

Changing the Slit

Quick Start Guide

How to Change the Slit on a Modular Spectrometer



Spectrometers with the interchangeable slit feature allow you to easily change the resolution and sensitivity of your spectrometer to optimize your measurement, or to change between different types of measurements (for example, to change from absorbance to fluorescence).

If you change from a standard slit to a slit with a filter, the spectrometer must be recalibrated because the filter changes the optical focus and wavelength calibration of the spectrometer. In this case you would need to send the spectrometer back to Ocean Optics.

When changing from a larger slit to a smaller slit, recalibration is always necessary. Recalibration is optional when changing from a smaller slit to a larger one, however Ocean Optics recommends that a calibration always be performed to confirm that the wavelength calibration is still accurate after the new slit is installed.

Available slits include:

INTSMA-000	Interchangeable Round SMA with no slit installed
INTSMA-005	Interchangeable Round SMA 5 μm
INTSMA-010	Interchangeable Round SMA 10 μm
INTSMA-025	Interchangeable Round SMA 25 μm
INTSMA-050	Interchangeable Round SMA 50 μm
INTSMA-100	Interchangeable Round SMA 100 μm
INTSMA-200	Interchangeable Round SMA 200 μm



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The slit size is indicated on the SMA connector for easy identification as shown here.

Additionally, there is an indication of "S" or "L" to indicate a small or large aperture size in the slit assembly.



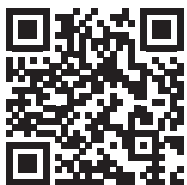
Procedure

1. Disconnect the power and USB cable from the spectrometer.
2. Locate the SMA connector. If a fiber is attached, remove it.

3. Make a note of the direction of the key with respect to your spectrometer bench. You will replace the new slit with the key facing the same direction.



4. Use the Allen key to remove the 2 screws attaching the slit to the spectrometer.
5. Pull the slit out of the spectrometer. To assist in removing the slit, screw on the cap that came with the spectrometer and then gently pull the slit from the housing.
6. Align the guide pins of the new slit with the opening and insert. The key of the connector should be placed on the same side as noted in Step 3.
7. Install the 2 screws again using the Allen key (do not over-tighten).
8. If necessary, connect the fiber again.



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