

Lodestar Autoguider Sensitivity

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Complementary Sensitivity

Our new Astrophotography book: The Messier Catalog Workbook!

AutoGuiding in Astrophotography with PHD2 | A Full Beginner Tutorial

How to setup Autoguiding in PHD2 Autoguiding tutorial (PHD2) What is Off-Axis Guiding? Deep Sky Astrophotography Tutorial

~~Astrophotography P3: Guiding Your Telescope~~

AutoGuiding with PHD2 and a Guide-Scope | Tutorial Setting Up An Off-Axis Guider

FINDING YOUR PERFECT SENSITIVITY | Part 1 - Setup and Settings ~~OAG with a twist!!~~

Starlight Xpress Cameras My Equipment for

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Deep-Sky Astrophotography | AstroAddict **PHD2 Calibration from Backyard Astronomy at Dreamworld Observatory** *PHD2 Guiding - Setup, Troubleshooting \u0026amp; Tips Guide Scopes LONG or SHORT Focal Ratios/Lengths?* **My New Autoguiding Camera (ZWO ASI120MM Mini) for PHD Guiding** Get Excellent Guiding with PHD2 - Advanced PHD2 adjustments - Part3 ~~BSF StarGuider 50mm Guide Scope for Astrophotography~~ unboxing and review Into the deep end with the Celestron Edge Hd 800 and an Off Axis Guider Introducing CCD Inspector for checking Field Curvature \u0026amp; Tilt in your Astrophotography Pictures ~~Astro~~

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~~Photography Tool Walkthrough (+ PHD2 Guiding)~~

Fitting Atik OAG to EFW3 and setting up for use with Lodestar X2

Off-Axis Guider With DSLR - Astrophotography

Gaming Mouse Tip: How to choose the right sensitivity HOW TO FIND YOUR OPTIMAL

SENSITIVITY!... ? *Frank Freestar's Demos*

MetaGuide for Video-Based Collimation and

Guiding Astrophotography Guiding - What, Why and How Lodestar X2 and Lodestar Live

Software Demo ~~Lodestar X2: Not Just a Guiding~~

~~Camera Dec 27, 2014 Lodestar Autoguider~~

~~Sensitivity~~

The Starlight Xpress Lodestar X2 Autoguider

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is a popular guide camera for deep-sky astrophotography. In fact, the original Lodestar was considered to be the best autoguider on the market for a long time. The X2 version is the successor to the original Starlight Xpress Lodestar autoguider and uses a Sony ICX829 Exview sensor.

~~Using a Starlight Xpress Lodestar X2 Autoguider for ...~~

The original Lodestar X2 uses the same ICX829 ExView2 CCD chip from Sony as the Lodestar PRO which offers excellent sensitivity and read noise. With lower readnoise and faster

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downloads, the effective sensitivity of the new Lodestar PRO makes it even easier to find faint guidestars making this still the best choice Autoguider on the market.

~~Lodestar PRO Autoguider — Starlight Xpress Ltd~~

That changes with the introduction of the Lodestar X2, Starlight Xpress' latest guide camera with the greatest sensitivity yet.

Starlight Xpress Lodestar X2C Color

Autoguider Features: The compact Lodestar X2 guide camera is certainly stuffed full of amazing features: 1.25-inch diameter allows

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it to fits easily into your 1.25-inch eyepiece ...

~~Starlight Xpress Lodestar X2C Autoguider
Color~~

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19, 09:28 Rating: 4.6/5 from 794 votes.

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The Starlight Xpress Lodestar X2 is the latest and most sensitive compact autoguider

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on the market, featuring a full sized RJ12 autoguider port and the Sony ICX829AL sensor. For years, the original Lodestar guider had been held in the highest regard as the best autoguider on the market.

~~Lodestar Autoguider Sensitivity~~
~~indivisiblesomerville.org~~

Starlight Xpress Lodestar Pro Autoguider The Starlight Xpress Lodestar Pro is a compact guider powered and operated by a single USB2 computer connection. The Lodestar Pro also provides an opto-isolated output connection for direct control of most mount

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~~Starlight Xpress LodeStar Pro Monochrome
Autoguider — Blue ...~~

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right site to start getting this info.
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here and check out the link.

