

# CFAS Telescopes

The observing committee maintains several excellent telescopes for the use of CFAS members. Members must reserve telescopes in advance. Members must sign loaner agreements which spell out the loaner's responsibilities. Members are responsible for the proper use and storage of these telescopes while they are in their care. Members can reserve telescopes through the observing committee. Contact the Observing Chair at email: [observing@cfas.org](mailto:observing@cfas.org).

CFAS also maintains additional high end telescopes that are primarily used for CFAS outreach events. These telescopes are also usually brought to CFAS observing sessions and are available there for viewing by CFAS members.

## LOANER TELESCOPES

### 1. 10 Inch Newtonian

#### Dobsonian ALT/AZ Mount



**10" f/5.7 mirror**

**Special Designer Aluminum Optical tube**

**2" JMI focuser**

**Telrad finder**

**Eyepieces:**

- 26mm Super Meade Plossl (1.25")

- 16mm Meade Plossl (1.25")

- 9.7mm Meade Plossl (1.25")

A beautiful great deep sky viewing telescope for either beginner or more advanced observers. This telescope's optical tube was outfitted with high quality items donated from members. Its excellent mirror was hand ground by member Walt Hamler. The mount was manufactured by CFAS members. Dobsonians are easily transportable, and are a great way to learn the night sky. This excellent telescope can be checked out at regular CFAS meetings for 30 days.

## 2. 10 Inch Newtonian



**Dobsonian ALT/AZ  
Mount**

**10" f/4.5 mirror  
(Coulter)**

**2" Rack and Pinion  
focuser**

**Telrad finder**

**Mylar White Sun filter**

**Eyepieces: - 32mm Plossl (1.25")**

- 26mm super Plossl (1.25")

- 12.5mm super Plossl (1.25")

**A fast deep sky viewing telescope for beginner and more advanced observers. The telescope also comes with a Sun filter that can provide "white" views of the sun and sunspot activity. The Coulter optical tube for this telescope was donated by the Seminole State College Planetarium. CFAS members constructed a new mount and rebuilt the optical tube with a new secondary spider and holder, primary mirror holder, and new focuser. This bright image Dobsonian telescope is easily transportable, and is a great instrument to learn the night sky. This telescope can be checked out at regular CFAS meetings for 30 days.**

### **3. 10 Inch Newtonian**



**Dobsonian Rotating tube -ALT/AZ Mount**

**10" f/5 mirror**

**2" Rack and Pinion Focuser**

**Telrad finder**

**Eyepieces:**

**- 40mm wide field Plossl (2")**

**- 32mm Plossl (2")**

**- 26mm super Plossl (1.25")**

**- 12.4mm super Plossl (1.25")**

**Mylar "White" sun filter**

**This is an excellent telescope for intermediate observers. The telescope provides good views of all Messier objects as well as great views of the stars, moon and planets. The telescopes also comes with a Sun filter that can provide "white" views of the sun and sunspot activity. This telescope was rebuilt by CFAS members in 2001, and its unique mount allows the optical tube to rotate for easier viewing. Dobsonians are a great way to learn the night sky. This telescope can be checked out at regular CFAS meetings for 30 days.**

#### **4. 8 Inch Celestron Schmitt-Cassegrain**



**AS-GT German Equatorial**

**Go-To Mount**

**8" f/10 mirror**

**TeleVue 1.25" Diagonal**

**Galileo Finder**

**Orion Eyepieces: (1.25") 20mm, 15mm, 9mm, 6mm.**

**This is an excellent telescope for Advanced & intermediate observers. The telescope provides good views of all Messier objects as well as great views of the stars, moon and planets. The telescope was donated by a member. Subsequently its mount failed , and a new AS-GT mount and drive system was purchased**

by CFAS in 2009. This telescope can be checked out at regular CFAS meetings for 30 days. Because of its advanced features it requires a special operational training before members can check it out.

## **OUTREACH TELESCOPES**

### **TEC 140mm f/7 APO Refractor**

**140mm f/7 refractor ( Triplet APO)**

**2" focuser**

**2" Meade Diagonal**

**Losmandy G11 German Equatorial Mount**

**Eyepieces:**

**32 mm Meade Ultra Wide**

**22 mm Televue Panoptic**

**4.8 mm Televue Nagler Type I**

**2x Televue Power mate**

**Celestron f/6.3 Reducer with 2" adapter**



**A superb all-around telescope for both spectacular visual and astrophotography astronomy. Utilized at CFAS outreach events. Purchased by CFAS through member donations as an additional telescope for the Robinson Observatory Tinsley telescope at UCF, it's now available for member viewing at CFAS star parties or for imaging / viewing projects. The G-11 mount was purchased by CFAS. The telescope is maintained by the observing committee. Contact the observing Chairman for more information.**

