

ITL Camera Characterization Report

Customer	UASAL
System	ZWO ASI294MM-P
ID	1812911309020900
Operator	Michael Lesser
Comment	Edge glow
Report date	Apr-05-2024

Gain Analysis

Read Noise in electrons is not system noise corrected

Channel	Gain [e/DN]	Noise [e]	Sens. [$\mu\text{V}/\text{e}$]	Bias[DN]
00	1.05	8.3	0.00	510.3

Gain Map

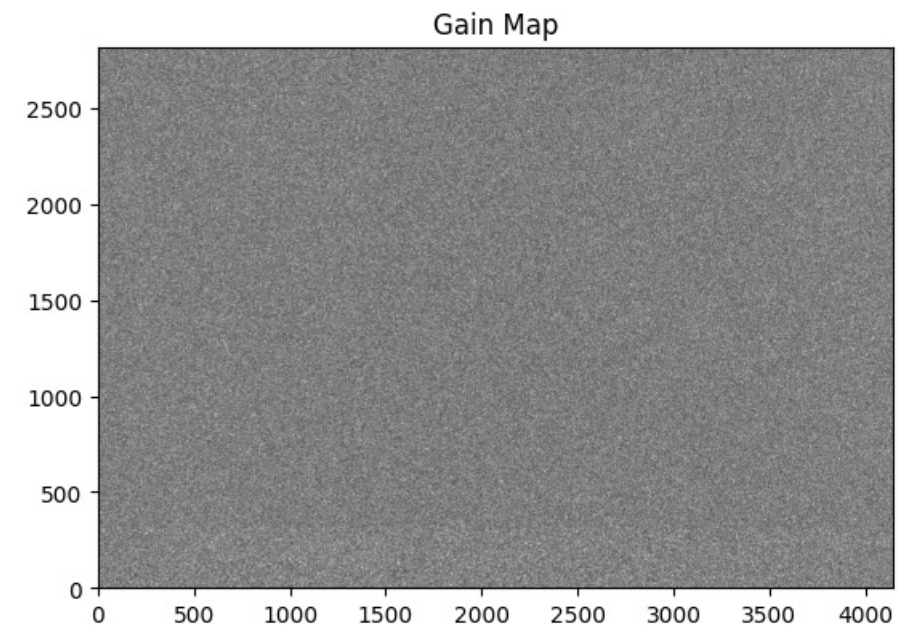
Gain mean = 1.054

Gain minimum = 0.027

Gain maximum = 14.251

Gain median = 0.971

Gain sdev = 0.408

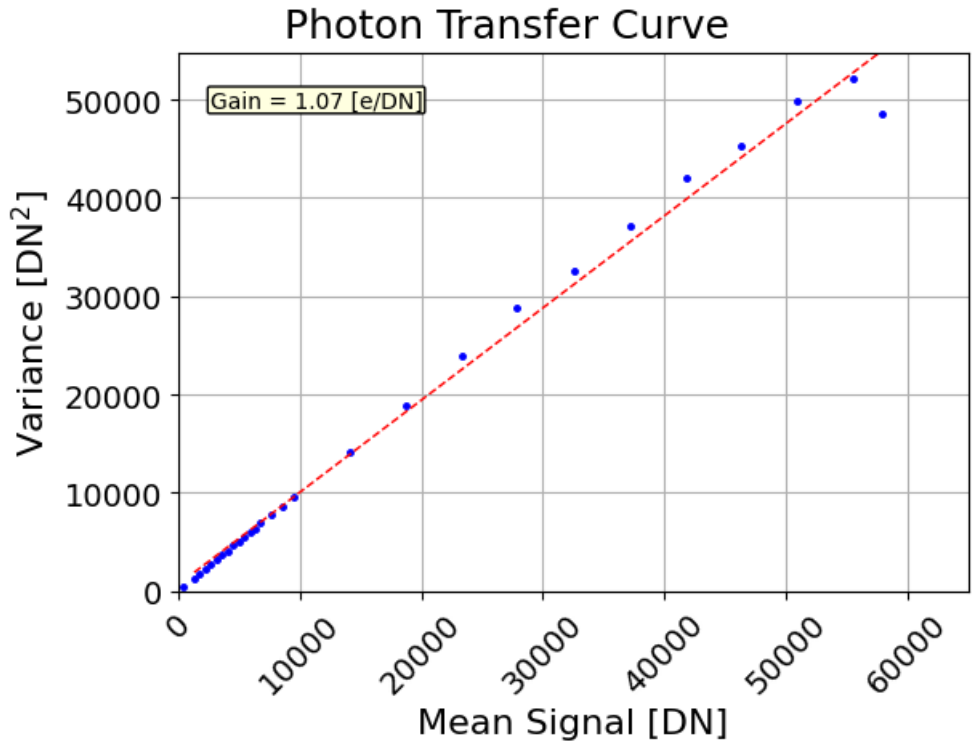


Gain Map Image.

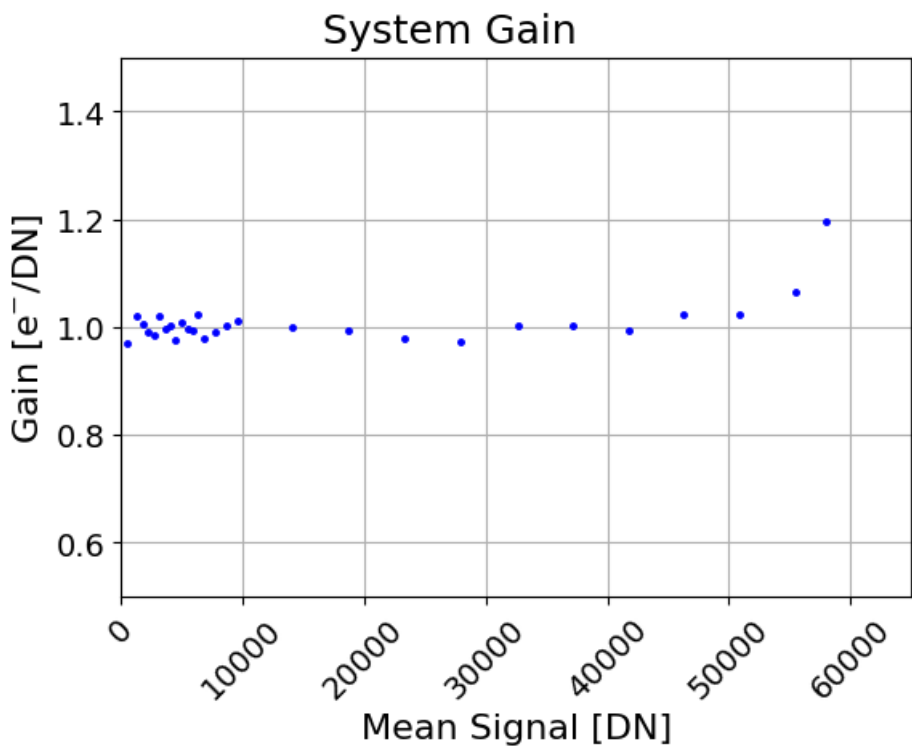
PRNU Analysis

Wavelength	PRNU [%]
0400	0.7
0450	0.7
0500	0.7
0550	0.7
0600	1.0
0650	1.4
0700	1.7
0750	1.1
0800	2.0

