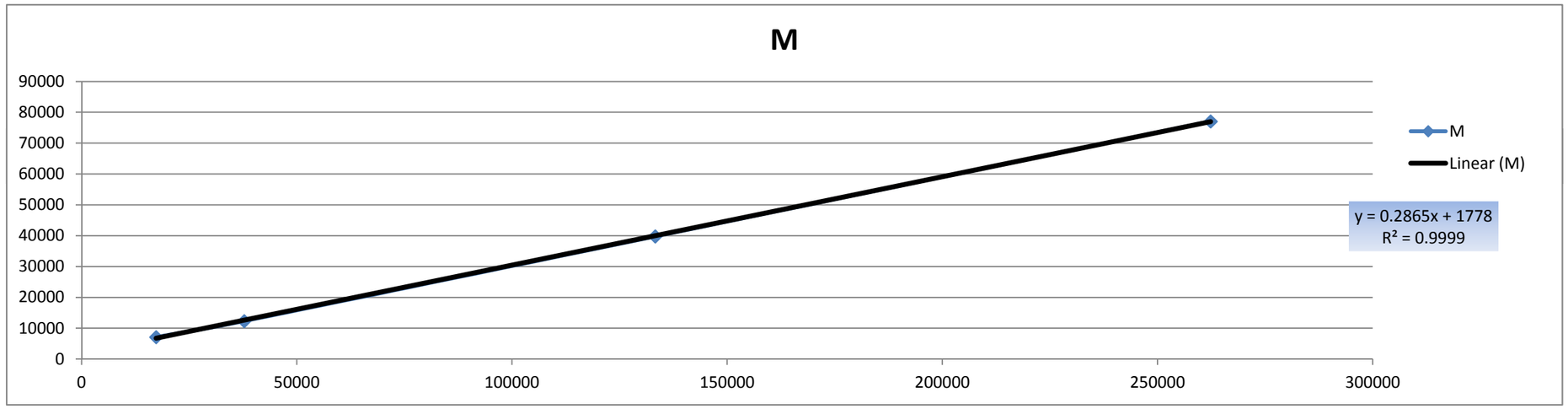
# QHY22 Basic parameters

roryt 2013-02-01

Based on Craig Stark's excellent article : *"Signal to Noise: Understanding it, Measuring it, and Improving it, Part 3 - Measuring your Camera" (http://www.cloudynights.com/item.php?item_id=2001, July 7, 2009, Cloudy Nights)*

**CAMERA GAIN= 0.2865** **full-well capacity= 18531 e⁻** **T= -20C** **gain=3** **offset=128** **Max= 64681**

| V | M |
|---|---|
| 262348.84 | 77060.8 |
| 133298.01 | 39780.8 |
| 37791.36 | 12313.2 |
| 17318.56 | 7108.4 |
| **Outlier** | |
| 280264.36 | 118023.4 |




## READ NOISE

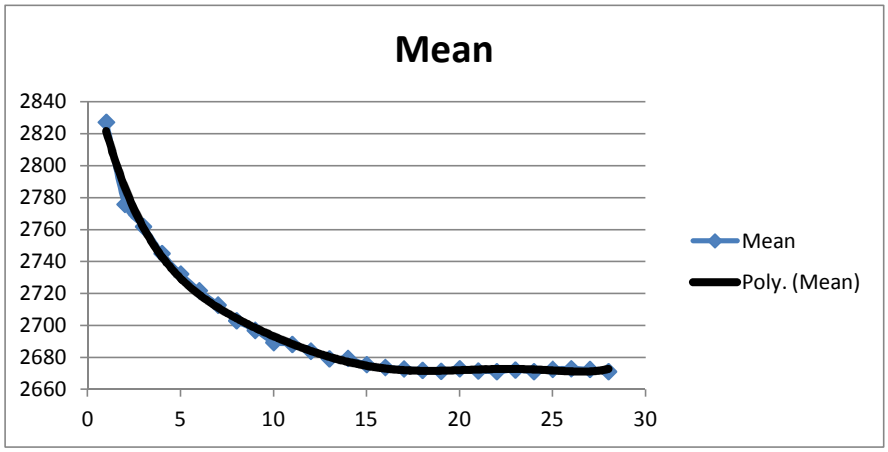
| | StdDev |
|---|---|
| **1** | 15.8 |
| **2** | 15.8 |
| **3** | 15.6 |
| **4** | 15.8 |
| **Read Noise (ADU)** | **15.75** |
| **READ NOISE (e⁻/ADU)** | **4.5124** |

