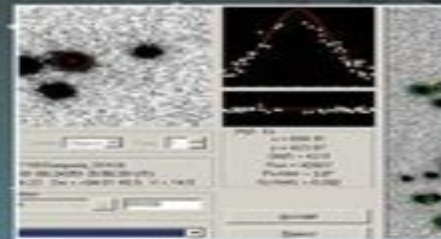


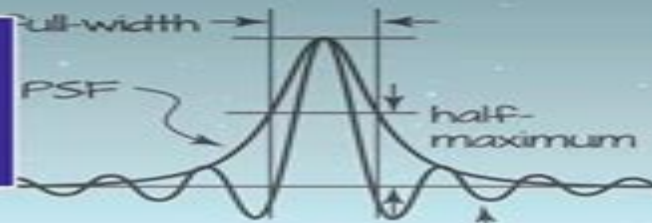
Gerald R. Hubbell

Scientific Astrophotography



How Amateurs
Can Generate and Use
Professional Imaging Data

Patrick Moore's
**Practical
Astronomy**
Series



Scientific Astrophotography How Amateurs Can Generate And Use Professional Imaging Data The Patrick Moore Practical Astronomy Series

Tony Buick



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Scientific Astrophotography Gerald R. Hubbell, 2012-11-09 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.

[Scientific Astrophotography](#) Gerald Hubbell, 2012-11-09 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.

Remote Observatories for Amateur Astronomers Gerald R. Hubbell, Richard J. Williams, Linda M. Billard, 2015-10-23 Amateur astronomers who want to enhance their capabilities to contribute to science need look no farther than this guide to using remote observatories. The contributors cover how to build

your own remote observatory as well as the existing infrastructure of commercial networks of remote observatories that are available to the amateur. They provide specific advice on which programs to use based on your project objectives and offer practical project suggestions. Remotely controlled observatories have many advantages, the most obvious that the observer does not have to be physically present to carry out observations. Such an observatory can also be used more fully because its time can be scheduled and usefully shared among several astronomers working on different observing projects. More and more professional level observatories are open to use by amateurs in this way via the Internet and more advanced amateur astronomers can even build their own remote observatories for sharing among members of a society or interest group.

Endorsements Remote Observatories for Amateur Astronomers Using High Powered Telescopes from Home by Jerry Hubbell, Rich Williams and Linda Billard is a unique contribution centering on computer controlled private observatories owned by amateur astronomers and commercialized professional amateur observatories where observing time to collect data can be purchased. Before this book, trying to piece together all of the necessary elements and processes that make up a remotely operated observatory was daunting. The authors and contributors have provided in this single publication a wealth of information gained from years of experience that will save you considerable money and countless hours in trying to develop such an observatory. If you follow the methods and processes laid out in this book and choose to build your own remotely operated observatory or decide to become a regular user of one of the commercial networks, you will not only join an elite group of advanced astronomers who make regular submissions to science but you will become a member of an ancient fraternity. Your high technology observatory will contain a high powered telescope no matter how large it is and from the comfort of home you can actively contribute to the work that started in pre history to help uncover the secrets of the cosmos.

Scott Roberts Founder and President Explore Scientific LLC In the past three and a half decades since I first became involved with remote observatories, the use of remote unmanned telescopes at fully automated observatories has advanced from a very rare approach for making astronomical observations to an increasingly dominant mode for observation among both professional and amateur astronomers. I am very pleased to see this timely book being published on the topic. I highly recommend this book to readers because it not only covers the knowledge needed to become an informed user of existing remote observatories but also describes what you need to know to develop your own remote observatory. It draws on more than two decades of remote observatory operation and networking by coauthor Rich Williams as he developed the Sierra Stars Observatory Network (SSON) into the world class network it is today. This book is the ideal follow on to coauthor Jerry Hubbell's book *Scientific Astrophotography* (Springer 2012). Remote observatories have a bright future opening up astronomy to a new and much larger generation of professional, amateur and student observers. Machines and humans can and do work well together. I hope you enjoy reading this book as much as I have and will take advantage of the developments over the past several decades by the many pioneers of remote observatories.

