

# Celestron Nexstar Instruction Manual

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The New Amateur Astronomer Martin Mobberley 2004-09-09  
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

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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

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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)

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

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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.

*50 Things to See with a Telescope - Kids* John A Read 2017-07-20 From the author of the bestselling book *50 Things to See with a Small Telescope*, this colorful edition explores the constellations with young readers, guiding them to dozens of galaxies, nebulae, and star clusters. Every page features a helpful "telescope view," showing exactly how objects appear through a small telescope or

binoculars. While a member of the Mount Diablo Astronomical Society in California, John Read taught thousands of students how to use telescopes and explore the night sky. Now, he's sharing this knowledge with you! Even without a telescope, this introduction to the night sky is essential for every child's collection.

**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

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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.

**Photographer's Guide to the Nikon Coolpix P900**  
Alexander S. White  
2015-06-22 This book, by Alexander S. White, is a complete, clearly written guide to the

operation of the Nikon Coolpix P900 digital camera. The book explains all shooting modes, menus, functions, and controls of this superzoom camera, accompanied by more than 350 full-color illustrations and sample photographs. The guide shows beginning and intermediate photographers how to use the camera's many options to get the results they want. The book explains topics such as autofocus, manual focus, HDR (High Dynamic Range) photography, ISO, memory cards, and flash modes. It includes a discussion of techniques for using the P900's phenomenal zoom lens, with a maximum optical focal length of 2000mm, to full advantage. The book also discusses the camera's features for image transfer and remote control through

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the P900's built-in Wi-Fi network, as well as its features for adding location data to images. The book includes sample images taken with the creative settings of the camera, including the Picture Control options, which alter the color processing of images; the Scene and Special Effects shooting modes, with settings optimized for subjects such as landscapes, birds, pets, sunsets, and action shots; and the camera's features for burst shooting and time-lapse photography. In addition, the book provides introductions to topics such as infrared photography, street photography, and macro photography. The book also explains the video features of the P900, which can shoot HD video with stereo sound and can record high-speed video at rates up to 4 times normal speed.

In addition, the book describes procedures for playing back images and videos in the camera and for using the Filter Effects option to add special effects to images after they have been captured. In three appendices, the book discusses accessories for the Coolpix P900, including cases, external flash units, and charging and power options. The appendices include a list of useful web sites and other resources, as well as a section with "quick tips" to help users take advantage of the camera's features in the most efficient ways possible.

*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

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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

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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.

### **Touring the Universe through Binoculars**

Philip S. Harrington

1990-10-18 This

comprehensive work takes you on a personal tour of the universe using nothing more than a pair of binoculars. More comprehensive than any book currently available, it starts with Earth's nearest neighbor, the moon, and then goes on to explore each planet in the solar system, asteroids, meteors, comets and the sun. Following this, the reader is whisked away into deep space to explore celestial bodies including stars that are known and many sights less familiar. The final chapter includes a detailed atlas of deep-sky objects visible through binoculars. The

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appendices include guidance on how to buy, care for and maintain astronomical binoculars, tips and hints on using them, and detailed information on several home-made binocular mounts.

*Care of Astronomical Telescopes and*

*Accessories* M. Barlow  
Pepin 2006-03-30

Commercially-made astronomical telescopes are better and less expensive than ever before, and their optical and mechanical performance can be superb. When a good-quality telescope fails to perform as well as it might, the reason is quite probably that it needs a little care and attention! Here is a complete guide for anyone who wants to understand more than just the basics of astronomical telescopes and accessories, and how to maintain them in the

peak of condition. The latest on safely adjusting, cleaning, and maintaining your equipment is combined with thoroughly updated methods from the old masters. Here, too, are details of choosing new and used optics and accessories, along with enhancements you can make to extend their versatility and useful lifetime. This book is for you. Really. Looking after an astronomical telescope isn't only for the experts - although there are some things that only an expert should attempt - and every serious amateur astronomer will find invaluable information here, gleaned from Barlow Pepin's many years' experience working with optical instruments.

