

PHOTOGRAPHY

Use this help guide to refresh what you have learned in one of our workshops.

HELP GUIDE

Click -or- tap the squares to navigate

Using camera

Buttons & Modes

Previewing Exposure

Focus

Review & delete images

Aperture

Aperture Introduction

Depth of field (blur)

How to change aperture

Shutter Speed

Shutter Speed Introduction How to change shutter speed

Example images

ISO — More help

ISO Introduction How to change ISO

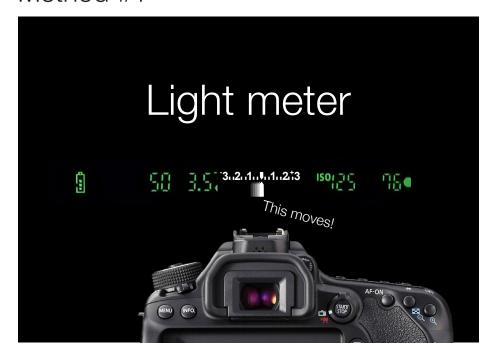
Troubleshooting

Using the Canon 80D



Previewing exposure - Two methods -

Method #1



Light Meter

- Look through the view finder
- Pay attention to the light indicator as it moves
- Aim for the middle for a good exposure
- Can't see your light meter? Check to make sure your camera is NOT in 'Live View' mode. (see below)

Method #2

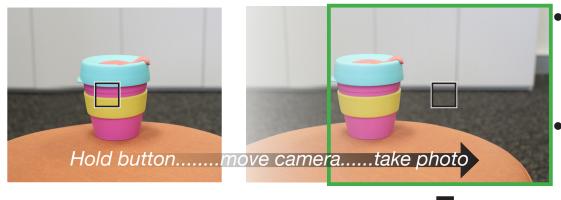


Live View

- Make sure the dial is pointing to the white camera icon
- Press the 'START/ STOP' button
- You'll notice the LCD screen will now display a live image of your scene
- You can now change your settings and use the preview image and the LCD light meter as a guide for a good exposure

Focus Trap

Taking a photo, with the subject in focus, but NOT centered



half press

- Press the shutter button halfway to focus on your subject
- Keep the shutter button half pressed while you move your camera
- Make your subject off centre
- When you are

ready, press the shutter button

Review a photo/video



Press the 'play' button again.

Exposure

The exposure of your photo/video is created by balancing three factors. Finding a combination of all three will give a well exposed image.

Aperture

The amount of light the lens allows in

Shutter Speed

The amount of time the shutter stays open

ISO

The extra sensitivity available to brighten the image

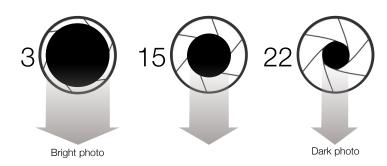
Aperture The amount of light the lens allows in



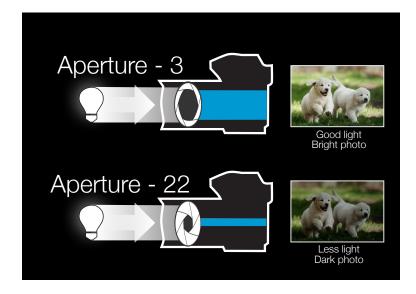
Aperture works like an open window, allowing a large amount, or small amount of light into the camera.

Aperture number

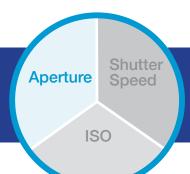
How much aperture leaves block the light



- Aperture numbers relate to how much light is STOPPED from entering.
- Aperture 3 stops a small amount of light
- Aperture 22 stops a large amount of light



- Aperture 3 allows more light which results in a bright photo
- Aperture 22 stops more light, which results in a darker photo



Aperture

Depth of field - Aperture also helps to create a blurry foreground or background, which makes your subject stand out more in the photo.













