

# Orion Awesome Autoguiders

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[Sky & Telescope's Pocket Sky Atlas](#) - Roger W. Sinnott 2019-09-30

Perfect for experienced observers and beginners alike, this second edition of Sky & Telescope's Pocket Sky Atlas will quickly have you exploring the heavens with depth and mastery.

[The 100 Best Astrophotography Targets](#) - Ruben Kier 2009-08-15

Any amateur astronomer who is interested in astrophotography, particularly if just getting started, needs to know what objects are best for imaging in each month of the year. These are not necessarily the same objects that are the most spectacular or intriguing visually. The camera reveals different things and has different requirements. What objects in the sky tonight are large enough, bright enough, and high enough to be photographed? This book reveals, for each month of the year, the choicest celestial treasures within the reach of a commercial CCD camera. Helpful hints and advice on framing, exposures, and filters are included. Each deep sky object is explained in beautiful detail, so that observers will gain a richer understanding of these astronomical objects. This is not a book that dwells on the technology of CCD, Webcam, wet, or other types of astrophotography. Neither is it a book about in-depth computer processing of the images (although this topic is included). Detailed discussions of these topics can be found in other publications. This book focuses on what northern latitude objects to image at any given time of the year to get the most spectacular results.

**Build Your Own Telescope** - Richard Berry 2001-03

Description: This 24-photo calendar (a major and minor shot each month) features a wide range of objects and phenomena in the sky including stars, planets, and nebulae as well as historic lunar exploration photos. In addition to photos and commentary, the calendar provides monthly star charts to help observers note the night-sky changes throughout the year. Images are courtesy of Gemini Observatory, Chandra X-Ray Observatory, NASA/University of Massachusetts, D. Wang, NASA/NEAR (Near-Earth Asteroid Rendezvous mission), European Space Agency/Infrared Space Observatory Mission, CAM, ISOGAL Team, NASA/ESA, Cassini Mission, NASA, NASA/Space Telescope Science Institute, NASA/Malin Space Science Systems, and European Southern Observatory. Photos were also taken by the author and other talented stargazers.

Notes: This calendar is created by Richard Berry, former editor-in-chief of Astronomy and Telescope Making magazines. Richard holds undergraduate and graduate degrees in astronomy, and now works full-time writing books about the stars. Pictured are: JAN Galaxy M74, Galactic Center in X-Rays FEB Apollo 9 Spacewalk, Asteroid Eros MAR Peering into the Pillars of Creation, Warm Dust in the Eagle Nebula APR Io over the Jovian Clouds, Jupiter Crescent with Io MAY Hubble over the Earth, Hubble Repairs JUN The Mice, The Tadpole JUL Apollo 16 at Descartes, Collecting Lunar Rock Samples AUG Starbirth in Sharpless 106, NGC 1999 SEP M63 Galaxy, Omega Nebula OCT Viking Lander 2, Mars in True Color NOV The Blue Cave, Nebula in Corona Australis DEC The Cone Nebula, Herbig-Haro Object #34

**Choosing and Using Astronomical Eyepieces** - William Paolini 2013-08-23

A valuable reference that fills a number of niches including that of a buyer's guide, technical desk reference and observer's field guide. It documents the past market and its evolution, right up to the present day. In addition to appealing to practical astronomers - and potentially saving them money - it is useful both as a historical reference and as a detailed review of the current market place for this bustling astronomical consumer product. What distinguishes this book from other publications on astronomy is the involvement of observers from all aspects of the astronomical community, and also the major manufacturers of equipment. It not only catalogs the technical aspects of the many modern eyepieces but also documents amateur

observer reactions and impressions over the years, using many different eyepieces. Eyepieces are the most talked-about accessories and collectible items available to the amateur astronomer. No other item of equipment commands such vigorous debate, or has evolved into such a remarkable array of forms and functions. 'Choosing and Using Astronomical Eyepieces' provides a vast amount of reference material to point readers towards the best buys and the right eyepieces for different kinds of observing.

**NightWatch** - Terence Dickinson 2006

Serves as a useful reference guide to stargazers around the world.

