

# High Volume STOCK OPTICS

From **Design** to **Prototype**  
to **Volume Production**



**TECHSPEC® LENSES**



**TECHSPEC® PRISMS**



**TECHSPEC® FILTERS**

# LENSES

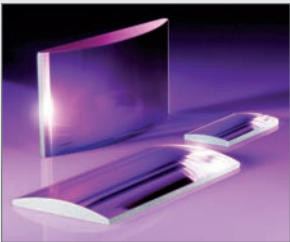


## PLANO-CONVEX (PCX) AND DOUBLE-CONVEX (DCX) LENSES

Plano-Convex Lenses feature a positive focal length and have one flat and one convex surface. They are ideal for collimation and focusing applications utilizing monochromatic illumination. Double-Convex Lenses feature a positive focal length and have 2 convex surfaces with equal radii. They are recommended for image relay, and for imaging of objects at close conjugates.

### PLANO CONVEX (PCX) AND DOUBLE-CONVEX (DCX) LENSES

	Size Range	Focal Length Range	Wavelength Range	Coating Options
Standard PCX and DCX	1 - 75mm	0.6 - 750mm	0.4 - 1.6 $\mu$ m	Uncoated or 5 AR Options
Laser PCX Lenses	6 - 50mm	6 - 750mm	0.2 - 2.2 $\mu$ m	Uncoated or 11 AR Options
UV Fused Silica PCX and DCX Lenses	6 - 50mm	9 - 400mm	0.2 - 2.2 $\mu$ m	Uncoated or 4 AR Options
Silicon (Si) PCX Lenses	25mm	25 - 250mm	1.2 - 7.0 $\mu$ m	Uncoated or 1 AR Option
Calcium Fluoride (CaF <sub>2</sub> ) PCX Lenses	12.7 - 50.8mm	18 - 150mm	0.193 - 7.0 $\mu$ m	Uncoated
Germanium (Ge) PCX Lenses	25 - 50mm	25 - 250mm	2.0 - 16.0 $\mu$ m	Uncoated or 3 AR Options
Germanium (Ge) Meniscus Lenses	25 - 50mm	25 - 100mm	2.0 - 16.0 $\mu$ m	Uncoated or 2 AR Options
Zinc Selenide (ZnSe) PCX Lenses	12.7 - 50.8mm	25.4 - 500mm	0.6 - 16.0 $\mu$ m	Uncoated or 1 AR Option

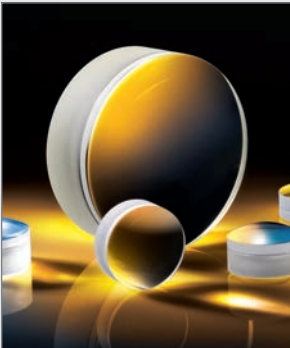


## CYLINDER LENSES

Cylinder Lenses have one flat and one cylindrical surface. They can have either positive or negative focal lengths. They are typically used to focus incoming light to a line, or to change the aspect ratio of an image.

### CYLINDER LENSES

	Size Range	Focal Length Range	Wavelength Range	Coating Options
Achromatic Cylinder Lenses	12.5mm	25 - 100mm	0.4 - 1.0 $\mu$ m	MgF <sub>2</sub> Coated
UV Fused Silica Cylinder Lenses	12.5 - 25mm	25 - 150mm	0.2 - 2.2 $\mu$ m	Uncoated or 1 AR Option
PCX Cylinder Lenses	5 - 50mm	6 - 150mm	0.4 - 1.6 $\mu$ m	Uncoated or 4 AR Options
Negative Cylinder Lenses	6.25 - 50mm	-6.25 to -150mm	0.4 - 1.6 $\mu$ m	Uncoated or 4 AR Option
Cylindrical Micro Lens Arrays	10 x 10mm	1.6 - 10.9mm	0.2 - 2.2 $\mu$ m	Uncoated



## ACHROMATIC DOUBLET LENSES

Achromatic Lenses consist of 2 optical components cemented together to reduce or eliminate spherical and chromatic aberration. Achromatic lenses will provide smaller spot sizes and superior image quality than a comparable singlet lens.

