

Welcome!

- Instructor Introductions (name, pronouns, position)
- Production Office Overview
 - Equipment/troubleshooting questions:
 - 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

INTRODUCING: The CAMS Wiki

- BRAND NEW RESOURCE!
- Source for all quick-start guides, in-depth workflows, etc.
- go.carleton.edu/camswiki

The screenshot displays the Carleton Embedded Technologies Knowledge Base website. The header includes the Carleton logo and the text "Carleton Embedded Technologies". A search bar is located in the top right corner. The navigation menu includes "Home" and "Knowledge Base". Below the navigation, there are links for "My Articles", "My Favorites", "Articles Pending Review", "Feedback", "Categories", "Archived Articles", and "Templates". The main content area shows the "The CAMS Wiki" page, which includes a description of the resource, a feedback section, and a list of categories: Cameras, Audio, Lighting, Grip, Pre-Production, and Post-Production. Each category has a corresponding icon and a brief description of the content.

Carleton
Embedded Technologies

Home Knowledge Base

My Articles My Favorites Articles Pending Review Feedback Categories Archived Articles Templates

Knowledge Base / The CAMS Wiki

The CAMS Wiki

This is a centralized resource for CAMS students working with CAMS production equipment and facilities. You'll find quickstart guides for the equipment we teach and circulate, as well as workflow guides tailored to CAMS facilities.

This wiki is a working resource. If something feels confusing, incomplete or hard to find, let us know. If there's a guide you wish existed, let us know! Send feedback to gcalderon@carleton.edu.

Categories (10)

- Cameras**
Camera How-To's, Settings, Accessories
- Audio**
Audio Recorders, Microphones, Free Sound Effects Libraries
- Lighting**
Set-up, Light Shaping, Power
- Grip**
Non-Electric Rigging: Camera Rigging, Stands, Clamps
- Pre-Production**
Forms, Safety, Budgeting, Sustainability, etc.
- Post-Production**
Adobe Premiere Pro, Color, Sound Mixing, Etc

Agenda

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



Tripod Setup



Loosen, Adjust, Tighten



Sony NX100



COMPONENTS



Mounting the Camera



Parts of the Camera



Buttons



Battery

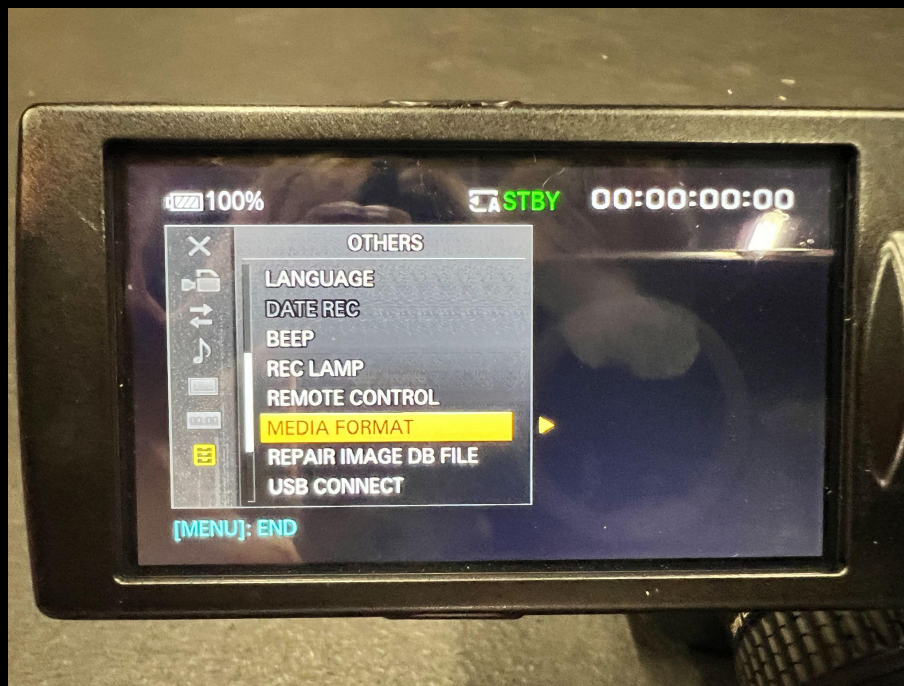
- Slides in
- Push BATT RELEASE button to release
- You should never have to force a battery in or out of the camera



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



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!

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