

Motorized Filter Wheel (Page 1 of 2)

Features

- 6-Position Ø1" (Ø25 mm) or 12-Position (Ø1/2") Filter Wheel
- Filters up to 0.25" (6.35 mm) Thick
- 300 ms (FW102B) / 200 ms (FW212B) Typical Switching Speed Between Adjacent Ports
- 600 ms Typical Switching Speed Between Non-Adjacent Ports
- Repeatability of ±1°
- SM1-Threaded Shutter Ports
- 1/4"-20 (M6) and #8-32 (M4) Mounting Holes

NEW
products



FW102B



FW212B

Mechanical
Drawings Available on the
WEB

The FW102B and FW212B are motor-driven filter wheels used for a host of automated applications including CCD photography, fluorescence microscopy, and photometry. The Ø4" wheel accepts up to six Ø1" filters in the case of FW102B and up to twelve Ø1/2" filters in the case of FW212B. For both products, filters up to 0.25" (6.35 mm) thick can be used. Additional wheels (FW102A and FW212A) can be purchased separately so that an entire filter set can be easily swapped in or out.

The FW102B and FW212B are designed with two threaded ports, one on each side of the filter wheel housing; FW102B has SM1 (1.035"-40) threading while FW212B has SM05 (0.535"-40) threading. This makes it easy to integrate optomechanical components having our SM1- or SM05-threads, e.g. our SM1 or SM05 lens tubes (starting on page 118). The SM-threaded ports can be changed to other thread standards using our extensive collection of adapters (page 293).

Manual and Automated Filter Selection

Filter selection can be made manually from the push buttons on the unit or remotely from either a USB2.0 interface or a BNC input. Filter switching rates between adjacent positions is 300 ms for the FW102B and 200 ms for the FW212B. Between non-adjacent ports, the switching rate is 600 ms for both designs. Both the FW102B and the FW212B contain easy-to-read displays that indicate the current filter selection. An automated sequence of filter positions can be set up through the USB2.0 interface. A simple command language facilitates the filter selections and the retrieval of filter status. Removable covers are provided to allow either or both ports to be opened.



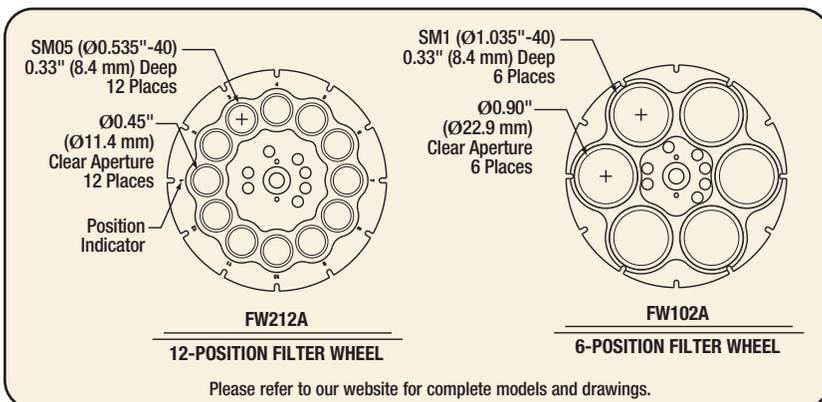
FW102B

The FW102B comes with the controller, filter housing, an FW102A filter wheel, a simple-to-use GUI application program, a 5 Volt DC supply, and 6 threaded retaining rings for holding the 1" optics in place. The FW212B comes with the controller, filter housing, an FW212A filter wheel, a simple-to-use GUI application program, a 5 Volt DC supply, and 12 threaded retaining rings for holding the 1/2" optics in place.

