Choosing a Star Analyser Grating Are you using a DSLR or Astronomical I'm using a DSLR Camera? Are you using your DSLR with DSLR w/ camera lens your telescope optics or "Objective Grating" camera lens? Use AD-58 adapter to mount grating on DSLR lens cap threads. Cameras (non-DSLR w/ telescope optics Canon) whose lens cap threads aren't 1. Use a Star Analyser-100. 58mm require a step-up or down ring. (In the calculator, use the focal length of the 2. Use AD-T2 adapter to mount lens as grating-to-sensor distance.) to your camera's T-Ring. (In the calculator, use 70 mm as **DSLR** grating-to-sensor distance.) zoom lens focal 70 -35 -[length] 200 mm 100 mm Use Star Analyser-100 Use Star Analyser-200 as an objective grating as an objective grating Standard T-ring with 42 mm Any 1.25" filter (including Star he AD-58 with 58mm threads Analyser, Rainbow Optics screws directly into your camera lens filter threads Our AD-T2 with 42 mm tube from your telescope. Its 42 mm

Link to larger image.

I'm using an astronomical FITS or Video Camera

Determine the distance from your camera's CCD sensor to the tip (far-end) threads of the camera nosepiece (or filter wheel).

Then use this number as the "grating-to-sensor" distance in the calculator (link) to determine whether to use a Star Analyser-100 (preferred) or 200 (link).

Notes on non-DSLR, astronomical cameras:

Hint: You should always plug your

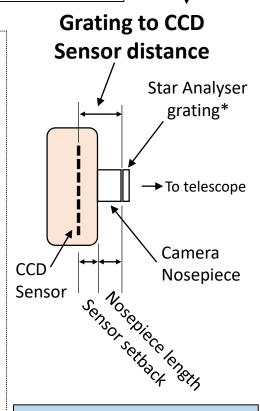
equipment specs into the

calculator to confirm your

grating configuration!

www.rspec-astro.com/calculator

- 1. How to determine camera CCD sensor setback: Most camera sensors are recessed behind the face of the camera. You can determine this distance from the manufacturer's specs or by poking a toothpick into the sensor opening, being very careful not to touch the sensor itself. Measures can be approximate. Don't worry about eliminating the thickness of any glass cover plate on the sensor. See the drawing to the right.
- 2. If the calculator says you need to *increase* the grating to sensor distance, you can use one or more Star Analyser spacers. Each increase the distance by 7 to 10 mm.
- 3. Astro cameras of the following companies (and many others) usually work as-is by screwing the Star Analyser 100 onto the factory-supplied 1.25" nosepiece:
 - ZWO /
 - Atik
- NexImage
- Skyris Imaging Source Mallincam



*Grating can be screwed onto camera nosepiece or it can be mounted in filter wheel

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Link to larger image.