



WinCamD with BSF Series UV Converter

Required Materials

Ensure receipt of the following items before beginning:

- A WinCamD series camera with or without a screw-on ND4.0 filter covered by a screw-on target cap.
- A separately packaged UV converter with an attached spacer, prefocused for screwing on to the camera.
- UV Converter Calibration Certificate.

Using the UV Converter

Follow these steps to use the UV converter:

- 1. Install the DataRay software.
- 2. Unscrew the ND4.0 filter and screw on the UV converter, removing the front cover cap (See Fig. 1).
- Start the DataRay software. In the Setup pull-down menu, choose Capture Setup Dialog. In the Pixel multiply factors box, enter the PMF value from the label on the UV converter into the X = field and press OK.
- 4. Measure the power/energy in your beam in order to ensure that it does not approach the 500 mJ/cm² damage threshold.
- 5. Use the aperture ring to set the UV converter aperture to f/4 and 'walk' the beam onto the converter from one side. If the camera saturates and increasing the aperture f/# does not help, then additional attenuation or sampling is needed before the converter. Note that the aperture ring allows for varying the irradiance on the camera by a factor of 100:1 by varying the aperture from (typically) f/1.6 to f/16.



Figure 1: WinCamD with UV Converter Attached

