Advancing the Technology of Laser Beam Analysis

<u>Very Important</u>: Per the User Manual instructions, with *full* Administrator Rights, Install, Open and Close the latest Software before connecting the Camera.

## You should have received:

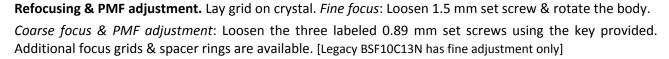
- **a)** A WinCamD series camera with or without a screw-on ND4.0 filter covered by a screw-on target cap.
- **b)** A separately packaged UV converter with an attached spacer, *prefocused* for screwing on to the camera.
- **c)** User Manual with software CD inside the front cover, 3 m USB 2.0 cable, Camera and or UV converter Calibration Certificate.

## First:

- **d)** Install the software, open and close it, and then install the hardware. Follow the instructions in the User Manual.
- **e)** Read the manual and learn to use the camera before you attach the UV converter. This is particularly true if you are working with a pulsed laser, as is often the case for the UV.

## To use the UV converter:

- f) Inspect the UV converter. It has an aperture ring which allows you to vary the irradiance on the camera by a factor of 100:1 by varying the aperture from (typically) f/1.6 to f/16.
- g) Unscrew the ND4.0 filter and screw-on the UV converter. Remove the front cover cap.
- h) Start the software. Read the PMF = section on the label on the UV converter. In the Setup pull-down menu, choose Capture Setup Dialog. In the USB Capture Setup menu enter the PMF value on the label. (Don't know how to do this? You skipped e) above.)
- i) Measure the power in your beam/energy in order to ensure that it does not approach the 500 mJ/cm<sup>2</sup> damage threshold.
- j) With the UV converter aperture set to f/4, 'walk' the beam onto the converter from one side. If the camera saturates, and increasing the aperture f/# does not help, then you need to add additional attenuation/sampling before the converter. (A 5% right angle prism sampler is an available accessory. An RA for BSF10, or RA-20 for BSF20.)





Reread this User Guide. Still no luck? Save a \*.wcf file (per the instructions in the User Manual) and email it with a description of your problem to support@dataray.com.