**Quantum Physics in Minutes** - Gemma Lavender 2017-06-06

Quantum physics is the most fundamental -- but also the most baffling -- branch of science. Allowing for dead-and-alive cats, teleportation, antimatter, and parallel universes, as well as underpinning all of our digital technology, it's as important as it is mind-bending. This clear and compact book demystifies the strange and beautiful quantum world, and hence the nature of reality itself. Contents include: Schrodinger's cat, inside the atom, the particle zoo, the Higgs boson, Heisenberg's uncertainty principle, God playing dice, relativity, the Big Bang, dark energy and matter, black holes, the fate of the Universe, the Theory of Everything, quantum gravity, string theory, the multiverse, instant communication, quantum computing and cryptography, superconductivity, quantum biology, quantum consciousness, and much more. Written as a series of mini essays with 200 simple diagrams to help understanding, there can be no easier guide to this notoriously confusing subject. At last it's possible for non-specialists to understand quantum theory and its central role in the birth of the universe and the very existence of life.

[National Geographic Backyard Guide to the Night Sky, 2nd Edition](#) - Andrew Fazekas 2019-03-19

Explore the star-studded cosmos with this fully updated, user-friendly skywatcher's guide, filled with charts, graphics, photographs, and expert tips for viewing -- and understanding -- the wonders of space. Stargazing's too much fun to leave to astronomers. In these inviting pages, "Night Sky Guy" Andrew Fazekas takes an expert but easygoing approach that will delight would-be astronomers of all levels. Essential information, organized logically, brings the solar system, stars, and planets to life in your own backyard. Start with the easiest constellations and then "star-hop" across the night sky to find others nearby. Learn about the dark side of the moon, how to pick Mars out of a planetary lineup, and which kinds of stars twinkle in your favorite constellations. Hands-on tips and techniques for observing with the naked eye, binoculars, or a telescope help make the most out of sightings and astronomical phenomena such as eclipses and meteor showers. Photographs and graphics present key facts in an easy-to-understand format, explaining heavenly phenomena such as black holes, solar flares, and supernovas. Revised to make skywatching even easier for the whole family, this indispensable guide shines light on the night sky--truly one of the greatest shows on Earth!

[Instrumentation and Research Programmes for Small Telescopes](#) - J.B. Hearnshaw 2012-12-06

This volume is the proceedings of IAU Symposium No. 118 on "Instrumentation. and Research Programmes for Small Telescopes", where small telescopes were defined as those ground-based instruments with apertures less than 1.5m. The scientific goal of the symposium was to emphasise research programmes which were more suited to smaller telescopes, on which frequent regular observations can be made. A wide variety of topics on instrumentation, photometry, spectroscopy and polarimetry of objects in the solar system to extragalactic systems were discussed. Each of the four scientific days of the symposium comprised a number of invited review papers, contributed oral papers and discussion sessions devoted

purely to the large number (~4) of poster papers. An introductory paper on the research potential of small telescopes sets the scene for the symposium. The proceedings have then been divided into three sections. Section I: Telescopes and instrumentation; Section II: Photometric research programmes; Section III: Spectroscopic research programmes. The diversity of topics within each of these sections indicated the extent to which small telescopes have (and can) contribute greatly to astronomical research. Dr J.A. Graham's summary of the symposium, which illustrates the opportunities available with small telescopes, concludes these proceedings. As in all symposia, the importance of the discussion following each paper was realised. The discussion was recorded on tape (and wherever possible on questions and answer sheets), transcribed and then edited.

**Making a Refractor Telescope** - Norman Remer 2006

**Astronomy** - Mark Antony Garlick 2004

An illustrated reference for amateur astronomers provides a survey of science's growing understanding of space, including some of the most recent photographs from observatories and sky maps and covering phenomenon such as distant stars, eclipses, and black holes.

**The Backyard Astronomer's Field Guide** - David Dickinson 2020-07-21

Discover Beautiful Nebulas, Constellations, Deep Sky Objects and More with Your Telescope David Dickinson, co-author of The Universe Today Ultimate Guide to Viewing the Cosmos, has created the ultimate field guide for backyard astronomers. Whether you want to impress viewers at a star party, or learn what you can see with your new telescope, David shows you how to find the most impressive views the night sky has to offer. Broken down by month and by hemisphere to ensure you get the best possible view, David shows you how to find objects like spiral galaxies, stunning sights in the Milky Way and stars that bring the "wow factor" to astronomy. With 44 sky charts and David's expertise, it's like having a pro-astronomer out in the field with you.