PTC Analysis



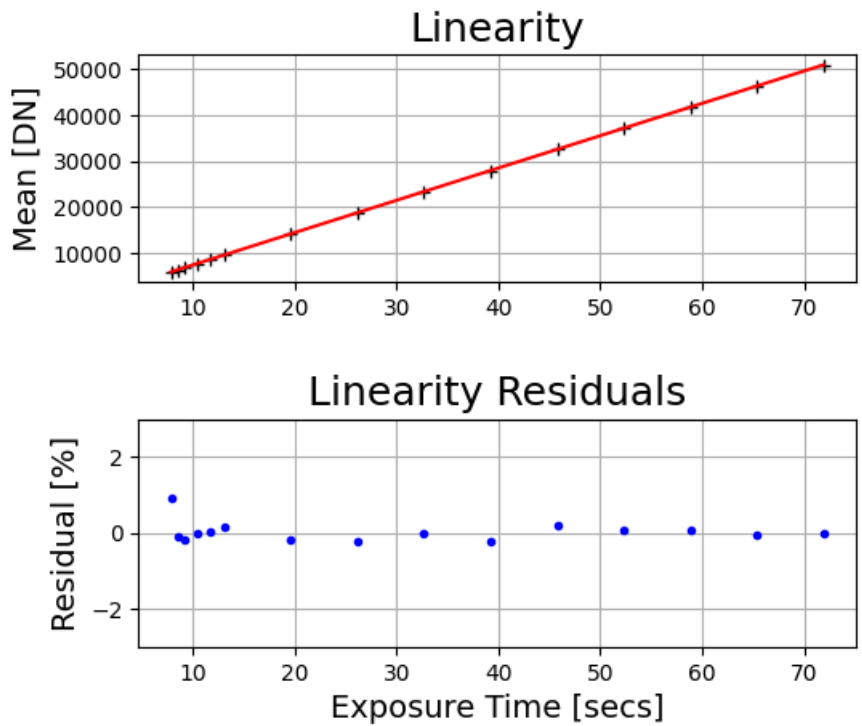
Photon Transfer Curve.



Photon Transfer Gain Plot.

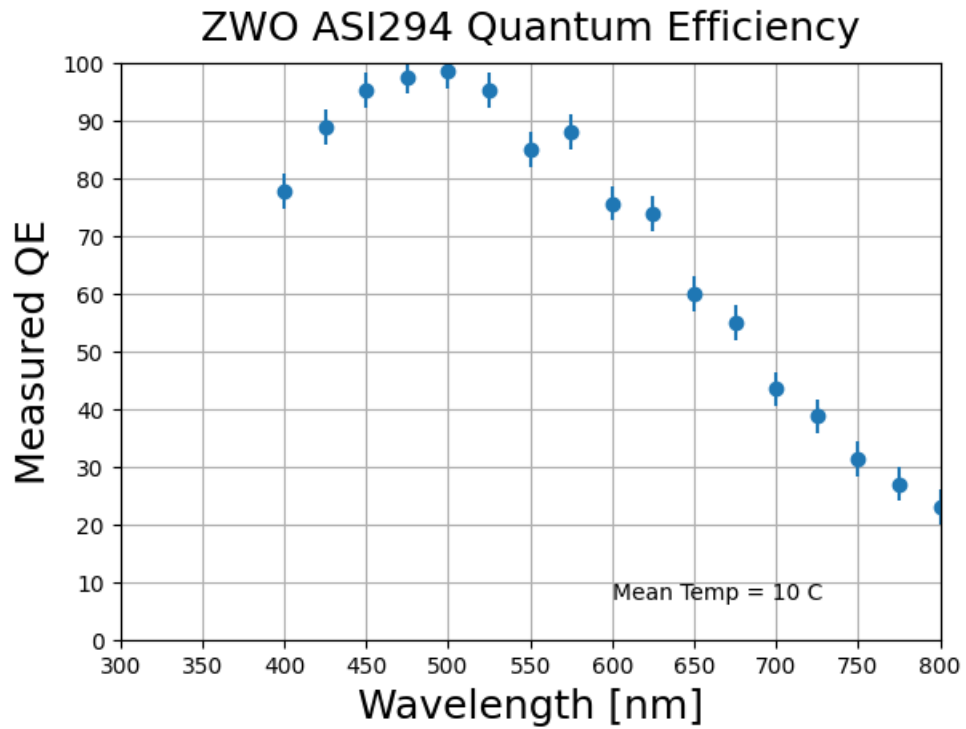
Linearity Analysis

Max residual value [%]: 0.9
Minimum fit limit [DN]: 5500.0
Maximum fit limit [DN]: 49500.0
Mean residuals [%]: 0.2



Linearity and residuals Plot.

