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#### **Choosing Binoculars**

### Optical coatings

- Anti-reflection optical coatings
   Magnesium Fluoride (MgF)
   Purple, green or amber colour
   Avoid ruby coloured coatings
- Fully multicoated VS multicoated

### Glass Types

- Borosilicate Crown Glass (Bk7)
   Barium Light Crown Glass (Bak4)

   More expensive

#### Focusing

- Centre focus most common
- Diopter adjustment

#### Weight

• 7 x 50 or 10 x 50 largest easily handheld

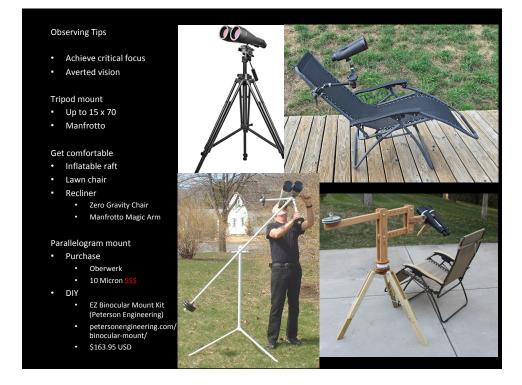
#### Tripod adapter

Mounting option



## **Choosing Binoculars** Cost Wide range • Quality binoculars ~ \$250 Compare prices Workmanship Try before you buy Overall fit & finish Inspect optics & coatings Inspect eyepieces Check exit pupil Manufacturers • Vixen Orion Celestron Pentax Oberwerk Nikon Fujinon Canon Swarovski \$\$ • Zeiss \$





#### Care & Maintenance

#### Respect your investment

- Always install lens caps
- Always use the strap
- Always carry binoculars in the case
- Never leave in direct sunlight
- Dew shield/straps
- Only remove lens caps to observe

#### Cleaning

- Less is better
- If you must clean:
- 1. Blub blower
- 2. Canned air \*Cau
- 3. Camel hair brush
- 4. 99% isopropyl alcohol

### 5. 100% cotton pads/cotton balls

#### Stubborn Stain Cleaning Solution

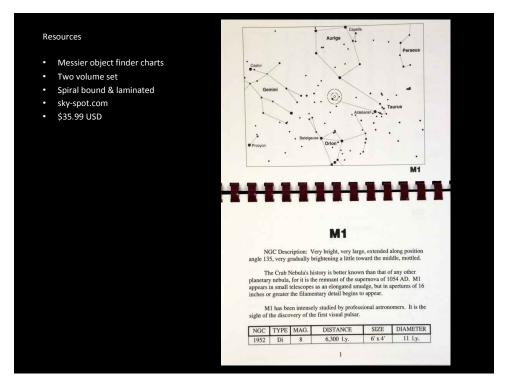
- 1 part 99% isopropyl alcohol
- 2 parts distilled water
- 1 drop Dawn dishwashing liquid/ 473 mL (1 pint)

