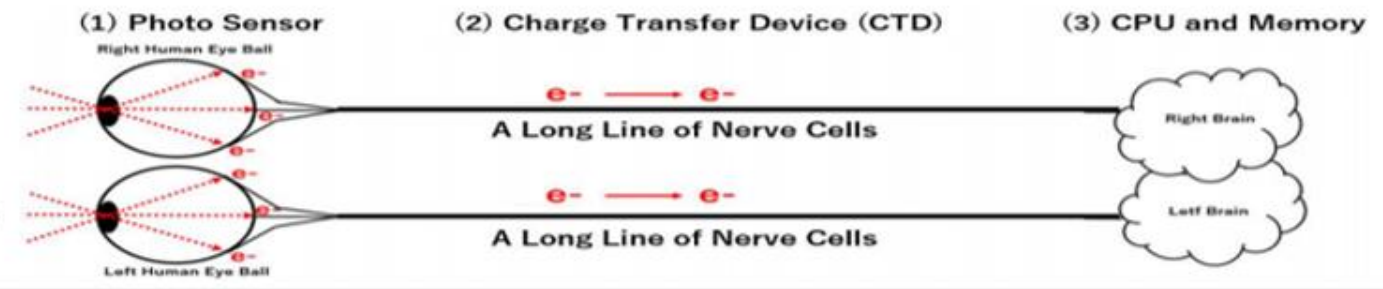


Invention and Historical Development Efforts of Pinned Buried Photodiode.

An image sensor is composed of three basic components,
 (1) Photo Sensor , (2) Charge Transfer Device (CTD) and (3) CPU and Memory



Three types of Photo Sensing Devices		1	2	3
		N+P Single Junction Photodiode with Floating N+ Surface	Charge Couple Device CCD/MOS Dynamic Photo Capacitor	P+NP Double Junction Dynamic Photo Transistor Pinned Buried Photodiode
1	Image Lag Problem	Serious Image Lag Problem	No Image Lag Problem	No Image Lag Problem
2	Surface Dark Current Noise	No Surface Dark Current Noise	Serious Surface Dark Current Noise	No Surface Dark Current Noise
3	Short-Wave Light Sensitivity	Poor Short-Wave Light Sensitivity	Very Poor Short-Wave Light Sensitivity	Excellent Short-Wave Light Sensitivity