Quantum Efficiency Analysis



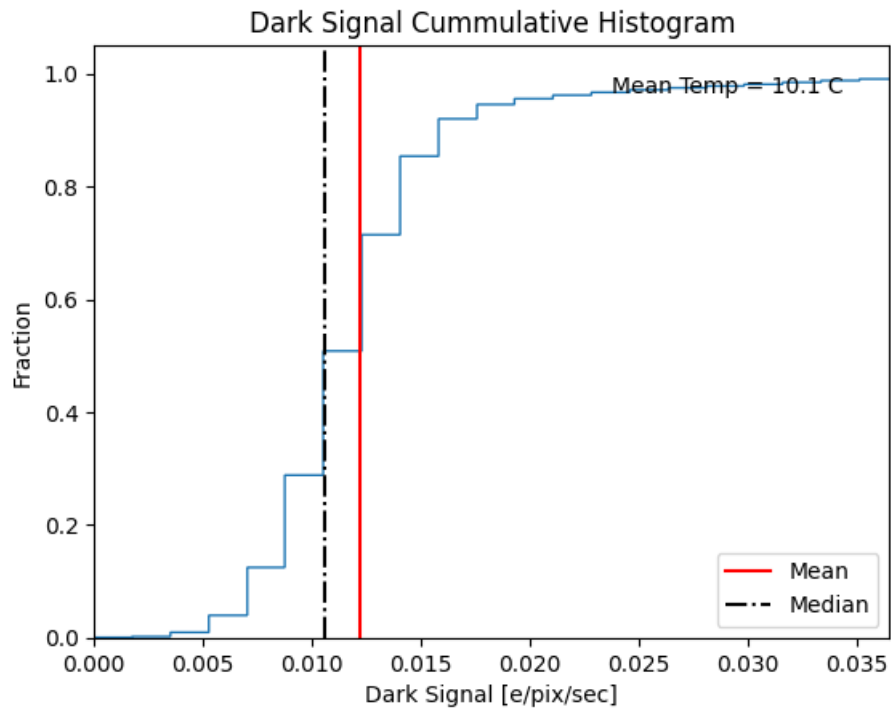
Quantum Efficiency Plot.

Wavelength	QE
400	0.777
425	0.889
450	0.951
475	0.976
500	0.985
525	0.951
550	0.849
575	0.880
600	0.756
625	0.738
650	0.600
675	0.550
700	0.434
725	0.387
750	0.313
775	0.270
800	0.230

