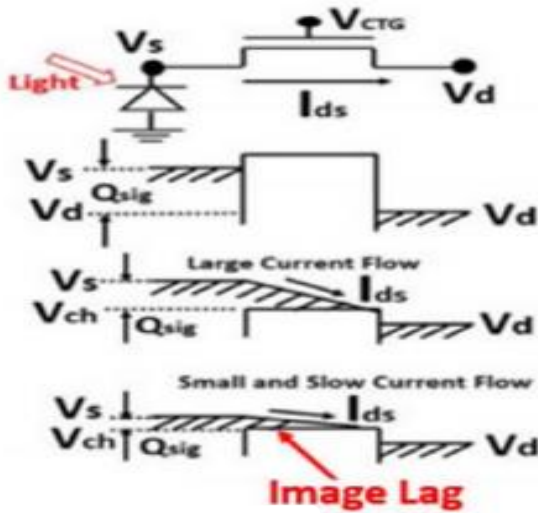
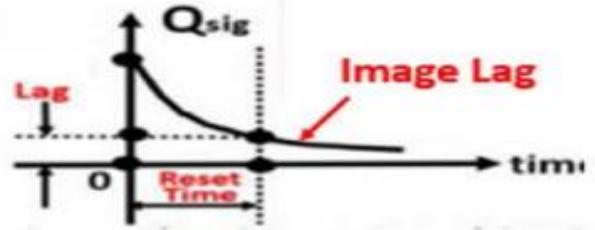


(1) N+P Floating Surface Single Junction Photodiode



$$I_{ds}(t) = I_0 (V_s - V_{ch})^2$$

$$Q_{sig}(t) = Q_0 \exp(-t/\tau)$$

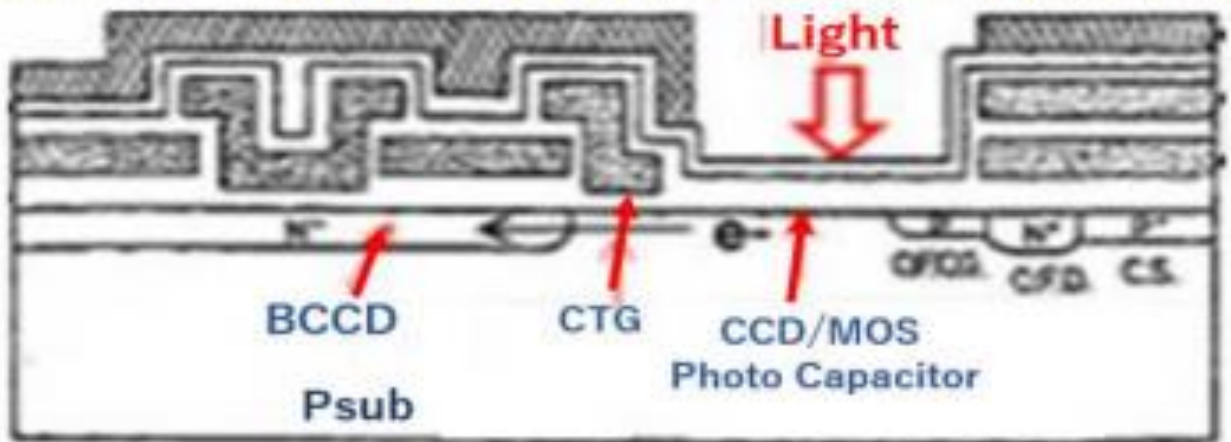


Serious Image Lag of Floating N+P Single Junction Photodiode.

(2) CCD/MOS Dynamic Capacitor type Photo Sensor



ICX-008 Sony ILT CCD Image Sensor Structure



SONY 1980 Two-chip CCD Color Video Camera XC-1.