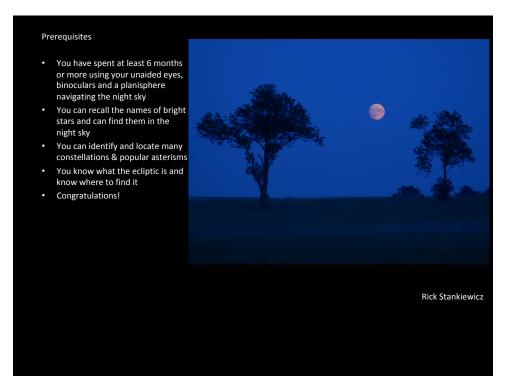
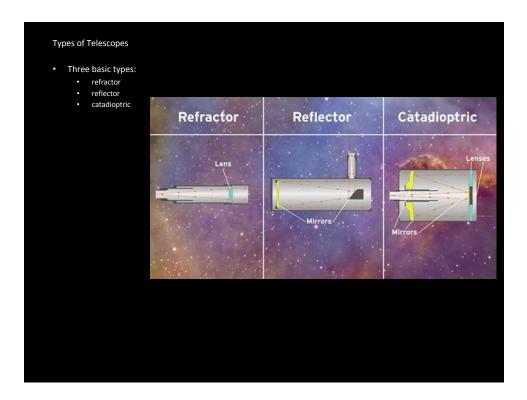
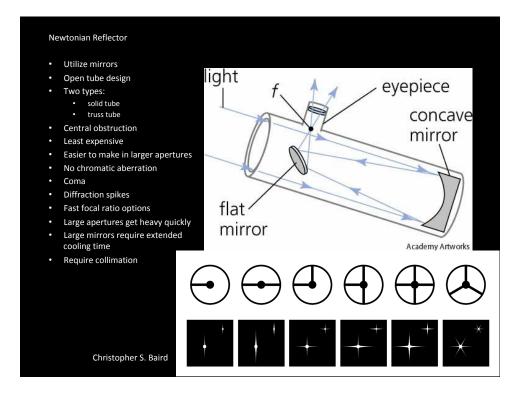
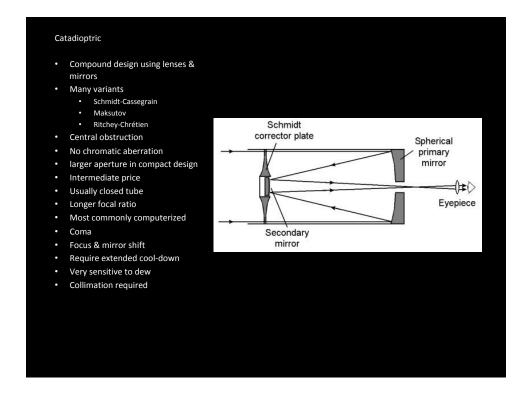
# Choosing a Telescope



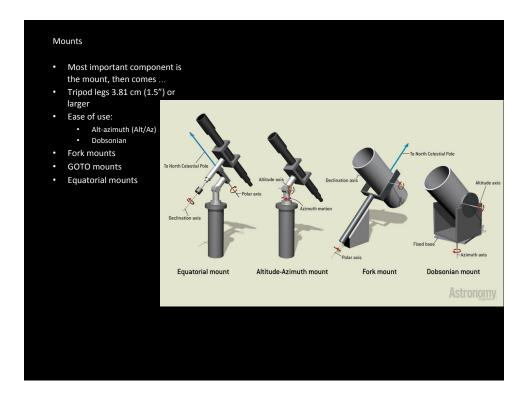


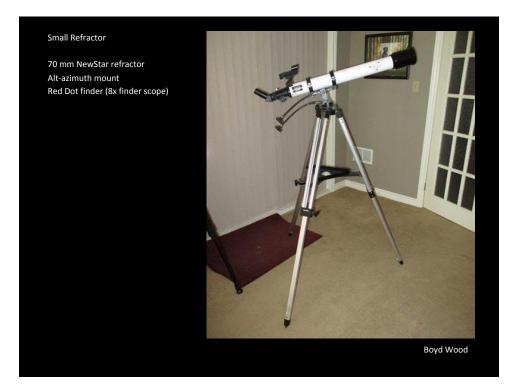


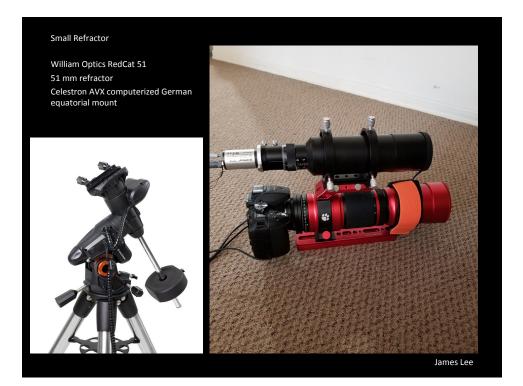




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<ul><li>Use le</li><li>Two b</li></ul>	enses			
	asic types:			
	achromatic			
	apochromatic			
	weight			
<ul> <li>Closed</li> </ul>	tube		Refracting Telescope	
<ul> <li>Intern</li> </ul>	nediate focal ratio		-	
No cer	ntral obstruction	Incoming		
<ul> <li>No co</li> </ul>	llimation required			
Chron	natic aberration	Light		
<ul> <li>Difficult</li> </ul>	ult to make in large apertures			Focal
Most	expensive		Ť	Plane
		Obje	ctive Lens	