- As well as letting in light, the aperture setting also changes the depth of field resulting in more background blurriness.
- Aperture 20 stops a lot of light, and it makes more of the subject in focus, and less blurring
- Aperture 3 lets in alot of light, and also creates a lot of blurring









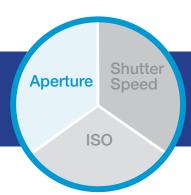








 The same photo with different aperture settings changes the blurriness for a different effect



Aperture

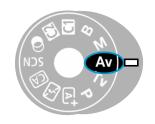
How to change aperture -



Manual mode

When in 'M' manual settings mode, use the spinning dial on the back of the camera.





Av mode

When in 'M' manual settings mode, use the wheel on the top of the camera.



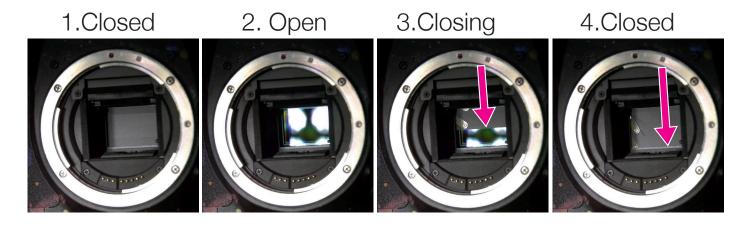


In any mode, the top lcd screen will display your aperture number in this location.

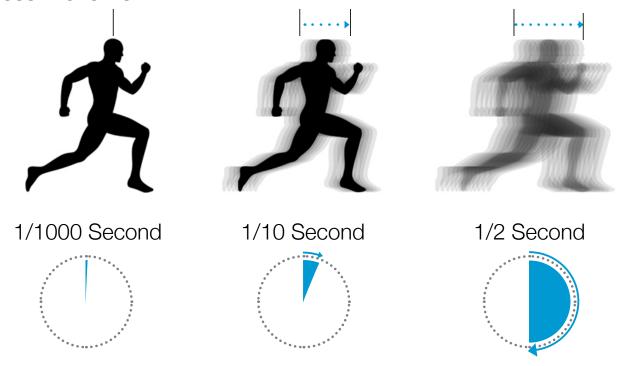
Shutter Speed

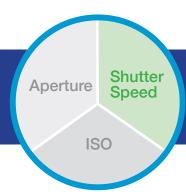
The amount of time the shutter stays open

The shutter is a curtain that opens and closes, determining how long the aperture light is allowed into the camera. It can be a long amount of time, or a very short amount of time.



Shutter speed is measured in parts or multiples of a second. The longer the shutter speed, the more light and more movement. The shorter the shutter speed the less light and less movement



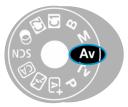


Shutter Speed

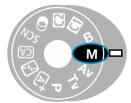
The amount of time the shutter stays open

How to change shutter speed





OR



Av mode

Manual mode

Use the spinning dial on the top right of the camera.

The shutter speed will be displayed on the top LCD here.

The shutter speed is displayed in two ways depending on it being a fraction of a second, or multiple seconds.













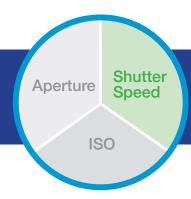












Shutter Speed

The amount of time the shutter stays open

Photos at different shutter speeds





This shutter speed is 1/1000th of a second, so it freezes the action.





This shutter speed is 1/10th of a second, so it partially freezes the action with some blur.

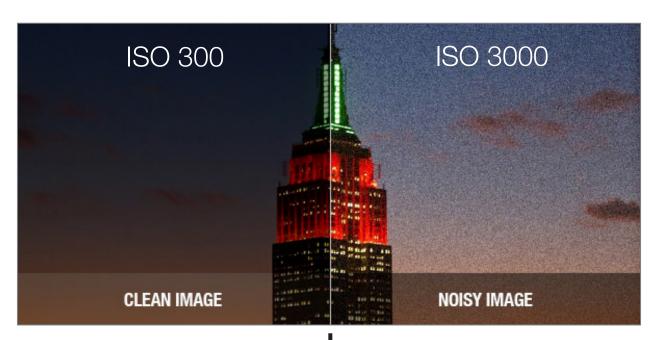


This shutter speed is more than just seconds, it's 45 minutes. It allows so much light in, that stars you wouldn't normally see with the naked eye appear. It also has slight star blur from the earth spinning during the 45 minutes.

