

EXPOSURE

- When a photograph is **correctly exposed**, it has *plenty of detail* recorded in both the darkest shadows and the brightest parts (highlights) of the photo and therefore produces a good print.
- An image that is **overexposed** has received too much light in the lightest parts of the image also called highlights and they appear white and lost on print resulting in poorer image quality.
- In contrast, an image is underexposed when it has received too little light. The dark parts of the image are thus converted to pure black, losing detail in the shadow areas. This leads the image to appear heavy and featureless when printed.



EXPOSURE



UNDER EXPOSURE



OVER EXPOSURE



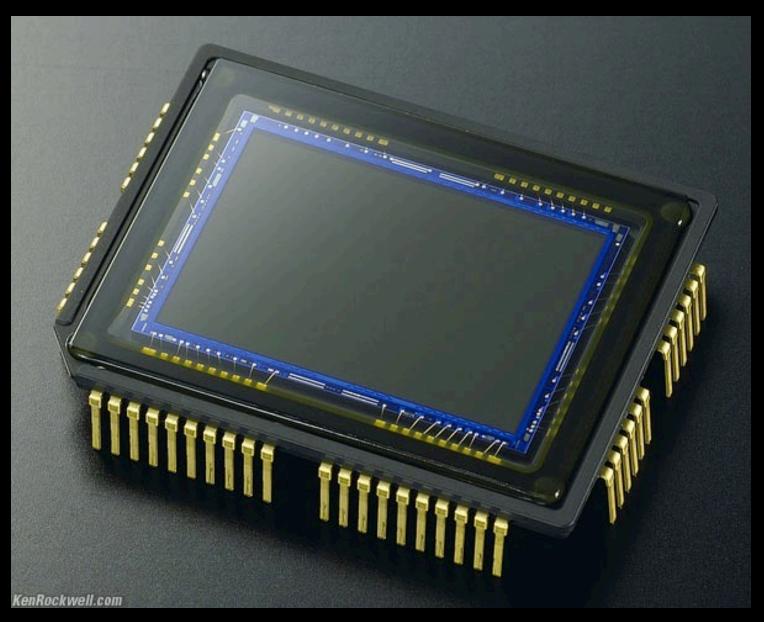
CORRECT EXPOSURE

HOW THE CANERA WORKS

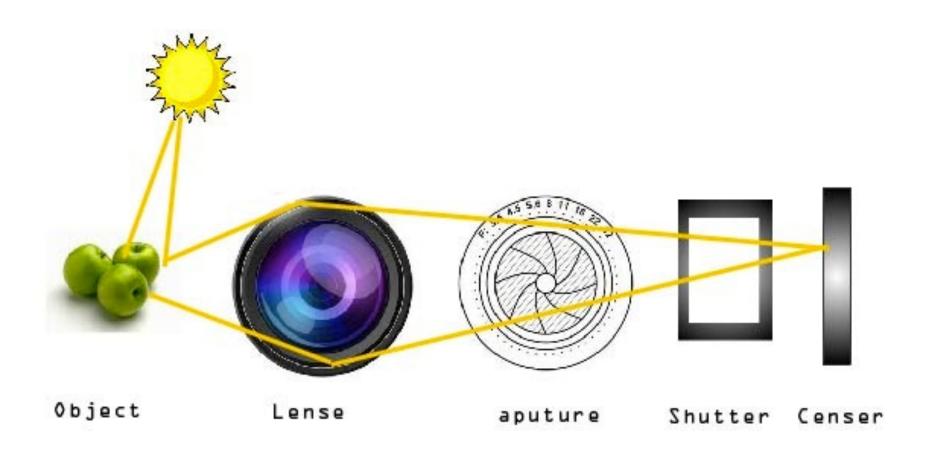
Inside the carriera

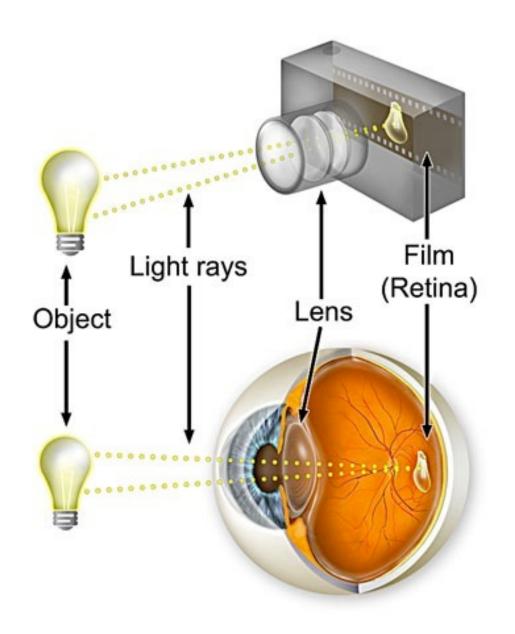


THE DIOLAL SENSOR



THE CANTERA { How it works }





THE SIMILARITIES

THE HUMAN EYE &
THE CAMERA

SHUTTER SPEED APERIURE

SHUTTER SPEED



- A camera's shutter determines when the camera sensor will be open or closed to incoming light from the camera lens.
- The shutter speed specifically refers to how long this light is permitted to enter the camera.
- Shutter speed is a powerful tool for freezing or exaggerating the appearance of motion.
