

## Manual Filter Wheels



**FW1A**  
Ø1" (Ø25.4 mm)  
6-Station Filter Wheel with Base

**FW2B**  
Ø1/2" (Ø12.7 mm)  
24-Station Filter Wheel with Base

**FW1AB**  
Ø1", (Ø25.4 mm)  
Extra 6-Station Filter Wheel

- Accommodates Ø1/2" (Ø12.7 mm) and Ø1" (Ø25.4 mm) Filters in 6, 12, or 24 Interchangeable Configurations
- SM05 (0.535"-40) or SM1 (1.035"-40) Threaded Stations Complete with Retaining Rings
- Mechanical Indexing Ensures Repeatability
- Labeled and Indexed Filter Positions
- Base and Post Mountable
- Extra Interchangeable Filter Wheels Available for Ø1" (Ø25.4 mm) Filters



The FW series of filter wheel stations are compact, convenient filter mounts that are available with either a single- or dual-wheel configuration. A filter wheel station consists of one or two (model dependent) filter wheels, a pedestal, and a base. These mechanical indexing stations are designed to provide precise alignment and high repeatability. Each filter wheel is designed to accommodate either six Ø1" (Ø25.4 mm) or twelve Ø1/2" (Ø12.7 mm) filters. Filters are held in place using the provided retaining rings, which maintain a large clear aperture. Each filter port also uses either our SM05 (0.535"-40) or SM1 (1.035"-40) thread standard, which makes these filter wheels compatible with other SM-threaded components. The base allows the filter station to be directly secured to an optical table or breadboard. Alternatively, the base can be removed and the pedestal can be mounted on a Ø1/2" TR series post.

Common filter configurations include progressive ND or chromatic filters, allowing for quick adjustment of optical intensity attenuation or wavelength range by simply indexing the wheel. Up to two filter wheels can exist on one base assembly allowing for combinations of up to 24 ND filters or chromatic filters, such as short- and longpass color filters. The modular design allows preloaded filter wheels to be easily interchanged in any optical system.



**Compatible with Our SM Series of Lens Tubes (See Page 117)**

**Ø1/2" and Ø1" Neutral Density Filters See Pages 704-714**



ITEM#	\$	£	€	RMB	DESCRIPTION
FW1A	\$ 135.00	£ 93.60	€ 119.90	¥ 1,140.00	Single Filter Wheel w/ Base, Holds 6 Ø1" (Ø25.4 mm) Filters
FW2A	\$ 177.80	£ 123.30	€ 157.90	¥ 1,501.40	Dual Filter Wheel w/ Base, Holds 12 Ø1" (Ø25.4 mm) Filters
FW1AB	\$ 74.00	£ 51.30	€ 65.70	¥ 624.90	Extra Filter Wheel, Holds 6 Ø1" (Ø25.4 mm) Filters
FW2B	\$ 245.40	£ 170.20	€ 217.90	¥ 2,072.20	Dual Filter Wheel w/ Base, Holds 24 Ø1/2" (Ø12.7 mm) Filters

## Preloaded Filter Wheels



**FW2AND**  
12-Station Dual Filter Wheel with 10 Neutral Density Filters

**FW1ADF**  
6-Station Single Filter Wheel with Six Dichroic Color Filters

**Added Savings Over Buying the Individual Lenses**

**Mechanical**  
Drawings Available on the  
**WEB**

The FW1AND and FW2AND Filter Wheel Assemblies come preloaded with a set of five or ten Ø1" (Ø25.4 mm) Absorptive Neutral Density (ND) filters of increasing attenuation. By combining ten ND filters into a two-wheel assembly (FW2AND), optical intensities can be changed over a large dynamic range (1 – 10<sup>8</sup>).

The FW1ADF Filter Wheel Assembly comes with a set of Ø1" (Ø25.4 mm) dichroic color filters in a six-station filter wheel complete with base. It includes a red, green, blue, cyan, magenta, and yellow filter, each of which is held in place in the SM1 (1.035"-40) threaded wheel with an SM1RR retaining ring.

ITEM#	\$	£	€	RMB	DESCRIPTION
FW1AND <sup>a</sup>	\$ 332.10	£ 230.30	€ 294.90	¥ 2,804.30	Single Filter Wheel with Base, Preloaded with 5 Ø1" (Ø25.4 mm) ND Filters
FW2AND <sup>b</sup>	\$ 532.40	£ 369.10	€ 472.70	¥ 4,495.60	Dual Filter Wheel with Base, Preloaded with 10 Ø1" (Ø25.4 mm) ND Filters
FW1ADF <sup>c</sup>	\$ 235.70	£ 163.40	€ 209.30	¥ 1,990.30	Single Filter Wheel with Base, Preloaded with 6 Ø1" (Ø25.4 mm) Dichroic Color Filters

<sup>a</sup> Absorptive Optical Densities Included: 0.5, 1.0, 2.0, 3.0, and 4.0

<sup>b</sup> Absorptive Optical Densities Included: 0.2, 0.3, 0.4, 0.5, 0.6, 1.0, 2.0, 3.0, and 4.0 (Qty. 2)

<sup>c</sup> Dichroic Filters Included: Red, Green, and Blue Additive Filters and Cyan, Magent, and Yellow Subtractive Filters