

# Design of modern sensor

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# Sensor: shema

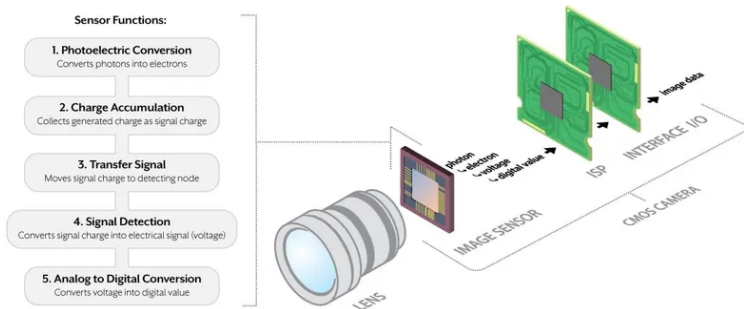


Figure 1: source: thinklucid.com

# Pixel: shema

## Pixel (image sensor)

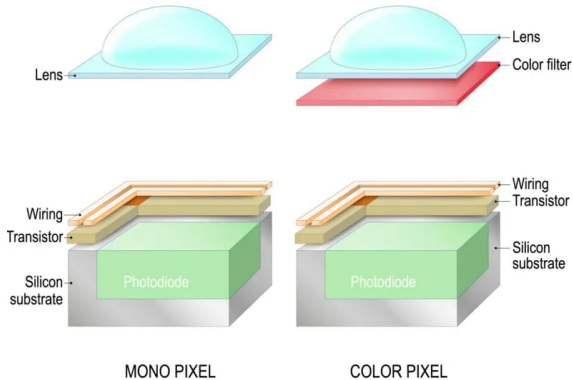


Figure 2: source: [petapixel.com](http://petapixel.com)

# Photodiode

Semi-conductor sensitive to photon radiation

Create an electric field when it absorb photons

## Sensor: CCD vs CMOS structure

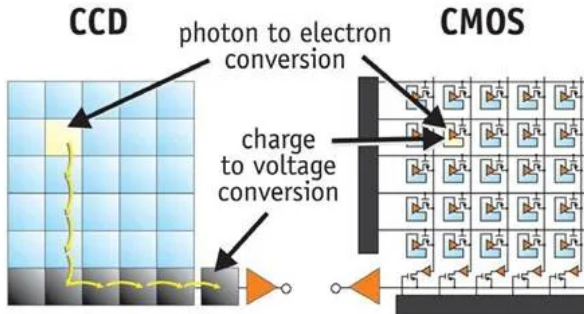


Figure 3: source: scienceshot.com