Stargazing For Dummies

Steve Owens 2013-03-18

Reach for the stars

Stargazing is the

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practice of observing the night sky and its contents - from constellations through to planets and galaxies. Stars and other night sky objects can be seen with the naked eye, or seen in greater numbers and in more detail with binoculars or a telescope. Stargazing For Dummies offers you the chance to explore the night sky, providing a detailed guide to the main constellations and also offering advice on viewing other night sky objects such as planets and nebulae. It's a great introduction to a fun new hobby, and even provides a fun way to get the kids outside while doing something educational! Gives you an introduction to looking at the sky with binoculars or a telescope Offers advice on photographing the night sky Without needing to get your head

around mind-bending theories, you can take part in some practical physics If you're looking for easy-to-follow guidance on getting to know the night sky, Stargazing For Dummies has you covered.

*A Practical Guide to Lightcurve Photometry and Analysis* Brian D. Warner 2016-06-20 Tools for amateur astronomers who wish to go beyond CCD imaging and step into 'serious' science. The text offers techniques for gathering, analyzing, and publishing data, and describes joint projects in which amateurs and students can take part. Readers learn to recognize and avoid common errors in gathering photometry data, with detailed examples for analysis. Includes reviews of available software, with screen shots and useful

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tips.

*High School Manual ...*

North Dakota. Dept. of  
Public Instruction 1915

*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.

**Astronomy Now 2008**

**The Handbook of  
Astronomical Image**

**Processing** Richard Berry  
2005-01-01

A User's Guide to the  
Meade LXD55 and LXD75

Telescopes Martin Peston

2010-04-28 This book  
offers a comprehensive  
introductory guide to  
"choosing and using" a  
series LXD55 or LXD75  
computer-controlled  
("goto") telescope,  
containing a wealth of  
useful information for  
both beginners and more  
advanced practical  
amateur astronomers. The  
manufacturer's manuals  
are not nearly detailed  
enough to be of real  
help to beginners. No  
other book offers  
advanced techniques for  
more experienced LXD  
series users.

Alas, Babylon Pat Frank

2005-07-05 The classic

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apocalyptic novel that stunned the world.

**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!

Robotic Observatories M. F. Bode 1995

**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

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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.

### **The Backyard Astronomer's Guide**

Terence Dickinson  
2021-09-15 The touchstone for contemporary stargazers. This classic, groundbreaking guide has been the go-to field guide for both beginning and experienced amateur astronomers for nearly 30 years. The fourth edition brings Terence Dickinson and Alan Dyer's invaluable manual completely up-to-date.

Setting a new standard for astronomy guides, it will serve as the touchstone for the next generation of stargazers as well as longtime devotees. Technology and astronomical understanding are evolving at a breathtaking clip, and to reflect the latest information about observing techniques and equipment, this massively revised and expanded edition has been completely rebuilt (an additional 48 pages brings the page count to 416). Illustrated throughout with all-new photographs and star charts, this edition boasts a refreshed design and features five brand-new chapters, including three essential essays on binocular, telescope and Moon tours by renowned astronomy writer Ken Hewitt-White. With new content on naked-eye sky

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sights, LED lighting technology, WiFi-enabled telescopes and the latest advances in binoculars, telescopes and other astronomical gear, the fourth edition of *The Backyard Astronomer's Guide* is sure to become an indispensable reference for all levels of stargazers. New techniques for observing the Sun, the Moon and solar and lunar eclipses are an especially timely addition, given the upcoming solar eclipses in 2023 and 2024. Rounding out these impressive offerings are new sections on dark sky reserves, astro-tourism, modern astrophotography and cellphone astrophotography, making this book an enduring must-have guide for anyone looking to improve his or her astronomical viewing experience. *The Backyard Astronomer's Guide* also

features a foreword by Dr. Sara Seager, a Canadian-American astrophysicist and planetary scientist at the Massachusetts Institute of Technology and an internationally recognized expert in the search for exoplanets.

*Astronomy Now* Jay M. Pasachoff 1978

**Star Ware** Philip S. Harrington 2002-10-16

**50 Things to See on the Moon** John A. Read 2019-04-30

Have you always wanted to explore the Moon like Neil Armstrong or the eleven other astronauts who have walked on its surface? You can tour the Moon from your own backyard with a small telescope or binoculars. This book will point you to the Sea of Tranquility (the landing spot for Apollo 11) and many other fascinating features you can spot on the Moon's surface.

Beginning with the New  
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Moon, as each day passes, an additional slice of the Moon becomes visible. With each new slice comes new craters, lunar seas and jagged mountain ranges. This easy-to-use, illustrated reference book enables everyone, young and old, to better appreciate our nearest neighbour in space.

