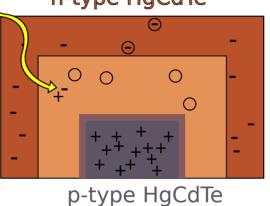


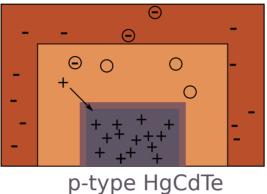
Photons strike depletion region, creating pairs of electrons and holes

n-type HgCdTe



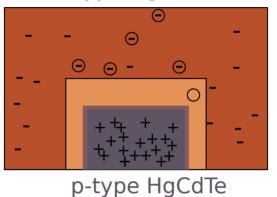
Charges are trapped in the depletion layer

n-type HgCdTe

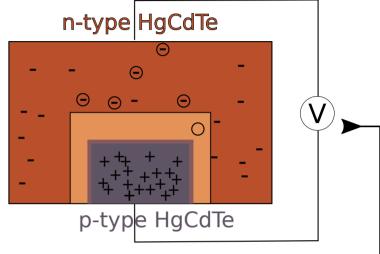


Depletion Region decreases in size as mobile charges build up

n-type HgCdTe

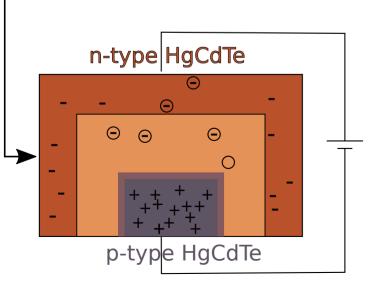


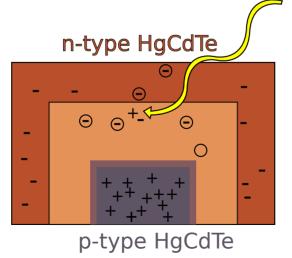
The number of electrons is counted by measuring the voltage across diode



Reset voltage applied. Trapped charge remains.

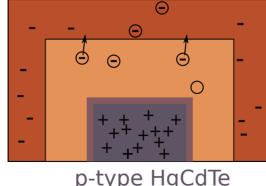
p-type HgCdTe





Trapped charges release.

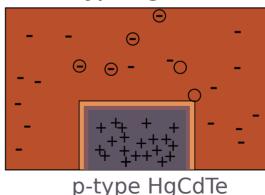
n-type HgCdTe



p-type HgCdTe

Depletion Region decreases in size more quickly

n-type HgCdTe



Next Integration

The smaller depletion region appears as spurious signal.

