LECTURE NOTES

OPTICAL INSTRUMENTS

Camera

The camera consists of a converging lens one focal length away from film that records an image of a very distant object. The lens can be moved away from the film to image closer objects (with $d_i > f$).

The shutter speed can be set for a variety of exposure times usually differing by a factor of two. Exposures less than $\frac{1}{100}$ s can stop the blurring caused by shaking hands holding the camera.

f-stop is defined as lens focal length divided by lens diameter (or clear aperture if part of the lens is covered): f-stop = f/D. This dimensionless number also comes in a variety of settings differing by $\sqrt{2}$. The camera adjusts to a setting by covering part of the lens using an iris diaphragm thus changing D by $\sqrt{2}$. Since the area of the lens opening determines the amount of light reaching the film, and area α D^2 changing the f-stop from f/2.8 to f/4.0 means half as much light reaches the film and we should double the exposure time (one step change of shutter speed, perhaps from $\frac{1}{60}$ s to $\frac{1}{30}$ s. Note an f/4.0 setting would imply a 50mm focal length lens has a clear diameter opening of 12.5mm.

A longer focal length lens produces a larger image: $m = \frac{-d_i}{d_o}$ and $d_i \approx f$. Note the image formed on the film is inverted, real and reduced. To increase depth of field (the range of distances where objects do not become a blur on film), we want a small diameter lens opening. Different films are made to work faster or slower, in dimmer or brighter light with more or less grain. The choice of settings takes fine judgment about the desired image.

The Human Eye

Much like a camera, the eye has a lens of adjustable focal length, an iris to decrease the effective diameter of the lens, and a retina about one focal length from the lens where a real, inverted, reduced image is formed.

Most of the refraction occurs in the cornea, not the lens. The lens, by changing shapes under stress from the ciliary muscles, makes fine focus adjustment. When the muscles are relaxed, the lens should focus at ∞. When they contract, the center of the lens thickens, shortening the focal length so near by objects focus on the retina. This is called accommodation. Your eyes can hurt or you can get a headache from focusing on close objects for long times.

We define the near point as the closest distance at which an object is in clear focus. This increases as we age due, in part, to degenerative changes in the lens material and ciliary muscles.

We define the far point as the farthest distance at which an object is clearly focused. For a normal eye, the near point is 25cm (closer for young people) and the far point ∞.

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Clifford Lane

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