- 1/60 second is the slowest shutter speed you should be using hand held. Anything slower and you need to use a tripod (for example: 1/50, 1/40, 1/30, 1/25, 1", 5")

APERTURE

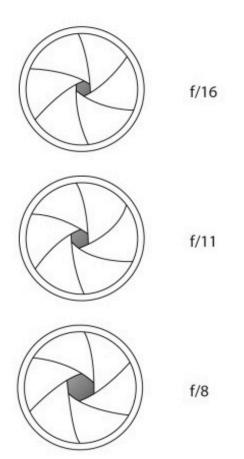
The larger the size of the lens opening, the smaller the number.

The smaller the size of the lens opening, the larger the number

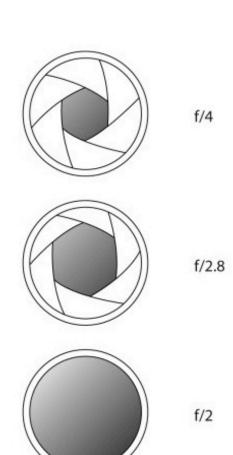
THINK OPPOSITE

An **aperture** is a hole or an opening through which light travels when a photo is taken.

Measured in f-stops

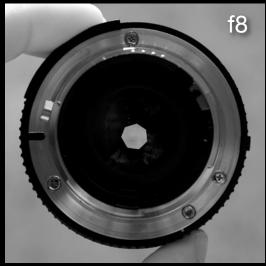


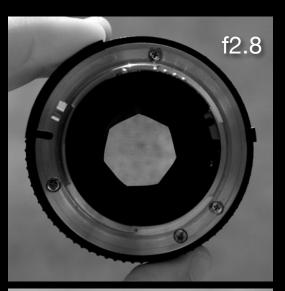


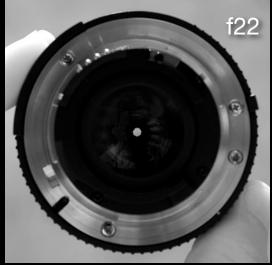


APERURE



























DEPIH OF FIELD

The Difference between Depths of Field







Large depth of field

APERTURE: f 1.8

APERTURE: f 9

BASIC + AUTONATION CAMERA MODE SETTINGS

- The idea of giving a "correct" exposure to a photograph means letting the image formed by the camera lens act sufficiently on your digital sensor to give a good quality picture. The fact is there is no magical correct setting to find the balance of neither too much nor too little light falling onto the digital sensor.
- The light entering the camera and therefore the degree of exposure the film or digital sensor receives is controlled by the aperture, shutter speed, and iso settings you have chosen.



