

CAMERA BASICS

CONTACT INFORMATION

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KEY NOTES

- operate camera and expose a still image
- understand and control aperture
- F-stop scale
- understand and control focus

MEDIA STORAGE

SDHC – HD video recording

- class 6* (20MB/sec.)
- 4GB (12min. HD record time)

SD – audio recording

- 2GB

Drive – external hard drive

- 7200 RPM
- FireWire 800**

Shop price/brand

drive https://secure.bhphotovideo.com/bnh/controller/home?O=wishListDetail_NEW.jsp&A=wishlistDetail&Q=&li=7C08D4EB9D

card https://secure.bhphotovideo.com/bnh/controller/home?O=wishListDetail_NEW.jsp&A=wishlistDetail&Q=&li=73996BC5DB

* recommend class 10

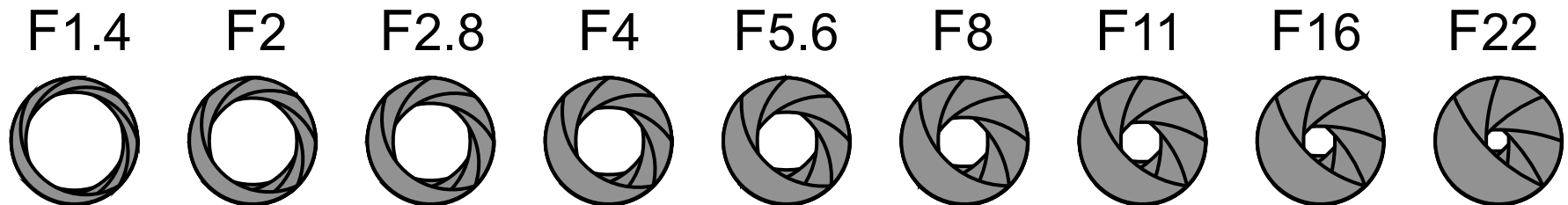
** COM Labs set up for firewire 800 and select USB3 (blue connector)

F-STOP SCALE

F-stop: conceptual foundation of exposure

Aperture: opening in LENS that allows light through

- created by iris blades/leaves
- measured in F-stops*



* F-stop is calculation (ratio) of lens allowing light through

T-stop is measured (taking into account of transmittance) of light passing through lens

FIELD OF VIEW

Field of View (F.O.V.): perceived frame size

Focal Length: lens to sensor convergence distance

- “lens size” measured in millimeters

Sensor: digital image acquisition size “footprint”

Gate: film exposure size “footprint”

Normal: cinematic perception of human eyesight



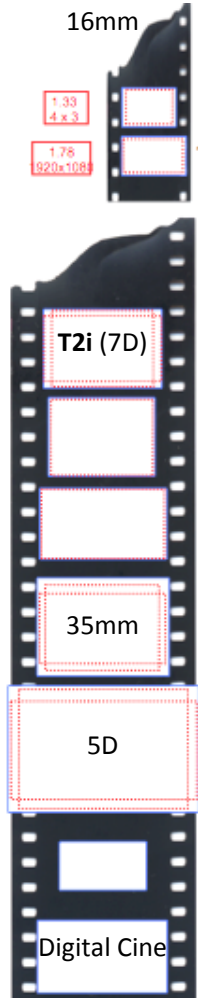
T2i – 50mm lens



35mm – 50mm lens



5D – 50mm lens



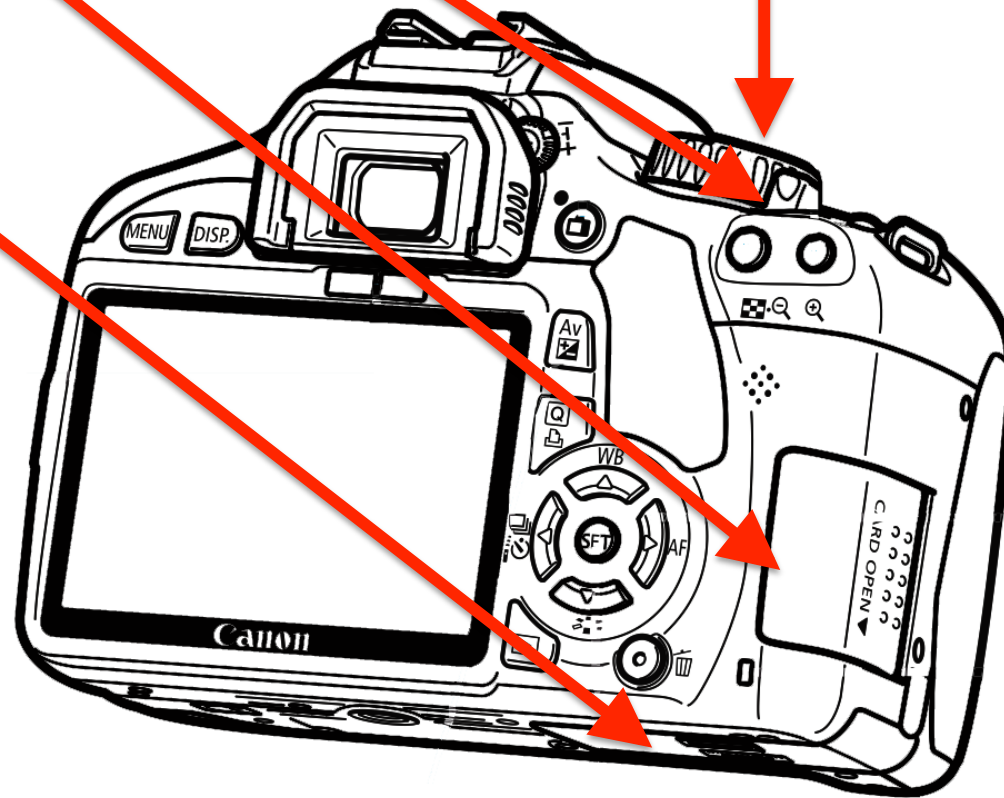
CAMERA SETUP

1. battery

2. SDHC

3. power

4. Manual



TECHNICAL TERMS

DSLR: digital single lens reflex

shutter: 1/50 shutter speed

aperture: opening created in lens allowing light to pass

F-stop scale: 1.4 2 2.8 4 5.6 8 11 16 22

ISO: sensor light sensitivity

Color Temp. (WB): daylight 5600°K tungsten 3200°K

Focal Length: lens size (distance of image convergence)

Field of View (FOV): viewable frame size

Normal Lens: cinematic perception of human FOV