III. ORIGIN OF PINNED BURIED PHOTODIODE

TABLE I. HISTORICAL PHOTOSENSOR DEVELOPMENT EFFORTS

Γ	Three types of	1	2	3
h	Photo Sensing Three Devices mportant Teatures	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