FL 6500/8500 Automated Polarizer 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

- Easy to Install
- Selectable for UV/Vis or Vis Polarizer

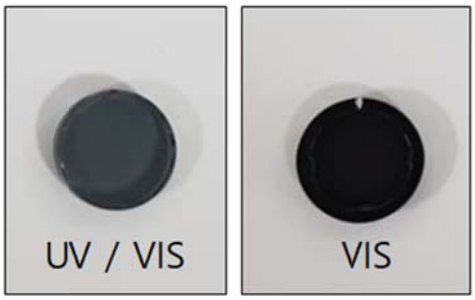


Figure 1 FL 6500/8500 UV/Vis Automated Polarizer [P/N:N4201019]
FL 6500/8500 Vis Automated Polarizer [P/N: N4201022]

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

Produced in the USA.

Dimensions and Specifications

	UV / VIS Polarizer	Vis Polarizer
Dimension (mm)	12.5 mm	12.5 mm
Weight (g)	0.9	0.6

Description

Figure 2 UV/Vis Automated Polarizer

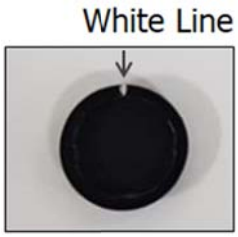


Figure 3 Vis Automated Polarizer

Installation

NOTE: *Fit the Polarizer that you purchased for your experiment to the position of the filter wheel according to the following.*

1. Prepare the FL 6500/8500 Fluorescence Spectrometer to install this accessory.
2. Using a Phillips screwdriver, loosen the white head bolts (M4, 6 ea) to open the upper case.

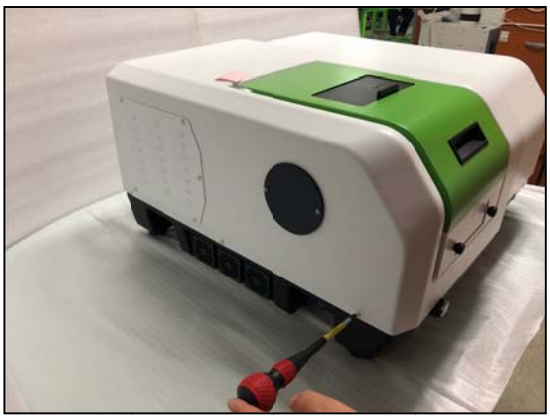


Figure 4 Loosening the 6 white head bolts

3. Loosen the screws of sample compartment lid and separate the lid.

Figure 5 Separate the lid

4. Loosen the 3 bolts of front cover plate and remove the front cover plate.

Figure 6 Remove a front cover plate

5. Remove the upper case.

Figure 7 Remove the upper case

6. Check the position to mount on the Excitation or Emission Filter Wheel.

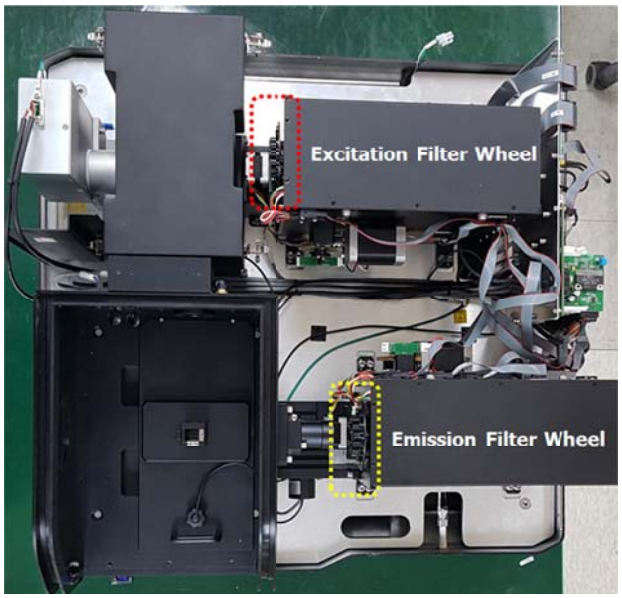
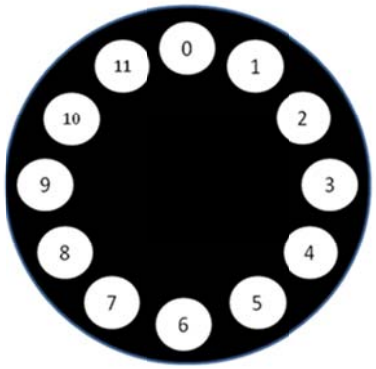