**Practical Astrophotography** - Jeffrey R. Charles 2012-12-06

For all but the simplest star-trail pictures, photographing the night sky involves machinery to track the stars, and the task becomes even more complicated when photographing very small or very faint objects that require high magnification or very long exposure times. Astrophotography for Amateurs presents equipment and techniques, features practical hints and tips from the experts, including coverage of traditional "wet" photography, CCD imaging, and computerized image enhancement. There are sections on photographing different classes of astronomical object from the moon to faint nebulae, as well as a detailed look at the equipment needed.

**Building and Using Binoscopes** - Norman Butler 2014-10-25

Provides easy to understand information and guidelines about the design and construction of binoscopes. Focusing on both homemade and commercial products, this book provides the reader with simple and straightforward information about the modelling and building of binoscopes. Binoscopes can be thought of as binoculars enlarged to the size of telescopes: essentially, a combination of the two. Constructing a binoscope is easier than most people think, but it still demands attention to detail and proper background knowledge. The author goes on to provide additional information about how to understand the products currently on the market, should the reader choose to purchase a binoscope instead of building one. Lastly, the book also compares binoscopes with telescopes in great detail, outlining the differences the reader can expect to see in the night sky from using both. The celestial views obtained with a binoscope, compared to a single telescope of the same aperture, are a very different experience and well worth the effort.

**The Cambridge Photographic Moon Atlas** - Alan Chu 2012-09-28

Featuring 388 high-resolution photographs and concise descriptions of the Moon's topography, this atlas is an indispensable guide for amateur astronomers and astrophotographers.

**Orion** - Richard J. Bartlett 2016-08-02

The Orion Telescope Observer's Guide highlights over sixty interesting objects for budding amateur astronomers to find and observe in a small telescope. We'll help you explore objects such as star clusters, multiple stars, nebulae, and even the Andromeda Galaxy! Helpful maps of each target object are included, as are examples of what the object will look like in a typical finderscope, and depictions of the view you'll

see in a telescope eyepiece. The author also includes a realistic description of every object based upon his own notes written over years of observations. Written with the beginner in mind, the Orion Telescope Observer's Guide also includes vital tips and tricks to help you get the most out of the rewarding hobby of amateur astronomy. If you're new to stargazing with a small telescope, this book is your introduction to the stars!

**Astronomy Encyclopedia** - Patrick Moore 2002

Presents an illustrated guide to the universe that contains more than three thousand alphabetically arranged entries and five hundred photographs, star maps, and diagrams.

**The Astrophotographer's Guidebook** - Galactic Galactic Hunter 2017-12-07

Discover 60 Deep Sky Objects that will considerably improve your Imaging and Processing skills! Whether you are a beginner, intermediate, or advanced astrophotographer, this detailed book of the best deep sky objects will serve as a personal guide for years to come! Discover which star clusters, nebulae, and galaxies are the easiest and most impressive to photograph for each season. Learn how to find each object in the night sky, and read our recommendations on imaging them in a quick and comprehensive way. Each target listed in this guide contains our advice on imaging, photos of expected results, and a useful information table. We've also included a few cool facts about each target, a map to find it in the night sky, and more!

**Binocular Highlights** - Gary Seronik 2007-02-23

Binocular Highlights is a tour of 96 different celestial sights ? from softly glowing clouds of gas and dust to unusual stars, clumps of stars, and vast star cities (galaxies) ? all visible in binoculars. Each object is plotted on a detailed, easy-to-use star map, and most of these sights can be found even in a light-polluted sky. Also included are four seasonal all-sky charts that help locate each highlight. You don't need fancy or expensive equipment to enjoy the wonders of the night sky. In fact, as even experienced star gazers know, to go beyond the naked-eye sky and delve deep into the universe, all you need are binoculars ? even the ones hanging unused in your closet. If you don't own any, Binocular Highlights explains what to look for when choosing binoculars for star gazing and provides observing tips for users of these portable and versatile mini-telescopes. Spiral-bound with readable paper spine, full color throughout.