· Auto Mode

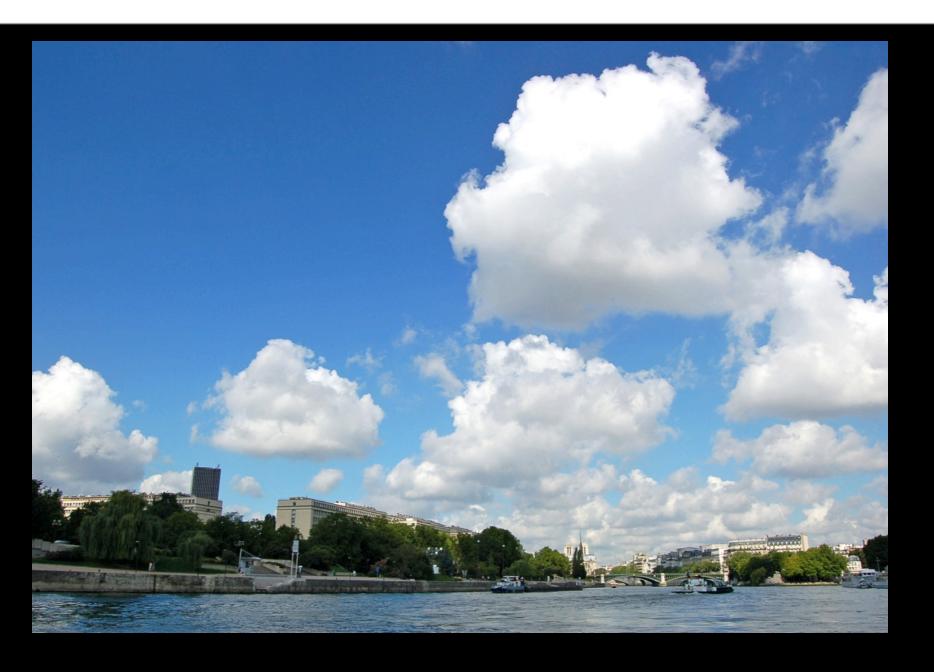
- Found on all cameras
- Used by beginners
- If you want to take a quick shot without worry about settings
- In automatic mode you can not make changes to the settings
- For suckas and fools



Landscape

- the Landscape mode allows you to shoot pictures of landscapes like mountains
- Picks a large depth of field (small aperture) so that everything in the picture frame is clear
- delivers sharpness from the foreground to the background
- Usually a tripod is needed because the shutter speed is longer.



