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*AutoGuiding with PHD2 and a  
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*Star-Adventurer setup - 2017-08*

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& polar alignment.*

*Autoguiding tutorial (PHD2)*

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*Your Telescope Pushing the  
exposure length with auto-guiding  
on the ASI AIR pro **Lodestar X2**  
**and Lodestar Live Software**  
**Demo Starlight Xpress**  
**Cameras** Starlight Express *PHD2*  
*Grundlagen* Autoguiding With  
PHD2, PoleMaster, AVX Mount*

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*2016.11.18 Digital*

*Astrophotography Starlight*

*Xpress—Mike Hattey Starlight*

*Express Lodestar Autoguider*

The Starlight Xpress Lodestar X2

Autoguider is a popular guide

camera for deep-sky

astrophotography. In fact, the

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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.

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

The Lodestar PRO autoguider / camera. The Lodestar PRO is an upgraded version of the very popular Lodestar & Lodestar X2 autoguider. The original Lodestar X2 uses the same ICX829

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ExView2 CCD chip from Sony as the Lodestar PRO which offers excellent sensitivity and read noise.

~~Lodestar PRO Autoguider~~  
~~Starlight Xpress Ltd~~  
Starlight Xpress Lodestar X2

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Colour Autoguider £445.00 (7  
Reviews) 2 year warranty.

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Autoguide Lodestar\_x2\_colour Part Number:  
Lodestar\_x2\_colour. Lodestar X2  
now takes the lead as the best  
autoguider on the market ...

~~Starlight Xpress Lodestar X2  
Colour Autoguider | First ...  
Model: starlight\_xpress\_lodestar~~



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This model has been replaced by the new Lodestar X2.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.

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~~Starlight Xpress Lodestar~~

~~Autoguider | First Light Optics~~

Starlight Xpress Lodestar X2

Autoguider £445.00 (6 Reviews) 2

year warranty. Product

description; FAQ; Choose: Mono

Colour: In stock shipped 1-2

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Model:  
starlight\_xpress\_lodestar\_x2 Part  
Number: lodestar\_x2. The  
Lodestar X2 is a new and

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improved version of the highly ...

~~Starlight Xpress Lodestar X2  
Autoguider | First Light Optics~~  
Product information The Lodestar  
X2 is the latest and most  
sensitive compact guide camera  
from Starlight Xpress - the

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Auto Guider  
successor to the standard Lodestar. It offers twice the sensitivity of the original Lodestar (hence X2 designation) making guide stars even easier to find. Autoguider output socket has been changed to an RJ12 connector.

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~~Starlight Xpress Lodestar X2~~

~~Autoguider Altair Astro~~

Handbook for the SX 'Lodestar'  
guide camera Thank you for  
purchasing a Starlight Xpress  
'Lodestar' guide camera. We  
hope that you will be very

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pleased with the performance of this product. The Lodestar is a very compact guider which is powered and operated via a single USB2.0 computer connection.

~~Handbook for the Lodestar~~

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~~Starlight Xpress Ltd~~

Thank you for purchasing a Starlight Xpress 'Lodestar X2' guide camera. We hope that you will be very pleased with the performance of this product. The Lodestar X2 is an updated version of the very popular 'Lodestar' and



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is a very compact guider which is powered and operated via a single USB2.0 computer connection.

~~Handbook for the Lodestar X2—  
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Starlight Xpress Ltd is a specialist

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supplier of cooled CCD cameras for low noise imaging applications. ... New! - 'Starlight Vision' control software for use with most SX cameras 'Starlight Live' software for use with SX mono and colour cameras. Also works with the Lodestar and

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Lodestar X2. Version 3.4 now available with bug fixes and more advanced support for all SX cameras and the SX filter ...

~~Downloads - Starlight Xpress Ltd~~  
These are new 'Lodestar X2'  
format cameras that use the

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latest Sony ICX825 CCD with excellent QE and sensitivity. This CCD offers 1392 x 1040 6.45uM square pixels in an 8.9 x 6.7 mm format and is compatible a wide range of imaging / guiding software, including Paul Shears' 'Starlight Live'. Both mono and

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single-shot colour versions are available.

~~Latest News — Starlight Xpress Ltd~~  
The Starlight Xpress Lodestar monochrome autoguider / CCD camera sells for \$569.00 new. Please check out the other

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Autoguider and photography  
equipment that I also have  
available for sale, such as  
cameras, lenses and accessories.

~~Starlight Xpress Lodestar  
Autoguider~~

Starlight Xpress Lodestar X2

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Autoguider For years, the Lodestar has been held in the highest regard as being the best autoguider on the market! The innovative minds at Starlight Xpress have been trying to improve the iconic Lodestar since it's premiere; this has proved to

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be very difficult to achieve - until  
now.

