	True signal	Variance
Initial photoe. count	q	q
Analog gain g_a	$g_a q$	$g_a^2 q$
Readout w/ var. r^2	$g_a q$	$g_a^2 q + r^2$
Digital gain g_d	$g_d g_a q$	$g_d^2 g_a^2 q + g_d^2 r^2$