### ACHROMATIC DOUBLET LENSES

	Size Range	Focal Length Range	Wavelength Range	Coating Options
Standard Achromatic Lenses	1 - 128mm	1.5 - 1900mm	0.4 - 1.0 $\mu$ m	MgF <sub>2</sub> VIS 0° or VIS-NIR
Negative Achromatic Lenses	6.25 - 40mm	-7.5 to -150mm	0.4 - 0.7 $\mu$ m	MgF <sub>2</sub> VIS 0° or VIS-NIR
Triplet Achromatic Lenses	6.25 - 25mm	10 - 50mm	0.4 - 0.7 $\mu$ m	MgF <sub>2</sub>
Aspherized Achromatic Lenses	9 - 25mm	12 - 50mm	0.4 - 0.7 $\mu$ m	MgF <sub>2</sub> or VIS 0°
Near UV Achromatic Lenses	6.25 - 50mm	12.5 - 125mm	0.3 - 0.7 $\mu$ m	BBAR for 350 - 700nm
Ultraviolet Triplet Achromatic Lenses	30mm	36 - 180mm	0.2 - 2.2 $\mu$ m	Uncoated or MgF <sub>2</sub>
Near Infrared Achromatic Lenses	6 - 50mm	9 - 200mm	0.7 - 1.6 $\mu$ m	NIR II or SWIR
Mid Wave IR Achromatic Lenses	15 - 30mm	40 - 75mm	3.0 - 5.0 $\mu$ m	BBAR for 3 - 5 $\mu$ m
Long Wave IR Achromatic Lenses	30mm	40 - 75mm	8.0 - 12.0 $\mu$ m	BBAR for 8 - 12 $\mu$ m



## ASPHERIC LENSES

Aspheric Lenses feature one surface whose radius changes with distance from the optical axis. This unique feature allows aspheric lenses to eliminate spherical aberration and greatly reduce other aberrations when compared to a simple spherical lens, delivering improved optical performance.

### ASPHERIC LENSES

Description	Size Range	Focal Length Range	Wavelength Range	Coating Options
Precision Aspheric Lenses	10 - 50mm	9 - 50mm	0.4 - 1.6 $\mu$ m	Uncoated or 2 AR Options
UV Fused Silica Aspheric Lenses	15 - 50mm	12.5 - 60mm	0.2 - 2.2 $\mu$ m	Uncoated or 7 AR Options
Best Form Aspheric	25mm	25 - 100mm	0.532 - 1.064 $\mu$ m	3 AR Options
Achromatic Aspheric Lenses	9 - 25mm	12 - 50mm	0.4 - 0.7 $\mu$ m	MgF <sub>2</sub> or VIS Coated
Plastic Aspheric Lenses	10 - 25mm	9 - 75mm	0.4 - 1.2 $\mu$ m	Uncoated or 2 AR Options
Small Diameter Aspheric Lenses	1.8 - 9.9mm	0.7 - 22mm	0.4 - 1.6 $\mu$ m	Uncoated or 3 AR Options
Small Diameter IR Aspheric Lenses	3.5 - 6.5mm	1.5 - 4mm	2.0 - 14.0 $\mu$ m	Uncoated or 3 AR Options
Germanium (Ge) Aspheric Lenses	25mm	12.5 - 100mm	2.0 - 16.0 $\mu$ m	Uncoated or 2 AR Options
Zinc Selenide (ZnSe) Aspheric Lenses	25.4 - 50.8mm	12.7 - 50.8mm	0.6 - 16.0 $\mu$ m	Uncoated
Silicon (Si) Aspheric Lenses	25mm	25 - 50mm	1.2 - 7.0 $\mu$ m	Uncoated or 1 AR Option
IG6 Aspheric Lenses	25 - 50mm	12.5 - 50mm	1.0 - 12.0 $\mu$ m	Uncoated
Aspheric Cylinder Lenses	25mm	20 - 50mm	0.4 - 1.6 $\mu$ m	Uncoated or VIS Coated

