

# Chapter 25

## • Optical Instruments •

### 25.1

- The basic elements of a camera are:
  - lens
  - light tight box
  - shutter
  - electronic sensor or film

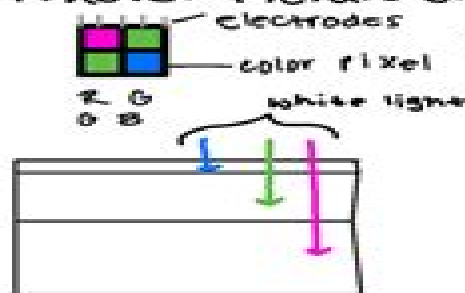
Film contains a thin emulsion (a coating) with light-sensitive chemicals that change when light strikes them

Digital cameras: use a semiconductor sensor

CCD: charge-coupled device

CMOS: complementary metal oxide semiconductor

Pixels: "Picture elements"



Bayer array sensor

f-stop: The amount of light reaching the sensor or film depends on the area of the lens opening as well as shutter speed.

Underexposure: too little light so the picture is dark and only the brightest objects show up

Overexposure: too much light, so bright objects have a lack of contrast and "washed out" appearance

$$f\text{-stop} = \frac{f}{D}$$

— focal length of lens

— diameter of lens [mm]

### 25-2: The Human Eye; Corrective Lenses

# Chapter 25 Optical Instruments Answers To Questions

**LM Reder**



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