Edmund
optics | worldwide

0.3 OD M55.0 x 0.75, Mounted Absorptive ND Filter

Stock **#65-014** `CLEARANCE`   **1 In Stock**

⊖   1   ⊕   **₹3,506**

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General

	Type:
Mounted Imaging Filter	
	Note:
AR Coating: MgF$_2$	

Physical & Mechanical Properties

	Clear Aperture CA (mm):
51.0	
	Thickness with Mount (mm):
5.00	

Optical Properties

Optical Density OD (Average):	
0.3	
Substrate: □	
ND Filter Glass	
Surface Quality:	
80-50	
Transmission (%):	
50	
Blocking Wavelength Range (nm):	
400 - 700	
Coating Specification:	
R_{avg} ≤1.75% @ 400 - 700nm	

Threading & Mounting

Filter Thread:	
M55 x 0.75	
Mount Thickness (mm):	
3.8 ±0.1	
Mount Diameter (mm):	
57.0 +0/-0.2	
Mount Thickness Including Threads (mm):	
6.3	

Regulatory Compliance

Certificate of Conformance:	
View	
Country of Origin:	
United States	
Imported By:	
Edmund Optics India Private Limited	

Product Details

- Spectrally Flat from 400-700nm
- Homogeneous Glass: Blocks by Absorption
- Light/Exposure Control for Imaging

Mounted Absorptive Neutral Density (ND) Filters appear gray in color and reduce the amount of light reaching the camera's sensor. Since the transmission value only varies over a small percentage in the visible, there is no effect on color balance. Instead of just stopping down the lens aperture due to high light levels, ND filters allow for wider apertures which can be used to decrease the depth of field. This allows the important information to be separated from the background. Mounted Absorptive Neutral Density (ND) Filters, compared to polarizing filters, are ideal for overall light reduction in cases of extreme light intensity. By stacking filters, it is possible to achieve other Optical Density (OD) values. All mounted filters can be threaded together with identical male and female threads on each mount. Optical Density exhibits an additive relationship; for example, stacking filters with OD values of 0.6 and 0.9 yields a resultant density of 1.5. The Optical Density (OD) is related to the transmission by the following equation: $T = 10-D \times 100$ = percent transmission.

Technical Information