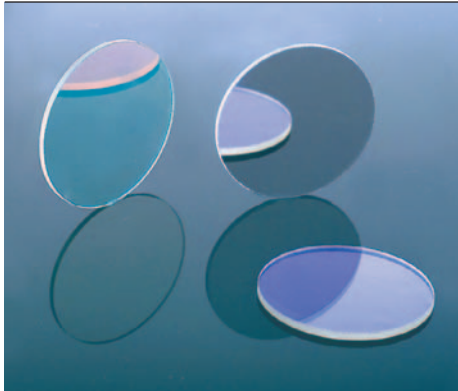


# Optics

- Optical Systems
- Free Space Isolators
- E-O Devices
- Spherical Singlets
- Multi-Element Lenses
- Cylindrical Lenses
- Aspheric Lenses
- Mirrors
- Diffusers & Lens Arrays
- Windows
- Prisms
- Gratings
- Polarization Optics
- Beamsplitters
- Filters & Attenuators
- Gas Cells



For applications where heat buildup is a concern, a 0° incidence hot mirror provides protection by reflecting the IR radiation light while transmitting visible light.

In direct contrast, cold mirrors, when placed at 45° with respect to the incident beam, transmit IR radiation while reflecting visible light.

- Hot Mirrors for Reflecting IR and Transmitting Visible Light
- Cold Mirrors for Transmitting IR and Reflecting Visible Light

## Hot & Cold Mirrors

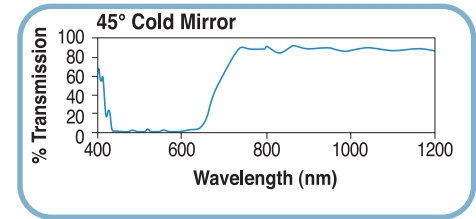
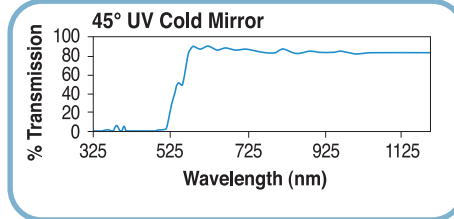
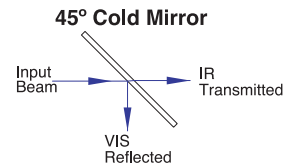
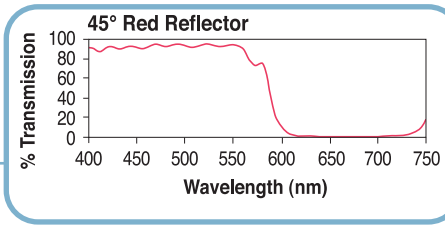
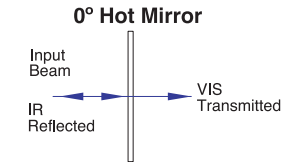
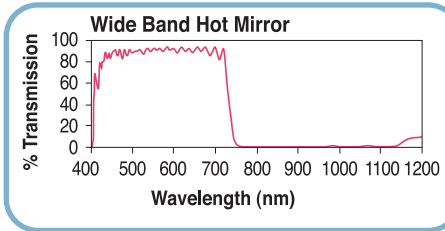
### Specifications

#### Wide Band Hot Mirror

- **Angle of Incidence:** 0°
- **50% Cutoff:** 720nm ± 25nm
- **Transmission:** >85% Average From 450 to 645nm
- **Reflection:** >90% Average From 750 to 1200nm

#### Red Reflector

- **Angle of Incidence:** 45°
- **50% Cutoff:** 580nm ± 15nm
- **Transmission:** >85% Average From 400 to 550nm
- **Reflection:** >90% Average From 610 to 725nm



## Interference & Colored Glass Filter Kits



**See page 876**  
for more details.

**Added Savings Over Buying  
The Individual Filters**

### Specifications

#### UV Cold Mirror

- **Angle of Incidence:** 45°
- **Transmission:** >85% Average From 600 - 1200nm
- **Reflection:** >90% Average From 325 - 475nm

#### Cold Mirror

- **Angle of Incidence:** 45°
- **Transmission:** >85% Average From 750 - 1200nm
- **Reflection:** >90% Average From 420 - 630nm
- **Flatness:** 3 - 4 Waves @ 633nm

ITEM#	\$	£	€	RMB	ANGLE OF INCIDENCE	NOMINAL THICKNESS	DIAMETER	DESCRIPTION
FM501	\$ 35.70	£ 22.50	€ 33,20	¥ 340.90	0°	1.0mm	Ø1/2"	Wide Band Hot Mirror
FM01	\$ 56.70	£ 35.70	€ 52,70	¥ 541.50	0°	1.0mm	Ø1"	Wide Band Hot Mirror
FM201	\$ 93.50	£ 58.90	€ 87,00	¥ 892.90	0°	1.0mm	Ø2"	Wide Band Hot Mirror
FM02	\$ 46.20	£ 29.10	€ 43,00	¥ 441.20	45°	1.0mm	Ø1"	Red Reflector
FM503	\$ 23.10	£ 14.60	€ 21,50	¥ 220.60	45°	1.0mm	Ø1/2"	Cold Mirror
FM03	\$ 31.50	£ 19.80	€ 29,30	¥ 300.80	45°	1.0mm	Ø1"	Cold Mirror
FM203	\$ 70.40	£ 44.40	€ 65,50	¥ 672.30	45°	1.0mm	Ø2"	Cold Mirror
FM504	\$ 28.40	£ 17.90	€ 26,40	¥ 271.20	45°	1.0mm	Ø1/2"	UV Cold Mirror
FM04	\$ 42.00	£ 26.50	€ 39,10	¥ 401.10	45°	1.0mm	Ø1"	UV Cold Mirror
FM204	\$ 81.90	£ 51.60	€ 76,20	¥ 782.10	45°	1.0mm	Ø2"	UV Cold Mirror