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CCD Specifications for KAF 1400

The following specifications are for a typical KAF 1400 CCD. The actual measurements for your camera are listed on the Certificate of Calibration that was shipped with your camera.

CCD Specifications	
H x V	1317 x 1035
Pixel Size	6.8µm x 6.8µm

1 MHz

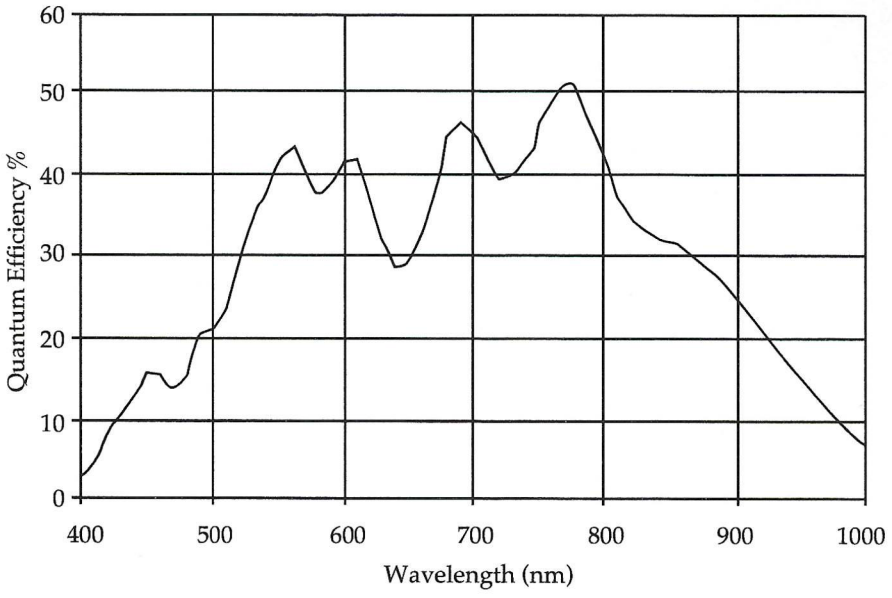
Detection Mode	Gain Setting	Relative Gain	Typical Noise	System Gain	Typical Maximum ADC Signal
High Signal-to-Noise	1	≈ 1/2x	24e-	≈20e-/ADU	80Ke- (binned full well*)
High Dynamic Range	2	≈1x	18e-	≈10e-/ADU	40Ke- (single pixel full well)
High Sensitivity	3	≈4x	16e-	≈2.5e-/ADU	10Ke- (high sensitivity)

* Binning must be a minimum of 2 pixels in the parallel or serial direction to reach the maximum ADC signal

5 MHz

Detection Mode	Gain Setting	Relative Gain	Typical Noise	System Gain	Typical Maximum ADC Signal
High Signal-to-Noise	1	≈ 1/2x	28e-	≈20e-/ADU	80Ke- (binned full well*)
High Dynamic Range	2	≈1x	23e-	≈10e-/ADU	40Ke- (single pixel full well)
High Sensitivity	3	≈4x	20e-	≈2.5e-/ADU	10Ke- (high sensitivity)

* Binning must be a minimum of 2 pixels in the parallel or serial direction to reach the maximum ADC signal



Typical QE Curve (CCD not installed in camera)

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