

## Astrophotography Guide

This book offers a comprehensive introductory guide to "choosing and using" a series LX55 or LX75 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 LX series users.

Scientific Astrophotography is intended for those amateur astronomers who are looking for new challenges, once they have mastered visual observing and the basic imaging of various astronomical objects. It will also be a useful reference for scientifically inclined observers who want to learn the fundamentals of astrophotography with a firm emphasis on the discipline of scientific imaging. This book is not about making beautiful astronomical images; it is about recording astronomical images that are scientifically rigorous and from which accurate data can be extracted. This book is unique in that it gives readers the skills necessary for obtaining excellent images for scientific purposes in a concise and procedurally oriented manner. This not only gets the reader used to a disciplined approach to imaging to maximize quality, but also to maximize the success (and minimize the frustration!) inherent in the pursuit of astrophotography. The knowledge and skills imparted to the reader of this handbook also provide an excellent basis for "beautiful picture" astrophotography! There is a wealth of information in this book - a distillation of ideas and data presented by a diverse set of sources and based on the most recent techniques, equipment, and data available to the amateur astronomer. There are also numerous practical exercises. Scientific Astrophotography is perfect for any amateur astronomer who wants to go beyond just astrophotography and actually contribute to the science of astronomy.

This book covers the "why," "how," and "what" of astronomy under light-polluted skies. The prospective city-based observer is told why to observe from home (there are hundreds of spectacular objects to be seen from the average urban site), how to observe the city sky (telescopes, accessories, and modern techniques), and what to observe. About half of the book is devoted to describing "tours" of the sky, with physical and observational descriptions, at-the-eyepiece drawings, and photographs.

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!

Astronomy and Astrophotography Through Telescope: a Compound Guide for Beginners

Capturing the Universe

The 100 Best Astrophotography Targets

Astrophotography is Easy!

Cruise Ship Astronomy and Astrophotography

Guide to Simple Astrophotography

Exposure Guide for Astrophotography

*Astronomy is always fascinating for many people. How about finding out about Astronomy through a small telescope. This book won't let you down. If you are astronomic-addicted, This book will show the reader affordable ways to pursue astronomy and astrophotography. For example, the book discusses "purchasing used equipment", "what you really need to buy", "how to take astrophotographs without tracking", "how to build your own solar filter", "how to build a simple barn door mount", "how to simply build your own telescopes", and other similar topics. This book also contains a completely messier object table (object, type, season, magnitude, and size), several star/constellation maps, a few moon maps, and other similar tables and data. A great resource for any astronomer! This book is 280 pages long (6"x9") and includes author-generated images to keep the price of the book to a minimum.*

*The Astrophotography Manual, Second Edition is for photographers ready to move beyond standard SLR cameras and editing software to create beautiful images of nebulae, galaxies, clusters, and the stars. Beginning with a brief astronomy primer, this book takes readers through the full astrophotography process, from choosing and using equipment to image capture, calibration, and processing. This combination of technical background and hands-on approach brings the science down to earth, with practical methods to ensure success. This second*

*edition now includes: Over 170 pages of new content within 22 new chapters, with 600 full-color illustrations. Covers a wide range of hardware, including mobile devices, remote control and new technologies. Further insights into leading software, including automation, Sequence Generator Pro and PixInsight Ground-breaking practical chapters on hardware and software as well as alternative astrophotography pursuits*