**Binocular Stargazing** - Mike D. Reynolds 2005-10-25

A guide to viewing stars, the moon, planets, meteors, comets, and aurora through binoculars. Features a foreword by renowned astronomer and writer David Levy. Includes a complete guide to current binocular brands and models and explains what to look for in each season.

**The Year-round Messier Marathon Field Guide** - Harvard C. Pennington 1997

*Seeing Red* - Halton C. Arp 1998

**The Amateur Astronomer** - Patrick Moore 2006-07-31

This 2000 Edition of Sir Patrick Moore's classic book has been completely revised in the light of changes in technology. Not only do these changes include commercially available astronomical telescopes and software, but also what we know and understand about the universe. There are many new photographs and illustrations. Packs a great deal of valuable information into appendices which make up almost half the book. These are hugely comprehensive and provide hints and tips, as well as data (year 2000 onwards) for pretty well every aspect of amateur astronomy. This is probably the only book in which all this information is collected in one place.

**The Crab Nebula** - R.D. Davies 2012-12-06

The Symposium on the Crab Nebula was held in the University of Manchester from 5 to 7 August, 1970. The meetings on the first day were held in the Physics Department on the University campus, and on the second and third days at the Nuffield Radio Astronomy Laboratories, Jodrell Bank. The 4th Symposium of the International Astronomical Union, convened in the University and at Jodrell Bank fifteen years earlier (25-27 August, 1955), dealt with the entire subject of radio and radar astronomy. Now the subject matter of this 46th Symposium of the International Astronomical Union was confined to one single object. It is interesting to recall that even at the 1955 symposium the Crab Nebula figured prominently. In particular, J. H. Oort described the new measurements of the polarization of the light from the nebula and I. S.

Shklovsky explained the light and radio emission in terms of the motion of relativistic electrons in the magnetic field of the nebula. No one could have foreseen the exciting discoveries of a decade later which stimulated the assembly of 172 participants to this 1970 Symposium. In addition to the lectures and discussions the visitors were able to tour the laboratories and telescopes at Jodrell Bank to see the various researches in progress. The demonstrations included a real-time display on a cathode ray tube of the pulses from pulsar CP 0328 received in the 250 ft steerable telescope.

*The Constellations Handbook* - Galactic Galactic Hunter 2018-09-12

Learning the constellations is difficult. Remembering them is even harder. Have you ever wanted to look up to the night sky, name any pattern of stars and be able to tell their stories? This book groups the constellations in a logical order, so that the reader can easily learn them by their origin, and see how their stories interact with one another as a group. The last pages of this book include an index of all 88 constellations, each with a slot where you can write your own personal tips and tricks in order to memorize them with ease. The Constellations Handbook is not just another guide listing all the constellations from A to Z and their location, it is the perfect companion for stargazing, and a learning journey through the ages.

*The New Amateur Astronomer* - Martin Mobberley 2012-12-06

Amateur astronomy has changed beyond recognition in less than two decades. The reason is, of course, technology. Affordable high-quality telescopes, computer-controlled 'go to' mountings, autoguiders, CCD cameras, video, and (as always) computers and the Internet, are just a few of the advances that have revolutionized astronomy for the twenty-first century. Martin Mobberley first looks at the basics before going into an in-depth study of what's available commercially. He then moves on to the revolutionary possibilities that are open to amateurs, from imaging, through spectroscopy and photometry, to patrolling for near-earth objects - the search for comets and asteroids that may come close to, or even hit, the earth. The New Amateur Astronomer is a road map of the new astronomy, equally suitable for newcomers who want an introduction, or old hands who need to keep abreast of innovations. From the reviews: "This is one of several dozen books in Patrick Moore's "Practical Astronomy" series. Amid this large family, Mobberley finds his niche: the beginning high-tech amateur. The book's first half discusses equipment: computer-driven telescopes, CCD cameras, imaging processing software, etc. This market is changing every bit as rapidly as the computer world, so these details will be current for only a year or two. The rest of the book offers an overview of scientific projects that serious amateurs are carrying out these days. Throughout, basic formulas and technical terms are provided as needed, without formal derivations. An appendix with useful references and Web sites is also included. Readers will need more than this book if they are considering a plunge into high-tech amateur astronomy, but it certainly will whet their appetites. Mobberley's most valuable advice will save the book's owner many times its cover price: buy a quality telescope from a reputable dealer and install it in a simple shelter so it can be used with as little set-up time as possible. A poor purchase choice and the hassle of setting up are why most fancy telescopes gather dust in their owners' dens. Summing Up: Highly recommended. General readers; lower- and upper-division undergraduates." (T. D. Oswalt, CHOICE, March 2005)