Figure 8 Excitation and Emission Filter Wheel position

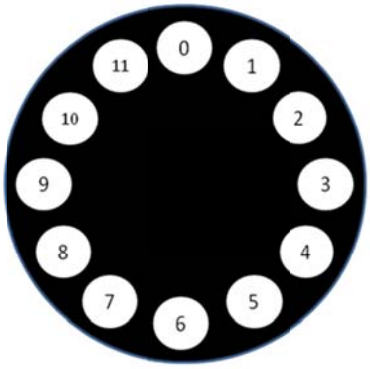
NOTE: *In Excitation and Emission filter wheel, there are 12 holes to attach the filters. The default setting is as follow.*

- **Excitation Filter Wheel**



0: Air
1: 290nm
2: 370nm
3: 530nm
4: Air (User select)
5: Air (User select)
6: Air (User select)
7: Air (User select)
8: UV-Vis Polarizer Vertical(⇕)
9: UV-Vis Polarizer Horizontal (⇔)
10: Visible Polarizer Vertical (⇕)
11: Visible Polarizer Horizontal (⇔)

- **Emission Filter Wheel**



0: Air
1: 320nm
2: 430nm
3: 515nm
4: Air (User select)
5: Air (User select)
6: Air (User select)
7: Air (User select)
8: UV-Vis Polarizer Vertical(⇕)
9: UV-Vis Polarizer Horizontal(⇔)
10: Visible Polarizer Vertical (⇕)
11: Visible Polarizer Horizontal (⇔)

7. Pull the clamp on the mounting position to secure the space and attach the filter.

Figure 9 Pull out the clamp and attach the filter

8. To mount the Polarizer in the **Vertical** direction, align the indicator line under the clamp with the Red (or White) line of the Polarizer.

   UV-Vis Polarizer: Position No. 8 of Ex and Em filter wheels

   Vis Polarizer: Position No. 10 of Ex and Em filter wheels

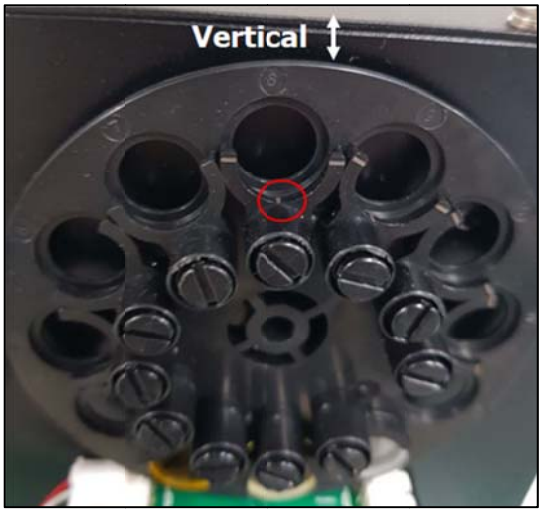


Figure 10 Vertical indicator line

9. To mount the Polarizer in the **Horizontal** direction, align the indicator lines on both sides of the clamp with the Red (or White) line of the Polarizer.

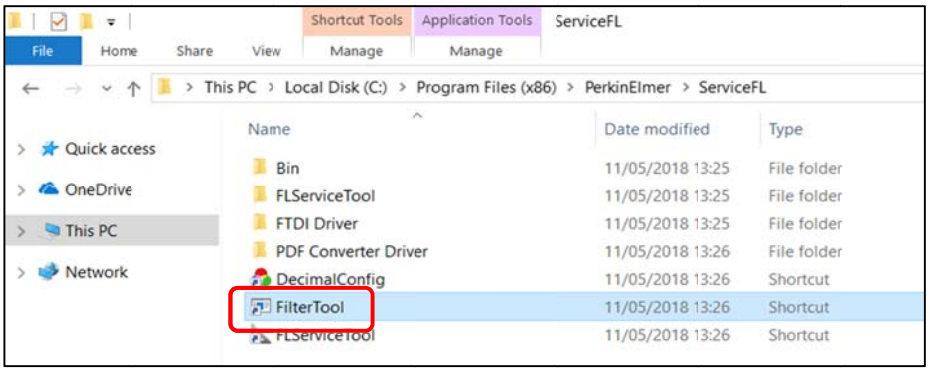
   UV-Vis Polarizer: Position No. 9 of Ex and Em filter wheels
   Vis Polarizer: Position No. 11 of Ex and Em filter wheels

