

schematic, not to scale

independent Poisson charge,
independent Gaussian reads

photoelectrons, quantum
efficiency (QE) $q = 0.5$

dark charge, $d = 0.01$ e/s

planet light

background light



read: + read noise, $\sigma_r = 2$ e RMS

one of the 4
aperture pixels

clock out: + clock-
induced charge (CIC),
 $c = 0.02$ e/frame

one frame
value

grows with live time

once per frame, at its read