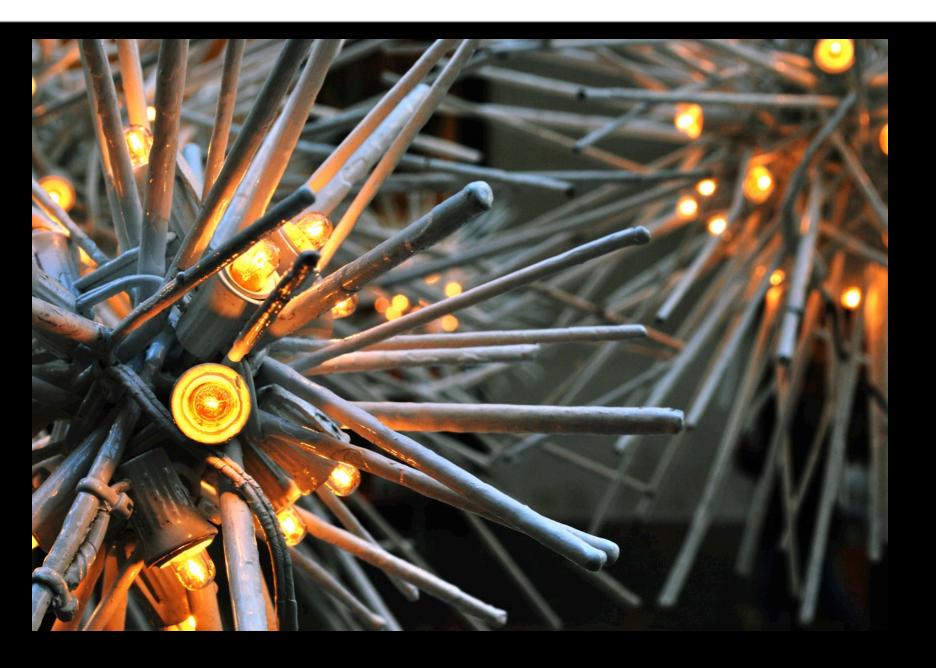




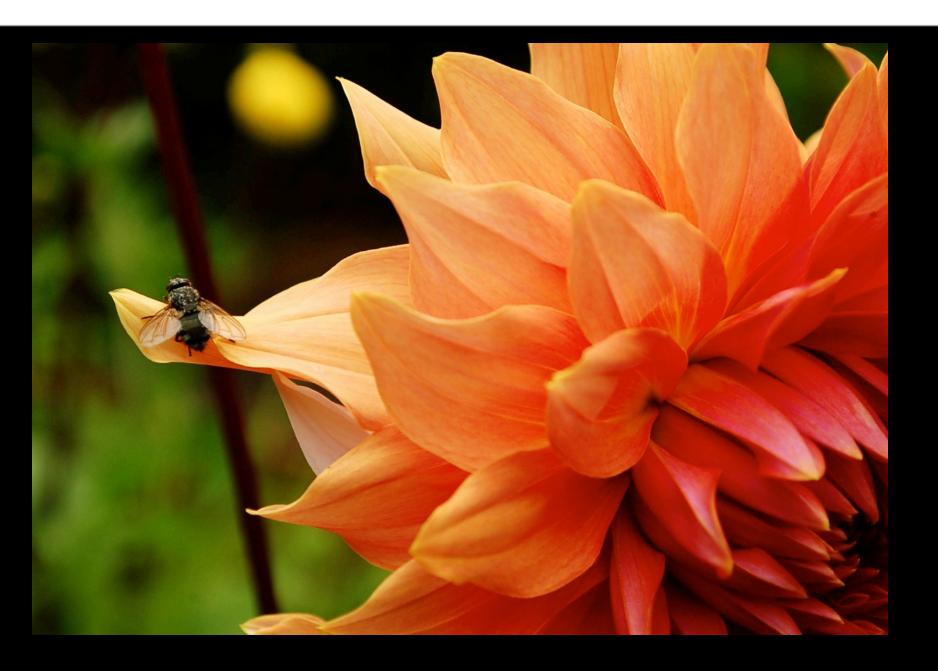
• Macro Mode

- The Macro Mode allows you to focus on objects at amazingly small distances - sometimes just centimetres from the lens.
- Use the Macro mode when you need to capture the smallest little details on your subject.
- Area of focus is sharp, background is blurry.
- Helps create a contrast between subject and background.



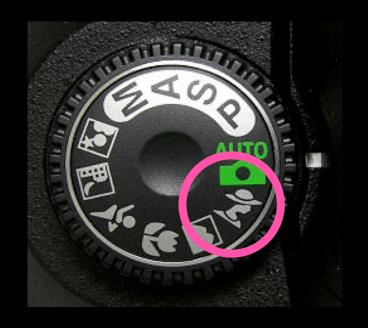






• Portrait Mode

- If you want to shoot close-ups of people or faces, the Portrait Mode is the mode to choose.
- Clear image in the front and soft blurry background
- Similar to Macro Mode.















