



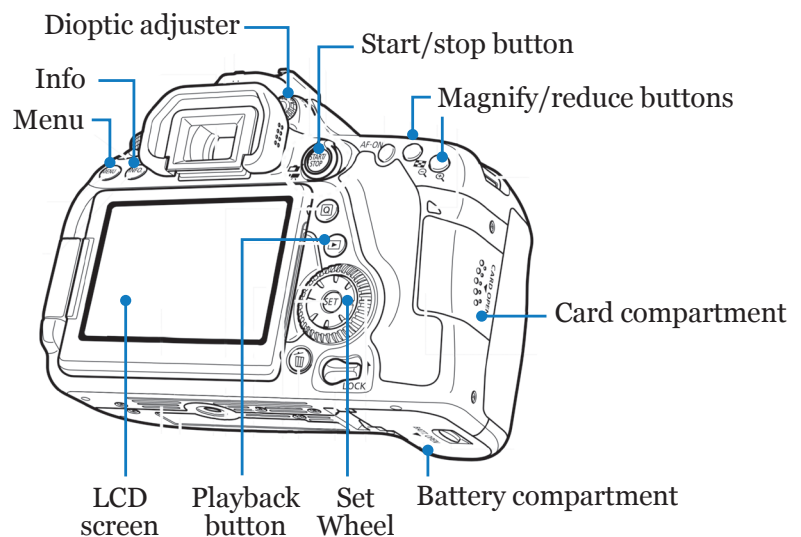
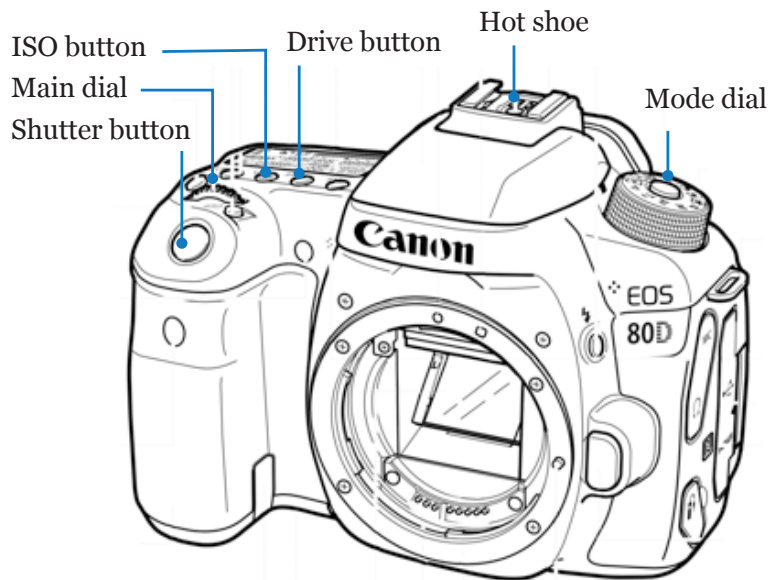
THE 80D AS STILL CAMERA

This handout covers how-to basics of the Canon 80D digital cameras to take still photos. The format is a series of “How-do-I” questions in roughly the order you will experience them in C226.

NOTE > Test all equipment you check out before you leave the Multimedia Lab to make sure it's working and the batteries are fully charged.

1. HOW DO I SET UP THE CAMERA?

1. Put the **camera strap** around your neck.
2. Open the battery compartment on the bottom of the camera and insert the **battery**. It will only go in one way—don't force it.
3. Pinch the edges or center of the **lens cap** to remove it, then **place it in your camera bag** for safe keeping.
4. To reveal the **LCD screen**, look on the back of the camera for a large rectangle with “Canon” on it. With your thumb in the opening at the right, pull up and over to the left until the LCD opens. Leave it in this position to shoot from high or low angles or to make self portraits. Normally, however, we recommend you rotate it forward 180° then fold it back into the camera. To look through it rather than the smaller view, hit the **Start/Stop** button.





NOTE > You will also use menus in the LCD to chose control settings, as described below.