~~Starlight Xpress Lodestar X2  
Autoguider - OPT Telescopes~~

In cases where you want to guide  
another camera, such as a DSLR,  
then our ' Lodestar ' USB2



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Autoguiding controlled guider offers you a tiny but powerful option. If you want to guide at a long focal length, then a simple guide camera may not be enough for good results.

~~Support Starlight Xpress Ltd~~  
The Starlight Xpress CoStar stand-

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alone Autoguider is a sensitive USB-2 powered guide camera featuring a mono CMOS sensor with 1304x1024 pixels and opto-isolated control outputs. As small as a 1.25" eyepiece but considerably lighter! Also makes an effective Lunar/Planetary

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~~Starlight Xpress CoStar CMOS  
Autoguider | First Light Optics~~  
Starlight Xpress Lodestar X2  
Autoguider The Starlight Xpress  
Lodestar X2 is a very compact  
guider which is powered and

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operated via a single USB2.0 computer connection. The Lodestar X2 also provides an opto-isolated output connection for direct control of most mounts via their Autoguider sockets.

~~Starlight Xpress Lodestar X2~~

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~~Autoguider - Monochrome ...~~

Starlight Xpress Lodestar X2

Colour Autoguider + £445.00.

Starlight Xpress USB Filter Wheel

Starlight Xpress Off-Axis Guide

Head ... The Starlight Xpress

TRIUS PRO-834 camera is fitted

with a sensor from Sony's ICX 1"

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format series (the Starlight Xpress TRIUS PRO-694 & TRIUS PRO-814 cameras also use sensors from the same series). The TRIUS PRO-834 sensor has 12 million pixels, each just 3.1 ...

~~Starlight Xpress Blue Edition Trius~~

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~~PRO 834 Mono | First ...~~

<p>For years, the Lodestar has been held in the highest regard as being the best autoguider on the market. The innovative minds at Starlight Xpress have been trying to improve on the iconic Lodestar since it's conception;

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however, this has proved to be ve  
Starlight Xpress Lodestar X2  
Autoguider - Starlight Xpress -  
Manufacturers

~~Starlight Xpress Lodestar X2  
Autoguider - Starlight Xpress ...~~  
The Lodestar PRO is extremely



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compact in size (31.75mm dia x 85mm long), which is also the size of a 1.25 inch eyepiece push fit. Bring this autoguider with you on your next star party to find your guide star and start viewing the wonders of the night sky.

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~~Starlight Xpress Lodestar PRO  
Autoguider Camera—  
Monochrome~~

Starlight Express recently released their LodestarX2 Guide camera. Their original Lodestar guiders have been around for a long long time, and are a favorite

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among avid astrophotographers.

This book is not about imaging from the southern hemisphere, but rather about imaging those areas of the sky that lie south of

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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,

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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.

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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.

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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

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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



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Autoguide

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

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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

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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

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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.

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For many astronomers, the holy grail of observation is to discover a comet, not least because comets always bear the name of their discoverer! Hunting and Imaging Comets was written for comet hunters and digital

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imagers who want to discover, rediscover, monitor, and make pictures of comets using astronomical CCD cameras and DSLRs. The old days of the purely visual comet hunter are pretty much over, but this is not to say that amateurs have lost interest

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in finding comets. The books also covers the discovery of comet fragments in the SOHO image data, CCD monitoring of older comets prone to violent outbursts, the imaging of new NEOs (Near Earth Objects) that have quite often been revealed as

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comets - not asteroids - by  
amateur astronomers, and the  
finding of recent comets  
impacting Jupiter.

The Astrophotography Manual,  
Second Edition is for  
photographers ready to move



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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 process, from choosing and using

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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

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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

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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

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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

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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)

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camera and tripod, and  
Auto guide  
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

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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.

An Amateur's Guide to Observing

*Page 64/84*



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and Imaging the Heavens is a highly comprehensive guidebook that bridges the gap between the beginners' and hobbyists' books and the many specialised and subject-specific texts for more advanced amateur astronomers. Written by an experienced

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Astronomer and educator, the book is a one-stop reference providing extensive information and advice about observing and imaging equipment, with detailed examples showing how best to use them. In addition to providing in-depth knowledge about every

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type of astronomical telescope and highlighting their strengths and weaknesses, two chapters offer advice on making visual observations of the Sun, Moon, planets, stars and galaxies. All types of modern astronomical imaging are covered, with step-by-

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step details given on the use of DSLRs and web-cams for solar, lunar and planetary imaging and the use of DSLRs and cooled CCD cameras for deep sky imaging.

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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

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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

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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

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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



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breaking practical chapters on  
lucky imaging and choosing and

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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  
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astrophotographer.

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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

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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

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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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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 nebulas, galaxies, clusters, and

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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



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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  
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A wide range of hardware to be

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