and computer recognise the connected equipment.

https://www.dropbox.com/scl/fi/odbz6jqtsgrlg002vgiem/Rec-Studio-Shutdown-Process.mov?rlkey=77 mpgmz6jivmal1p8q1lwuetu&dl=0

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**I'VE OPENED A SESSION, BUT I STILL CAN'T HEAR ANYTHING?**

- Check the volume level on the Audient monitor controller
- Make sure you are monitoring the "main" input which is the HD audio interface (SRC 1 on the Audient)
- Check the speakers are on.
- Ensure the playback engine is correctly set to "HD Native" in software preferences. If it is not showing up, power down the studio and power on in the correct order (see startup process).

https://www.dropbox.com/scl/fi/cp38falyq8crv9ceaayun/Ive-opened-a-project-but-cant-hear-anything. mov?rlkey=nzodwj0rinrkfmmt1ux28s2s8&dl=0

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**WHY IS MY MICROPHONE RECORDING DISTORTED?**

• Check the level meters on the HD audio interface and DAW software to make sure the meters are not showing red. Adjust the microphone pre-amp if needed.

https://www.dropbox.com/scl/fi/my0n9e44904hhbblyrrf5/Why-is-my-microphone-distorted.mov?rlkey= zq3qlf3m12zr3csmy46n1qzsb&dl=0

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WHY IS MY CONDENSER MICROPHONE NOT WORKING?

Ensure phantom power (48v) has been switched on at the microphone pre-amp.

https://www.dropbox.com/scl/fi/8le2l6ul385dy1cdl02t9/Why-is-my-condenser-mic-not-working.mov?rlkey=vxa6asufm61gxxn9sddsimuw7&dl=0

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HOW TO CHECK THE CORRECT AUDIO INTERFACE (i.e. HD NATIVE) IS SELECTED AS THE INPUT AND OUTPUT DEVICE IN THE DIGITAL AUDIO WORKSTATIONS (DAWs)

- Ableton Live: Live>Preferences>Audio tab>Audio Input & Output Device = HD Native
- ProTools: Setup>Playback Engine>HD Native
- Logic Pro: Logic Pro>Preferences>Audio>Output & Input Device = HD Native
- GarageBand: GarageBand>Preferences>Audio/Midi>Input Device & Output Device = HD Native
- FL Studio: Options>Audio settings>Input/Output Device = HD Native
- Audacity: Audacity>Preferences>Devices>Playback & Recording Device = HD Native

If HD Native is not appearing as an option in any of the DAWs and the HD Native Audio Interfaces are switched on, it's likely the audio interfaces were switched on in the incorrect order (e.g. after the Mac Pro was powered on) and you will need to Shutdown and repeat the Start Up process following the steps in sequential order.

https://www.dropbox.com/scl/fi/pfvwsgsivu8g948nptzcr/How-to-check-the-correct-audio-interface-is-selected-in-your-DAW.mov?rlkey=yhjiva0izottevuz205jblzk3&dl=0

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WHY AM I NOT HEARING ANYTHING IN THE HEADPHONES?

Ensure the headphone level on the Audient volume controller is at a sufficient level. The HP 1 knob corresponds with the studio headphones input (there are other headphone inputs labelled and available on the desk patch bay if you require more than one set of headphones for recording or listening back).

https://www.dropbox.com/scl/fi/tzg7mwaof78z680u6c4d8/Why-cant-I-hear-the-headphones.mp4?rlkey=8um7qoj2019dbtj6z375mp02x&dl=0

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ENSURING THE SAMPLE RATE IN YOUR DAW MATCHES THE AUDIO INTERFACES AND THE FOCUSRITE OCTOPRE

By default, the signal flow of the MIC 1 and MIC 2 inputs on the patch bay flows through the Focusrite Octopre and you need to ensure the Octopre is set to the same sample rate as your project in the DAW and the HD Native audio interfaces.

If the sample rates are not matched the audio recording may have pitching errors and/or contain undesirable digital artifacts. Unfortunately, the Octopre does not automatically sync the sample rate to the HD Native audio interfaces so you may need to manually adjust if they are not matched.

If unsure where to check the sample rate in the DAW a quick Google search will provide you with an answer (e.g. "How do I change the sample rate in Ableton Live").

[https://www.dropbox.com/scl/fi/enef7nlrw47flxjtk897r/Checking-the-sample-rate-of-your-project.mov?rlkey=uovqgvvtzkp4cj8np38ufonea&dl=0](https://www.dropbox.com/scl/fi/enef7nlrw47flxjtk897r/Checking-the-sample-rate-of-your-project.mov?rlkey=uovqgvvtzkp4cj8np38ufonea&dl=0)