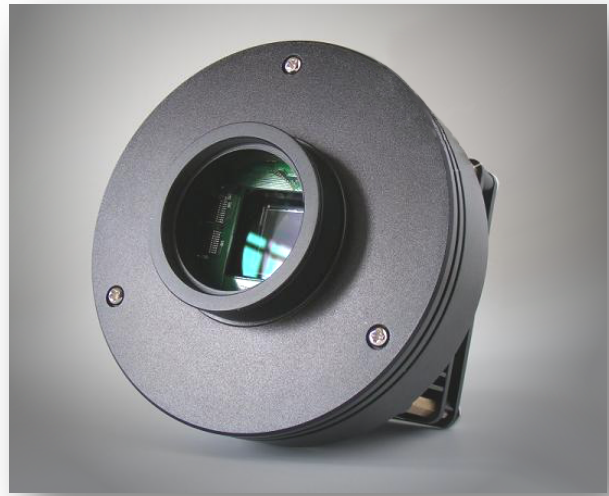


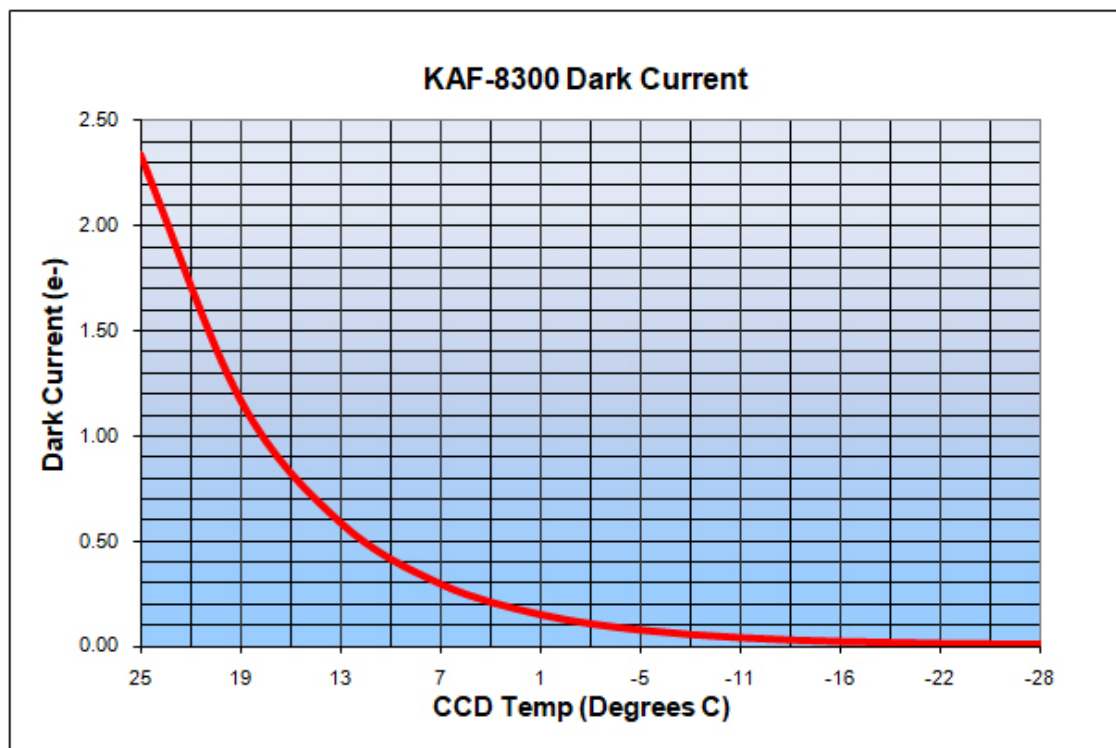


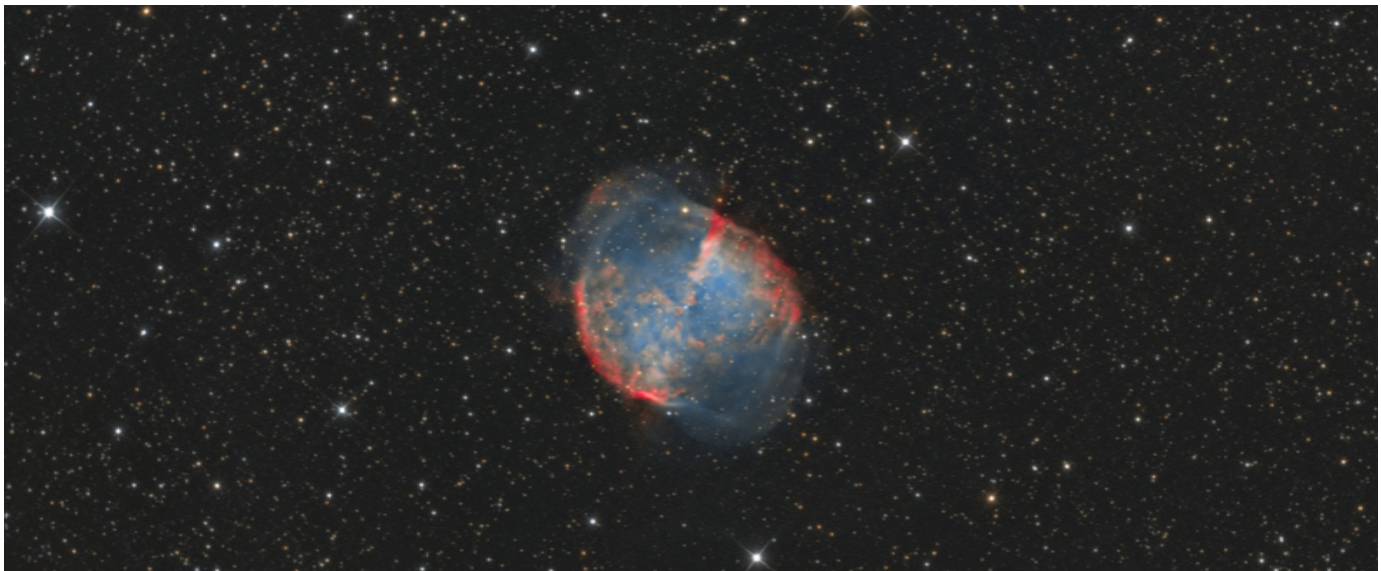
QHYCCD

QHY9 8.3 Megapixel 4/3 inch, Cooled CCD Camera

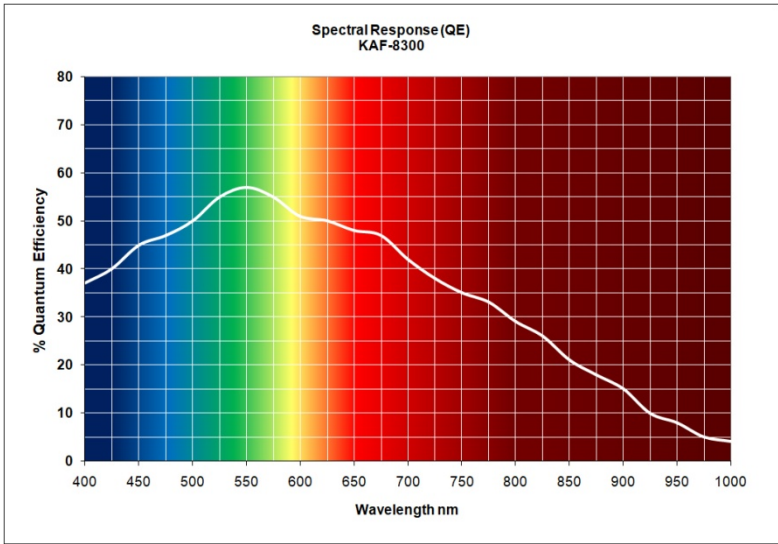


The QHY9 is a classic mono camera using the very popular On Semiconductor (Kodak) 8.3 Megapixel KAF-8300 CCD sensor. This sensor has a relatively large field of view for its price, and good QE for deep sky imaging. The peak QE is 56%, and it has 48% QE at the wavelength of H-alpha. The QHY9 has two-stage thermoelectric cooling with a typical delta T of -45C below ambient. This offers outstanding thermal noise control. Compared to competing models, the QHY9 offers 20 to 25 additional degrees of cooling. Since the dark current is reduced by half for approximately every 6 to 7 degrees of cooling, this means that there is approximately 10X less dark current in the QHY9 compared to these other models. The QHY9 give you excellent dark current noise reduction even in long exposures taken on a hot summer night. The model QHY9 is also a round design, more appropriately suited for use in Hyperstar telescopes.





Dumbell Image taken with QHY9 from London, courtesy Jaspal Chadha



| Model | QHY9 |
|---------------------|---|
| Sensor | KAF-8300 (Mono) Full Frame CCD |
| Optical Format | 4/3-inch |
| Sensor Size | 17.96mm x 13.52mm (22.5mm diagonal) |
| Total Active Pixels | 8.3 Megapixels |
| Pixel Size | 5.4um x 5.4um |
| Active Pixel Array | 3358 x 2536 |
| Cooling Delta T | -45C Typical, Regulated, -50C Max |
| Read Noise | 9e- typical |
| Shutter | Mechanical |
| A/D Resolution | 16-bit |
| Peak QE | 56% |
| Full Well Capacity | 25.5ke- |
| Computer Interface | USB 2.0 |
| Weight | 510g |
| Reference Price | \$1999 includes QHYCFW2-S filter Wheel for 36mm unmounted filters |

For more information visit <http://www.qhyccd.com>