

SBIG ST8XME CCD Calibration Sheet

Measurements by TG Tan <http://www.cantab.net/users/tgtan/>

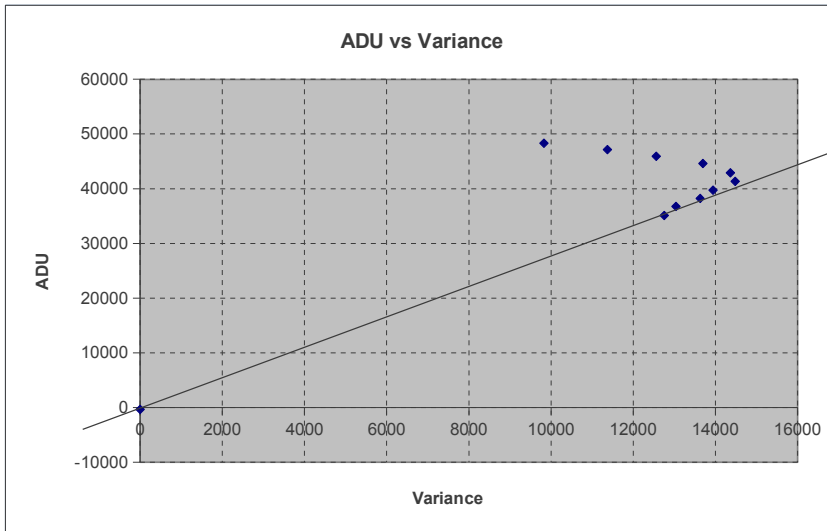
Model	ST8XME	Firmware	
Sensor	KAF1603E	Binning	1 x 1
Date	6/02/2010		
CCD Temp.		-5 deg C	

1. System Noise (a)	-5 deg C
	GAIN: 2.71 e-/ADU
	SDEV: 7.35 ADU
	RD NOISE(e-): 19.90 e-

2. Bias Level:	117 ADU
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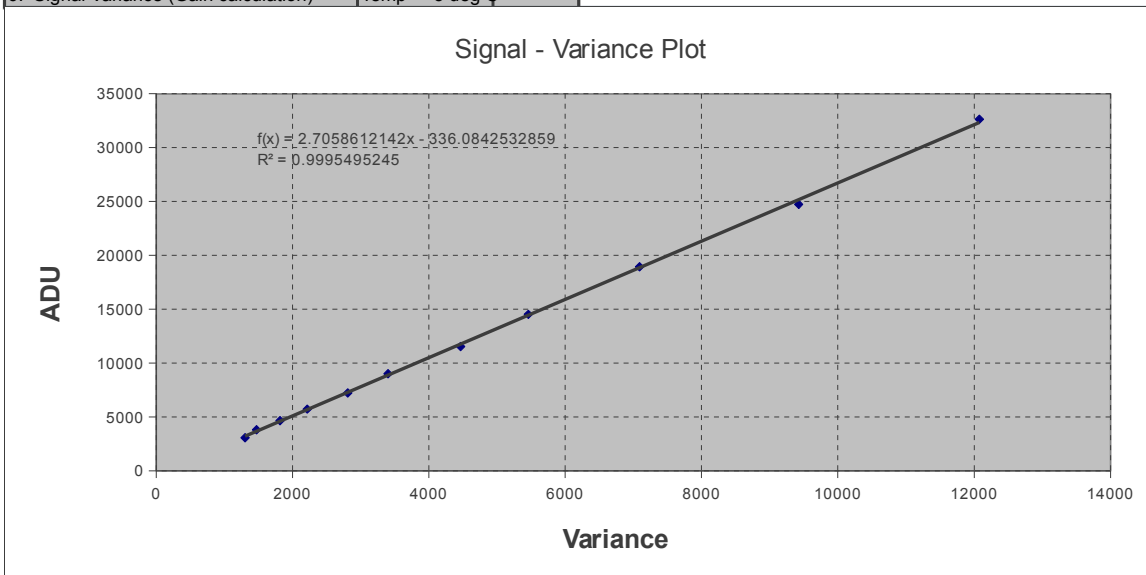
3. Dark Count:	0.04925 e/pix/s
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4. System Linearity (b)	
Saturation at	40000 ADU



5. Calculated Quantities		
Well Depth:	108236	electrons
Dynamic Range:	5439	levels
No. of bits	12.4	bits

6. Signal Variance (Gain calculation)	Temp = -5 deg C
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7. Notes	
(a) Gain calc per Method 1:	http://www.mirametrics.com/tech_note_ccdgain.htm
(a) SDEV: Difference of 2 bias frames / 1.4142	
(a) NOISE = SDEV * GAIN	

8. Download time	7.35363 seconds
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