

# Atmospheric Dispersion Corrector



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## Overview

The ADC is a tool used to eliminate the image distortion caused the lens effect of the atmosphere on objects that are low on the horizon. There is an excellent article explaining it's operation here: [Sky Inspector article](#).

## Optical Train for C11 Telescope

Because it is extremely difficult to setup a telescope with a long focal length and a Barlow (because of very limited field of view) it is beneficial to setup an optical train that can swap in a section that has no Barlow (for setup) and another section that has the Barlow.



This is composed of the following components:

1. [William Optics 1.25" SCT RotoLock Adapter & Visual Back](#) (above left)
2. [Tele Vue 2.5x – 1.25" Powermate Barlow](#) (above right – top left)
3. [Tele Vue T-Ring Adapter for 1.25" Powermate](#) (above right – top middle)
4. [ZWO ADC Atmospheric Dispersion Corrector](#) (above right – top right)
5. M42 tube extensions totaling 73.5mm after nosepiece (above right – bottom)

By using this setup, you can add/remove the Barlow/ADC lenses from the optical train at will without changing the back focus of the camera. This setup is optimized for the C11 146mm back focus.

**DOCUMENT INCOMPLETE – WORK IN**  
**PROGRESS**