

FL 6500/8500 Variable Angle Solid Sample Holder Installation Instructions

This instruction sheet describes the installation of this accessory which is used with the FL 6500/8500 Fluorescence Spectrometer.

NOTE: *Read these instructions before you install this accessory.*

Contacting PerkinElmer

Supplies, replacement parts, and accessories can be ordered directly from PerkinElmer, using the part numbers.

See our website:

<http://perkinelmer.com>

PerkinElmer's catalog service offers a full selection of high-quality supplies.

To place an order for supplies and many replacement parts, request a free catalog, or ask for information:

If you are located within the U.S., call toll free 1-800-762-4000, 8 a.m. to 8 p.m. EST. Your order will be shipped promptly, usually within 24 hours.

If you are located outside of the U.S., call your local PerkinElmer sales or service office.

Features

- Use for measuring various samples of powder, film, glass, and plate, etc.
- Easy installation and user convenient sampling
- Excellent durability

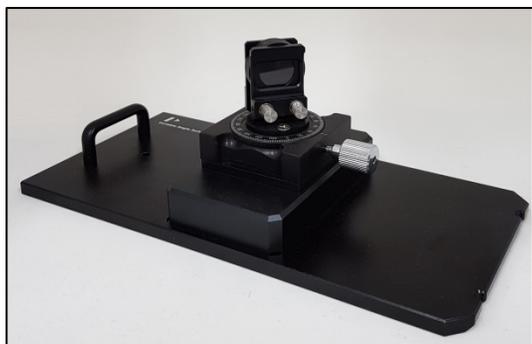


Figure 1 FL 6500/8500 Variable Angle Solid Sample Holder [P/N:N4201014]



PerkinElmer, 710 Bridgeport Avenue,
Shelton, CT 06484-4794, U.S.A

Produced in the USA.

Dimensions and Specifications

Physical Characteristic	Specification
Dimensions (mm)	130 x 267 x 95 (WDH)
Weight (Kg)	0.96
Angle (Degree)	0 ~ 80 (Depend on sample size)
Sample Size (mm)	Max. Length : 140
	Max. Thickness : 13

Configuration of the Variable Angle Solid Sample Holder

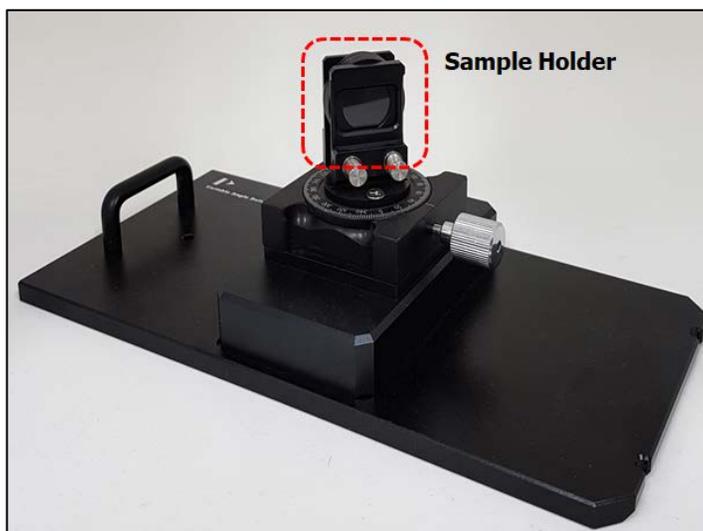


Figure 2 Variable Angle Solid Sample Holder Configuration



Figure 3 FL Precision Cell for Powder [P/N: N4201032]

Installation

1. Prepare the FL 6500/8500 Fluorescence Spectrometer to install this accessory.
2. Connect the power cord and the communication cable.
3. Loosen the accessory fixing bolt to take apart the existing cell holder.

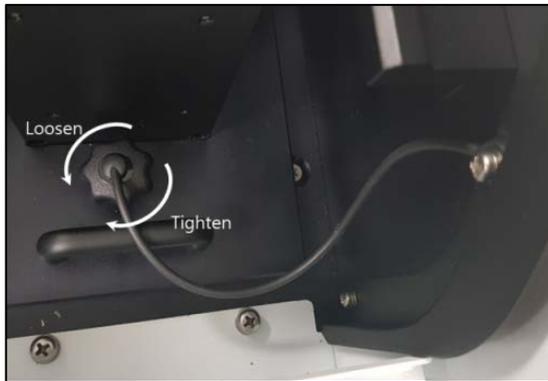


Figure 4 Loosening the Accessory Fixing Bolt

4. Pull out the cell holder by hand.

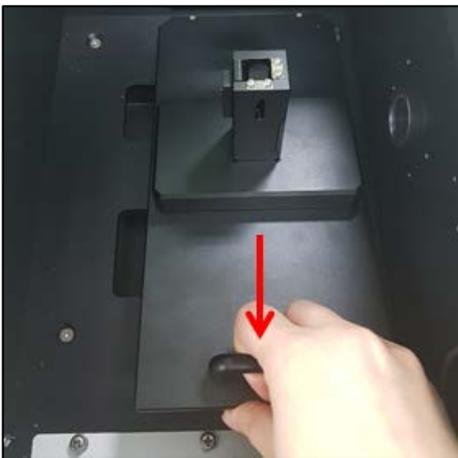


Figure 5 Pulling Out the Cell Holder

5. After checking the pogo pin position of the sample compartment, attach the Variable Angle Solid Sample Holder to the pogo pin.
6. Tighten the accessory fixing bolt.