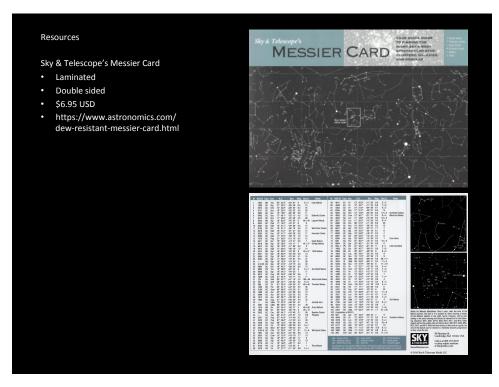
LensPen





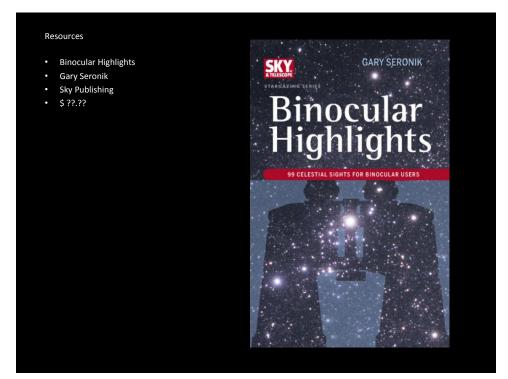
#### Binocular Observing Programs Explore the Universe PAA Binocular Observing Program Explore the Universe-an introductory observing program Royal Astronomical Society of isual Observing Programs In 2020 we ran this observing program online! Click here to find out more. Explore the Universe EtU Local Certification Explore the Meon Messler Catalogue Finest NGC Objects Isabel Willamson Lun Observing Program Deep-Sky Cense Deep-Sky Callenge Double Stars Canada Explore the Universe (awarded since 2002) is almed at the novice visual a Those who complete the program may apply for a certificate and pin—th to all, RASC members and non-members allke. This program will: Explore the Universe to all, RASC members and non-members alike. This program will: Simulation interest in observational astronomy: Introduce good observing practices and techniques. Provide an introduction to all aspects of visual astronomy including stars and constellations, Juna; Solar System, deep sky, oubule stars, and some optional activities, including variable stars. Encode the observing programs in RASC Centres. Explore the Moon Astronomical League Programs One of the special features of this program is that it can be completed entirely using bir eye. Sky Puppy (young observer) Lunar ETU Guide If you choose to use a telescope note that automatic (GoTo) functions are not to be used. A choice of objects is provided so that you can start the program at any time of the year and easily complete requirements in three to six months time. Handy recording and application forms are available from a link at bottom of this page. Solar System Binocular Double Star Want to get started? Download the Explore the Universe program requirem Advanced Binocular Double Star prograr • Binocular Master Award Téléchargez le programme Explorez l'Univers en français et débutez vos observations dés aujourd'hu. If you are looking for a guide to getting started, consider purchasing the Explore the Universe Guide (2nd Edition) in the RASC store. Binocular Messier Binocular Variable Star Here is a summary of the Explore the Universe program requirements: Deep Sky Binocular Observing Objective The ETU Guide is availa llations and Bright Stars 12 24 Visit our eStore The Moon 16 32 EU Recipients Solar System 5 10 Deep Sky Object 12 24 Start Year (2006...) 200 Double Stars 10 20 And Total





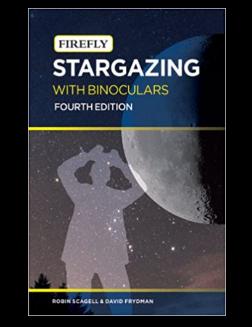
# Resources TURN EFT AT Turn Left At Orion Guy Consolmagno & Dan M. Davis Hard cover or spiral bound Cambridge University Press • \$35.55 HUNDREDS OF NIGHT SKY OBJECTS TO SEE IN A HOME TELESCOPE – AND HOW TO FIND THEM Guy Consolmagno and Dan M. Davis

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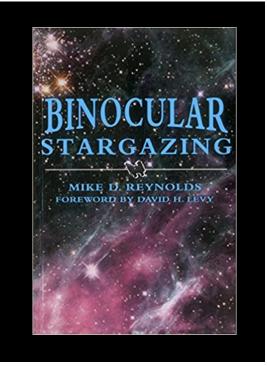
#### Resources

- Stargazing With Binoculars
- Robin Scagell & David Frydman
- Firefly Books Publishing
- Paperback
- \$19.95



#### Resources

- Binocular Stargazing
- Mike D. Reynolds
- Stockpole Books Publishing
- Paperback
- \$18.95



#### Resources

- Touring the Universe Through Binoculars
- Philip S. Harrington
- Wiley Publishing
- Hardcover or paperback
- \$58.60/\$45.73

# Touring the Universe through Binoculars

A Complete Astronomer's Guidebook