Figure 11 Horizontal indicator line

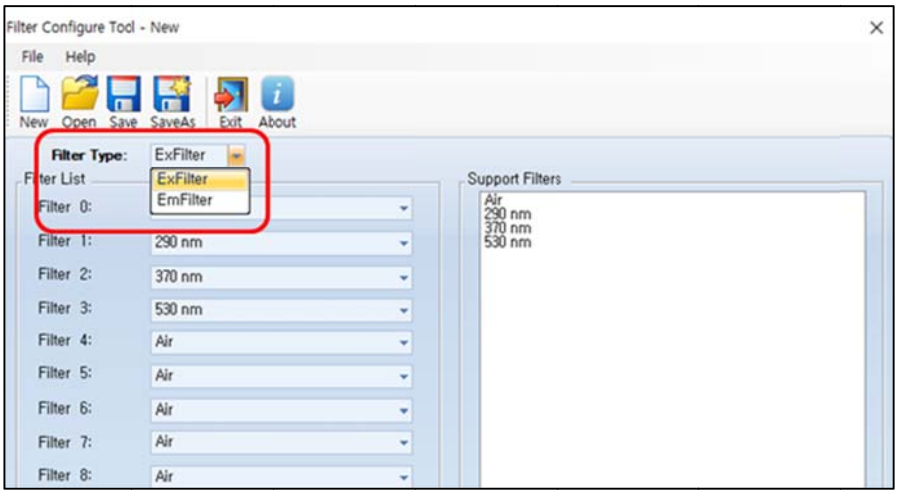
10. Cover the equipment in reverse order #2~#5.

How to register Automated Polarizer in software

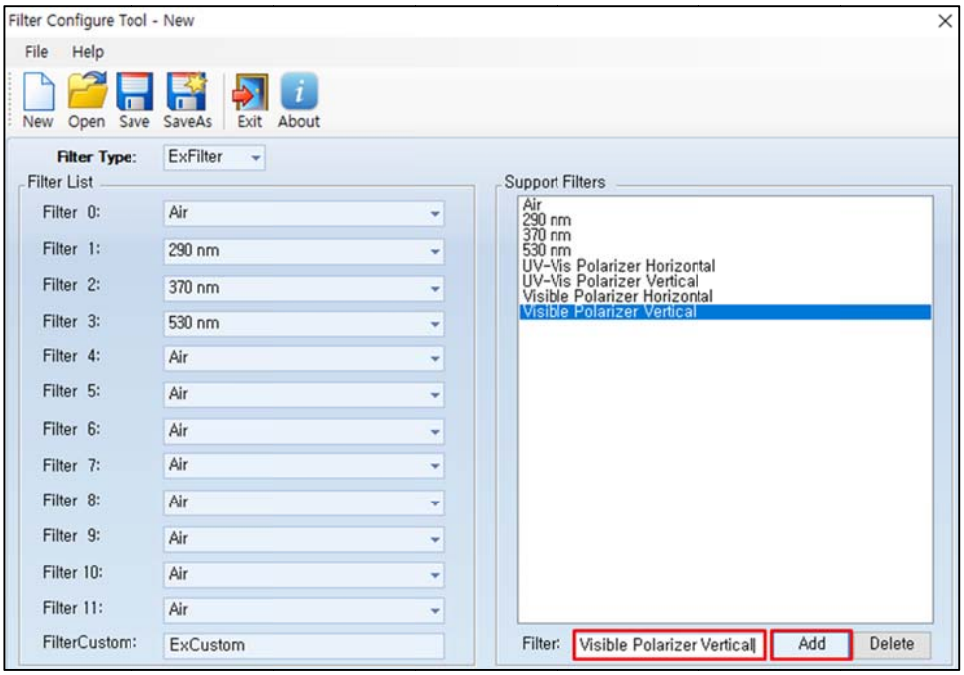
1. Execute the FilterTool program. Click **This PC > Local Disk(C) > Program Files (x86) > PerkinElmer > ServiceFL**.