5. Push the OFF/ON switch on the top of the camera (next to the dial) to **ON**. The LCD screen will show current settings.



6. Adjust the **Mode Dial** to Av by pushing down the small black center button and turning the dial so AV lines up with the white dot on the right. This will allow you

to manually control the aperture and the camera will automatically adjust to give you a good exposure by adjusting the shutter speed and the ISO. If later you need to control speed precisely, you can switch to Tv.



7. Set the camera settings to the factory default. Press the **Menu Button** on the upper left corner on the camera back. Click the right side of the wheel around the **Set Button** on the right side to select the wrench icon and go to the fourth submenu. Toggle down to the *Clear all camera settings* option. Press the **Set button** and **OK**.

8. Format the memory card. Press the **Menu Button** and go to the first submenu in the wrench menu. Select Format card and **OK**.

9. Check the switches on the side of the lens to confirm that the Stabilizer is ON and the **Focus mode switch** is set to AF.

2. HOW DO I TAKE A PICTURE?

We recommend you compose your photos using the viewfinder. Hold the camera up to your eye and look through the small window at the top.

1. Press the **Shutter Button (right top)** down half way. This will illuminate the **Viewfinder Information**.



Shutter speed Aperture Exposure ISO

2. Use the **Main Dial on top right** to set the aperture to its largest size. While looking at the viewfinder information, turn the **Main Dial** until the Aperture number is as small as possible—either 3.5, 4.0, 4.5, 5.0, or 5.6—depending on what the focal length of your lens is at the moment. As you learn more, you will want to adjust the aperture to achieve particular effects, but for starters, use the smallest number.

3. Press the **Shutter button** all the way down and the camera clicks, the viewfinder goes black for a moment and the photo is made. The image will appear for a few seconds on the LCD screen.

3. HOW DO I FOCUS AND COMPOSE?

1. When you depress the **Shutter button** half way, the camera focuses automatically without yet taking the photo. Small black rectangles in the viewfinder indicate areas that will be in focus.



2. You may notice that as you look through the viewfinder that what you see is not perfectly crisp and clear, even though it is perfectly focused in the photo on the camera's LCD. That's because the viewfinder has been adjusted to suit someone else's vision rather than yours.

3. Adjust the viewfinder diopter to your eye by pointing the camera at something with good contrast like the edge of a picture frame and letting the camera achieve focus. Without moving the camera forward or backward, turn the little knob on the right side of the viewfinder until that edge in the viewfinder is clear as possible. Go back and forth until it's right and the diopter is now adjusted to *your* eyesight.

4. HOW DO I ALTER THE FOCUS?

Sometimes you want to focus on something that should not be in the middle of the composition where those red focusing dots are. Here's how.

1. Point the camera so that the area you want in focus is indeed in the center. Press the **Shutter button** half way and hold it there. This "locks" the focus.

While holding the shutter half way, recompose your shot so that area is over to the right or left or where ever and when you have it, then press the **Shutter button** the rest of the way down to take the photo. When you review the image, you'll see that whatever is in the center is not in focus, but the area you locked the focus on is in focus.

5. HOW DO I REVIEW MY IMAGES?

Immediately after you click the shutter, your photograph shows on the LCD for a few seconds. To see it for a longer period of time and to review all the images on your memory card, switch from Camera to Playback mode. Click the blue arrow **Playback button**.

1. Click the **Set Wheel** to move between images.
2. Use the **AF Point Selection buttons** (the blue magnifying glasses on right) to zoom in to see if an image is in focus and to zoom out to show more images on a screen.

TRIVIA ALERT > The pros call this process of reviewing their work "chimping." It's called that because when they see they have a good one they go, "ooh, ooh, ooh."

3. Alternatively you can swipe right or left on the LCD screen to move between images and pinch the screen to zoom in and out. You may find this is more natural than using the buttons.

4. If you press the **Info button** once and then again, you will see all of the specifications you used to make the photo. Press it twice more to return to the full screen review.

