|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter** | **16 bit CCD** | **QHY 16 bit CMOS** | **ZWO 12-14 bit CMOS** |
| Readout Mode | N/A | Mode 1 (High Gain Mode) | Mode ? (Max Dynamic Range) |
| Amplifier Switch?? | N/A | 56? |  |
| Gain (dB) | Fixed by Manufacturer | 0 | 0 |
| Gain (e-/ADU) | Fixed by Manufacturer | ? | ? |
|  |  |  |  |
| Offset | 100? Set to keep bias and thermal noise above zero? | 10 (100?) | 100 |
| Binning | Binning on hardware, set to match with local seeing, 2-3 pixels per FWHM | 1x1 (bin as needed in software?) | 2x2 |
| FITS Image Bit Size | 16 bit usually acceptable but 32 bit float prevents clipping? | 32 bit float? |  |