For a **COMPLETE LISTING OF OUR LENSES**, go to [www.edmundoptics.com/lenses](http://www.edmundoptics.com/lenses)

# FILTERS

## BANDPASS INTERFERENCE FILTERS

Bandpass Filters selectively transmit a portion of the spectrum, while rejecting all other wavelengths. Our Bandpass Interference Filters are available in a variety of bandwidth options. Laser-Line Filters will typically have narrow (2 - 5nm) bandwidths. Fluorescence Filters have been specially designed to maximize the energy of the excitation and emission bands, and will thus have fairly broad (20 - 70nm) bandwidths. Our selection of 10nm filters for chemical, environmental, and elemental analysis is among the largest in the world. Traditionally coated evaporated filters offer excellent value, whereas hard coated filters offer increased performance and exceptional durability. Interference Filters are angle sensitive, so care should be taken when mounting and integrating into an optical system.

### BANDPASS INTERFERENCE FILTERS

	Center Wavelength Range	Optical Densities	Size Range
Fluorescence Bandpass Filters	340 - 832nm	$\geq 6$	12.5 - 50mm
Multi-Bandpass Filters	432 - 700nm	$\geq 6$	12.5 - 50mm
Hard Coated Bandpass Filters	300nm - 2 $\mu$ m	$\geq 4$	12.5 - 50mm
Traditional Coated Bandpass Filters	193nm - 10.6 $\mu$ m	$\geq 3, \geq 4$	12.5 - 50mm
Laser Line Clean-Up Filters	325 - 1064nm	$\geq 4, \geq 6$	12.5 - 50mm



## NOTCH FILTERS

Notch Filters selectively reject a portion of the spectrum, while transmitting all other wavelengths. Featuring dielectric coatings to reflect the laser wavelength, Notch Filters are available with different levels of blocking and transmission ranges to provide customers options on performance and value.

### NOTCH FILTERS

	Center Wavelength Range	Optical Densities	Size Range
Standard Notch Filters	355 - 1064nm	$\geq 4, \geq 6$	12.5 - 50mm
Multi-Yag Notch	355 - 1064nm	$\geq 6$	12.5 - 50mm

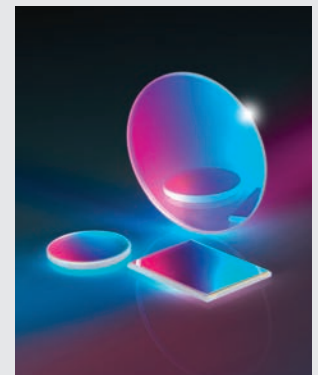


## EDGE AND DICHROIC FILTERS

Longpass Filters transmit wavelengths greater than the cut-on wavelength, while Shortpass Filters transmit wavelengths shorter than the cut-off wavelength. Dichroic Filters perform the same function, while guaranteeing that the rejected wavelengths are reflected.

### EDGE AND DICHROIC FILTERS

	Cut-On/Off Wavelength Range	Optical Densities	Size Range
Variable Edge Filters	300 - 845nm	$\geq 4$	15 x 60mm
Longpass Filters	266nm - 7.3 $\mu$ m	$\geq 2, \geq 4$	12.5 - 50mm
Shortpass Filters	400 - 1600nm	$\geq 2, \geq 4$	12.5 - 50mm
Dichroic Filters	400 - 1200nm	N/A	12.5 - 50mm
Fluorescence Dichroic Filters	403 - 801nm	N/A	12.5 - 300mm
Hot and Cold Mirrors	N/A	N/A	12.5 - 127mm
Mounted Edge Filters	400 - 1100nm	$\geq 2$	M22.5 x 0.5 - M30.5 x 0.5

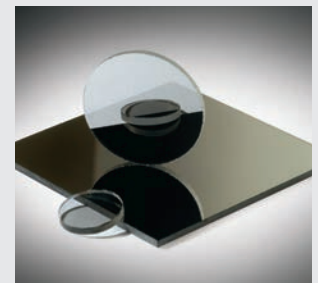


## NEUTRAL DENSITY FILTERS

Neutral Density (ND) Filters are designed to reduce transmission evenly across a portion of the spectrum. They perform this function by either absorbing or reflecting the portion of the light that is not transmitted. They can be designed for any portion of the UV, VIS or IR spectrum, and are commonly used to prevent over exposure of cameras and other detectors.

