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Hot and Cold Mirrors

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Hot Mirrors are used in applications when there is the requirement to separate visible light from heat. The hot mirror accomplishes this by reflecting the heat. The use of Borosilicate type glass allows operation in high temperatures. Operation at an AOI of 0° is preferred. The most common wavelength range for an average transmission of 85% through the hot mirror is 420 - 700nm. The reflective range for the hot mirror for R>95% is 800 - 1000nm. Additionally, R>50% from 735 - 1080nm.

Cold Mirrors are used where the requirements are to reflect visible light and remove the heat by transmission. Operation at an AOI of 45° is preferred. The most common wavelength range for transmission through the cold mirror is 800 - 1200nm. The average transmission range is T>85%. Additionally, R>95% for 400 - 700nm.

Type	Model	AOI	Price
Cold	MC0-25.4	0	\$50
	MC0-50.8	0	\$61
	MC45-24.4	45	\$50
	MC45-50.8	45	\$61
Hot	MC0-25.4	0	\$53
	MC0-50.8	0	\$79
	MC45-24.4	45	\$54
	MC45-50.8	45	\$72

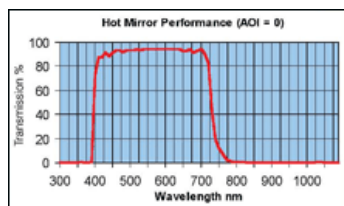
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Features of Hot Mirrors

- . High transmission for the visible range
- . High reflection for infrared
- . Removes heat
- . Uses Borofloat® type glass
- . Dielectric Coating
- . AOI's of 0° or 45°
- . Custom mirrors to your configuration

Typical Specifications - Hot Mirrors

Material: Borosilicate type Glass
 Size: 15mm to 300mm
 Thickness: 3.3mm
 Mirror coating: Dielectric multilayer
 Transmission: Tave>85% for 425 - 700nm
 Reflection: Rave>90% for 750 - 1050nm
 Surface Finish: 80-50
 Flatness: λ/2 @633nm per inch
 Protective Bevel: 0.3mm x 45°

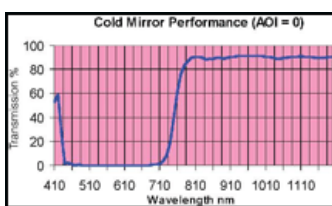


Features of Cold Mirrors

- . High reflection for the visible range
- . High transmission for infrared

Typical Specifications - Cold Mirrors

Material: Borosilicate type Glass
 Size: 15mm to 300mm
 Thickness: 3.3mm
 Mirror coating: Dielectric multilayer
 Transmission: Tave>85% for 750 - 1000nm
 Reflection: Rave>90% for 400 - 700nm
 Surface Finish: 80-50
 Flatness: λ/2 @633nm per inch
 Protective Bevel: 0.3mm x 45°



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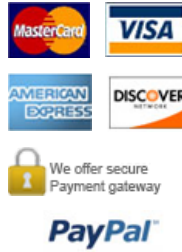
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