

ADSC

PRODUCT SPECIFICATIONS

PRODUCT	Q315 Q210	Q315 r Q210 r
ACTIVE AREA	315mm x 315mm 210mm x 210mm	315mm x 315mm 210mm x 210mm
FULL WELL		
Full Resolution	200,000	200,000
2x2 Hardware Binned	200,000	260,000
2x2 Software Binned	800,000	800,000
READ NOISE		
Full Resolution	13.5 electrons	11.0 electrons
2x2 Hardware Binned	16.0 electrons	11.5 electrons
2x2 Software Binned	2x13.5 electrons	2x11.0 electrons
READ NOISE (12.5 KeV Photons)		
Full Resolution	1.85 photons	1.53 photons
2x2 Hardware Binned	2.22 photons	1.60 photons
2x2 Software Binned	3.70 photons	3.06 photons
DYNAMIC RANGE		
Full Resolution	14,100	18,100
2x2 Hardware Binned	12,500	22,600
2x2 Software Binned	29,600	36,300
EFFECTIVE # BITS		
Full Resolution	13.85	14.15
2x2 Hardware Binned	13.61	14.46
2x2 Software Binned	14.85	15.15
READOUT TIME		
Full Resolution	1.10 seconds	0.90 seconds
2x2 Hardware Binned	0.42 seconds	0.25 seconds
2x2 Software Binned	1.10 seconds	0.90 seconds
SIGNAL to NOISE / Xray		
Full Resolution	0.54	0.65
2x2 Hardware Binned	0.46	0.63
2x2 Software Binned	0.27	0.33