

Cameras

Anatomy and Functions

OBJECTIVES

- P&S vs MILC vs DSLR.
- Camera Anatomy, settings and functions.

Monday, September 10, 12

P&S = Point and Shoot.

MILC = Mirrorless interchangeable-lens camera

Keep in mind that different brands have different setups and positions for their functions.
That's why we asked you all to bring your manuals so you later can find it in your camera.

Point & Shoot



Monday, September 10, 12

This is a Nikon P300

Point & Shoot Pros



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Unique features: has a front screen, Geotagging, 3D pictures, "smile detection"

Point & Shoot

Pros

- Cheap.



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Point & Shoot

Cons

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This is a Sony HX9V

An interesting thing to talk about is the size of the sensor. It's small. Records less information. Ask the students to keep the size of the sensor in mind. Other slide will show other sensor.

Point & Shoot

Cons

- Small Sensor.



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Point & Shoot

Cons

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- Fixed lenses.



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MILC



Monday, September 10, 12

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Mirrorless Interchangeable Lenses Camera – MILC
Introduced in 2008

Mirrorless Interchangeable Lenses Camera



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MILC Pros



Monday, September 10, 12

This is a Olympus PS3. The one showing the sensor is a Sony NEX 5
The lenses are exchangeable but still not compatible with the lenses on the market. Needs an adaptor.
The Sensor is the same of an entry-level DSLR. Much bigger than the standard P&S.

MILC Pros

- Portable.



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MILC Pros

- Portable.
- Exchangeable Lenses.



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MILC

Pros

- Portable.
- Exchangeable Lenses.
- Large Sensor.



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MILC

Cons



Monday, September 10, 12

This is a Samsung NX100 and the viewfinder is from the Sony NEX5
New format = not such diversity of lenses yet and it's not directly compatible with the DSLRs lenses
No viewfinder. So you can only take pictures arms length which breaks a bit the isolation that the photographer would have when he closes one eye and look through a viewfinder.
You can buy an accessory to have a **digital** viewfinder.

MILC

Cons

- Brand new format.



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MILC

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- Brand new format.
- No Optical viewfinder.



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DSLR



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This is a Nikon D7000

Digital Single Lens Reflex



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DSLR

Pros



Monday, September 10, 12

This is a Canon Rebel T1i

Numerous Controls – The user can setup whatever they feel like with a great variety of combinations.

Normally those cameras, since they are established for a longer time, they have an incredible variety of lenses available

The unique shape and weight gives a better grip and control of the camera.

TTL optical viewfinder – through the lens – you see exactly what will be captured by your

DSLR

Pros

- Numerous controls.



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- Exchangeable Lenses.



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- Exchangeable Lenses.
- Contoured body.



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- TTL optical viewfinder.



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Monday, September 10, 12

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DSLR

Cons

- Can be expensive.



DSLR

Cons

- Can be expensive.
- Heavier and bulkier.



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How the camera works



Monday, September 10, 12

This video shows how the viewfinder works and how the picture is recorded. So light comes through the lens. Hits a mirror that sends the light upward, where hits another mirror and then we can see through viewfinder. When we press the shutter button, it will move the main mirror out of the way and the light will hit the sensor, and record the image. We can even ask the students, where the light would hit in the old days of film, before digital.

The Camera



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Functions of the camera. This is a Nikon D3000

The Camera



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Body and Lens. The Lens are the expensive part of a camera, most of the time.

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Body

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We will talk more about each functions later.

3 – Shutter Release button – not only is to take the picture but if you press halfway, it will autofocus, if your camera has autofocus on.

The Camera

1 - Power Switch



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The Camera

- 1 - Power Switch
- 2 - Lens cover



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- 1 - Power Switch
- 2 - Lens cover
- 3 - Shutter Release Button
- 4 - Viewfinder



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- 1 - Power Switch
- 2 - Lens cover
- 3 - Shutter Release Button
- 4 - Viewfinder
- 5 - Mode Dial



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The Camera



Monday, September 10, 12

In the case of the Nikon D3000, you can see all the information on the LCD (Aperture, Shutter Speed, ISO and etc).

Command dial is where you adjust the command you want to control, Aperture, Shutter Speed.

The Camera

I - LCD Display



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- 1 - LCD Display
- 2 - Review/Playback Button



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- 3 - Configuration Menu



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- 5 - Command/Function Dial



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Memory cards stores the photos you take. It's the film from nowadays. Even if you don't have a camera, you have to have this card with you.

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