*Lunar and Planetary Webcam User's Guide* - Martin Mobberley 2006-08-03

This book de-mystifies the jargon of webcams and computer processing, and provides detailed hints and tips for imaging the Sun, Moon and planets with a webcam. It demonstrates how inexpensive tools are revolutionizing imaging in amateur astronomy. Anyone with a modest telescope and a webcam can now obtain jaw-dropping lunar and planetary images to rival those taken with mid-range astronomical CCD cameras costing thousands of dollars. A glance through the images in this book shows just what spectacular results can be achieved by using a webcam with your telescope! Your scientific results will be sought by professional astronomers.

*Making Beautiful Deep-Sky Images* - Greg Parker 2007-09-20

This book is based around the author's beautiful and sometimes awe-inspiring color images and mosaics of deep-sky objects. The book describes how similar "Hubble class" images can be created by amateur astronomers in their back garden using commercially available telescopes and CCD cameras. Subsequent processing and image enhancement in the "electronic darkroom" is covered in detail as well. A range of telescopes and equipment is considered, from the author's 11-inch with Hyperstar camera, down to more

affordable instruments. Appendices provide links to free software - not available from a single source - and are themselves an invaluable resource.

*The Deep-sky Imaging Primer* - Charles Bracken 2017-10-28

The book that taught thousands of people about astrophotography has been completely revised and updated in this second edition. It covers everything you need to know to capture stunning images of deep-sky objects with a DSLR or CCD camera: The fundamental concepts of imaging and their impact on the final image How to pick a telescope and camera How to get set up and take the images Where and when to find the best objects in the night sky How to process images using Adobe Photoshop(R) and PixInsight(R) Start-to-finish examples of image processing Full-color with over 300 illustrations.

*The Red Stars* - James Birmingham 1890

*Inside PixInsight* - Warren A. Keller 2018-10-26

PixInsight has taken the astro-imaging world by storm. As the first comprehensive postprocessing platform to be created by astro-imagers for astro-imagers, it has for many replaced other generic graphics editors as the software of choice. PixInsight has been embraced by professionals such as the James Webb (and Hubble) Space Telescope's science imager Joseph DePasquale and Calar Alto's Vicent Peris, as well as thousands of amateurs around the world. While PixInsight is extremely powerful, very little has been printed on the subject. The first edition of this book broke that mold, offering a comprehensive look into the software's capabilities. This second edition expands on the several new processes added to the PixInsight platform since that time, detailing and demonstrating each one with a now-expanded workflow. Addressing topics such as PhotometricColorCalibration, Large-Scale Pixel Rejection, LocalNormalization and a host of other functions, this text remains the authoritative guide to PixInsight.

**50 Things to See with a Small Telescope (Southern Hemisphere Edition)** - John A Read 2017-05-28

This special edition has been designed specifically for aspiring astronomers living south of the equator. This book explores the planets, stars, galaxies and nebulae observable from the southern hemisphere. Not only does this book illustrate how to observe, it also shows how each object appears through a small telescope!

**A Guide to Hubble Space Telescope Objects** - James L. Chen 2015-07-16

From the authors of "How to Find the Apollo Landing Sites," this is a guide to connecting the view above with the history of recent scientific discoveries from the Hubble Space Telescope. Each selected HST photo is shown with a sky map and a photograph or drawing to illustrate where to find it and how it should appear from a backyard telescope. Here is the casual observer's chance to locate the deep space objects visually, and appreciate the historic Hubble photos in comparison to what is visible from a backyard telescope. HST objects of all types are addressed, from Messier objects, Caldwell objects, and NGC objects, and are arranged in terms of what can be seen during the seasons. Additionally, the reader is given an historical perspective on the work of Edwin Hubble, while locating and viewing the deep space objects that changed astronomy forever. Countless people have seen the amazing photographs taken by the Hubble Space Telescope. But how many people can actually point out where in the sky those objects are? Why were these objects chosen to be studied? What discoveries were made from the Hubble Space Telescope photographs? This book is for anyone who wants answers to these questions.

