

Audio Visual Cart

Last updated June 11, 2018 Click on highlighted items for more info

Overview

The audio visual cart was constructed to give researches the ability to record audio and video for their experiments. The cart is powered by a mac mini. It comes equipped with an [RME Babyface Pro](#) audio interface and an AKG C214 microphone for use for audio recording. It also comes with a [Panasonic GH4](#) camera and a Neewer Camera Photo Video Lighting Kit for video recording. While trying to troubleshoot issues, it may be helpful to reference the instruction manuals of these individual items if necessary.

Recording Audio

1. Make Connections

Make connections of microphone, USB cables, headphones, and power cables.

2. Turn on and login to computer

Use the password *technology* to login.

3. Open TotalMix FX and Fireface USB settings

Click on the Fireface USB and TotalMix FX icons in the dock



In Fireface USB, make sure EQ for Record is unchecked and Sample Rate is set to 192000 Hz.

In TotalMix FX, look at the right side of the window. Under Snapshots, select "Audible Mic" to hear the microphone in headphones while recording. Select "Muted Mic" to have the Mic muted while recording.



4. Open Audacity

Click on the Audacity icon in the dock.



Make sure The device toolbar matches these settings



5. Record

Use the mic drawbar to adjust preamp gain.



Click the red record button at the top of the window to start Record and press the square Stop button to end the recording.

In the top menu bar, go to File -> Export -> Export as WAV.

Name your file in the format Experiment_Researcher_Date(MM-DD-YY), choose the folder "Audio Recordings" on the desktop, and press Save.

Ignore other parameters and press OK on the next screen.

(Optional) If you would like to save the project, go to File -> Save Project As...

(Optional) Name the project in the format Experiment_Researcher_Date(MM-DD-YYYY), choose the folder "Audacity Projects", and press Save.



6. Tear down

Unplug microphone and close software.

Turn off the computer and unplug the media cart.

Wrap all cables and put them away nicely on the cart.

Recording Video

1. Plug in and turn on lighting ring

Plug the lighting ring into the AV cart.

Twist the knob at the bottom of the ring to increase the brightness.

2. Remove lens cap and turn on camera

3. Record

Make sure the camera is on video mode and use the shutter button to begin recording.

4. Save recording on computer

Turn off the camera, take off the SD card, and plug the SD card into the mac mini computer.

Transfer the recorded file into the folder "Video Recordings" and rename the file in the format Experiment_Researcher_Date(MM-DD-YYYY).

5. Tear down

Turn off and unplug the lighting ring.

Turn off the computer and unplug the media cart.

Wrap all cables and put them away nicely on the cart.



Equipment List

- [AKG C214](#)
- [Gator GM](#)
- [25 ft XLR](#)
- [RME Babyface Pro](#)
- [Audio Technica](#)
- [Mac Mini](#)
- [V7 L23600WHS-9N](#)
- [Mount-it! MI-751](#)
- [HDMI](#)
- [Macally Full Size USB Wired Keyboard](#)
- [Amazonbasics Mouse](#)
- [Norwood Commercial](#)
- [Pro Co 25 ft](#)
- [On Stage Stand](#)
- [Panasonic GH4](#)
- [Panasonic Lens](#)
- [Ring Light](#)