### **Meade 12" f/11 LX 200 GPS Schmidt Cassegrain**

**A modern Go-To telescope system.**

**Alt- Az Fork Mount**

**4 speed Zero shift Image-Shift microfocuser**

**High Precision Pointing**

**Auto-Align with Sony GPS**

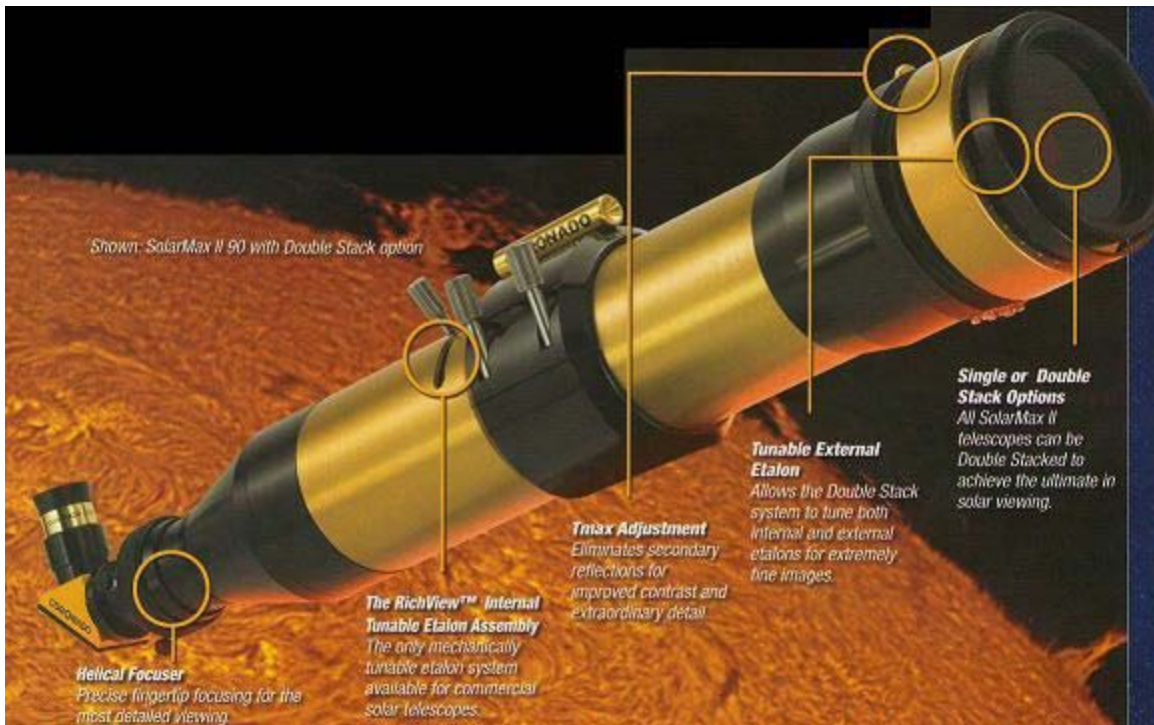
**Auto-Star Controller with 145,000 object data base.**



**A large versatile telescope utilized at CFAS outreach events. The telescope was purchased utilizing a special Motorola Grant to CFAS. The telescope is also available for viewing objects at CFAS monthly observing events. The Outreach Committee Chairman maintains this telescope.**

## CORONADO SOLARMAX 60MM Double Stacked

### H-Alpha Sun Telescope



- Aperture:** 60 mm
- **Focal Length:** 400 mm
  - **F/Ratio:** F/6.6
  - **Bandwidth:**  $<0.5 \text{ \AA}$
  - **Thermal Stability:**  $0.005 \text{ \AA}/^\circ\text{C}$
  - **Safety Blocking:**  $>10^{-5}$  from EUV/IR

**This portable sun telescope can be used on any camera tripod or piggybacked onto the CFAS ASTG mount. This sun telescope will show you the sun's prominences, active regions, filaments, as well as other surface details. The dual etalons (one internal and one external) of the Coronado SolarMax 60 are used to sharpen the filter's normal  $<0.7 \text{ \AA}$  passband to a very narrow**

**<0.5 Ångstrom centered on the 6562.8 Ångstrom H-Alpha line, thus improving contrast over the single etalon version. A complete second 60mm etalon assembly is mounted in front of the Coronado SolarMax 60's normal full-aperture 60mm etalon along with a factory-installed and performance-matched 60mm diameter second etalon mounted inside the telescope barrel. This etalon combination provides the contrast benefits of double stacking, but offers it at a lower cost. A RichView tuner attached directly behind the etalon gives you the ability to adjust for Doppler shifted light. Bino-viewers and most imaging equipment will come to focus, sometimes with the use of a Barlow or OCS.**

**This telescope was purchased by CFAS for outreach programs. It can be checked out by members for one week when not in use for outreach programs. Contact the observing chairman for information.**

### **Meade 12" LX 200 f/11 Schmidt Cassegrain Optical tube**



**This telescope was donated to CFAS by a member. Its drive system subsequently failed, and it was modified for use on German equatorial mounts utilizing a Los Mandy base. It is presently used in**

**outreach programs utilizing a member's personal equatorial mount.  
The telescope's use is controlled by the observing committee.**