*Sets out a simple month-by-month program to reveal all of the night sky's biggest and most beautiful secrets in just one year – and with only a few hours of stargazing each month By investing just an hour a week and \$50 in binoculars, it's possible to learn a few simple techniques and quickly gain a real insight into the night sky's ever-changing patterns – and what they tell us about Earth, the seasons and ourselves. Searching more for a learned appreciation of nature and our exact place within the cosmos than academic scientific knowledge, science and travel writer Jamie Carter takes the reader on a 12 month tour of the night sky's incredible annual rhythms that say so much about Earth. During the journey he learns about the celestial mechanics at work in the skies above that are – to the beginner – almost beyond belief. As well as the vital constellations and clusters, and the weird and wonderful nebulas, he searches out “dark sky destinations” across the globe that help increase knowledge and give a new perspective on familiar night sky sights. On the journey he witnesses a solar eclipse and grapples with star-charts, binoculars, smartphone apps, telescopes, spots satellites and attempts basic astro-photography. By year's end, the reader will be able to glance at the night sky from anywhere on the planet and tell what direction he or she is facing, what time it is, where all the planets are and even where the Galactic Center Point is.*

*At first glance, the challenge of astrophotography may appear daunting. But not only are spectacular results possible, they are easy to learn with the step-by-step instructions provided in this handy resource, which shows amateurs how to produce images to rival a professional observatory.*

*The essential guide to photographing the night sky by TV's favourite astronomer*

*Heavenly Bodies*

*A Walking Tour of the Cosmos for City Sky Watchers*

*The Astrophotography Manual*

*Star-Gazing.co.uk Astrophotography Guide*

*The Astrophotographer's Guidebook*

*The Photographer's Guide to Astrophotography*

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 first edition by 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 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 updated 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 five 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 sights, LED lighting techniques, computer-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 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 updates 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.

Creative Nightscapes and Time-Lapses is your all-in-one guide to making spectacular, multi-image nightscapes and time-lapses. Covering everything from conceptualization and planning to post-processing, the book features innovative cookbook-style "recipes" for each composite nightscape and time-lapse project. Beginning with a review of the key fundamentals of astronomy and photography, author Mark Thompson details the latest methods for planning your night shooting sessions and how to set up your gear to get the best constituent images. The book precisely details how to combine images into 12 different types of art nightscape trophies, each impossible to capture in a single image, before demonstrating how to create stunning level and ramp time-lapses that transition fluidly from day to night. Each night project category includes specific tips for (i) acquiring the constituent images; (ii) assembling them into the composite image or time-lapse; (iii) overcoming common obstacles and (iv) finding the best locations. Providing examples of how to apply these techniques in the field through four detailed case studies, including one, three-night immersive retreat, this book is the comprehensive guide to creating nightscapes and time-lapses.

A concise guide for beginner and intermediate astrophotographers.

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 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 through the 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 introductory guide.

*Creative Nightscapes and Time-Lapses*

*A Stargazing Program for Beginners*

*Astrophotography*

*A Monthly Guide to the Astronomical Events for the Year*

*Philip's Astrophotography With Mark Thompson*

Shoot the Moon  
Astrophotography Tool

***The 100 Best Astrophotography Targets A Monthly Guide for CCD Imaging with Amateur Telescopes*** Springer

*Learn how to find and photograph 50+ objects in the night sky using a small telescope and affordable equipment! Includes the moon, the planets, the sun, nebulae, galaxies, clusters, and multiple star systems! A small telescope is a powerful tool... if you know how to use one. This book walks the reader through the basics of astronomy (the sun, the Earth, the moon, the planets, Kepler's laws, and more), the basic concepts behind how telescopes work (resolution, magnification, parts & accessories, limitations, and more), and how to observe various astronomical targets through a small telescope (the moon, planets, stars, clusters, galaxies, and nebulae). A brief introduction to smartphone and budget-friendly DSLR astrophotography is also included. This book will show the reader affordable ways to pursue astronomy and astrophotography. For example, the book discusses "purchasing used equipment," "what you really need to buy," "how to take astrophotographs without tracking," "how to build your own solar filter," "how to build a simple barn door mount," "how to simply build your own telescopes," and other similar topics. This book also contains a complete messier object table (object, type, season, magnitude, and size), several star/constellation maps, a few moon maps, and other similar tables and data. A great resource for any astronomer! This book is 280 pages long (6"x9") and includes author-generated images to keep the price of the book to a minimum.*

