

# Autoguider reviews

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**How does autoguider work?** An autoguider is an automatic electronic guidance tool used in astronomy to keep a telescope pointed precisely at an object being observed. This prevents the object from drifting across the field of view during long-exposures which would create a blurred or elongated image.

**Do I need an autoguider for astrophotography?** Autoguiding is an essential part of any serious deep sky astrophotography rig. Whether you're guiding with a guide scope or off-axis guider, you'll need a guide camera to go with it.

**Is StarSense an autoguider?** Celestron Starsense Autoguider It moves the telescope mount around, scanning for patterns of stars and their location to set the mount's alignment in the sky. The major new feature in this new device is autoguiding.

**How does Celestron StarSense work?** Found in our StarSense AutoAlign accessory and SkyProdigy telescopes, StarSense uses an onboard digital camera to scan the sky and take three pictures. It then analyzes these pictures against an internal database (similar to fingerprint matching) and automatically aligns the telescope.

**Can you autoguide without a computer?** Stand-alone autoguiders make life a lot easier for astrophotographers who use DSLR cameras. The advantage: they do not require a separate laptop, and save on additional weight and accessories.

**What are the different types of autoguiding?** There are two main types of autoguider - off-axis autoguiders and autoguiders on separate guidescopes - each of which are described below. Off-axis autoguiders use stars located in the periphery of the field of view, outside the area of scientific interest.

**What is considered good autoguiding?** Good seeing (2?) averages around 0.3 arcseconds RMS in the guiding. Average seeing (2-3?) averages around 0.5 arcseconds RMS in the guiding. Bad seeing (more than 3?) averages around 1.0 arcseconds RMS in the guiding.

**Why are Dobsonians not good for astrophotography?** The ones that do track the sky are also not the best for astrophotography, because they can't track accurately enough for the long camera exposures that are usually required in deep space imaging. One reason for this is that a Dobsonian has to track along two axes instead of one (like a GEM).

**Do I need a guide scope for AsiAir Plus?** In regards to guiding: Whether you have an ASI AIR Pro / Plus (32GB or 256GB model) / Mini - in fact no matter what system you have (a computer running N.I.N.A or SharpCap or whatever) - you need some form of guide camera and guide scope to do guiding. This could be: A Guide Scope and Guide Camera; or.

**Is Celestron StarSense Explorer worth it?** The StarSense Explorer DX 130AZ is a great choice for a first telescope or for those just starting out. Its great user-friendliness and capable StarSense App make this telescope an impressively powerful tool that will offer many hours of observing pleasure.

**What is the difference between tracking and guiding astrophotography?** While tracking, the telescope moves at a constant rate. However, while auto-guiding, the telescope moves based on data it receives. This data describes the star's position relative to the telescope, and it comes from an external camera and computer.

**Can you take pictures with the Celestron StarSense?** The telescope has iPhone mount to guide you through the night sky using Celestron app but not for taking pictures.

**Is StarSense worth buying?** I can't recommend this thing enough. Doing astrophotography, the only two things I dislike really are pole alignment and regular alignment, and of course they are absolutely critical for what I do. Between the PoleMaster (which you should also get btw) and this StarSense, it made those things actually fun!

**How accurate is StarSense?** The app provides a typical pointing accuracy of about 0.25°. Other astronomy apps do not use plate solving. Instead, they rely exclusively on the smartphone's internal gyroscopes, accelerometers, and compass to estimate the smartphone's pointing position.

**Can you see Jupiter with Celestron?** Any small telescope with an aperture of 60mm to 90mm can reveal Jupiter's four brightest moons and the planet's cloud belts and zones.

**Is autoguiding worth it?** Autoguiding can allow for a system that takes trailed 2-minute long exposure to take exposures exceeding 30-minutes, so long as it is properly tuned and you make the correct decision about how you are going to autoguide.

**Can StarSense be used for autoguiding?**

**What is stand alone autoguider for astrophotography?** The SynGuider - stand alone Autoguider can guide an equatorial mount without the help of a PC/Laptop, improving productivity during astro-photography sessions, helping you to obtain perfectly round stars during long exposure times. Supplied with guiding handset & cable, serial cable and battery pack.

**What are the different types of visibility?** With respect to visibility, there are five main types: flight visibility, ground visibility, prevailing visibility, runway visible value, and runway visible range.

**What are the different types of autoencoders?** - There are different types of autoencoders like undercomplete, convolutional, sparse, denoising, contractive, stacked, and deep autoencoders that apply additional constraints or have more complex architectures.

**What are the different types of locator system?** Companies can utilize four common locator systems for inventory management – memory, fixed, zoning and random locator systems.

