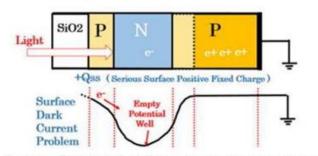
http://www.aiplab.com/ Yoshiaki Hagiwara

Super Light Sensitivity Feature

P+NP junction type Buried Depletion Photodiode with Image Lag Problem

See Japanese Patent 1975-134985, 1975-127647 and 1975-197646



Depletion Photodiode by definition has the Complete Charge Transfer Mode similar to the Buried Channel CCD charge Transfer with Completely Depleted Empty Potential Well with No Image Lag

Simple Buried Photodiode The surface P+ layer may be Floating, not Pinned Photodiode

09

Slide 09

The Buried Depletion Photodiode shown in this figure, also with the floating surface P+ layer with the surface electric field, causes the same image lag problems with the similar reason why the classical N+P junction type photodiode inherently had the image lag problem.