

## The Deep Sky Imaging Primer Second Edition

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The Deep-sky Imaging Primer covers almost everything you need to know to create beautiful deep-sky images with a DSLR or an astronomical CCD camera. This textbook is printed in full-color, with over 90,000 words and nearly 200 images and illustrations.

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The Deep-sky Imaging Primer by Charles Bracken

5.0 out of 5 stars The Deep Sky Imaging Primer. Reviewed in the United Kingdom on 23 June 2014. Verified Purchase. The book does exactly what it says and a lot more. The layout is very easy to follow and the technical information is written in a clear and easy style which I found simple to follow.

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The second edition of The Deep-sky Imaging Primer is a substantial update to the first edition, with revised and expanded text and over 325 illustrations. Printed in full color, it covers everything you need to know to capture stunning images of deep-sky objects with a DSLR or CCD camera:

The Deep-sky Imaging Primer – Deep-sky Imaging

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

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Title: The Deep-sky Imaging Primer, 2nd Edition – Imaging the Universe with a Digital Camera Author(s): Charles Bracken Other Info: 8.5 by 11.0 , 238 pages, Paperback, 1.5 lb item wt. The second edition of The Deep-sky Imaging Primer is a substantial update to the first edition, with revised and expanded text and over 325 illustrations. Printed in full color, it covers everything you need to know to capture stunning images of deep-sky objects with a DSLR or CCD camera:

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About getting into Deep-Sky Imaging this is your manual. It get's right down into the details, so might be a bit much for someone who is new to amateur astronomy. But, if you know your telescope, are comfortable with the dark sky and want to move on to something a little more exciting than just visual observing this is the book is a MUST HAVE.

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The Deep Sky Imaging Primer Second Edition By Charles Bracken

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.

The Astrophotography Manual: A Practical and Scientific ...

Buy The Deep-sky Imaging Primer by online on Amazon.ae at best prices. Fast and free shipping free returns cash on delivery available on eligible purchase.

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

The Deep-sky Imaging Primer covers almost everything you need to know to create beautiful deep-sky images with a DSLR or an astronomical CCD camera. This textbook is printed in full-color, with over 90,000 words and nearly 200 images and illustrations. The book does not shy away from the technical details where they are important, but the focus is on practical advice for the amateur. Both narrowband and standard color imaging techniques are covered. Exercise questions are provided to reinforce the material being covered, and the final chapters contain two start-to-finish image processing examples. The book is structured in three sections: The first section, Understanding Images, covers with the fundamentals of signal and noise and how electronic imaging sensors work, laying the foundation for understanding the "whys" behind many equipment and processing choices. The second section, Acquiring Images, reviews all of the equipment involved in imaging--cameras, mounts, and optics--and how to use them. Focusing and autoguiding are covered in detail, as are the critical concepts of image scale and sampling. The third section is about Processing Images. Calibration and post-processing are explained with numerous examples. The chapters break the image processing workflow into phases, with the tools and techniques for each thoroughly covered. If you've ever looked at beautiful deep-sky images and thought, "I wish I could do that," then this book is for you!

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

The Astrophotography Manual is for those photographers who aspire to move beyond using standard SLR cameras and editing software, and who are ready to create beautiful images of nebulae, galaxies, clusters, and the solar system. Beginning with a brief astronomy primer, this book takes readers through the full astrophotography process, from choosing and using equipment through image capture, calibration, and processing. This combination of technical background information and the hands-on approach brings the science down to earth with a practical method to plan for success. Features include: Over 400 images, graphs, and tables to illustrate these concepts A wide range of hardware to be used, including smartphones, tablets, and the latest mount technologies How to utilize a variety of leading software such as Maxim DL, Nebulosity, Sequence Generator Pro, Photoshop, and PixInsight Case studies showing how and when to use certain tools and overcoming technical challenges How sensor performance and light pollution relate to image quality and exposure planning

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.

Finally, a compact, reasonably-priced atlas designed with imaging in mind! Seventy full-color charts cover the entire sky, with stars down to 9th magnitude and over 2000 deep-sky objects plotted in their correct size and shape, including many nebulae not found in visually-oriented atlases. 416 emission nebulae and supernova remnants, including the complete Sharpless (Sh2) and RCW catalogs. 171 reflection nebulae, including the complete van den Bergh (vdB) catalog. 146 planetary nebulae, including the complete Abell catalog 52 dark nebulae and molecular clouds 792 galaxies (larger than 3 arcminutes) 38 galaxy groups from the Abell and Hickson catalogs 108 globular clusters (larger than 5 arcminutes) 309 open clusters (larger than 5 arcminutes) The tabular index contains important details on each object, including a description, the best time of year to capture it, and the required field of view. With information on nearly every possible photographic target in the night sky, The Astrophotography Sky Atlas will help you choose your targets and plan your imaging.

The Astrophotography Planner will help you make the most of every clear night to produce the best deep-sky images possible. It features charts for 76 of the best deep-sky objects visible from the northern hemisphere, including quality imaging hours for any given date, plus maps and detailed moon information for 2020 and 2021.

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.

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

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

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