Outline of Sight & Sound Film Production Sound Tech

Location: 9th Floor Production Center, Check out Area

These kits are available for 48 Hour checkouts per person from the fundamentals area
Request this kit from reservations first then go to fundamentals to get it.

Set Up:
- One Zoom Recorder unit per table. (Flashcard, mic, and accessories are included)
- One demo kit at the front of the room.
- Two AA test batteries set aside for each unit.
- On whiteboard: Nyu.edu/FilmGuide (there are manuals on-line)

Staff: One staff person leads tech

Format: Intro Lecture followed by Tech Exercise
Duration: TBA

1. MEDIA

- SD Card
- Do NOT use Microdrives since they are susceptible to shock and vibration
- Use (these cards - look up)

2. FORMATTING CARDS

- Do this EVERY time you use a new or erased card!
- Always format with unit and not on a computer
- Press 'Menu'
- Track Down with Scroller to SD Card
- Press Enter
- Scroll Down to Format Card
Are you sure?
  - Select: YES
Think about your headphones - They send up LEFT and RIGHT signals that have been mixed for your listening pleasure. Often this sound is mono tracks doubled up and then mixed with an array of filters for the ultimate sound quality!

4. Connect your Microphone via an XLR Cable to the input on your Zoom H5 Recorder

This field recorder has four inputs and can accept up to four simultaneous “layers” in two separate files.
Your microphone is a MONO recorder which means it can only record one track if you are not using your internal mic.

Reason: It’s Sight and Sound. They want you to focus on sound as an art form separately from picture as if you were hearing the picture.

“SOUND is half the experience”
- George Lucas

MONO SOUND FILE IN
Non-Linear Editing System

STEREO SOUND FILE IN
Non-Linear Editing System
CONNECT YOUR CK-93 Capsule to your AKG. Lock it in by turning it counterclockwise and make sure you hear a gentle click. Be careful not to force it. Forcing it could cause the bottom piece of the capsule to become loose or break off.

Connect the female XLR port of the AKG to the male end of your XLR Cable.
PHANTOM POWER - 48V

Phantom Power is that little extra juice it takes to boot up your Microphone! If you read at the bottom of your AKG Base you can see it says “P12-48” this means it needs a minimum of 12volts and a maximum of 48 volts for you to be able to hear anything.

5. Enable Phantom Power on your Zoom H5
   - Press Menu
   - Select IN/OUT
   - Select 1 / 2 PHANTOM
   - Scroll down to VOLTAGE and ensure in the right hand corner it says +48V > This is the voltage level we set all of our Phantom Power enabling devices at in the Production Center.
   - Scroll up to ON/OFF
   - Enable the INPUT that will need the Phantom Power (the one your microphone is plugged into)
   - Turn off the INPUT that does not need this juice. You will waste less battery power not sending Phantom Power where you don’t need it. It also will help you troubleshoot down the road to ALWAYS use the system that works best for you.

(For Future Reference): Phantom Power can also be referred to as PH, 48V, 12V
HEADPHONES

FACTS - These headphones are considered industry standard. Everyone uses them because they know what it sounds like when something is wrong. Use them over your beats / ear buds to be more professional.

Headphone care:
There are two kinds of people in this world.

1) People who take care of their headphones.

2) Monsters

DO NOT WRAP THE COILED CABLE AROUND THE HEADPHONES

Leave headphones in bag sitting coiled wire in first.
HEARING VS. RECORDING

Everything in sound recording is a question of does it sound fine and does it record fine?

VOLUME: how loud you are hearing something
GAIN: how sensitively you are recording something

Over-modulating: The lights will blink RED if it is peaking. Think of over-modulating as overexposing an image - once it’s distorted, that “image” is not there.

Peaking: Is what happens when you over-modulate.

3. SETTING YOUR RECORD FORMAT

- Select MENU
- Select REC
- Select REC FORMAT
- Select: WAV48kHz/24 Bit

Why? Post Production Center Recommends this because: You are recording at the highest “Resolution” for your buck. Most editing software at this point can accept this rate and if they cannot you can always convert down.

What the heck is kHz?

It’s a KiloHertz

Let’s break that down:

Kilo means 1,000 (think Kilometers)
Hertz - a unit of frequency

So a KiloHertz is a measure of frequency equivalent to 1,000 cycles per second. Think of it like frame rate on a camera!

Bits are the rate of 1s and 0s that are being recorded...the more Bits per second, the faster the read.
7. SET YOUR RECORD MODE

- Select MENU
- Select REC MODE
- You have 2 menu options:
  - MULTI FILE
  - STEREO FILE

STEREO MODE

MULTIFILE MODE

Stereo File creates ONE File with TWO tracks

MULTIFILE creates TWO FILES with UP TO TWO TRACKS each

.timestamps are metadata created from the Zoom
8. DECIDE WHERE YOU WANT TO SEND YOUR RECORDINGS

If you are recording a StereoFile -

Good news! You really don’t have a choice!

You must select either L, R (which is always referring to your attached provided stereo mic)
OR 1, 2 which is your mono mic.

If you are recording a MultiFile you may select L, R (your stereo mic) OR inputs 1 and 2.

Hint - Select the input
9. SELECT THE FOLDER YOU WANT TO SAVE RECORDING(s) TO
-Select Menu
-Select Folder
-Select what folder you want to be saving all your files in - you have an option of 1-10

*Please note that when you load your card onto a computer you will always see 10 folders for each record setting (See REC Format) whether you saved to them or not. To find your files, remember what record format you saved in down the road.

10. RECORD
-Hit the Record Button to record
   You will see a timecode counting up. Congratulations - you’re recording!
-Hit the Stop Button to stop recording
9. PLAYBACK

- Hit Play to hear the last recording
- You can scroll through hitting the forward and back options

ALTERNATIVELY:
You can:
- Select MENU
- Select PROJECT
- Select Recording you wish to hear

10. IMPORTANT

- Do not interchange XLR cable with camera power cable

- When storing headphones in rig case, make sure to unplug them from the H5 Zoom Recorder otherwise, you may damage the phone jack.

11. Off-loading your recordings via USB CABLE

If your computer does not have an SD Card Reader - Have no fear! Your Zoom H5 also works as a card reader. All you have to do is:

a. Connect the micro USB cable from your Zoom H5 to a USB port on your computer.

b. On your Zoom H5:
   - Select Menu
   - Select USB
   - Select SD CARD READER

This will mount the Zoom H5 as an SD card on your computer.

12. SD CARD SAFETY

When offloading your card into the computer - Create your Disk Image just as you do with your footage and verify that it works before turning it off.