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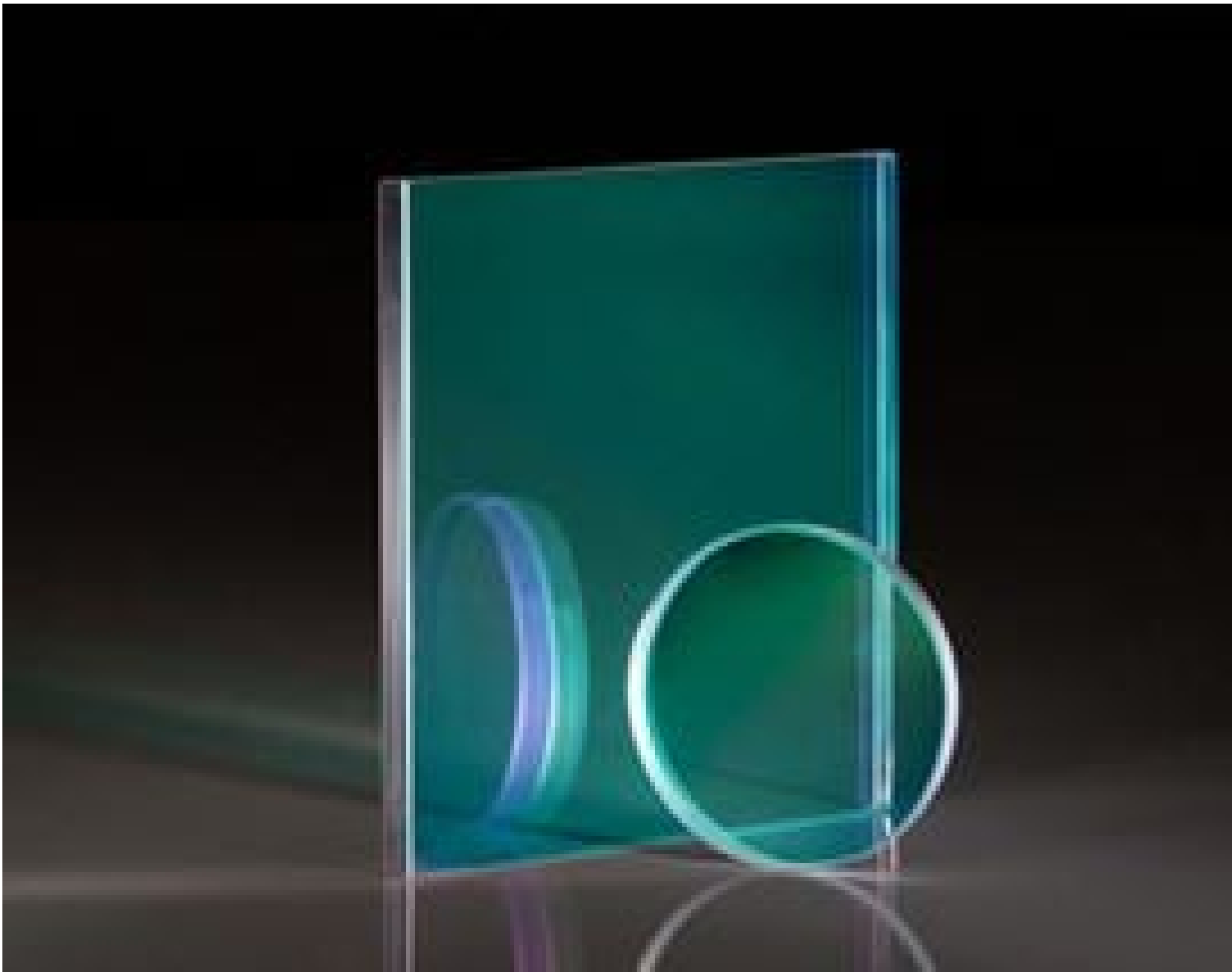
0° AOI, 50mm Dia, UV Hot Mirror



UV Hot Mirrors

Stock **#46-589** **11 In Stock**

- 1 + **₹17,983**

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Volume Pricing	
Qty 1-9	**₹17,983** each
Qty 10-25	**₹16,193** each
Qty 26-49	**₹15,414** each
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General

Type:

Shortpass Filter

Physical & Mechanical Properties

Diameter (mm):

50.00 ±0.25

Thickness (mm):

3.00 ±0.2

Clear Aperture (%):
90

Edges:
Ground

Optical Properties

Coating Type:
Dielectric

Coating:
Hot Mirror, 0°

Surface Flatness (P-V):
3 - 5λ

Wavelength Range (nm):
245 - 1050

Substrate:
Fused Silica (Corning 7980)

Angle of Incidence (°):
0

Coating Specification:
R_{avg} >70% @ 800 - 1050nm
T_{avg} >80% @ 245 - 460nm

Surface Quality:
80-50

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

Reach 247:
Compliant

Country of Origin:
United States

Imported By:
Edmund Optics India Private Limited

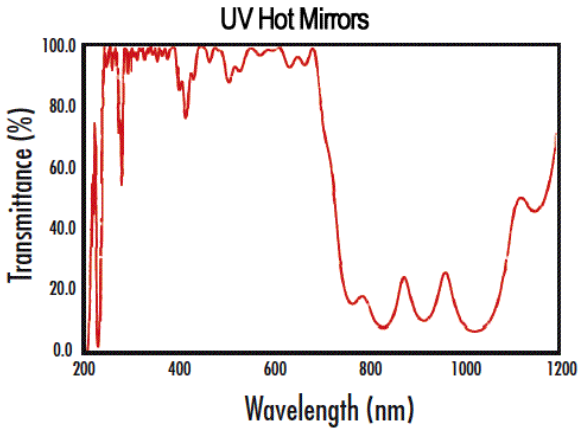
Product Details

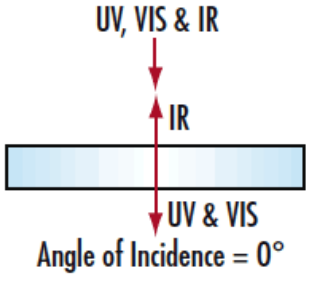
- Transmits 80% of UV and Visible Light
- Reflects 70% of IR Light
- Contact Us for Custom Sizes

Designed for a 0° angle of incidence, these UV Hot Mirrors' multi-layer dielectric coating reflects infrared radiation, limiting heat buildup, while allowing UV and visible light to pass through. The fused silica substrate's high transmission is ideal for projection and illumination systems, as well as in fluorescence applications that require the transmission of the UV excitation wavelength and the rejection of radiation harmful to temperature sensitive samples.

Hot mirrors are crucial in many projection and illumination systems where high levels of heat can quickly damage sensitive components. Hot mirrors are specially coated to transmit visible light while reflecting the NIR, a major attributor to heat generation. By using a hot mirror, heat levels are limited with minimum impact on the overall system performance.

Technical Information





Quote Your Size

Compatible Mounts

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