*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.*

*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.*

***Scientific Astrophotography***

***A Guide to Capturing the Cosmos***

***NightScenes***

***The Essential Guide to Photographing the Night Sky***

***Night Scenes***

***The Art of Astrophotography***

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

**THE ULTIMATE GUIDE TO MASTER ASTROPHOTOGRAPHY.** *The Ultimate Guide to Master Astrophotography is the ultimate manual for anyone looking to create spectacular landscape astrophotography images. By explaining the science of landscape astrophotography in clear and straightforward language, it provides insights into phenomena such as the appearance or absence of the Milky Way, the moon, and constellations. This unique approach, which combines the underlying scientific principles of astronomy with those of photography, will help deepen your understanding and give you the tools you need to fulfill your artistic vision.*

*Adaptive optics allows the theoretical limit of angular resolution to be achieved from a large telescope, despite the presence of turbulence. Thus an eight meter class telescope, such as one of the four in the Very Large Telescope operated by ESO in Chile, will in future be routinely capable of an angular resolution of almost 0.01 arcsec, compared to the present resolution of about 0.5 arcsec for conventional imaging in good condition. All the world's major telescopes either have adaptive optics or are in the process of building AO systems. It turns out that a reasonable fraction of the sky can be observed using adaptive optics, with moderately good imaging quality, provided imaging is done in the near IR. To move out of the near IR, with its relatively poor angular resolution, astronomers need a laser guide star. There is a layer of Na atoms at approximately 90 km altitude that can be excited by a laser to produce such a source, or Rayleigh scattering can be employed lower in the atmosphere. But the production and use of laser guide stars is not trivial, and the key issues determining their successful implementation are discussed here, including the physics of the Na atom, the cone effect, tilt determination, sky coverage, and numerous potential astronomical applications.*

*Today's photographic equipment allows amateurs to take pictures of the stars that far surpass images taken just a few decades ago by even the largest observatories-and this book will teach you how. Author and world-renowned astrophotographer Thierry Legault teaches the art and techniques of astrophotography: from simple camera-on-tripod night-scene imaging of constellations, star trails, eclipses, artificial satellites, and polar auroras to more intensive astrophotography using specialized equipment for lunar, planetary, solar, and deep-sky imaging. Legault shares advice on equipment and guides you through techniques to capture and process your images to achieve spectacular results.*

*Astrophotography provides the most thorough treatment of the topic available. This large-format, richly illustrated book is intended for all sky enthusiasts-newcomers and veterans alike. Learn how to: Select the most useful equipment: cameras, adapters, filters, focal reducers/extenders, field correctors, and guide telescopes Set up your camera (digital, video, or CCD) and your lens or telescope for optimal results Plan your observing sessions Mount the camera on your telescope and focus it for razor-sharp images Polar-align your equatorial mount and improve tracking for pin-point star images Make celestial time-lapse videos Calculate the shooting parameters: focal length and ratio, field of view, exposure*

time, etc. Combine multiples exposures to reveal faint galaxies, nebulae details, elusive planetary structures, and tiny lunar craters Adjust contrast, brightness, light curves, and colors Postprocess your images to fix defects such as vignetting, dust shadows, hot pixels, uneven background, and noise Identify problems with your images and improve your results

There are many books covering different facets of astrophotography, but few of them contain all the necessary steps for beginners in one accessible place. *Astrophotography Is Easy!* fills that void, serving as a guide to anybody interested in the subject but starting totally from scratch. Assuming no prior experience, the author runs through the basics for how to take astrophotos using just a camera—including cell phones and tablets—as well as a telescope and more sophisticated equipment. The book includes proven techniques, checklists, safety guidelines, troubleshooting tips, and more. Each chapter builds upon the last, allowing readers to master basic techniques before moving on to more challenging material. Also included is a comprehensive list of additional books and resources on a variety of topics so readers can continue expanding their skills. *Astrophotography Is Easy!* doesn't simply teach you the basic skills for becoming an astrophotographer: it provides you with the foundations you will need for a lifelong pursuit.