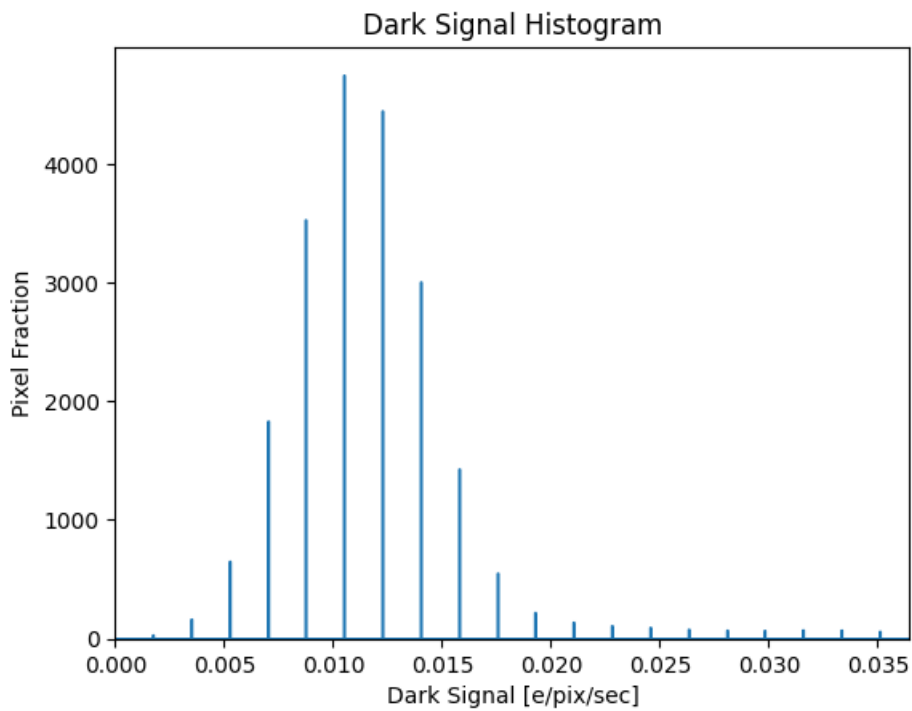
Dark Signal Analysis

Mean dark signal is 0.012 e/pix/sec

Median dark signal is 0.011 e/pix/sec

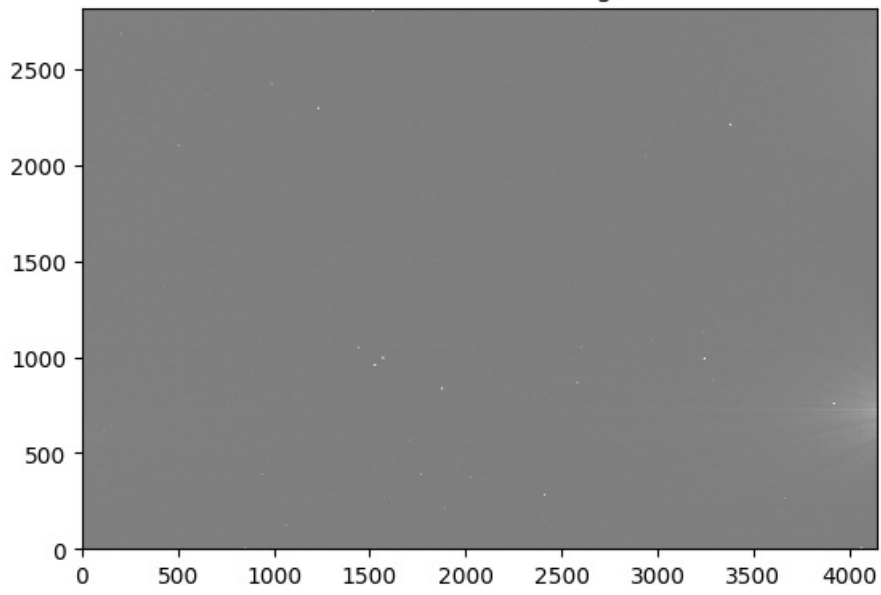


Cumulative Dark Signal Histogram.



Total Dark Signal Histogram.