Russ Genet, PhD, California Polytechnic State University

Observing Saturn for the first time is a memory that stays with us for the rest of our lives and for many it is the start of an odyssey an odyssey into observational astronomy Remote Observatories for Amateur Astronomers is a book written for observers beginners and old hands alike providing detailed advice to those wishing to improve their observing skills Many will want to build and operate a remotely controlled observatory and for those Part I of this book is an invaluable source of information If like me you choose to avoid the capital outlay of owning your own facility Part II describes how you can use one of the many professionally run large scopes where for a few dollars you can capture spectacular color images of nebulae galaxies and comets My own scientific interest in short period eclipsing binaries has been made possible through the availability of remote telescopes such as those operated by the Sierra Stars Observatory Network SSON Whichever route you take this book is essential reading for all who aspire to serious observing David Pulley The Local Group UK

Making Beautiful Deep-Sky Images Greg Parker, 2007-10-11 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

Creating and Enhancing Digital Astro Images Grant Privett, 2007-01-07 The book will in jargon free blow by blow terms describe how to create the best astronomical images you can with the digital camera equipment at your disposal It will explain the steps we go through to extract results from the raw and dirty original imagery and then transform them into high quality pictures that you could hang on your wall The advent of CCDs and more recently inexpensive webcams has led to a much greater proportion of amateur astronomers becoming involved in digital imaging The low price of the new Meade Deep Sky Imager 299 2005 suggests that within a few years a simple digital camera will become a standard accessory for any telescope To summarise this is a book that tells practical astronomers and that includes some but not all professionals what is needed to get from standing in the dark with a telescope and a camera to showing your spouse local society friends or even supervisor the astonishing images that can be obtained with simple equipment but the right software and knowledge of how to use it

Budget Astrophotography Timothy J. Jensen, 2014-10-25 Here are clear explanations of how to make superb astronomical deep sky images using only a DSLR or webcam and an astronomical telescope no expensive dedicated CCD cameras needed The book is written for amateur astronomers interested in budget astrophotography the deep sky not just the Moon and planets and for those who want to improve their imaging skills using DSLR and webcams It is even possible to use existing non specialist astronomical equipment for scientific applications such as high resolution planetary and lunar photography astrometry photometry and spectroscopy The introduction of the CCD revolutionized astrophotography The availability of this

technology to the amateur astronomy community has allowed advanced science and imaging techniques to become available to almost anyone willing to take the time to learn a few simple techniques. Specialized cooled chip CCD imagers are capable of superb results in the right hands but they are all very expensive. If budget is important the reader is advised on using a standard camera instead. Jensen provides techniques useful in acquiring beautiful high quality images and high level scientific data in one accessible and easy to read book. It introduces techniques that will allow the reader to use more economical DSLR cameras that are of course also used for day to day photography to produce images and data of high quality without a large cash investment.

Making Beautiful Deep-Sky Images Greg Parker, 2016-10-26. 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.

Digital Astrophotography: The State of the Art David Ratledge, 2005-10-01. 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.

The Observational Amateur Astronomer Patrick Moore, 2011-12-30. This celebrity editor has brought together noted professional and amateur astronomers to submit chapters on their particular field of expertise each describing how to observe a different class of object. The whole range of possibilities within reach of a small astronomical telescope is covered from the moon to deep space. The book also shows how to gain the most enjoyment from a telescope as well as its use for formal scientific observations since astronomy is one of the few remaining areas of science where useful work can be carried out by non professionals. The ideal companion to *The Modern Amateur Astronomer*.

One-Shot Color Astronomical Imaging L. A. Kennedy, 2012-04-05. This book shows amateur astronomers how to use one shot CCD cameras and how to get the best out of equipment that exposes all three color images at once. Because this book is specifically devoted to one shot imaging *One Shot Color Astronomical Imaging* begins by looking at all the basics: what equipment will be needed, how color imaging is done and most importantly what specific steps need to be followed after the one shot color images are taken. What is one shot color imaging? Typically astronomical cooled chip CCD cameras record only one color at a time rather like old fashioned black white cameras fitted with color filters. Three images

are taken in sequence in red blue and green light and these are then merged by software in a PC to form a color image Each of the three images must be taken separately through a suitable color filter which means that the total exposure time for every object is more than tripled When exposure times can run into tens of minutes or even hours for each of the three colors this can be a major drawback for the time pressed amateur One Shot Color Astronomical Imaging describes the most cost effective and time efficient way for any amateur astronomer to begin to photograph the deep sky *Astrophotography is Easy!* Gregory I. Redfern, 2020-10-29 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 *Lessons from the Masters* Robert Gendler, 2013-08-13 There are currently thousands of amateur astronomers around the world engaged in astrophotography at a sophisticated level Their ranks far outnumber professional astronomers doing the same and their contributions both technically and artistically are the dominant drivers of progress in the field today This book is a unique collaboration of individuals world renowned in their particular area and covers in detail each of the major sub disciplines of astrophotography This approach offers the reader the greatest opportunity to learn the most current information and the latest techniques directly from the foremost innovators in the field today *Lessons from the Masters* includes a brilliant body of recognized leaders in astronomical imaging assembled by Robert Gendler who delivers the most current sophisticated and useful information on digital enhancement techniques in astrophotography available today Each chapter focuses on a particular technique but the book as a whole covers all types of astronomical image processing including processing of events such as eclipses using DSLRs and deep sky planetary widefield and high resolution astronomical image processing Recognized contributors include deep sky experts such as Jay GaBany Tony Hallas and Ken Crawford high resolution planetary expert Damian Peach and the founder of TWAN The World at Night Babak A Tafreshi A large number of illustrations 150 75 in color present the challenges and accomplishments involved in the processing of astronomical images by enthusiasts ***Creating and Enhancing Digital Astro Images***, 2009-10-12 Digital electronic imaging devices allow the wonders of the universe to be seen in detail never before possible from an amateur astronomer's backyard This book clearly examines how to create the best astronomical images possible with a digital camera It reveals the astonishing images

