

The attenuator plate included in your optical kit is used for fluorescent applications that have particularly high fluorescent signals. The attenuator simply decreases the amount of excitation light entering the sample thus decreasing the sample's fluorescent signal. This will allow the signal to remain within the linear range of the instrument.

There are two attenuator plates offered by Turner Designs; a 1:5 (10-318R), that decreases excitation light by 5X, and a 1:75 (10-327R) that decreases excitation energy by 75X. The appropriate attenuator for your application will depend on the signal strength of the fluorophore of interest.

Applications that commonly use attenuator plates include:

- Ammonium (optical kit 10-303)
- CDOM (optical kit 10-303)
- Turbidity (optical kit 10-307R)
- Various oil applications may also require an attenuator plate.

To install the attenuator plate, remove the excitation filter from the filter holder and simply install the attenuator in front of the filter and then secure both in place (see diagram below).