*Basics for Beginners*

*A Pocket Field Guide*

*A Complete Guide to Lunar Imaging*

*Practical Astrophotography*

*How to Capture the Cosmos with Any Camera*

*The Universe Today Ultimate Guide to Viewing The Cosmos*

*The Urban Astronomer's Guide*

**"Detailing the photographic equipment and astronomical instruments needed to capture celestial images, this guide shows how astrophotography can be accessible to all photographers. Included is a detailed introduction to basic astronomy with information on mapping the sky, locating celestial bodies, and planning an expedition to photograph astronomical phenomena. Photographers learn how to determine the color sensitivity of various films and achieve the best possible exposure, how to ensure a captivating composition, and how commercially processed prints can support their artistic vision. Whether photographers wish to capture deep sky or solar system subjects, the dual focus on photography and astronomy and the helpful sidebars and charts will ensure great images, enhanced creativity, and a greater appreciation of the night sky."**

**Solar and lunar eclipses are some of the most spectacular and awe inspiring displays Mother Nature puts on for us. it is only natural to want to capture the raw beauty of these events. you may think taking pictures of an eclipse is a difficult process that requires tremendous amounts of equipment, money and experience; you would be wrong. Today it has never been easier to image eclipses. Understand the terms, different stages, equipment needed, and processes you can employ to create some spectacular images using mostly what you already have. Coverage is also included on telescopes, mounts, and much more.**

**The Definitive Resource for Viewing the Night Sky David Dickinson, Earth science teacher and backyard astronomer, and Fraser Cain, publisher of Universe Today, have teamed up to provide expert guidance on observing the night sky. The Universe Today Ultimate Guide to Viewing the Cosmos features the best tips and tricks for viewing our solar system and deep sky objects, as well as detailed charts, graphs and tables to find must-see events for years to come. This comprehensive guide is complete with stunning and exclusive photography from top night sky photographers, as well as advice on how to take your own incredible photos. Take your recreational viewing to the next level with activities like: Finding comets and asteroids Tracking variable stars Monitoring meteor showers Following solar activity Tracking satellites Timing lunar and asteroid occultations With star charts, practical background information, technological resources and telescope and astrophotography guides, this is the ultimate resource for any backyard space enthusiast.**

**No longer are heavy, sturdy, expensive mounts and tripods required to photograph deep space. With today's advances in technology, all that is required is an entry-DSLR and an entry level GoTo telescope. Here is all of the information needed to start photographing the night sky without buying expensive tracking mounts. By using multiple short exposures and combining them with mostly 'freeware' computer programs, the effect of image rotation can be minimized to a point where it is undetectable in normal astrophotography, even for a deep-sky object such as a galaxy or nebula. All the processes, techniques, and equipment needed to use inexpensive, lightweight altazimuth and equatorial mounts and very short exposures photography to image deep space objects are explained, step-by-step, in full detail, supported by clear, easy to understand graphics and photographs. Currently available lightweight mounts and tripods are identified and examined from an economic versus capability perspective to help users determine what camera, telescope, and mount is the best fit for them. A similar analysis is presented for entry-level telescopes and mounts sold as bundled packages by the telescope manufacturers. This book lifts the veil of mystery from the creation of deep space photographs and makes astrophotography affordable and accessible to most amateur astronomers.**