*The ShortTube 80*

*Telescope* Neil T.

English 2019-09-14

Welcome to the first comprehensive guide to one of the world's most popular telescopes: the ShortTube 80 refractor. With its ultra-portability, versatility, and relatively low cost, this telescope continues to delight generations of stargazers. Starting in the field under a dark sky, the author walks the reader through a typical evening of stargazing, where the ShortTube 80 brings many

astronomical treasures into focus. From there, he provides an in-depth account of the optical properties of the ShortTube 80 refractor and the accessories and mounting arrangements that maximize its potential both as a spotting 'scope by day and an astronomical 'scope by night. The main text discusses how the versatile ShortTube 80 can be used to study deep sky objects, the Sun, the Moon, bright planets and even high-resolution projects, where the instrument's features can be optimized for the observation of tight double and multiple stars. It explores how the ShortTube 80 can image targets using camera phones, DSLRs and dedicated astronomical CCD imagers. Packed with practical advice gained from years of firsthand stargazing experience

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this book demonstrates exactly why ShortTube 80 has remained a firm favorite among amateur astronomers for over three decades, and why it is likely to remain popular for many years to come.

**Principles of Measurement Systems** John P. Bentley 1988 Covers techniques and theory in the field, for students in degree courses for instrumentation/control, mechanical manufacturing, engineering, and applied physics. Three sections discuss system performance under static and dynamic conditions, principles of signal conditioning and data presentation, and applications. This third edition incorporates recent developments in computing, solid-state electronics, and optoelectronics. Includes problems and bandwidth diagrams.

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**The NexStar Evolution and SkyPortal User's Guide** James L. Chen

2016-06-06 This book serves as a comprehensive guide for using a Nexstar Evolution mount with WiFi SkyPortal control, walking the reader through the process for aligning and operating the system from a tablet or smartphone. The next generation Go-To mount from Celestron, this is compatible not only with the Nextstar Evolution but also with older mounts. It is the ideal resource for anyone who owns, or is thinking of owning, a Nexstar Evolution telescope, or adapting their existing Celestron mount. Pros and cons of the system are thoroughly covered with a critical depth that addresses any possible question by

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users. Beginning with a brief history of Go-To telescopes and the genesis of this still new technology, the author covers every aspect of the newly expanding capability in observing. This includes the associated Sky Portal smartphone and tablet application, the transition from the original Nexstar GoTo system to the new SkyPortal system, the use of the Sky Portal application with its Sky Safari 4 basic software and Celestron WiFi adaptations, and discussions on the use of SkyPortal application using the Celestron adapter on older Celestron mounts. Comments and recommendations for equipment enable the reader to successfully use and appreciate the new WiFi capability without becoming overwhelmed. Extensively

illustrated using actual screenshots from the program interface, this is the only guide to the Nexstar SkyPortal an observer will need.

**The NexStar Evolution and SkyPortal User's Guide** James L. Chen

2016-05-26 This book

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new WiFi capability without becoming overwhelmed. Extensively illustrated using actual screenshots from the program interface, this is the only guide to the Nextstar SkyPortal an observer will need.

**NightWatch** Terence Dickinson 2006 Serves as a useful reference guide to stargazers around the world.

*Using the Meade ETX* Mike Weasner 2012-12-06 The Meade ETX range of telescopes is one of the most successful ever made. It is low-cost, has sold in its tens of thousands, and is available in almost every country. Here, ETX expert Mike Weasner reveals everything any amateur astronomer ever wanted to know about the telescope. First book dedicated entirely to the ETX. Written by an acknowledged world authority. Describes the "best" 100 objects to

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begin observing. Contains detailed hints and tips aimed at getting the best out of the ETX. Features imaging (photographic and digital) as well as visual observing.

The NexStar User's Guide

II Michael Swanson

2017-10-31 Michael

Swanson's online discussions with literally thousands of NexStar owners made it clear that there was a desperate need for a book such as this – one that provides a complete, detailed guide to buying, using and maintaining NexStar telescopes. Although this book is highly comprehensive, it is suitable for beginners – there is a chapter on "Astronomy Basics" – and experts alike.

