

Product Evaluation: UltraWide Adapter

by

Robert C. Price

The product being evaluated is a 2 inch UltraWide adapter that couples a 2 inch eyepiece holder to a specific camera. The UltraWide adapter eliminates the need for a T-adapter because the camera threads

are built into the adapter. This type of adapter has the advantage of the 1.5 inch opening of a T-adapter being eliminated, thus allowing the full inside diameter of the UltraWide adapter to be the limiting factor restricting the light cone from the optical system. Figure 1 shows a standard T-adapter and T-ring. Figure 2 shows the UltraWide adapter. Figure 3 shows the camera's CMOS sensor as seen



Above: Figure 1, Williams optics T-adapter and T-ring attached to a Canon 40D camera.



Above: Figure 2, UltraWide adapter attached to a Canon 40D camera.

looking into the standard adapter. Figure 4 shows this same view looking into the UltraWide adapter. Figure 5 shows a flat field image using the standard T-adapter and T-ring combination. Figure 6 shows a flat field image using the UltraWide adapter. These flat field images were made using an NP-127 F/5.2 refractor and canon 40D camera. With the

APS-C size sensor there is no advantage with the UltraWide adapter. Both adapters show the same flat field image characteristics. The main cause of vignetting seen in these flat field images appears to be the camera itself. The UltraWide adapter might prove useful for 35mm size sensors, but it has no advantage over T-rings with APS-C sensors.



Above: Figure 3, View of the Canon 40D CMOS sensor looking down the Williams Optics T-adapter and T-ring.



Above: Figure 4, View of the Canon 40D CMOS sensor looking down the UltraWide adapter.



Above: Figure 5, Flat field image with a Canon 40D and T-adapter/T-ring attached to a NP-127 refractor. Image has been processed to exaggerate the difference in image density over the image field.



Above: Figure 6, Flat field image with a Canon 40D and UltraWide adapter attached to a NP-127 refractor. Image has been processed the same as the image in Figure 5.

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