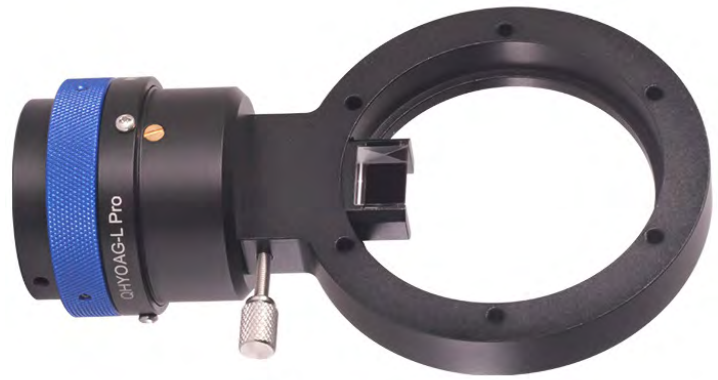




QHYCCD

New Product Announcement **OAGL Pro**



August 15, 2023

Unlike external guiding arrangements, when using an OAG, the guiding camera and the imaging camera share the field of view of main optical system. If a user's OTA has a long focal length, and the environment is not ideal, there will often be fewer stars suitable for guiding to be found in the FOV. One way to improve the chance of finding a good guide star is to use a guide camera with a larger sensor. For example, guide cameras like the QHY5III174M or the QHY5III585C have a FOV that is 2-4 times larger than that of smaller cameras typically sold as guiders. This larger FOV naturally allows you to capture more stars, essentially solving the issue of no or few stars available to guide the image.

In order for a large-sensor guide camera to fully perform to its potential in an OAG, a prism large enough to allow illumination of the larger sensor is needed to avoid severe vignetting. The new OAG-L Pro uses a new wider prism to better accommodate larger sensor guide cameras. The prism size of the standard QHYOAGL is about 8 x 8mm. The new QHYOAGL Pro prism is 10 x 14mm.

When the QHY5III174M is connected to the older version of QHYOAGL for actual shooting, there is severe vignetting (Image 1, below). In contrast, when QHY5III174M is connected to the new QHYOAGL Pro in the same optical system, there's only a small amount of darkening occurs at the edges, which won't affect guiding at night (Image 2, below).