ISO

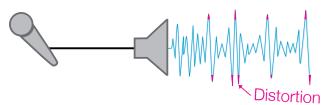
The ability to increase the sensitivity to light

ISO is a number value that represents the sensitivity to light. The higher the number the more sensitive and the brighter the exposure. Think of it like 'free' light for your camera. This becomes important at night/or in low light.





Low ISO produces a clean image. ISO can also be represented by sound volume where a normal level is clean.



When you raise ISO, you gain light sensitivity. But like turning up sound volume, you potentially could raise distortion in the process. Distortion in an image appears as noise giving a grainy look. This may look fine on the LCD screen, but it is better to review an image after shooting and zooming in to check the noise levels.

How to change ISO





NOTE:

If you set the ISO setting to 'AUTO', then the camera will adjust the ISO itself. Be careful when shooting in low light as the ISO may become high automatically and produce a lot of noise in your images.

Trouble shooting

Use the list below to help solve any issues you are having

LCD only shows information (no image)

- Make sure the function dial is clicked to the white camera icon (not the red video icon
- 2. Press the 'start/stop' button to turn ON the LCD screen live viewing mode



Viewfinder not working

- 1. If the LCD screen is on, the viewfinder is disabled
- 2. Make sure the function dial is clicked to the white camera icon (not the red video icon)
- 3. Press the 'start/stop' button to turn **OFF** live viewing mode
- 4. The viewfinder should now work.



No info details on LCD

- 1. With the camera on, make sure the function dial is clicked to the white camera icon (not the red video icon)
- 2. Press the 'start/stop' button to turn on live viewing mode
- 3. Press the 'Info' button enough times until the information details appear on the LCD



Trouble shooting

Use the list below to help solve any issues you are having

Blurry photos

Solutions:

- Try holding the camera more steady
- Use a tripod to keep the camera steady
- Make the shutter speed faster (spin top dial to the right)



Dark scene or subject

Solutions:

- Move the camera position so the light falls onto the subject (background light can cause the subject to be dark
- Make the shutter speed slower (spin top dial to the left)
- Change the aperture to be wider (smaller number)
- Change the ISO to be a higher number



Can't change aperture

 Ensure the camera mode dial is set to either of these modes. (aperture can't be manually changed in other modes)





Can't change shutter speed

 Ensure the camera mode dial is set to either of these modes. (shutter speed can't be manually changed in other modes)







Downloading files

OPTION 1 - Copy directly from the SD card

Required: SD Card reader

- Slide open the SD card slot on the right side of the 80D
- Press the SD card inwards, then release pressure to remove the SD card
- Using an SD card slot or reader, insert the SD card
- Wait for your computer to show the SD card as a removeable drive.
- Copy your files
- Remove and replace the SD card into the 80D. Press the SD card inward, then release. The SD card should stay in place. Close the card panel.



OPTION 2 - Copy using USB cable

Required: USB Cable (included in 80D kit)

PC:

- Open the USB cable port rubber door on the left side of the 80D
- Connect USB-C cable to the camera and then to your computer
- Turn on the 80D
- The camera should mount on your computer like an external drive
- · Copy the files

MAC:

- Open the USB cable port rubber door on the left side of the 80D
- Connect USB-C cable to the camera and then to your computer
- Turn on the 80D
- Open 'Image Capture' program on your mac computer (it comes installed with the operating system).
- Select the files to download.



USB CHECK -

If your computer uses USB-C only, you will need a 'USB to USB C' adaptor.



Included in kit



Adaptor not included