*NightWatch* - Terence Dickinson 2006

A reference guide for stargazers offers star charts and information on equipment, planets, and stellar photography.

**The Astrophotographer's Journal** - Galactic Galactic Hunter 2018-08-11

The Astrophotographer's Journal is a portable notebook created for the purpose of recording observations, cataloguing photographs, and writing down the wonderful memories created by this hobby. This book contains more than 200 pages to memorialize your stargazing and imaging sessions, as well as a useful chart on the last pages to index exciting or important notes. Read back on the logs to see how much progress you have made through the months, the problems you overcame, and the notes taken to improve in the future. Just as the pioneers of astronomy did in their time, look up and take notes of your observations as you are the author of this star-filled journey. This is the ORION journal, if you are looking for the ANDROMEDA or PLEIADES cover, please see full shop.

### **Choosing and Using a Refracting Telescope** - Neil English 2010-09-28

Choosing and Using a Refracting Telescope has been written for the many amateur astronomers who already own, or are intending to purchase, a refracting telescope – perhaps to complement their existing arsenal of larger reflecting telescopes – or for the specialist who requires a particular refractor for serious astronomical applications or nature studies. Four hundred year ago, during the winter of 1609, a relatively unknown Italian scientist, Galileo Galilei designed a spyglass with two crude lenses and turned it skyward. Since then, refractors have retained their dominance over all types of reflector in studies of the Moon, planets and double stars because of the precision of their optics and lack of a central obstruction in the optical path, which causes diffraction effects in all commercially-made reflectors. Most mature amateur astronomers got started with a 60mm refractor, or something similar. Thirty years ago, there was little choice available to the hobbyist, but in the last decade long focus crown-flint achromats have moved aside for some exquisitely crafted apochromatic designs offered by leading commercial manufacturers. There has been a huge increase in the popularity of these telescopes in the last few years, led by a significant increase in the number of companies (particularly, William Optics, Orion USA, StellarVue, SkyWatcher and AstroTech) who are now heavily marketing refractors in the amateur astronomical magazines. In Choosing and Using a Refracting Telescope, well-known observer and astronomy writer Neil English celebrates the remarkable history and evolution of the refracting telescope and looks in detail at the instruments, their development and their use. A major feature of this book is the way it compares not only different classes of refractor, but also telescopes of each class that are sold by various commercial manufacturers. The author is perhaps uniquely placed to do this, having used and tested literally hundreds of different refracting telescopes over three decades. Because it includes many diverse subjects such as imaging with consumer-level digital cameras, imaging with webcams, and imaging with astronomical CCD cameras – that are not covered together in equal depth in any other single volume – Choosing and Using a Refracting Telescope could become the ‘refractor bible’ for amateur astronomers at all levels, especially those who are interested in imaging astronomical objects of every class.

### Choosing and Using a New CAT - Rod Mollise 2009-02-28

Choosing and Using the New CAT will supersede the author’s successful Choosing and Using a Schmidt-

Cassegrain Telescope, which has enjoyed enthusiastic support from the amateur astronomy community for the past seven years. Since the first book was published, a lot has changed in the technology of amateur astronomy. The sophistication and variety of the telescopes available to amateurs has increased dramatically. Computerized SCTs, Maksutov-Cassegrains, and most recently Meade’s new and acclaimed Ritchey-Chrétiens have come to dominate the market. That means that all amateurs considering the purchase of a new telescope (not only a SCT, and not just beginners) will benefit from this detailed guide. Choosing the right telescope for particular kinds of observation (or even for general work) is far from easy – but Rod Mollise gives invaluable advice and guidance.

### **Great Comets** - Robert Burnham 2000-05-04

A beautifully illustrated guide to Great Comets and the secrets that they hold.

### How and Why to Make a User-Friendly Sidewalk Telescope - John L Dobson 1993-10-01

### Starseeker - Tim Bowler 2019

A local gang persuades virtuoso pianist Luke, who is troubled by his father's death two years before, to burgle the house of a rich widow--an act that draws him into a life-changing mystery.

### Frontiers of Astronomy - Fred Hoyle 2017-08-24

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