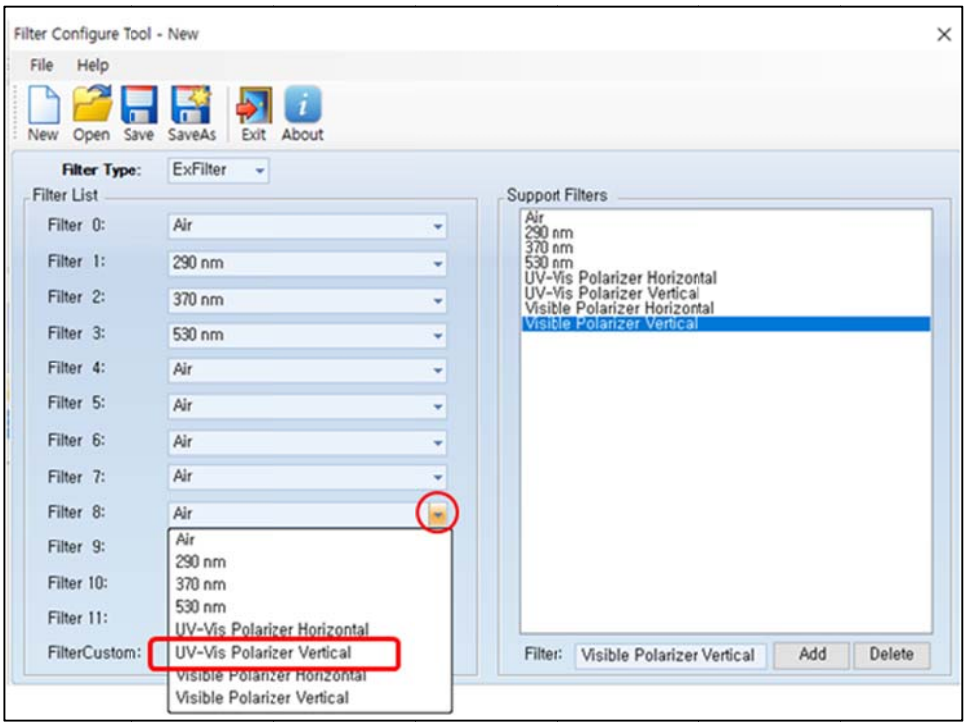
2. Select the Filter Type. (EX Filter or EM Filter)



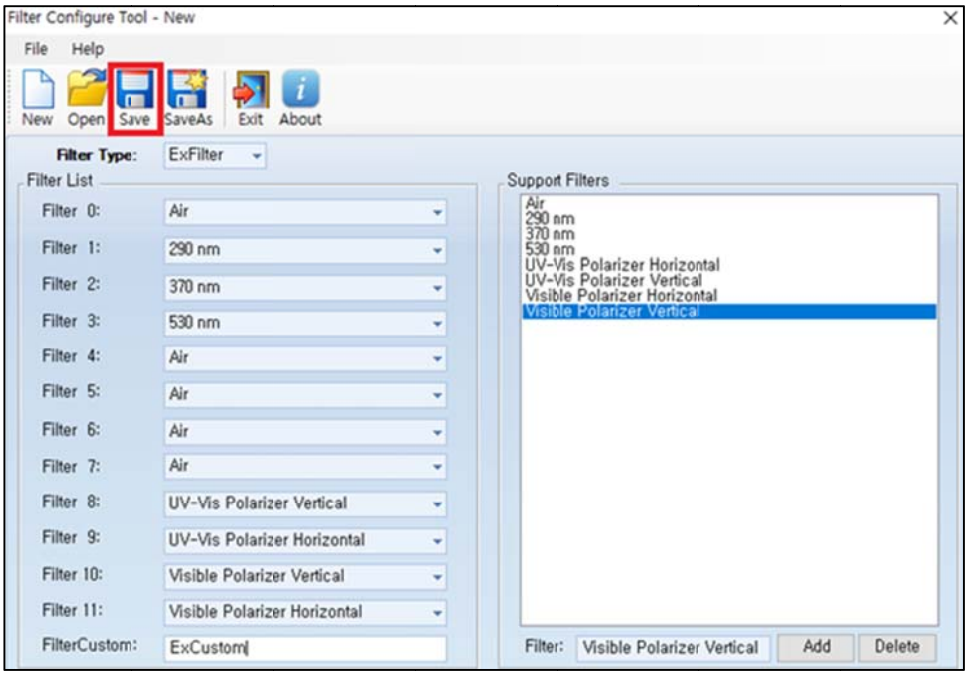
3. Write a polarizer name and click **Add** button.