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Lodestar X2 now takes the lead as the best autoguider on the market. With faster download times and even lower read noise figures, finding a faint guide star has never been so easy. Specifications. CCD type: ICX829AL Sony Exview II interline. CCD with Ultra low dark current and vertical anti-blooming.

~~Starlight Xpress Lodestar X2 Colour
Autoguider | First ...~~

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The Lodestar X2 is an updated version of the very popular 'Lodestar' and is a very compact guider which is powered and operated via a single USB2.0 computer connection. It also provides an opto-isolated output connection

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for direct control of most mounts, via their 'Autoguider' sockets. This

~~Handbook for the Lodestar X2 — Starlight Xpress Ltd~~

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Download Free Lodestar Stand Alone Autoguider

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for guiding. StarAid - Hassle-free astrophotography This model has been replaced by the new Lodestar X2. The Lodestar is a compact stand-alone USB2.0 guide camera featuring the large, sensitive Sony ICX429AL Exview CCD. Suitable for most mounts with a standard autoguider input. As small as a 1.25" eyepiece!

~~Lodestar Stand Alone Autoguider~~
~~trumpetmaster.com~~

The original Lodestar uses the ICX429 Exview chip from Sony and offers excellent sensitivity. However, Sony have now upgraded

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the ICX429 to the ICX829, with considerably improved QE and read noise. This new 'Exview 2' chip approximately doubles the Lodestar sensitivity and adds nearly a full star magnitude to the minimum guide star brightness.

~~Lodestar X2 Autoguider - Ontario Telescope and Accessories~~

The Starlight Xpress Lodestar X2 is the latest and most sensitive compact autoguider on the market, featuring a full sized RJ12 autoguider port and the Sony ICX829AL sensor. For years, the original Lodestar guider had

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been held in the highest regard as the best autoguider on the market.

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,

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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.

The Astrophotography Manual, Second Edition is for photographers ready to move beyond standard SLR cameras and editing software to

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create beautiful images of nebulas, 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

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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

In *The Art of Astrophotography*, astronomer and Popular Astronomy 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

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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

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will help you capture and create enticing astronomical images.

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

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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.

This guide is specifically aimed at those who

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are using—or want to use—Sequence Generator Pro. SGP is a “session management” software package that controls the telescope, mount, camera, and ancillary equipment to target and secure images during a night of imaging astronomical objects. The book begins with a special tutorial to get up and running with SGP. With a comprehensive reference section, it takes the user in detail through the various aspects of user and equipment profiles, equipment definitions, the sequencer, and other essential elements of SGP. Finally, it focuses on how to get the most out of the ancillary programs—target

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databases, autoguiders, plate solvers, planetarium software, and other applications. Oftentimes, technical guides can end up being far denser than the processes they intend to explain. Many of the insights provided by SGP expert Alex McConahay are beyond what can be found in the official program documentation. In this book, the reader will find in-depth, yet straightforward practical advice on how to automate nightly astroimaging sessions with Sequence Generator Pro.

Computers and Astronomy Perhaps every generation of astronomers believes that their

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telescopes are the best that have ever been. They are surely all correct! The great leap of our time is that computer-designed and machined parts have led to more accurately made com- ments that give the astronomer ever better views. The manual skills of the craftsman mirror grinder have been transformed into the new-age skills of the programmer and the machine maker. (The new products did not end the work of craftsman te- scope makers, though. Many highly skilled amateur/professional opticians cont- ued to produce good-quality mirrors that are still seen today.) Amateur-priced telescopes are

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now capable of highly accurate tracking and computer control that were once only the province of professionals. This has greatly increased the possibilities of serious astronomy projects for which tailor-made software has been developed. Add a CCD camera to these improved telescopes (see Chap. 3), and you bring a whole new dimension to your astronomy (see Fig. 1. 1). Look Before You Leap! But first, a word of caution. Unless you are already familiar with astronomy and basic telescopes, it is not wise to start spending large amounts of money on a featured telescope. Such an instrument might

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otherwise be subsequently abandoned due to a perceived overcomplexity coupled with a waning interest.

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

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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

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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.

Provides novice to accomplished amateur astronomers with a firm grounding in the basics and successful use of digital

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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.

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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

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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

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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.

The Astrophotography Manual, Second Edition is for photographers ready to move beyond standard SLR cameras and editing software to create beautiful images of nebulas, galaxies, clusters, and the stars. Beginning with a brief astronomy primer, this book takes readers through the full astrophotography

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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

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