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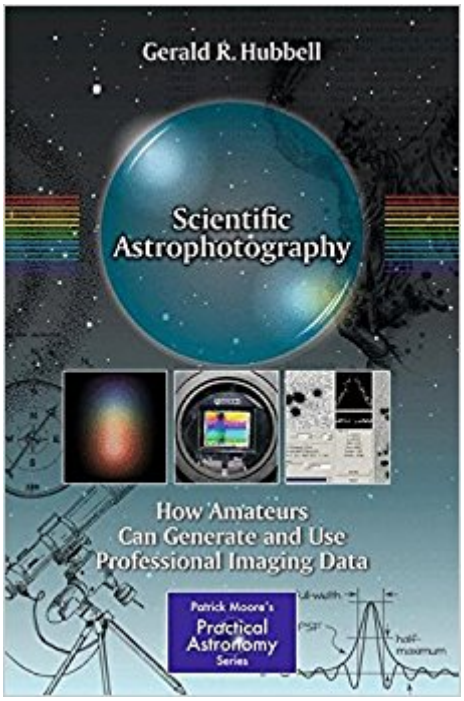
Scientific Astrophotography: How Amateurs Can Generate And Use Professional Imaging Data (The Patrick Moore Practical Astronomy Series)



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Synopsis

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 books 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 Ã¢â ¬Å“beautiful pictureÃ¢â ¬Â• astrophotography! There is a wealth of information in this book Ã¢â ¬â œ 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.

Book Information

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Endorsements ..".Overall, Scientific Astrophotography is a compelling work in the history of technical photographic publications, and it is noteworthy that this is Hubbell's first book on the subject, culminating his own learning experience in making astrophotographs, which began only a few years ago. Even though Hubbell is a relative newcomer, he delivers with the expertise of someone who has practiced for decades. The book is written as though Hubbell were with you, giving you encouragement, inspiration, and all the technical advice you could hope for..." - Scott Roberts, Founder and President, Explore Scientific LLC "Astronomical imaging has come a long way in a short period of time. The era of cold cameras and hypersensitization of photographic emulsions has been replaced with Charge-Coupled Devices, software image enhancements, and precise tracking and go-to mounts we only dreamed of a short quarter of a century ago. Hubbell's Scientific Astrophotography is truly a masterpiece for those who not only want to select the right gear for doing high-quality astronomical imaging, yet understand why the various hardware, components, and especially high-quality optics and options are needed. This work will become the standard for those who are hard-core astronomical imagers as well as those who simply would like to explore and understand today's imaging techniques." - Dr. Mike Reynolds, Dean of Liberal Arts and Sciences, Astronomer, Florida State College "Gerald Hubbell's new book, Scientific Astrophotography, is the perfect companion for anyone dipping their toe into the digital imaging realm for the first time. The author answers all the questions people have when starting out, such as how do I get the most bang for my buck, and how do I select the right CCD for my telescope? The first part of the book guides the reader through the entire imaging system, component by component. The second part instructs the reader on how to acquire and calibrate the images. Once you hEndorsements..".Overall, "Scientific Astrophotography" is a compelling work in the history of technical photographic publications, and it is noteworthy that this is Hubbell's first book on the subject, culminating his own learning experience in making astrophotographs, which began only a few years ago. Even though Hubbell is a relative newcomer, he delivers with the expertise of someone who has practiced for decades. The book is written as though Hubbell were with you, giving you encouragement, inspiration, and all the technical advice you could hope for..."- Scott Roberts, Founder and President, Explore Scientific LLC"Astronomical imaging has come a long way in a short period of time. The era of cold cameras and hypersensitization of photographic emulsions has been replaced with Charge-Coupled Devices, software image enhancements, and precise tracking and go-to mounts we only dreamed of a short quarter of a century ago. Hubbell's "Scientific Astrophotography" is truly a masterpiece for those who not only want to select the right gear for doing high-quality astronomical imaging, yet understand why the various hardware, components,

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useful field exercises all along the way, making the climb up the learning curve just a little bit easier for all of us." (Mike Simonsen, American Association of Variable Star Observers)"Jerry Hubbell has been using SSON since April 2009 for various remote astronomy projects. His new book Scientific Astrophotography is a well written comprehensive description and guide for doing meaningful scientific imaging work in astronomy. Whether you are just starting out or are experience doing scientific astronomy projects, you will find the book to be an excellent reference for improving your skills." (Rich Williams, Found of the Sierra Stars Observatory Network (SSON))"Scientific Astrophotography is a major contribution to the literature in the field of astronomical photography. Hubbell, a well-respected astro-photographer himself, has written a book that will be of value to both the newcomer and the seasoned imager. In his well-written book, he methodically covers the field, giving helpful practical information as well as the theoretical background so the reader understands both the hows and the whys. This book stands out for its thoroughness and breadth; as well as Hubbell’s clear thinking and articulate writing. Scientific Astrophotography upholds the high standards of the Patrick Moore series." (Tom Field, Founder of Field Tested Software, and RSpec Developer)

This is an amazing book!Unlike similar books (I have read many of this type) this book comes with the math needed to perform analysis of astrophotos. It covers everything from basic astrophotos with a simple camera and telescope, all of the way to large and professional scopes.

I have been in astronomy for years and have an observatory I have done research in. This is a great book for someone wanting to learn how to get started in hands on astronomy and move on to more advanced projects.Even though I have been doing this for years I always learn something new or an easier way of doing things.I only have a high school diploma and the author communicates in a way that makes it easy to comprehend.I wish this book had been around years ago when i was starting out.This is a great companion book to Bruce Gary’s "Exoplanet Observing for Amateurs" .

An interesting read. Very specialized topic but a great "niche".

Very useful book with the precise information

An excellent introduction to spectral analysis and general scientific investigation for amateur astronomers.

The book arrived within the estimated delivery time and in excellent condition. This book has several precious tips for those who want to get astronomical data with scientific value from your backyard by spending little effort. I recommend it!

I found the way the author guides you to focus on a specific imaging type of the evening through the guides and plans very useful in directing and organizing my own imaging sessions

Very complete except for not giving page references for indexed items! Must include to rate five stars.

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