**How Amateurs Can Generate and Use Professional Imaging Data**

**Understanding, Planning, Creating, and Processing Nightscape Images**

**Digital SLR Astrophotography**

**The Beginner's Guide to Astrophotography**

**A Practical and Scientific Approach to Deep Sky Imaging**

**The Guide to Amateur Astronomy**

This book provides a thorough introduction to and exploration of deep sky astrophotography for the digital photographer. With over 280 images, graphs, and tables, this introductory book uses a progressive and practical style to teach readers how to image the night sky using existing, affordable equipment. The book opens with a brief astronomy primer, followed by chapters that build progressively to explain the challenges, offer solutions, and provide invaluable information on equipment choice through image capture, calibration, and processing in affordable software. The book's focus ranges from how to image sweeping vistas and star trails using only a camera body, lens and tripod, to more advanced methods suitable for imaging galaxies, clusters, nebulae, and stars. Other features of the book include: Real-world assignments showing how and when to use certain tools and how to overcome challenges and setbacks Practical construction projects Evaluations of the most recent developments in affordable hardware and software Exploration on how sensor performance and light pollution relate to image quality and exposure planning Ground-breaking practical chapters on lucky imaging and choosing and using the latest CMOS cameras Written in an accessible, easy to follow format, this comprehensive guide equips readers with all the necessary skills to progress from photographer to astrophotographer.

Provides novice to accomplished amateur astronomers with a firm grounding in the basics and successful use of digital astrophotography. Provides examples of the best images, and gives readers hints and tips about how to get the best out of this extraordinary technology. Experts in CCD astronomy from North America and Europe have contributed to this book, illustrating their help and advice with many beautiful colour images – the book is in full color throughout. Techniques range from using simple webcams to highly technical aspects such as supernovae patrolling. Computer processing, stacking and image-enhancement are detailed, along with many hints and tips from the experts.

Featuring new chapters on astro-software and CCD-imaging techniques, a book for amateur astronomers covers astrophotography, telescope construction, planetary observing, comet hunting, variable star recording, and nova discovery, and features both novice and advanced techniques. UP.

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.

Astrophotography on the Go

Digital Astrophotography: The State of the Art

Your Complete Guide to Conceptualizing, Planning and Creating Composite Nightscapes and Time-Lapses

A User's Guide to the Meade LXD55 and LXD75 Telescopes

The Complete Guide to Astrophotography

A Monthly Guide for CCD Imaging with Amateur Telescopes

A Photographer's Guide to Deep-Sky Imaging

*Enrich your next sea vacation with this fun how-to guide to observing and doing astrophotography on water. Collecting together the author's five decades of astrophotography and teaching experience, this book shares all the practical information you will need to start on your own astronomy adventure. Part I is full of practical advice on what to pack, the best ways to enjoy the night sky from your cruise ship observatory, specific astronomical objects and events to look out for, and myriad other useful tips. Part II gives you a crash course on astrophotography at sea, teaching you the nitty-gritty details of taking pictures of the night sky. Proof that it can be done is provided by the many amazing color astrophotographs taken by the author while following the steps laid out in this book.*

*The Moon boasts an unexpected variety of landscapes - including volcanic features, sinuous valleys and ghost craters - which are readily visible from Earth. This practical guide explains and demonstrates how you can capture impressive images of our nearest neighbour in space using a variety of different techniques. As the first guide to be dedicated to modern lunar imaging, this volume offers an in-depth and illustrated approach to common optics, the essentials of digital images, imaging devices, and image processing software. Even in light-polluted areas, the countless features and finest details of the Moon can be captured by following the instructions in this comprehensive and accessible guide. Covering equipment ranging from smartphones and DSLRs to specialist planetary cameras, whether you are a novice without a telescope, an amateur developing your skills in imaging, or an experienced astrophotographer, you will benefit from the hints, insights and expertise within.*

*The Complete Guide to Landscape Astrophotography is the ultimate manual for anyone looking to create spectacular landscape astrophotography images. By explaining the science of landscape astrophotography in clear and straightforward language, it provides insights into phenomena such as the appearance or absence of the Milky Way, the moon, and constellations. This unique approach, which combines the underlying scientific principles of astronomy with those of photography, will help deepen your understanding and give you the tools you need to fulfil your artistic vision. Key features include:*