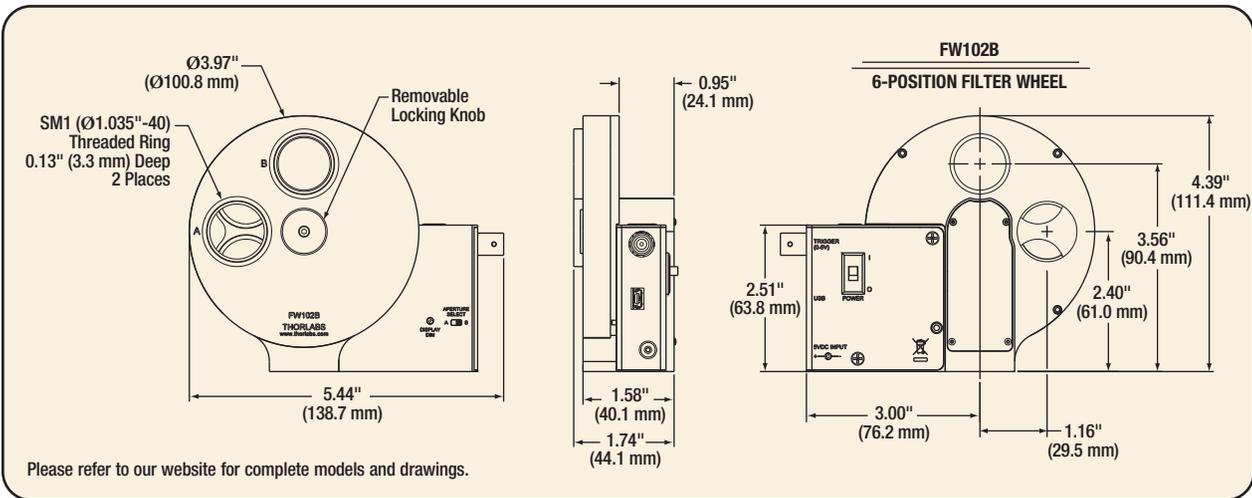
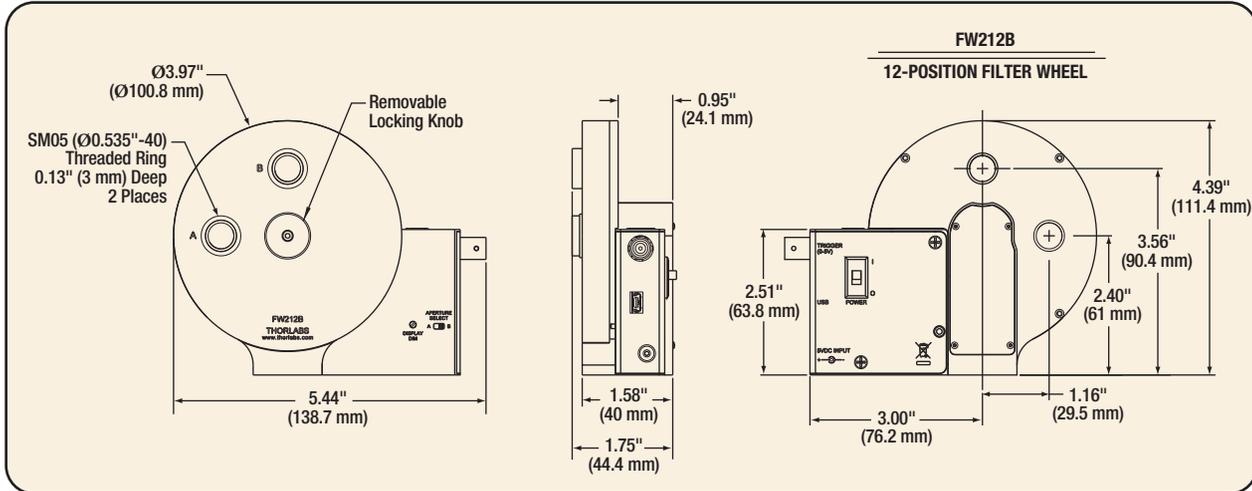


FW212A

FW102A



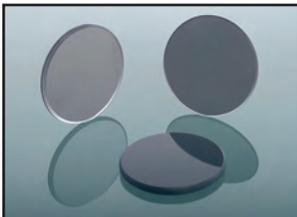
Motorized Filter Wheel (Page 2 of 2)



ITEM#	\$	£	€	RMB	DESCRIPTION
FW102B	\$ 998.00	£ 691.90	€ 886.10	¥ 8,427.20	6-Position Motorized Filter Wheel with USB
FW212B	\$ 1,112.60	£ 771.30	€ 987.80	¥ 9,394.90	12-Position Motorized Filter Wheel with USB
FW102A	\$ 96.40	£ 66.90	€ 85.60	¥ 814.10	Additional 6-Position Filter Wheel for Ø1" Optics
FW212A	\$ 132.60	£ 92.00	€ 117.80	¥ 1,119.70	Additional 12-Position Filter Wheel for Ø1/2" Optics

See Our Expanded Line of Neutral Density, Edgepass, and Bandpass Filters

Neutral Density Filters



- Absorptive and Metallic Versions
- Very Flat Response from UV to Mid-IR
- Optical Density Tolerances < ±5%

See Page 704

Edgepass Filters



- Longpass and Shortpass Versions
- Hermetically Sealed for Humidity Protection
- Can be Combined for Custom Filtering

See Page 696

Bandpass Filters



- From 340-1650 nm
- <0.01% Out-of-Band Transmission
- FWHM Bandpass Regions of 1 nm to 70 nm

See Page 692