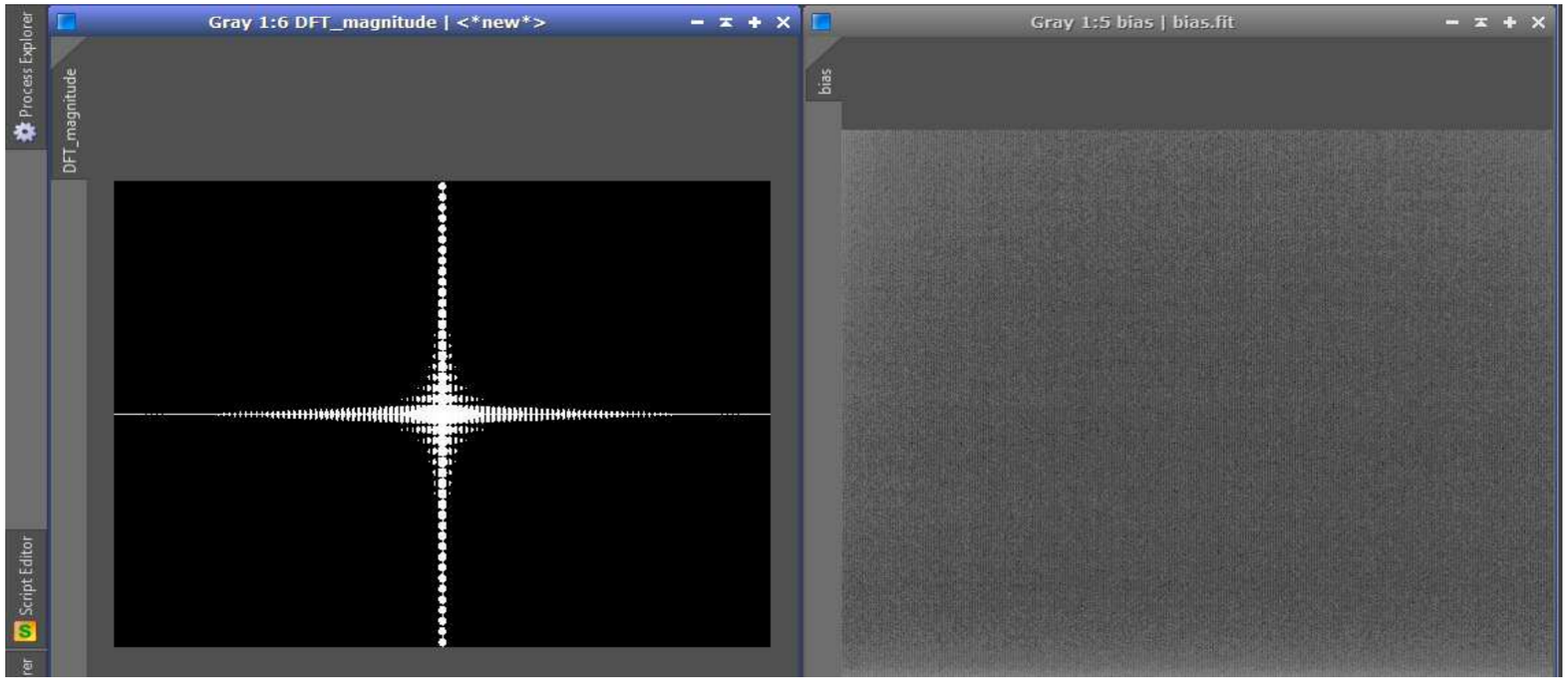
## DARK CURRENT

| | Mean | StdDev |
|---|---|---|
| **Dark 10m** | 1309.7 | 63 |
| **bias** | 1275.4 | 15.8 |
| **Dark Current (ADU)** | | **34.3** |
| **Dark Current (e⁻/ADU)** | | **9.8269** |
| **Dark Current (e⁻/secs)** | | **0.0164** |

## Dark Stability

| Mean |
|---|
| 3083.499 |
| 2827.212 |
| 2775.832 |
| 2761.866 |
| 2745.15 |
| 2732.265 |
| 2721.896 |
| 2712.852 |
| 2703.029 |
| 2697.088 |
| 2689.433 |
| 2688.295 |
| 2684.018 |
| 2679.286 |
| 2679.517 |
| 2675.536 |
| 2673.759 |
| 2672.906 |
| 2671.966 |
| 2671.447 |
| 2673.023 |
| 2671.663 |
| 2671.125 |
| 2672.139 |
| 2671.216 |
| 2672.602 |
| 2673.099 |
| 2672.522 |
| 2671.278 |






**FFT of Master Bias**

**FFT of Readout Noise**