- Distinguished Guest Gallery of images from renowned nightscape photographers such as Babak Tafreshi, Bryan Peterson, Alan Dyer, Brenda Tharp, Royce Bair, Wally Pacholka, and David Kingham
- The twenty-five best landscape astrophotography subjects and how to photograph them
- Astronomy 101 - build your knowledge of night sky objects and their motion: the Milky Way, moon, Aurora Borealis/Australis, constellations, meteors and comets
- Information on state-of-the-art planning software and apps designed to enable you to capture and enhance your landscape astrophotography
- Field guide for creating a detailed plan for your night shoot
- Description of the best moon phases for specific types of nightscape images, and the best months and times of night to see the Milky Way
- How-to guide for creating stunning time-lapse videos of the night sky, including Holy Grail transitions from pre-sunset to complete darkness
- Four detailed case studies on creating landscape astrophotography images of the Milky Way, full moon, star trails, and constellations

*In the last few years, digital SLR cameras have taken the astrophotography world by storm. It is now easier to photograph the stars than ever before! They are compact and portable, flexible to adapt with different lenses and for telescope use, and above all DSLR cameras are easy and enjoyable to use. In this concise guide, experienced astrophotography expert Michael Covington outlines the simple,*

*enduring basics that will enable you to get started, and help you get the most from your equipment. He covers a wide selection of equipment, simple and advanced projects, technical considerations and image processing techniques. Unlike other astrophotography books, this one focuses specifically on DSLR cameras, not astronomical CCDs, non-DSLR digital cameras, or film. This guide is ideal for astrophotographers who wish to develop their skills using DSLR cameras and as a friendly introduction to amateur astronomers or photographers curious about photographing the night sky.*

*Using Short Exposures with Light Mounts*

*Telescope Observer's Guide*

*A Guide to Affordable Astronomy and Astrophotography*

*Orion*

*A Complete Guide to the Best Astrophotography Targets of the Year*

*The Complete Guide to Landscape Astrophotography*

*The Ultimate Guide To Master Astrophotography*

*In The Art of Astrophotography, astronomer and Astronomy Now columnist Ian Morison provides the essential foundations of how to produce beautiful astronomical images. Every type of astroimaging is covered, from images of the Moon and planets, to the constellations, star clusters and nebulae within our Milky Way Galaxy and the faint light of distant galaxies. He achieves this through a series of worked examples and short project walk-throughs, detailing the equipment needed - starting with just a DSLR (digital single lens reflex) camera and tripod, and increasing in complexity as the book progresses - followed by the way to best capture the images and then how, step by step, these may be processed and enhanced to provide results that can rival those seen in astronomical magazines and books. Whether you are just getting into astrophotography or are already deeply involved, Morison's advice will help you capture and create enticing astronomical images.*

*Philip's Astrophotography With Mark Thompson is an essential guide for anyone wishing to photograph or image the stars and planets, written by TV's favourite astronomer. For many people, looking at the sky is not enough and they would love to try and capture what they can see. Until a few years ago, capturing astronomical images was fraught with many challenges, but with the development of digital cameras replacing film, things have become much easier and great astronomical images are now within the reach of even the most novice stargazer. Mark Thompson has spent many years capturing the beauty of the night sky, first with film and now with the digital camera, and has discovered and overcome many of the pitfalls. This book takes the reader on a journey through the world of capturing astronomical images from using the humble mobile phone to specialist cameras, brought to life with Mark's personal experiences and many of his own astronomical images.*

*Digital Astrophotography*

*Basic Astronomy and the Small Telescope*

*How to Take Pictures of an Eclipse*

*An Astrophotography Beginner's Guide to Capturing Solar and Lunar Eclipses*

*Everything You Need to Know to Become an Amateur Astronomer*

*Laser Guide Star Adaptive Optics for Astronomy*

*The NexStar User's Guide*