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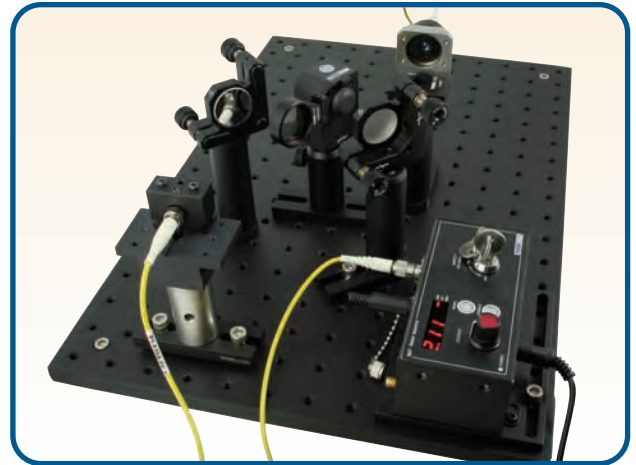
Iris Apertures

Adapters

# Motorized Filter Flipper Mount

- Switch-Controlled Optical Flipper
- 90° Motorized Flipping of Filters, Mirrors, Lenses, or Other Optical Devices
- Compatible with the LMR Series of Lens Mounts (up to Ø1.5" Mounts)
- Easy Filter or Lens Exchange
- Very Compact Design
- Mechanical Hard Stops for Repeatable Positioning
- 8-32 (M4 x 0.7) Tapped Hole for Post Mounting
- Power Supply Included
- One LMR1(/M) Ø1" Lens Mount Included

## Application Idea



**MFF001**  
LMR1(/M) Lens Mount Included.  
All Other Components Sold Separately



**MFF001**  
Back View

## Specifications

- Travel Range: 90°
- Flip Time: <0.5 s
- Optic Diameter: 1" (Ø25.4 mm) with Included LMR1
- Flip-to-Flip Repeatability: 50 µrad
- Torque: 35 N·mm (Max)
- Trigger In: High-Going Pulse 0 to 5 V
- Trigger Out: High-Going Pulse 0 to 5 V
- Trigger Connector Type: SMA
- Power Input: 15 VDC
- Weight (excluding PSU): 81 g (2.9 oz)

Mechanical  
Drawings Available on the  
**WEB**

ITEM #	LMR05(/M)	LMR18(/M)	LMR1(/M)	LMR30(/M)	LMR1.5(/M)
Weight (Optic Weight)	120 g (115.4 g)	105 g (95.9 g)	100 g (90.9 g)	90 g (76.3 g)	85 g (71.3 g)

Please note that the maximum torque applied to the unit must not exceed 35 N·mm. The table details the maximum combined weight of the optic and the associated optic holder. The maximum weight of the optic alone is in brackets.



**MFFHS1**

This two-position high-speed flipper has been designed to flip a lens, filter, or other optical component into and out of a free-space beam. Both metric- and imperial-threaded post adapters are supplied with the unit. Simply select the appropriate adapter for your application.

The flip action is controlled by a button on the top of the unit. The flipper position toggles 90° between vertical and horizontal with each button press. The unit has two SMA connectors, marked TRIG IN and TRIG OUT, for use in applications requiring an external or remote trigger. The trigger is a TTL logic high-going 5 V pulse, which toggles the flipper position.

A remote handset, MFFHS1, is available for use in remote applications. This small [40 mm x 40 mm x 20 mm (1.57" x 1.57" x 0.79")] unit is powered by a 3 V lithium battery and shipped with a two meter cable. The cable can be extended up to three meters using a standard SMA-to-SMA cable. To comply with EMC regulations, the total cable length should be no longer than three meters.

The mount is supplied complete with our LMR1(/M) Ø1" (Ø25.4 mm) optic mount but is also compatible with other holders in the LMR series as shown in the table above. (Please see page 268 for these alternative lens mounts).

ITEM #	METRIC ITEM #	\$	£	€	RMB	DESCRIPTION
MFF001	MFF001/M	\$ 460.00	£ 331.20	€ 400.20	¥ 3,666.20	Motorized Mirror Flipper
MFFHS1	-	\$ 48.00	£ 34.56	€ 41.76	¥ 382.56	Remote Handset for MFF001