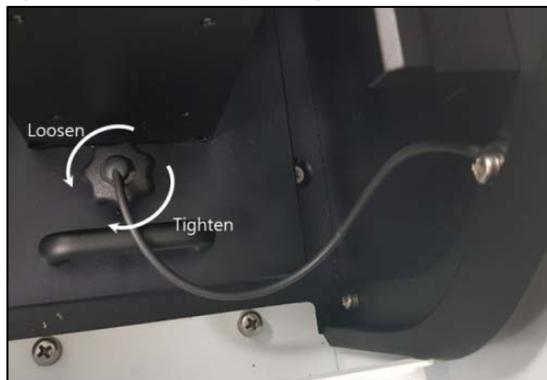
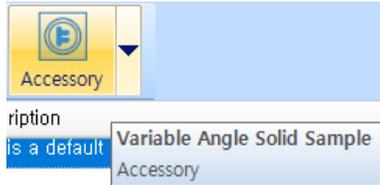


Figure 6 Tightening the Accessory Fixing Bolt

Measurement

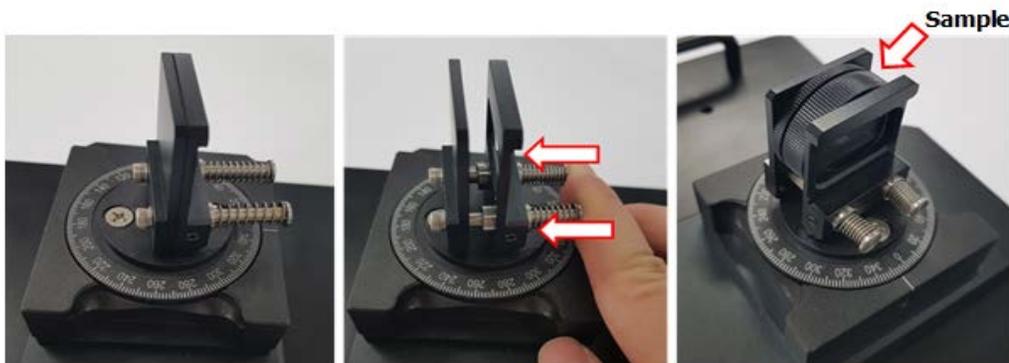
1. Double click on the **Spectrum FL** software and select the measurement mode.
2. Check the recognition of Accessory.



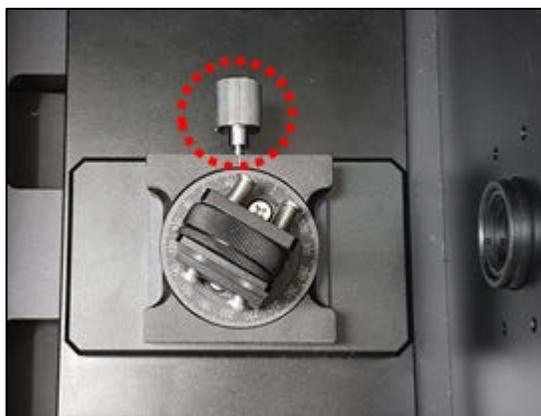
3. Set up the measurement parameters.

NOTE: For more detail of method, refer to *Spectrum FL Software Users Guide*.

4. Click **Save** to save the method after setting up the parameters.
5. Put the sample into the sample holder. Adjust the proper incident angle by rotating the holder.



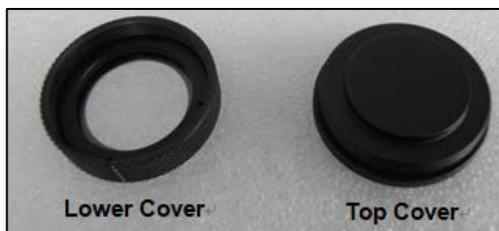
6. After setting the angle, fix it with the hand bolt. Close the lid and select the **Run** icon.



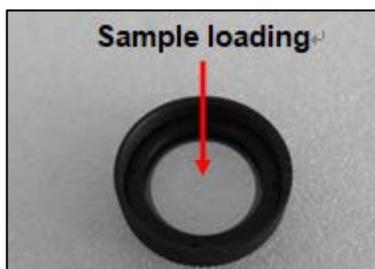
7. Input the sample name and select **OK**.
8. Confirm the spectrum and results. Save or print the data.

Precision Cell Installation Procedure

1. For powder sample, use the Precision Cell provided with the Variable Angle Solid Sample Holder.



2. Load the powder sample on the base of lower cover.



3. Place the screw top cover on the lower cover and tighten the precision cell by turning the screw cap clockwise.



Troubleshooting

When the sample does not fit in the Variable Angle Solid Sample Holder

1. Check the sample size and reduce the sample size if possible. The Variable Angle Solid Sample Holder is designed for the solid sample with maximum thickness of 13 mm and maximum diameter of 140 mm.

When fluorescence is not measured or measured fluorescence intensity is too low

1. Check whether Variable Angle Solid Sample Holder is installed exactly on cell compartment.

2. Check if incident angle is proper. If incident angle get out of recommended incident angle (30 ~70°) or sample position get out of center, fluorescence intensity measured low because sample is not adequately struck by beam.