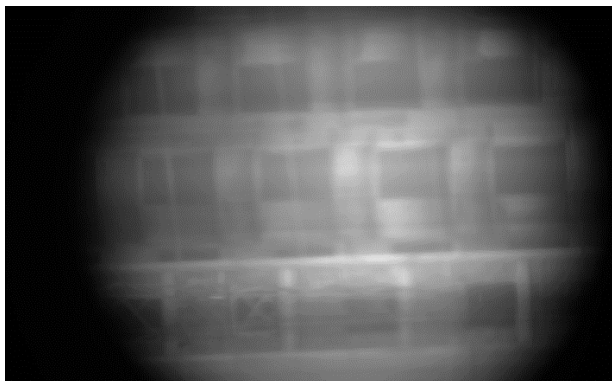


Image 1

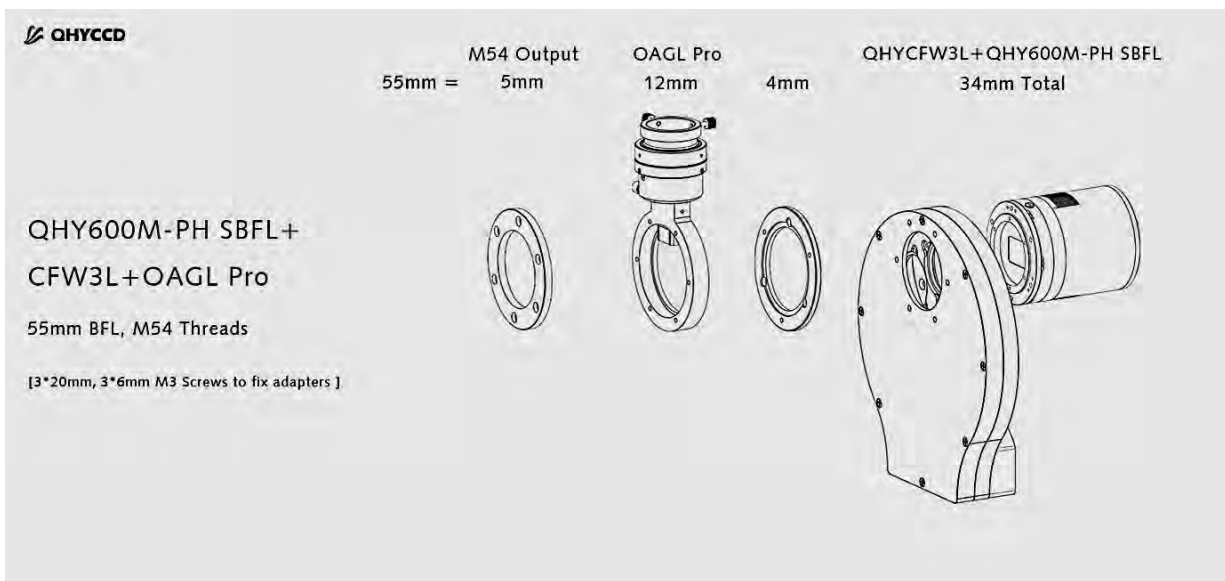


Image 2

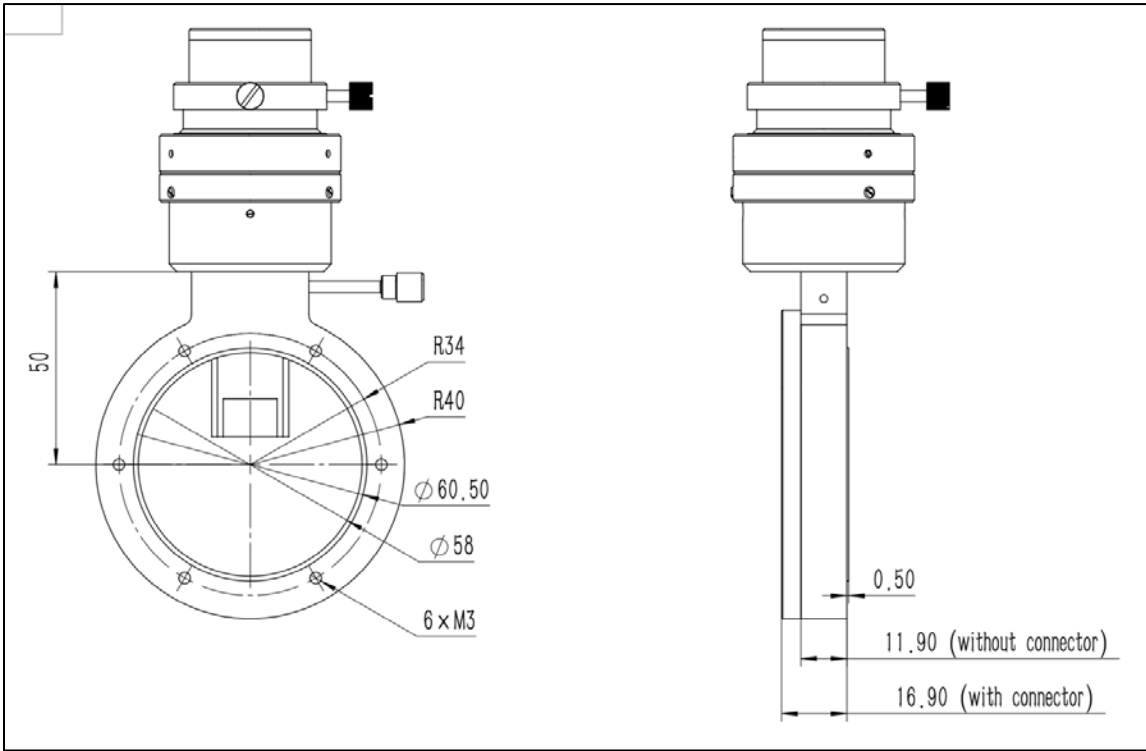
The QHYOAG Series directly attaches to the camera or filter wheel with six screws, ensuring a solid, parallel and reliable mechanical connection. At the same time, various standard and optional QHY accessories can be used to realize a variety of structural combinations.

The QHYOAGL Pro has the same aperture as the front plate of the QHYCFW3XL (62mm) and they can be directly mated. QHY also provides compatible adapters for QHYCFW3L and QHYCFW3M as standard accessories, making the OAG-L Pro compatible with more filter wheels. At the same time, solutions to achieve a back focal length of 55mm are also provided, see below:








The QHYOAGL Pro is designed to support cameras with larger sensors like the QHY461PH, QHY600, and their corresponding large optical systems. Therefore, it only provides M62 and M54 thread outputs. For smaller systems needing M48 threads, a new QHYOAGM Pro with larger pick off prism is under development and will be available soon.



Model	QHYOAGL Pro
Telescope Interface	M62/0.75 or M54/0.75 (combined with certain adapters)
Focal Length	12mm (excluding adapter)
Suitable for CCD/CMOS Size	Full Frame and Medium Frame CMOS
Compatible Filter Wheel	QHYCFW3XL, QHYCFW3L and QHYCFW3M (combined with certain adapters)
Compatible Guide Camera	Large-sensor guiding camera like QHY5III174M is recommended. Also be compatible with smaller cameras
Guide Camera Interface	1.25 inch
Weight	About 165g



What's in the Box?

 adapter for QHYCFW3L, M	 5mmM62 to 54(F) spacer	 5mmM62(F) spacer
 M3x20mm screws	 M3x6mm screws	 M3x18mm screws
 M3x10mm thumb screws +1mm hexagon keys	 QHYOAG L Pro	
 Driver Download Instructions		

