

# CINEMATECH #1

## Sony NX100 & Tripod

Fill out the attendance  
form



# Welcome!

- Instructor Introductions (name, pronouns, position)
- Production Office Overview
  - Equipment/troubleshooting questions:
    - [camsprodn@carleton.edu](mailto:camsprodn@carleton.edu)
    - 507-222-5434
  - Hours of operation
    - Monday - Thursday: 10am - 5pm
    - Friday - Sunday: 12pm - 4pm
- Resources
  - CAMS Production Office Website
  - [Manuals/Quickstart Guides](#)
  - Instructor Slides



# Appointments for Gear Pick-ups

## Intro Kit for ALL of Fall Term

- Make an appointment to pick up  
Week 1
- Make an appointment to drop off  
Week 10
- Equipment Release Form  
**REQUIRED**



Scan QR to access  
appointment portal, or  
access through your  
class Moodle

# Agenda

- Tripod Setup
- Using the Tripod
- NX100 Kit
- Settings
- Exposure
- Filming Practice
- Breakdown



# Tripod Setup



# Loosen, Adjust, Tighten



# Breakout

- As a group, work together to set up the tripod
- Level the tripod
- Practice panning, tilting and adjusting.

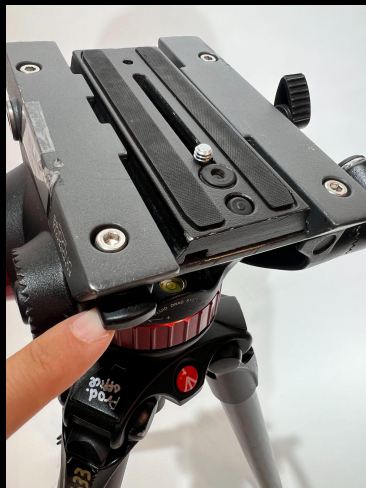
# Sony NX100



# COMPONENTS



# Mounting the Camera



# Parts of the Camera



# Buttons



# Battery

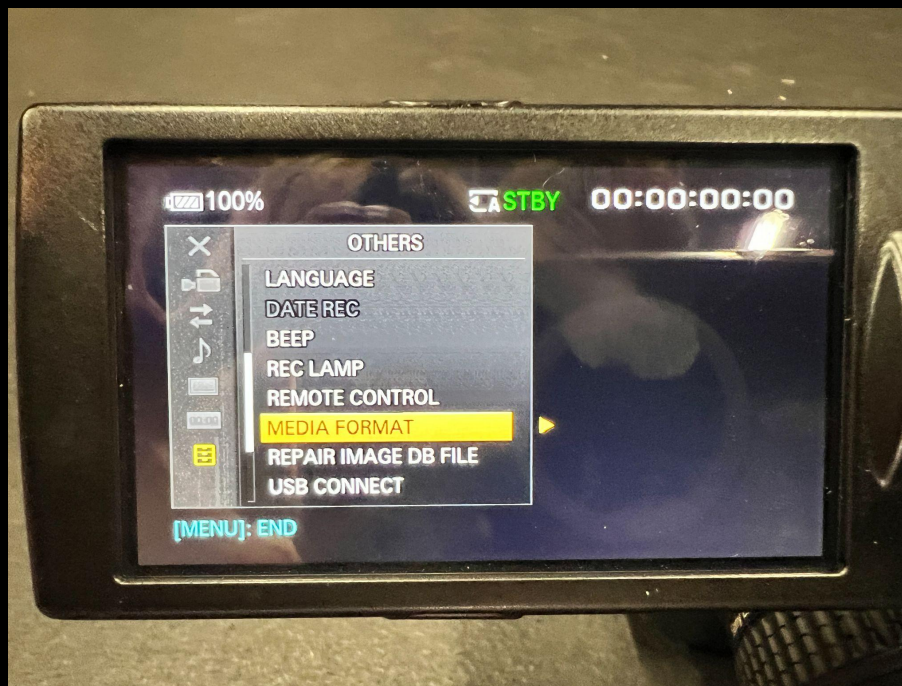
- Slides in
- Push BATT RELEASE button to release
- You should never have to force a battery in or out of the camera



# Inserting SD Card



# Formatting SD Card



# Settings

Before every shoot, you **MUST** make sure your camera settings are correct.

