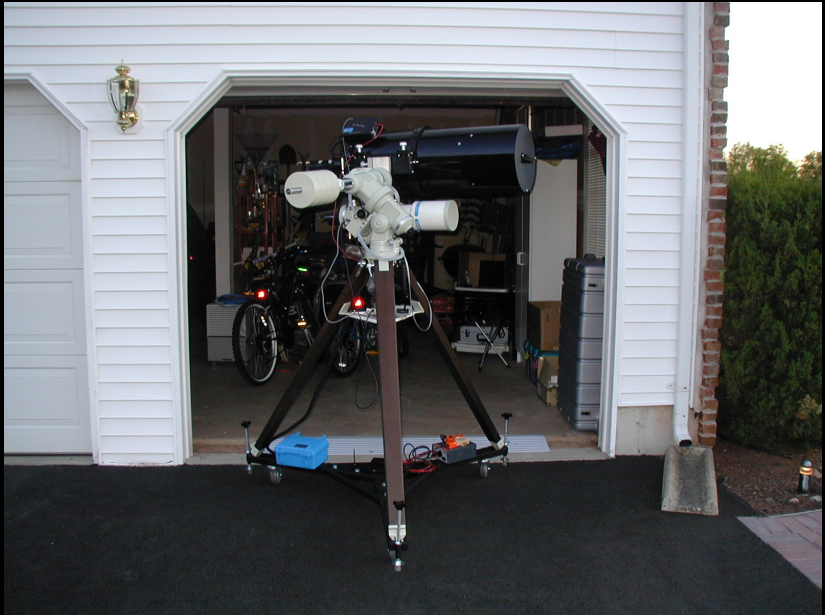


10" Reflector, 4" Refractor, and Finder

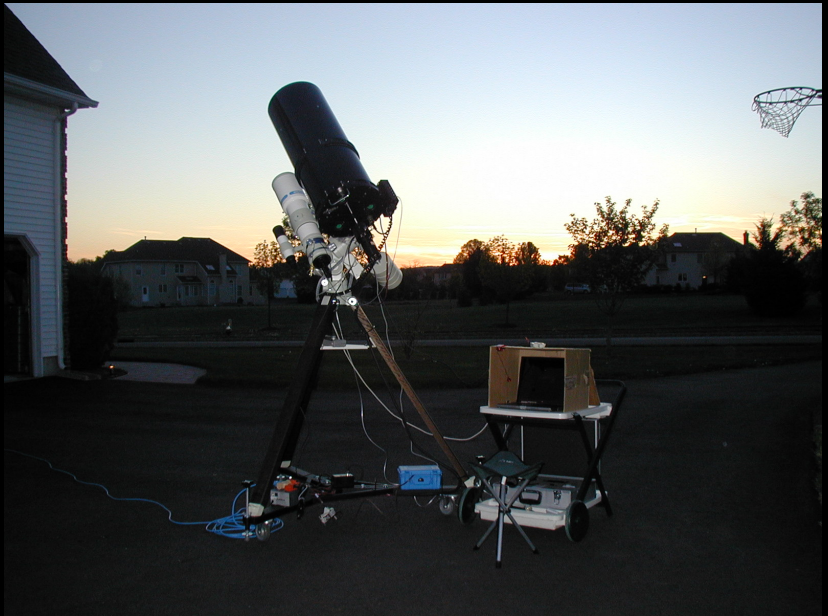
1. Mount
2. Camera
Computer
Software
3. Telescope



Move equipment outside.



Ready To Go...



Our Solar System



Full Moon



SuperMoon...



Minimoon

Distance = 399,686 km =

1.333 ls

22:09 EST, Feb 3, 2015



Supermoon

Distance = 353,615 km =

1.180 ls

23:30 EDT, Aug 9, 2014



APOLLO at Apache Point Observatory

```
apollo_apache_point.txt (~/FRS_131/2023/lectures) - VIM8
APOLLO:                                Vanderbei:
2.3 watt laser                          5mW laser                2.2 x 10^-3
2 km diameter Moon patch                20 km diameter           10^-2
10^-10 sec pulse                        1 sec pulse              10^10
3.5m aperture                           0.25m aperture           5.1 x 10^-3
Quantum Efficiency (QE) = 1              QE = 0.9                  0.9
    |                                     |
    v                                     v
2 photons                                ----> 10.1 x 10^2 = 1010 photons
```

