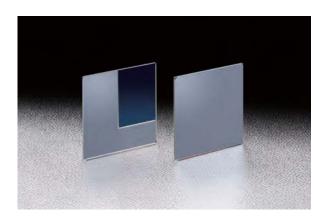


The principle of the cold mirror is reflecting the visible range light and leave the UV range light to transmit. It can separate the visible and the UV (heat) of the sunlight.

- Low absorption with a dielectric multi-layer coating using high transmittance glass material and it can be resistant to rapid change in high temperature.
- Using this produt it is possible to select IR light only.
- Can be used as a NIR filter by changing the angle of Incident.



Rear surface: Uncoated

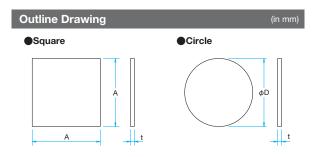
Specifications				
Material	B270 <sup>®</sup> (SuperWhite Glass) or BK7			
Incident angle	45°			
Wavelength Range	400 – 2000nm			
Surface Quality (Scratch-Dig)	80-50, 60-40 (CLDM-50S)			
Clear aperture	90% of external dimension of the square inscription circle			

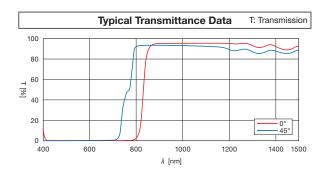
## Guide

- ▶B270® is a registered trademark of SCHOTT AG Inc.
- Different size, wavelength and deviation ratio not mentioned on-line or in our catalog are available as custom products upon on request.
- ▶ For a suitable filter holder, please contact our Sales Division.

## Attention

- ▶ Do not use cold mirror with high power laser and high energy pulsed laser. We can provide dichroic filters suitable for use with pulse lasers, please contact our Sales Division.
- ▶ The backside of the cold mirror is not coated with AR, please use the dielectric coating side for visible light incident. The backside may have 10% of loss of energy and the ghost image may occur.
- ▶ The visible light is reflected, the UV (heat) is transmitted, avoid blocking the transmitted light by a reflective element which may hold the heat.
- ▶ The reflecting light may be mixed with infrared if the incident angle is other than 45 degrees.





Square							
Part Number	Lerght A [mm]	Thickness t [mm]	High transmittance range (45 degrees incident) [nm]	Transmittance (45 degrees incident) [%]	Cutoff range (45 degrees incident) [nm]	Transmittance of cutoff range (45 degrees incident) [%]	Wavelength at 50% [nm]
CLDM-25.4S3.3	25.4±0.5	3.3±0.3	800 – 2000	>75	420 – 700	>95	760±10
CLDM-50.8S3.3	50.8±0.5	3.3±0.3	800 – 2000	>75	420 – 700	>95	760±10
CLDM-50S	50.0±0.3	1.0±0.1	800 – 2000	>80	400 – 700	>90	760±10

Circle										
Part Number	Diamefer φD [mm]	Thickness t [mm]	High transmittance range (45 degrees incident) [nm]	Transmittance (45 degrees incident) [%]	Cutoff range (45 degrees incident) [nm]	Transmittance of cutoff range (45 degrees incident) [%]	Wavelength at 50% [nm]			
CLDM-25.4S3.3	φ25.4±0.5	3.3±0.3	800 – 2000	>75	420 – 700	>95	760±10			
CLDM-50.8S3.3	φ50.8±0.5	3.3±0.3	800 – 2000	>75	420 – 700	>95	760±10			

## Compatible Optic Mounts

**Schematic** 

Front surface

Dielectric multi-laver coating



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Colored Glass

Dielectric Filters

Etalon