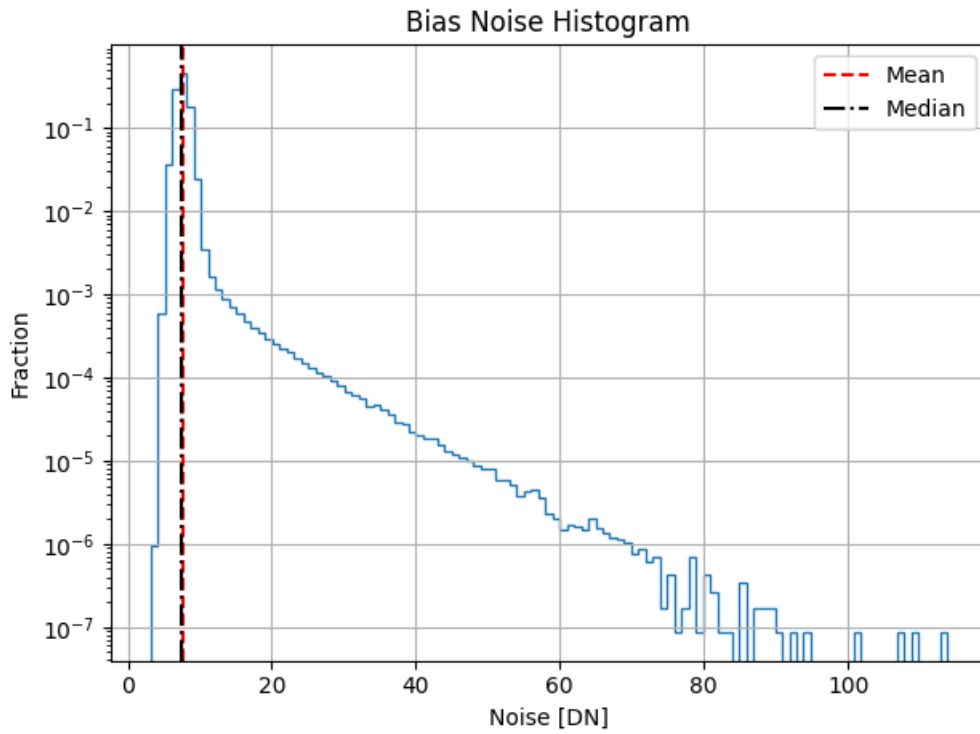
Combined Dark Image



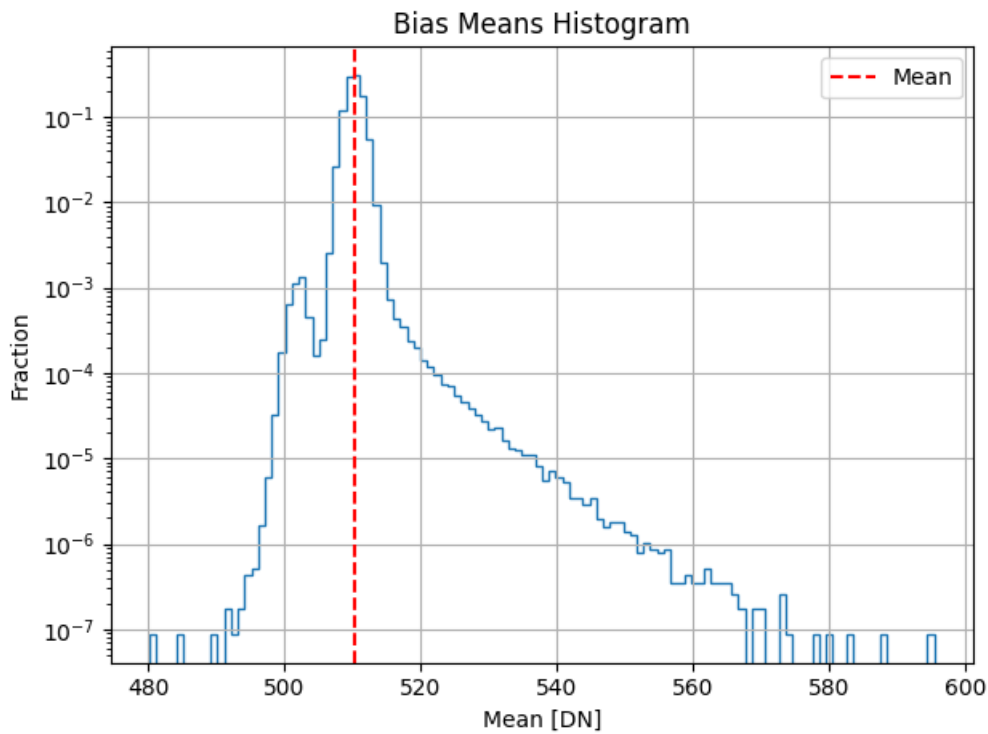
Dark Image.