that can be obtained with simple equipment the right software and knowledge of how to use it Completely jargon free the book describes how to extract results from the raw and dirty original imagery and then transform them into high quality pictures suitable for framing posting online or sharing with friends and colleagues **Imaging the Southern Sky** Stephen Chadwick,Ian Cooper,2012-12-12 This book is not about imaging from the southern hemisphere but rather about imaging those areas of the sky that lie south of the celestial equator Many of the astronomical objects presented are also accessible to northern hemisphere imagers including those in both the USA and Europe Imaging the Southern Sky discusses over 150 of the best southern objects to image including nebulae galaxies and planetaries each one accompanied by a spectacular color image This book also includes sections on both image capturing and processing techniques and so makes an ideal all in one introduction Furthermore because it contains an in depth study of how to capture all the objects many of which are rarely imaged by amateurs and professionals alike it is also extremely useful for the more advanced imager *Astro-Imaging Projects for Amateur Astronomers* Jim Chung,2015-07-09 This is the must have guide for all amateur astronomers who double as makers doers tinkerers problem solvers and inventors In a world where an amateur astronomy habit can easily run into the many thousands of dollars it is still possible for practitioners to get high quality results and equipment on a budget by utilizing DIY techniques Surprisingly it s not that hard to modify existing equipment to get new and improved usability from older or outdated technology creating an end result that can outshine the pricey higher end tools All it takes is some elbow grease a creative and open mind and the help of Chung s hard won knowledge on building and modifying telescopes and cameras With this book it is possible for readers to improve their craft making their equipment more user friendly The tools are at hand and the advice on how to do it is here Readers will discover a comprehensive presentation of astronomical projects that any amateur on any budget can replicate projects that utilize leading edge technology and techniques sure to invigorate the experts and elevate the less experienced As the maker community continues to expand it has wonderful things to offer amateur astronomers with a willingness to get their hands dirty Tweaking observing and imaging equipment so that it serves a custom purpose can take your observing options to the next level while being fun to boot [How to Photograph the Moon and Planets with Your Digital Camera](#) Tony Buick,2007-12-29 Since the advent of astronomical CCD imaging it has been possible for amateurs to produce images of a quality that was attainable only by universities and professional observatories just a decade ago However astronomical CCD cameras are still very expensive and technology has now progressed so that digital cameras the kind you use on holiday are more than capable of photographing the brighter astronomical objects notably the Moon and major planets Tony Buick has worked for two years on the techniques involved and has written this illustrated step by step manual for anyone who has a telescope of any size and a digital camera The color images he has produced there are over 300 of them in the book are of breathtaking quality His book is more than a manual of techniques including details of how to make a low cost DIY camera mount and examples it also provides a concise

photographic atlas of the whole of the nearside of the Moon with every image made using a standard digital camera and describes the various lunar features including the sites of manned and robotic landings

Patrick Moore's Observer's Year: 366 Nights of the Universe Mike Inglis, 2015-09-03 Observers no longer need to wonder what they will turn their attention to each night of the year with this updated text of a beloved favorite from Sir Patrick Moore His night by night account of the stars is the best possible guide an observer could ask for and now includes the latest data for the years 2015-2020 preserving and extending Sir Patrick Moore's legacy This new edition of his classic text makes it easy to see why Sir Patrick Moore was such a helpful guide to generations of budding astronomers professional and amateur alike For every night of the year Patrick gives the reader details of interesting objects that can be seen from Earth It is a book for people with a wide interest in practical astronomy those who may not have specialized in a specific area of astronomy and wish to expand their knowledge in all areas Moore updated his book in a second edition in 2005 giving astronomical events through 2010 but a more current version has been desperately lacking This third edition includes Sir Patrick's original text but revises its time sensitive material and adds all of the points of interest that change from year to year such as eclipses occultations planetary positions and so on Sir Patrick Moore left behind an enormous legacy including the world's longest running television series with the same original presenter the BBC's *The Sky at Night* and more than 70 written works His influence on the world of amateur astronomy was phenomenal and his knowledge and passion led many to take up observing as a life long hobby This book *The Observer's Year: 366 Nights of the Universe* was he said one of his personal favorites It now features a tribute to Patrick Moore's legacy as well as including what has changed in astronomy since the previous edition ten years ago