6. HOW DO I TAKE A PHOTO IN DIM LIGHT?

The Av automatic setting on the **Mode Dial** will allow the shutter speed to go very slow in low light—sometimes too slow for you to hold the camera steady during the exposure and creating blur. Before you make a shot in low light, confirm that the shutter speed is at least 1/60 of a second (it shows as just plain "60" in the viewfinder information). Usually you'll have at least that number since the factory defaults set your ISO automatically. If it doesn't, steady the camera on a tripod, set it on a table top or brace it against some solid object during the exposure.

7. HOW DO I TURN OFF THE FLASH?

We do NOT want you to use flash, because we want you to learn to use natural light. Flash makes your photos look unnatural and causes your subject to be on guard and posed. Av mode keeps the flash off. You can also disable Flash Firing in the menu settings under the first submenu in the **wrench** setting.

8. HOW DO I ZOOM?

The best way to zoom is with your feet (walking closer). Walk closer to your subject for a tighter image and back up for a wider shot.

As you zoom to make your lens a longer focal length (telephoto) any movement you made during the exposure is exaggerated and your photos may look blurry. If the shutter speed is



greater than 125, however, you may want to zoom out in small amounts.

Twist the barrel of the lens to zoom the image in (wide angle) or out (telephoto). Wide angle is best for indoors and scenics, while telephoto is best for portraits and action.

9. HOW DO I TAKE EXTREME CLOSE-UPS?

For extreme close-ups of flowers, coins or other small objects, zoom the lens out to 135mm (telephoto). Auto focus will work to about 3 inches from the lens. Don't bang the lens against the object you are shooting!

10. HOW DO I DELETE UNWANTED IMAGES?

Usually, you can wait until you download the image files to a computer, but if you are running low on space on the memory card, you can delete pictures in the camera. In Playback mode (described in Reviewing above) toggle through images using the **Set Wheel** or use your fingers on the LCD screen to scan through taken images to find the photo you want to delete. Push the **Trash can button**. When the menu appears, choose Erase with your finger, or press SET.

11. HOW DO I USE THE SELF TIMER?

You can make a self portrait by mounting the camera on a tripod or setting it on a stationary surface, and then setting the self timer. The self timer delays the shutter release until you have time to position yourself in the view. Here's how:

1. Press the **Shutter button** and then click the **Drive** button on top right. Toggle to the right to select the *Self Timer: 10-second timer* option. This will give you a 10-second delay after you hit the shutter button.
2. Press the **Shutter button** all the way down and release, then press it all the way down again. The camera will start beeping and flashing a yellow light. The beep will speed up just before the exposures.

3. To get out of the timer mode, repeat the steps but choose the **Single Shot** option.

12. HOW DO I TAKE PHOTOS IN RAPID SUCCESSION?

1. Click the **shutter** half way and then click the **Drive** button.
2. Toggle to the **High Speed Continuous** mode and hit the **Set** button.

13. HOW DO I REMOVE THE MEMORY CARD?

1. Turn the camera *OFF* (*VERY* important!). On the right side of the camera is a compartment that says *CARD OPEN*. Slide this compartment lid toward you and it will open. Flip up the lid to reveal the memory card. Push down on the memory card and release. It will pop out to where you can remove it for insertion into the SD drive of a desktop or laptop.
2. Set the camera down on its base with the card door open. That way, you won't walk off with the card in the computer and nothing in the camera!

14. HOW DO I TURN IN MY CAMERA?

1. Reinsert the memory card back into its compartment. Close the door.
2. Turn your camera back *ON* and press the **Menu button**. Navigate to the orange menu item shaped like a wrench and toggle down to *Format card*. Hit **Set** and OK. This will clear your card. **DO IT BEFORE TURNING IN YOUR CAMERA.**
3. Turn the camera off.
4. Take out the battery.
5. While in your camera bag, pull out the camera lens cap and place it back on the lens.
6. Flip out the *LCD screen*, rotate it 180 degrees and fold it back into the camera. It should now have the plastic side showing with the word Canon visible. This will protect the screen.