Sports Mode

- If you want to capture fast action, then you'll need the fast shutter speed setting
- When you switch to this mode, your camera will automatically choose the fastest shutter speed (ideally 1/250 secs or faster) possible given the situation
- Eliminates the blur that occurs when trying to capture movement









CREATIVE ZONE CAMERA MODE SETTINGS

• Program Mode

- Program mode (semi-auto/manual)
- The camera will automatically choose the right settings for you (shutter, aperture, iso, focus modes), but you can make limited changes to these settings
- A large degree of control over settings, but the camera will automatically prevent you from using settings that result in over – or underexposure

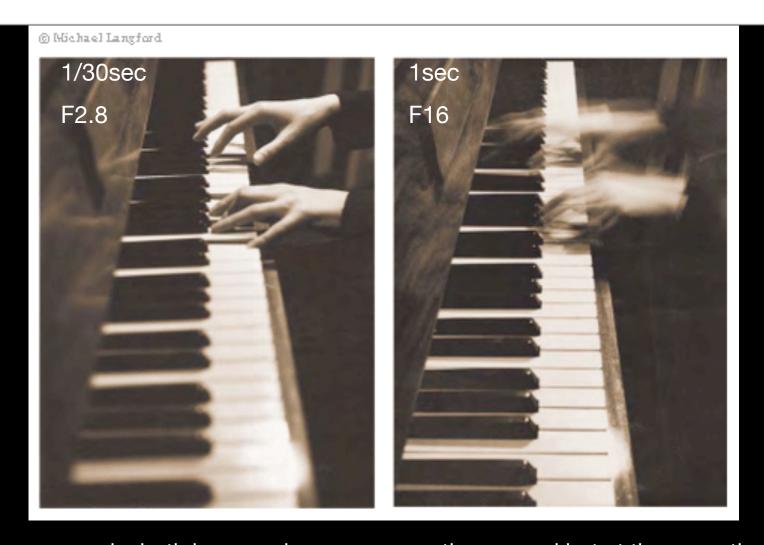


CAMERA SE INCS

• Shutter Priority Mode

- Allows you to adjust the shutter speed, camera will decide on the other key factor: the correct aperture to get a good exposure
- Mode is favoured by photographers who want to capture action (faster shutter speed)and blurred movement (slower shutter speed)
- Settings are represented by fractions of a second (i.e.- 1/30, 1/60, 1/125, 1/500, 1/80000).





As an example, both images above are correctly exposed but at the same time differ greatly. The image on the left has very little depth of field but frozen hand movement achieved with shutter speed set at 1/30 second and aperture setting at f2.8 . The image on the right had 1 second at f16 and shows nearly all keys in focus but the moving hands appear blurred due to the slower exposure.