Bias Analysis

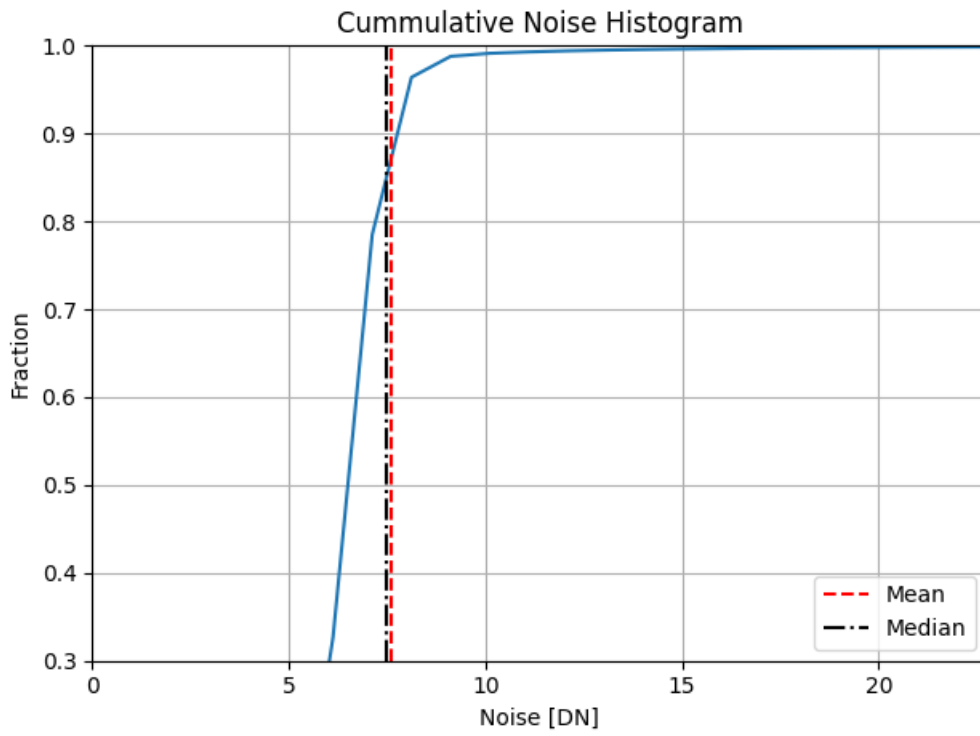
Mean (DN)	Noise (DN)
510	7.6



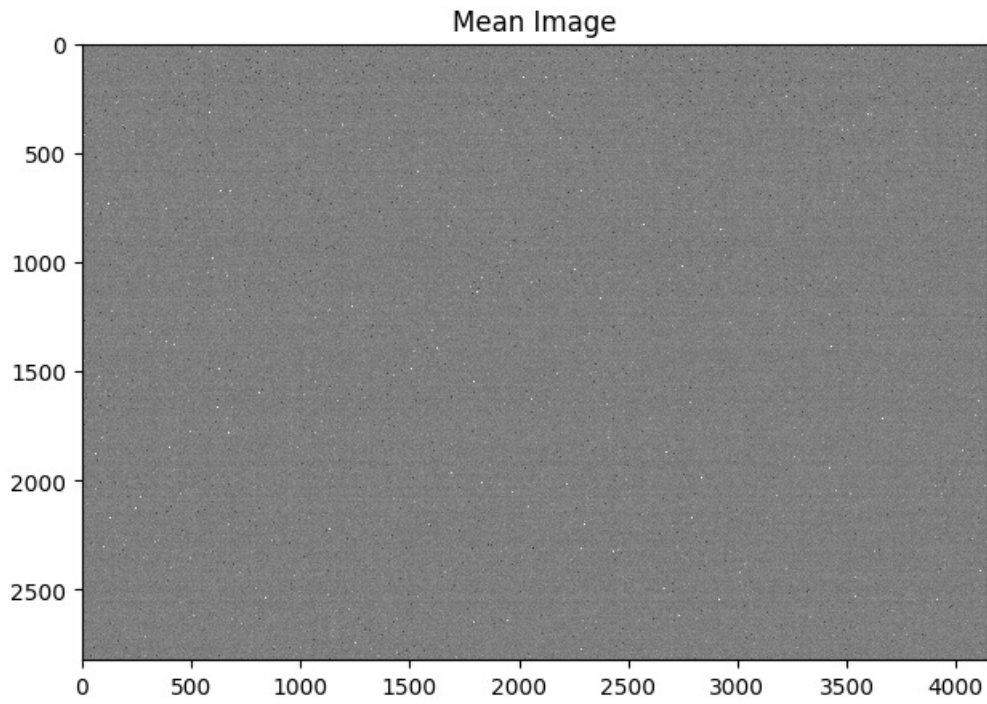
Bias noise histogram.



Bias means histogram.