Best practice: **MANUAL** settings > Auto settings!

# Settings

**Recommended Settings:** HD image quality: 1080/24p FX

**File format:** AVCHD

**Set timecode:** REC RUN

# Turning Off Auto Settings

## Iris/Aperture



# Turning Off Auto Settings



## Gain

- Electronic amplification of a sensor's signal
- Makes the image **brighter**
- But also introduces visual noise or “grain”

# Turning Off Auto Settings

## Iris

Controls the **aperture** to restrict the amount of light that enters the camera



# Turning Off Auto Settings

## Shutter

- Mechanism that controls **how long** light hits the sensor
- Shutter speed is usually double the framerate
- 24fps = 1/48 shutter speed



# Turning Off Auto Settings



## White Balance

- Camera setting that ensures white objects in image appear white
- Will adjust colors to compensate for the **color temperature** of a light source



# Set White Balance

- Your kit comes with a **white balance card**
- Point camera to card and hit WB Set



# Set Gain



# Set Iris



# Manual Zoom

# Manual Focus



# Exposure

The amount of light that  
reaches your images sensor

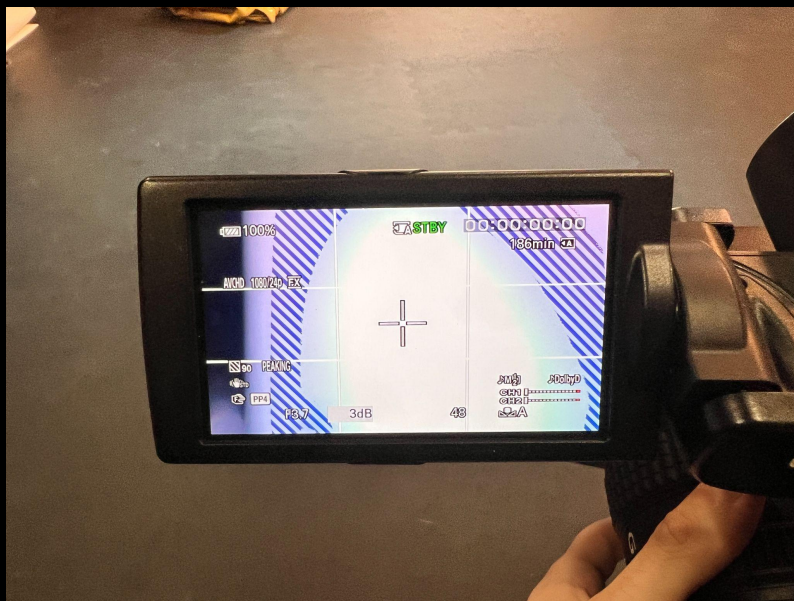
Gain

Iris

Shutter

External light source

# Monitor Assistants



## Zebra

Displays black and white diagonal stripes on the camera's screen to highlight areas of the image that are severely overexposed or "clipped"

# Monitor Assistants



## Peaking

Focus peaking, which uses a colored overlay to highlight areas of high contrast in the image, indicating what is in focus during manual focusing

# Monitor Assistants

## Focus Magnifier



# Recording and Playback



# Breakout

- As a group, set white balance
- Practice zooming in, focusing and setting exposure
- Record a clip and play it back

# Handheld Camera



- Always have a firm grip on the camera, using two hands when possible.
- When passing a camera from one person to another, the person receiving the camera should verbally confirm they have a firm grip on the camera: “Got it!”

# Breakout

- As a group, unmount the camera
- Practice handheld camera movement
- Make sure to say “Got it!” when handing off

# Breakdown

# Thank you!

- Equipment/troubleshooting questions:
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  - 507-222-5434 (7 days a week during hours of operation)
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