CAMERA SETTINGS

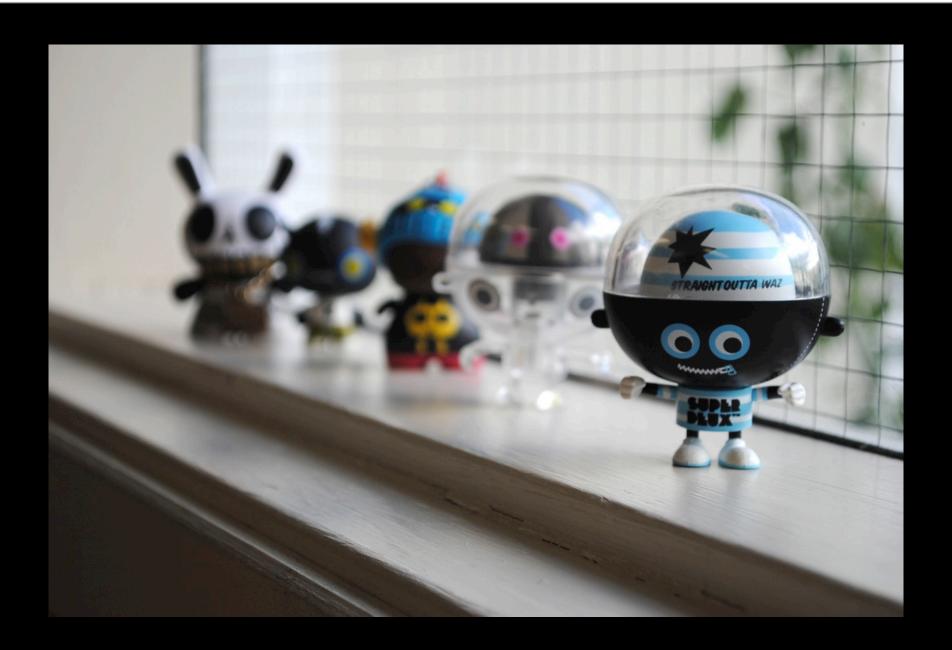
• Apartura Priority Moda

- The opposite of shutter priority, mode used by portrait, candid, and landscape photographers
- Set the aperture you need, camera will decide on the shutter speed
- Used when depth of field is an important aspect of your photograph
- High Av setting will capture a scene with large depth of field, low Av setting will capture a narrow depth of field
- Small number= large opening
- Large number= small opening





narrow depth of field [large aperture] depthorfield large depth of field [small aperture]



CAMERA SETTINOS

• Manual Mode

- You'll set all the camera's menu functions, and your aperture setting and shutter setting are set independently
- Is tricky and requires lots of practice
- The camera will not make any adjustments for your mistakes like all the other modes
- Most rewarding one you get the hang of it
- Use the light meter to help you obtain the correct exposure





Camera Settinas Overview

HOLDINO/ACAMERA DO's + DON'TS

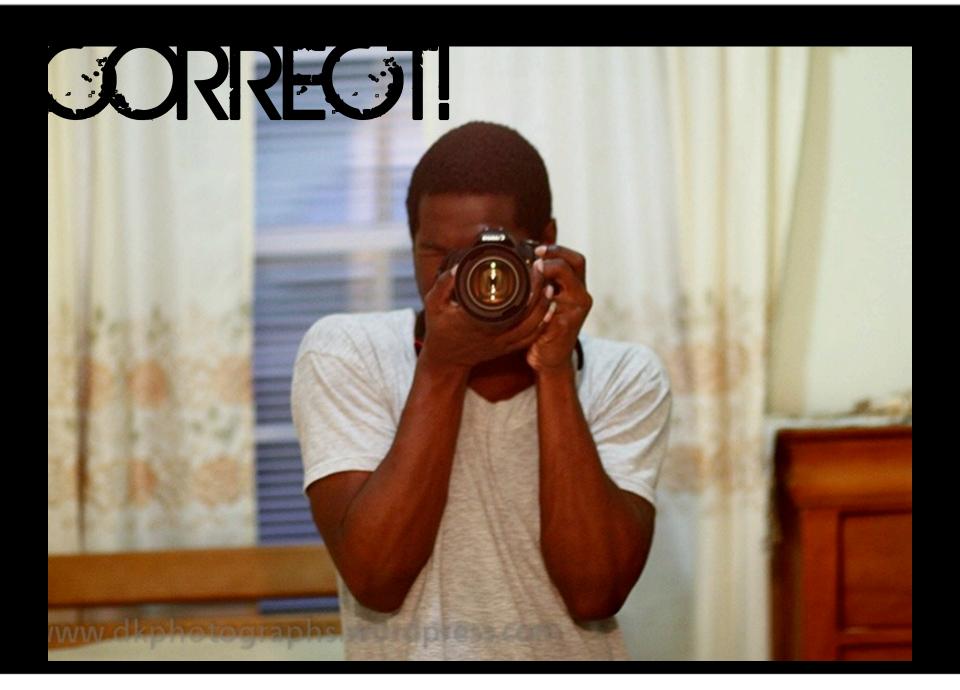
HOW TO HOLD A CAMERA

by sweet khaki shorts guy





Your elbows should lock into your body so that you have stability. Also use walls, or objects around to help steady the camera. This will reduce the number of blurry photos. ALWAYS USE BOTH HANDS!!!

