

5-position Holder for 50mm Diameter Filters



5-position Holder for 50mm Diameter Filters, #59-783

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1

+

S\$512⁴⁰

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General	
Adjustable - Rotary	Type:
Circular	Type of Optics:
5	Number of Filters:
Filter Holder	Type of Mount:

Physical & Mechanical Properties

Max. Thickness of Compatible Optics (mm):	
5.5	
Threading & Mounting	
Size of Compatible Optics (mm):	
50.0	
Regulatory Compliance	
Compliant	RoHS 2015:
Compliant	Reach 224:
View	Certificate of Conformance:

Product Details

Install or Replace a Filter

The tab mounting filter wheels allow easier insertion of filters. The black delrin tabs and spacers will hold filters from 1 to 5 mm in thickness.

Spacer rings with thickness of 0.75 and 1.50 mm are stacked first in the filter wheel so that the filter's top surface is just above the level of the tab. The tab is then inserted and held in place with the supplied Phillips pan head screws (4-40 x3/16 long) so that there is a small amount of pressure on the filter and the delrin tab is slightly bent. Delrin is very resilient and it will not be deformed easily even if the bend is steep. Don't tighten the three pan head screws until all the tabs are mounted and in contact with the filter. Then tighten each one slightly until the pan head screw is fully seated and the head is not above the surface of the filter wheel.

- USB or RS-232 Interface
- Bi-Directional Movement
- C-Mount and T-Mount Adapters Available

These Motorized Filter Wheels are ideal for a number of automated applications requiring spectral selection or light intensity control. The RS-232 filter wheel can be controlled directly via a control box, or remotely using an RS-232 interface. The USB filter wheel requires a PC connection for motorized operation. Both Motorized Filter Wheels include a Windows®-based graphical user interface, filter wheel housing with integrated stepper motor, USB or RS-232 cables, and 12VDC power supply.

Note: Filter holders are sold separately. Software and Manuals available for [download](#)

Two interchangeable filter holders are available for the Motorized Filter Wheels. The 8-position holder can accept up to eight 25mm and 1" diameter [filters](#) that are up to 5.5mm in thickness. The 5-position holder can accept up to five 50mm diameter filters that are up to 5.5mm in thickness. Each filter holder can be easily removed from the Motorized Filter Wheel without the use of tools. A hinged door is secured by a single captive thumbscrew; once opened, the filter holder can be extracted and another inserted in its place. The filter holders include an assortment of 0.75mm and 1.5mm thick spacers to accommodate different filter thicknesses. Each filter is held in place by two easily removable plastic tabs.

The filter wheel housing can be mounted using English or metric mounting plates. The English mounting plates are designed with three ¼-20 tapped holes for [post](#) mounting, and are compatible with English [laboratory tables](#). The metric mounting plates are designed with three M6 tapped holes for post mounting, and are compatible with metric laboratory tables. C-mount or T-mount adapters are available for easy integration.

The USB-to-serial converter allows USB connection of the RS-232 filter wheel's control box to a computer that does not have a native COM (RS-232) port.

Technical Information