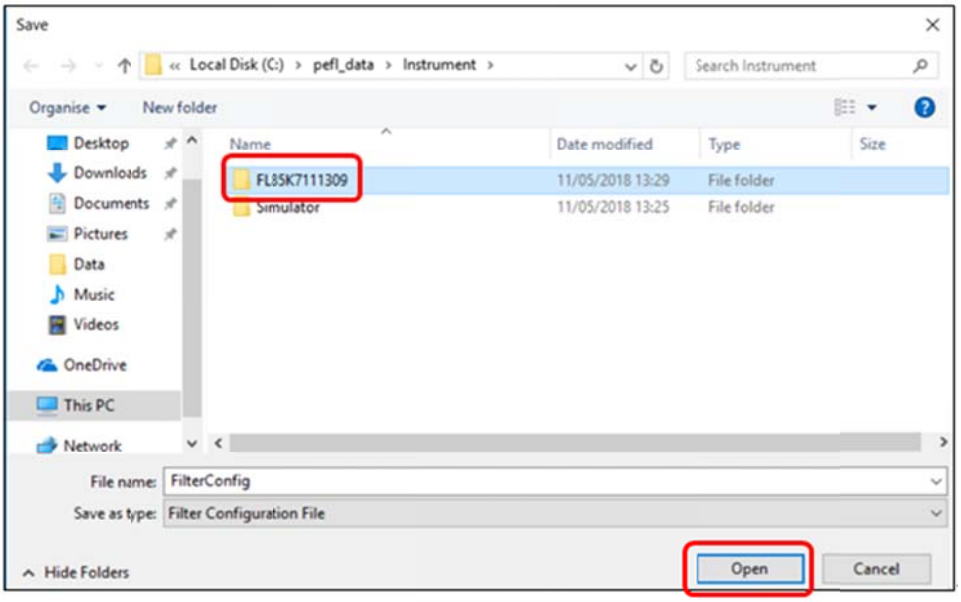
4. Click the arrow at the position of the filter wheel with polarizer and select a polarizer name.



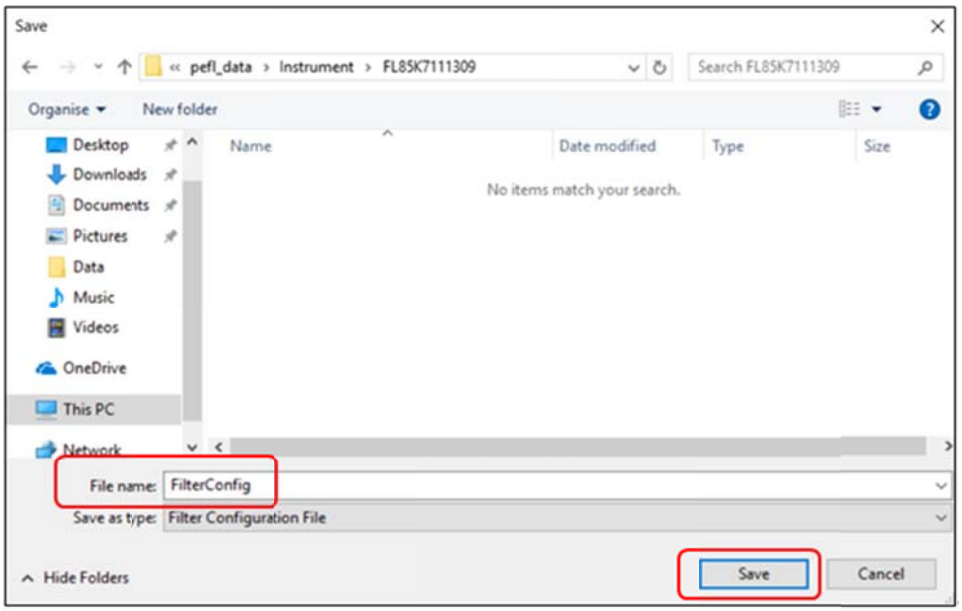
5. After setting the Excitation and Emission polarizer, click **Save** icon.



6. Open the folder that matches the serial number of the instrument.



7. Click **Save**. **Do Not edit the File name.**



8. When saving is complete, pop up window will appear. Click **OK**.

9. Verify the polarizer is set correctly by executing Spectrum FL Software.