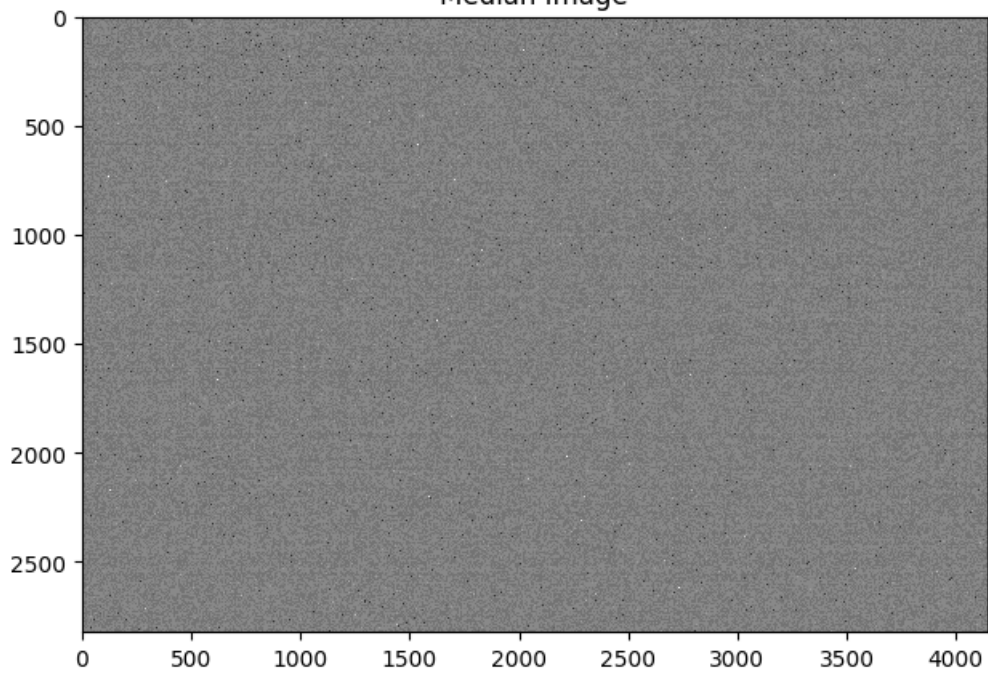


Bias mummulative noise histogram.



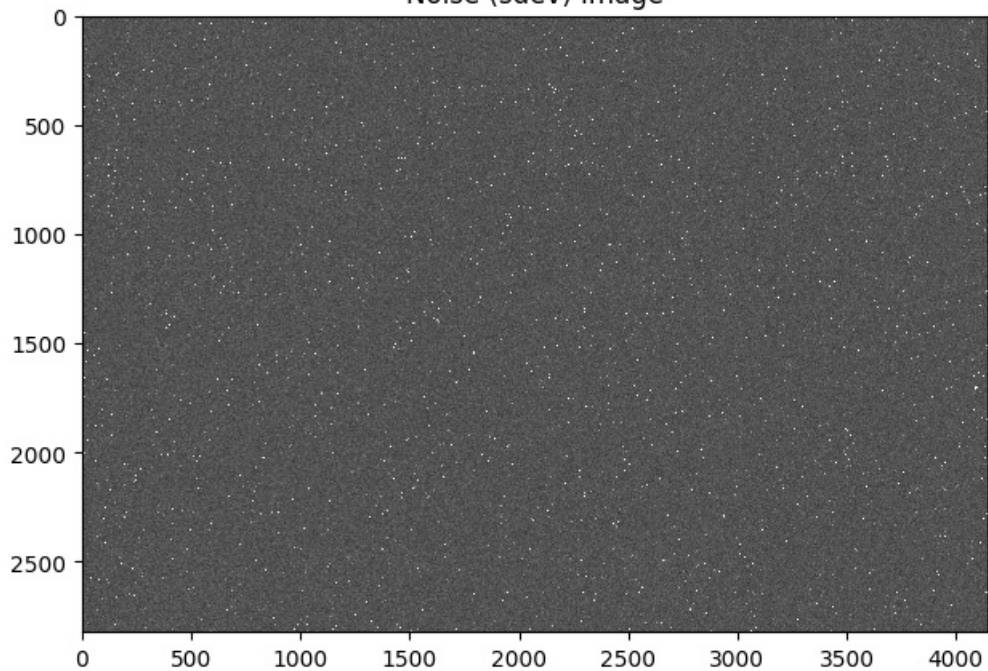
Bias mean image plot.

Median Image



Bias median image plot.

Noise (sdev) Image



Bias Noise (sdev) image plot.