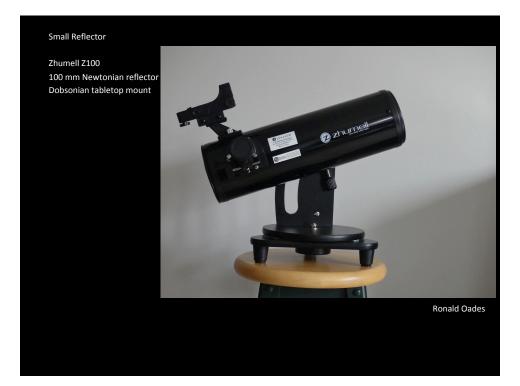


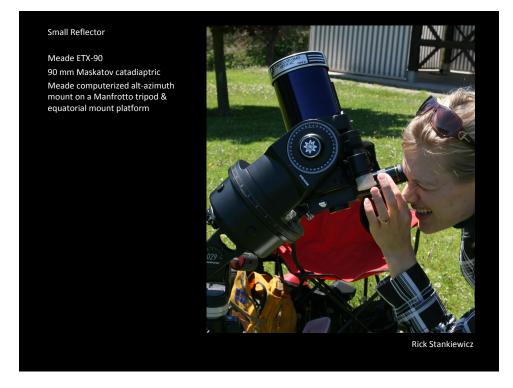


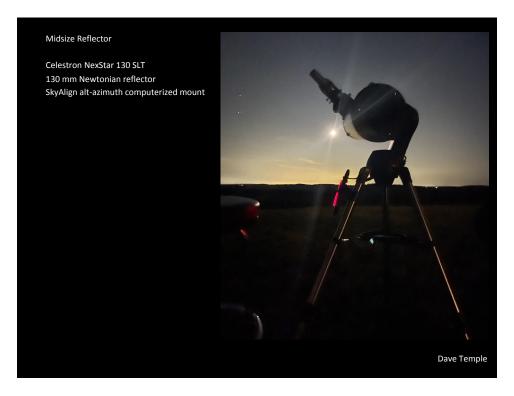














## Things to Consider Two most important factors: budget portability Ease of use and setup Larger apertures are more susceptible to seeing Larger apertures give increased resolution and light grasp Aperture & light grasp • light grasp = aperture<sup>2</sup> (in mm) • 80 mm vs. 130 mm = 2.64 x ٠ Avoid telescopes that use 0.965" eyepieces Eyepieces, diagonal & finder scope • Telrad, Rigel Quickfinder, red dot Avoid astrophotography Collimation . Warranty & customer service/ support manufacturing location? Multiple use •

Dave Temple

# **Buying Tips** Don't ! Research, research, research ... Expectations? Don't buy a telescope from a • department store (online versions too) Beware of magnification claims! Be careful of plastic focusers on low end Dobsonians Consider a 2" focuser Expect to pay \$600.00 + Purchase from a reputable vendor specializing in telescopes KW Telescope Telescopes Canada Ontario Telescope & Accessories Buy used: astrobuysell.com

IC 1396 Elephant Trunk

#### Procedural & Viewing Tips

- Before taking your telescope outside for the first time, read the manual thoroughly
- Beware the Sun!
- Set up in the daytime first
- Familiarize yourself with all the components and know what they do
- Align your finder during daytime
- Focus on a distant terrestrial object during the day to get close
- Allow sufficient cool down timeAlways use low power eyepieces
- first
- Target bright, easily locatable objects: Moon, planets, double stars & bright Messier objects
- Use a barlow sparingly
- Get a good quality Moon or neutral density filter
- Use a dew shield and dew heaters
- Small step ladder & observing chair
- Storing your telescope







# **Reflector Options**

- Sky-Watcher Classic 150P
- 150 mm Newtonian reflector
- 2" focuser
- \$620.00 @ Telescopes Canada



## **Reflector Options**

- Celestron NexStar 130 SLT
- 130 mm Newtonian reflector
- 2" focuser
- Celestron computerized alt-azimuth mount and tripod
- •
- SkyAlign technology Red dot finder, diagonal, two eyepieces (25mm & 9mm), Celestron's Starry Night software .
- \$864.00 @ Telescopes Canada



# Catadioptric Option

- Celestron NexStar 127 SLT\*
- 127 mm Maksutov catadioptric
- Computerized alt-azimuth mount and tripod
- Red dot finder, diagonal, two eyepieces (25mm & 9mm), Celestron's Starry Night software
- \$945.00 @ Telescopes Canada