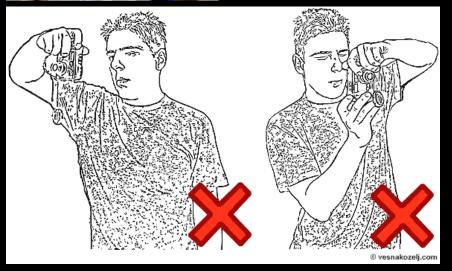


WRONG WRONG WONG











TAKINOA PHOTO THE STEPS

STEPS TO TAKING A PHOTO...

1. Recognize a picture taking opportunity (Previsualize)

Do you have an interesting subject?

2. Access Lighting Situation

- Are you in a dark or bright setting?
- Is it sunny, dim, cloudy, warm or cool light?

3. Decide on camera settings

 Choose a setting that works with the lighting situation, moving or still subject/background, or depth of field (narrow or large).

4. Set camera

5. Compose picture

- Are you using the Rule of Thirds?
- What orientation are you choosing? Landscape or Portrait?





THE CANERA

BUTTONS, SWITCHES + SETTINGS

THE LCD SCREEN

SHUTTER SPEED

 How fast your shutter is.

LIGHT METER

- Indicates whether you need more (+) light or less (-) light.
- Helps you get the correct exposure for your shot

CAMERA MODE

 Auto, landscape, macro, shutter, aperture, program, etc...



APERTURE

- The size of the lens opening
- Measured in F-stops

ISO

 The speed of your film. Higher number equals grainier photo

WHITE BALANCE

- Adjust to the type of light you have in your environment
- le- sunny, cloudly, warm lights, cool lights, night time, etc...

RELEASE MODE

- Rapid fire
- Single shot
- Remote
- Timer

BATTERY LIFE / IMAGE QUALITY

IMAGE SIZE

PHOTO COUNT

 How many photos you have left



1. RED-EYE REDUCTION

2. ZOOM RING

Rotate ring to zoom in and out

3. FOCUSSING RING

- In AUTOFOCUS mode, this ring rotates until the camera has focused on the subject
- In MANUAL FOCUS mode, turn the ring by hand to focus on the subject

4. BUILT IN FLASH

- When there's not enough light for decent exposure, your camera's flash will pop up
- We will not use the built in flash because it makes photos look too yellow



1. FOCUSSING RING

2. ZOOM RING

3. FOCUS MODE SWITCH

- AUTO FOCUS (AF), the camera will focus on it's own
- You can still use the AF points to tell the camera where to focus on the subject
- MANUAL FOCUS (MF), you focus the camera yourself

4. FLASH BUTTON

- When shooting in the CREATIVE ZONE modes you can push to instruct the built in flash to pop up
- If held down, you can control the strength of the flash by turning the COMMAND DIAL

5. SELF TIMER

 Change the camera from Single shooting, Continuous shooting, or the self timing settings.



1. FLASH HOT SHOE MOUNT

 Enable you to mount a more powerful external flash

2. MODE DIAL

3. COMMAND DIAL

 Rotating the dial will let you change the aperture and shutter speed manually

4. ON/OFF SWITCH

5. SHUTTER BUTTON

- Press the button all the way down to capture your shot
- Press it halfway down to autofocus and an exposure reading of the scene's lighting



1. PLAYBACK BUTTON

2. MENU BUTTON

3. INFO BUTTON

 Quickly change settings: shutter speed, aperture, iso, size, quality, white balance, and self timer

4. VIEWFINDER

5. LCD DISPLAY

 Displays important info such as shutter speed, aperture, iso, size, quality, white balance, and self timer

6. DIRECTIONAL THUMB PAD

- Navigate through menus with these directional controller buttons
- Press the OK button to set

7. TRASH/DELETE BUTTON

8. MEMORY CARD SLOT