**What is the minimum star SNR in PHD2?** PHD2 will always reject frames when SNR drops below 3.0. The default value of 6.0 may provide enough of a cushion to

prevent fluctuations from causing the SNR to go below 3.0 - but double-digit values are recommended.

**What is PHD2 guiding speed?** PHD2 guide parameters. The best guiding performance with our belt driven mounts comes by using the lowest possible guiding speed ( 0,2 / 0,4 ) , the shortest possible guide exposure ( 1 sec is ok ) and the lowest possible RA/DEC pulse guide duration (300 / 600).

**What is PHD2 guiding?** PHD2 is telescope guiding software that simplifies the process of tracking a guide star, letting you concentrate on other aspects of deep-sky imaging or spectroscopy. Easy-to-use, “push here dummy” guiding for beginners. Sophisticated guiding and analysis tools for experienced users.

**Why are Dobsonians so much cheaper than other telescopes?** Because the majority of the cost is the optics and everything else is kept very simple, a Dobsonian telescope is very inexpensive for its size. Orion has many low-cost models.

**Can you attach a DSLR to a Dobsonian telescope?**

**Can I track with a Dobsonian telescope?** The fluid motion allows for easy tracking of objects as Earth rotates. Many Dobsonians are now computerized as well. While most do not track automatically (although some can), the computer makes finding objects in the night sky even simpler.

**How does ST4 autoguiding work?** The ST-4 unit had a 15-pin “relay port” to control the four different direction buttons for the mount. In this way, it was able to replace the human guider pushing buttons to correct the pointing and automatically nudge the mount in a direction to correct the alignment to the stars.

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**How does telescope tracking work?** When the user selects an object to view, the mount's software looks up the object's right ascension and declination and slews (moves) to those coordinates. To track the object so that it stays in the eyepiece despite Earth's rotation, only the right-ascension axis is moved.

**How does a rangefinder viewfinder work?** Most varieties of rangefinder show two images of the same subject, one of which moves when a calibrated wheel is turned; when the two images coincide and fuse into one, the distance can be read off the wheel.

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**What is the difference between tracking and autoguiding?** Tracking is also prone to some error, which will become more apparent as the exposure time increases or if a higher magnification on the telescope is used. This error is far less of an issue when using auto-guiding as the telescope reacts to the small differences in the star's position.

**Can you autoguide an Alt AZ mount?** On an Alt-Az mount both axis are tracking all the time. Therefore both axis must be guided as the RA axis on an equatorial mount. There is no backlash on an Alt-Az mount when guiding because the motors are never reversed. "Auto" as Dec guide mode – this is to allow guiding in both directions on the Alt axis.

**How does autoguiding work?** The process of Autoguiding involves making small corrections to the position of an Equatorial Mount during long-exposure astrophotography of deep-sky objects. By using a guide camera and specialised software, you can monitor the position of a nearby 'guide star' relative to the object you're imaging.

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lowest possible RA/DEC pulse guide duration (300 / 600).

**How accurate is telescope tracking?** Autoguiding and tracking When autoguiding, the telescope tracks with accuracy 0.05 arcsec on timescales of minutes, and ~ 0.3 arcsec on a timescale ~ 1 hour (flexure etc).

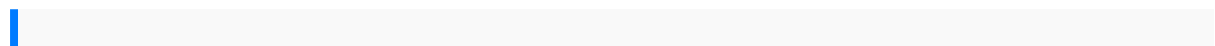
**Does Celestron NexStar track?** Sturdy construction from high-quality components give NexStar SE the pointing and tracking accuracy needed to observe and follow your favorite targets with pushbutton ease.

**Do I need a star tracker or an equatorial mount?** To sum it up, star trackers are perfect for a lightweight travel tracking rig. They are best paired with a DSLR or Mirrorless camera and lens for wide field astrophotography. Equatorial mounts are much heavier and less portable, but can carry a much heavier payload such as a telescope and other imaging accessories.

**What are the disadvantages of a rangefinder camera?** Rangefinders typically have slower shutter max shutter speeds, like; 1/500 or 1/1000 of a second. This means you can't open up your aperture as wide/as fast as you'd want in daylight and may not be able to control your depth of field as easily.

**How far can a rangefinder see?** Rangefinders have limited ranges. Typically, hunting rangefinders have a much longer range than golf rangefinders. Golf rangefinders usually have a target range of around 600 yards, while hunting rangefinders can pick up distances of 1300+ yards.

**Why use a Leica rangefinder?** Thanks to its purist design, the Leica camera remains one of the smaller models, allowing for unobtrusive picture-taking. As a reliable tool, it is sturdy and does not easily break, so there is no need to worry about the camera. The Leica M is small, stealthy, and well-suited for wedding or street photography.



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