The 100 Best Astrophotography Targets Ruben Kier, 2009-09-01 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

A Practical Guide to Lightcurve Photometry and Analysis Brian Warner, 2006-02-22 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 tips First Light and Beyond D. A. Jenkins, 2015-07-28 Amateur astronomers who have been disappointed by the results of an observing session can take comfort in the guidance of this book which advises how to still gain useful experience in seemingly failed nights at the telescope In a world with imperfect seeing conditions incredible observing sessions are often mixed with less inspiring ones discouraging the amateur observer This book is designed to minimize subsequent disappointment for astronomers who encounter a few bad observing sessions helping novice observers take something worthwhile away each and every time they go out under the night sky regardless of the observations that were originally planned Almost every observer remembers his first sight of ringed Saturn hanging in the blackness of space Practitioners agree that there is something special about visual observing Real time observations at the eyepiece can provide fleeting yet intense feelings that connect us with the universe in unique ways But when expectations aren't met at the eyepiece there are other ways to profit from the practice of astronomy These rewards though less showy are well worth cultivating This is a book that will help the reader see what constitutes a successful visual observing session It explains the nature of the objects that the observer is seeing and advises how best to use their equipment There are many hints and tips about how best to locate recall and record observations including suggestions for trips to areas where there are dark skies and to public observatories Amateur astronomy is a journey from the urban backyard all the way to dark rural skies and with this guide the journey can be smooth

The book delves into Scientific Astrophotography How Amateurs Can Generate And Use Professional Imaging Data The Patrick Moore Practical Astronomy Series. Scientific Astrophotography How Amateurs Can Generate And Use Professional Imaging Data The Patrick Moore Practical Astronomy Series is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Scientific Astrophotography How Amateurs Can Generate And Use Professional Imaging Data The Patrick Moore Practical Astronomy Series, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
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 - Chapter 3: Scientific Astrophotography How Amateurs Can Generate And Use Professional Imaging Data The Patrick Moore Practical Astronomy Series in Everyday Life
 - Chapter 4: Scientific Astrophotography How Amateurs Can Generate And Use Professional Imaging Data The Patrick Moore Practical Astronomy Series in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of Scientific Astrophotography How Amateurs Can Generate And Use Professional Imaging Data The Patrick Moore Practical Astronomy Series. The first chapter will explore what Scientific Astrophotography How Amateurs Can Generate And Use Professional Imaging Data The Patrick Moore Practical Astronomy Series is, why Scientific Astrophotography How Amateurs Can Generate And Use Professional Imaging Data The Patrick Moore Practical Astronomy Series is vital, and how to effectively learn about Scientific Astrophotography How Amateurs Can Generate And Use Professional Imaging Data The Patrick Moore Practical Astronomy Series.
3. In chapter 2, the author will delve into the foundational concepts of Scientific Astrophotography How Amateurs Can Generate And Use Professional Imaging Data The Patrick Moore Practical Astronomy Series. This chapter will elucidate the essential principles that need to be understood to grasp Scientific Astrophotography How Amateurs Can Generate And Use Professional Imaging Data The Patrick Moore Practical Astronomy Series in its entirety.
4. In chapter 3, this book will examine the practical applications of Scientific Astrophotography How Amateurs Can Generate And Use Professional Imaging Data The Patrick Moore Practical Astronomy Series in daily life. The third chapter will showcase real-world examples of how Scientific Astrophotography How Amateurs Can Generate And Use Professional

Imaging Data The Patrick Moore Practical Astronomy Series can be effectively utilized in everyday scenarios.

5. In chapter 4, this book will scrutinize the relevance of Scientific Astrophotography How Amateurs Can Generate And Use Professional Imaging Data The Patrick Moore Practical Astronomy Series in specific contexts. The fourth chapter will explore how Scientific Astrophotography How Amateurs Can Generate And Use Professional Imaging Data The Patrick Moore Practical Astronomy Series is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Scientific Astrophotography How Amateurs Can Generate And Use Professional Imaging Data The Patrick Moore Practical Astronomy Series. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Scientific Astrophotography How Amateurs Can Generate And Use Professional Imaging Data The Patrick Moore Practical Astronomy Series.

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