Celestron's NexStar telescopes were introduced in 1999, beginning with their first computer

controlled "go to" model, a 5-inch. More models appeared in quick succession, and Celestron's new range made it one of the two dominant manufacturers of affordable "go to" telescopes.

The NexStar User's Guide

Michael Swanson

2012-12-06 Michael

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first computer controlled "go to" model, a 5-inch. More models appeared in quick succession, and Celestron's new range made it one of the two dominant manufacturers of affordable "go to" telescopes.

Astronomy Methods Hale Bradt 2004 Astronomy Methods is an introduction to basic practical tools, methods and phenomena that underlie quantitative astronomy. Taking a technical approach, the author covers a rich diversity of topics across all branches of astronomy, from radio to gamma-ray wavelengths. Clear, systematic presentations of the topics are accompanied by diagrams and problem sets. Written for undergraduates and graduate students, this book contains a wealth of information that is required for the

practice and study of quantitative and analytical astronomy and astrophysics.

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.

**NightWatch** Terence

Dickinson 2006 A

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

Monthly Notes of the Astronomical Society of Southern Africa

Astronomical Society of Southern Africa 2001

Using Commercial Amateur Astronomical

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Spectrographs Jeffrey L. Hopkins 2013-11-19  
Amateur astronomers interested in learning more about astronomical spectroscopy now have the guide they need. It provides detailed information about how to get started inexpensively with low-resolution spectroscopy, and then how to move on to more advanced high-resolution spectroscopy. Uniquely, the instructions concentrate very much on the practical aspects of using commercially-available spectroscopes, rather than simply explaining how spectroscopes work. The book includes a clear explanation of the laboratory theory behind astronomical spectrographs, and goes on to extensively cover the practical application of astronomical spectroscopy in detail.

Four popular and reasonably-priced commercially available diffraction grating spectrographs are used as examples. The first is a low-resolution transmission diffraction grating, the Star Analyser spectrograph. The second is an inexpensive fiber optic coupled bench spectrograph that can be used to learn more about spectroscopy. The third is a newcomer, the ALPY 600 spectrograph. The fourth spectrograph considered is at the other end of the market both in performance and cost, the high-resolution Lhires III. While considerably more expensive, this is a popular and excellent scientific instrument, that allows more advanced amateur astronomers to produce scientifically valuable data. With all of these tools in place, the

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amateur astronomer is well-prepared to forger deeper into the night sky using spectroscopy. Lost City Clive Cussler 2009-11-10 When an enzyme capable of prolonging life is discovered deep beneath the North Atlantic, NUMA Special Assignments Team leader Kurt Austin and his colleague investigate a killer who is targeting the enzyme's harvesters and researchers.

The Vixen Star Book User Guide James Chen

2015-10-01 This book is for anyone who owns, or is thinking of owning, a Vixen Star Book Ten telescope mount or its predecessor. A revolution in amateur astronomy has occurred in the past decade with the wide availability of high tech, computer-driven, Go-To telescopes. Vixen Optics is leading the way by offering the Star Book

Ten system, with its unique star map graphics software. The Star Book Ten is the latest version of computer telescope control using star map graphics as a user interface, first introduced in the original Star Book first offered in 2003. The increasingly complicated nature of this software means that learning to optimize this program is not straightforward, and yet the resulting views when all features are correctly deployed can be phenomenal. After a short history of computerized Go-To telescopes for the consumer amateur astronomer market, Chen offers a treasury of technical information. His advice, tips, and solutions aid the user in getting the most out of the Star Book Ten system in observing sessions.

*The Stars* Hans Augusto  
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Rey 1980 A simple guide to the location and recognition of stars and constellations, mainly in the northern latitudes

**Choosing and Using a Schmidt-Cassegrain Telescope** Rod Mollise

2012-12-06 Amateur astronomy is becoming increasingly popular, mostly because of the availability of relatively low-cost astronomical telescopes such as the Schmidt-Cassegrain and Maksutovs. The author describes what these instruments will do, how to use them, and which

are the best - he draws on 25-years of experience with telescopes. There are sections on accessories, observing techniques, and hints and tips on: cleaning, collimating, maintaining the telescope, mounting, using the telescope in various conditions, computer control, and imaging (wet, digital and CCD). This is the perfect book for amateur astronomers who are about to invest in a new Schmidt-Cassegrain or Maksutov telescope, or for those who already have one and want to get the most out of it.