### NEUTRAL DENSITY FILTERS

	Wavelength Range	Optical Densities	Size Range
Absorptive ND Filters	VIS	0.1 - 3.0	12.5 - 50mm
Reflective ND Filters	UV, VIS, NIR, and IR	0.1 - 3.0	12.5 - 50mm
Non-Reflective ND Filters	VIS and NIR	0.3 - 3.0	12.5 - 25mm
Kodak Wratten ND Filters	VIS	0.1 - 4.0	12.5 - 300mm
Circular and Linear Variable ND Filters	VIS	0.04 - 4.0	25 - 100mm
Mounted ND Filters	VIS and NIR	0.1 - 3.0	M22.5 x 0.5 - M77.0 x 0.75



For a **COMPLETE LISTING OF OUR FILTERS**, go to [www.edmundoptics.com/filters](http://www.edmundoptics.com/filters)

# WINDOWS

- ◆ Understanding your Application Dictates Substrate Selection
- ◆ Wide Selection of Substrates and Coatings for UV, Visible and Infrared Applications
- ◆ Laser Line and Broadband AR Coatings also Available



## BARIUM, CALCIUM, AND MAGNESIUM FLUORIDE

### Applications:

- Low absorption and high damage threshold from 0.2 - 7  $\mu\text{m}$
- Spectroscopy, semiconductor processing and cryogenically cooled thermal imaging

### EO Advantage:

- 5 - 50mm sizes
- $\frac{1}{2}\lambda$  surface accuracy
- <1arcmin parallelism



## FUSED SILICA

### Applications:

- Low coefficient of thermal expansion and excellent transmission from UV to IR
- Interferometry, laser instrumentation, spectroscopy and industrial applications

### EO Advantage:

- 5 - 50mm sizes (UV grade) and 1" - 8" sizes (standard)
- UV, excimer and standard grade substrate
- High power laser line and broadband AR coatings



## N-BK7

### Applications:

- Low-cost substrate for visible and NIR applications
- Machine vision, microscopy, industrial applications

### EO Advantage:

- 5 - 75mm sizes
- <1arcmin parallelism
- $\text{MgF}_2$ , VIS-0°, VIS-NIR, and NIR I broadband coating options
- 7 Laser Line coatings between 405 - 1550nm



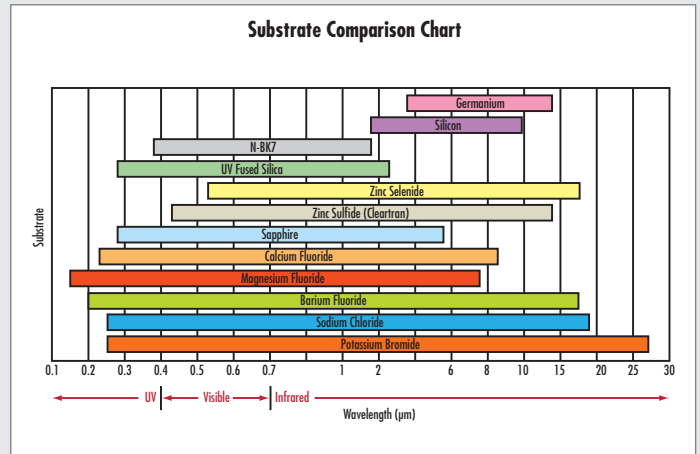
## SAPPHIRE

### Applications:

- Extremely hard and durable with good transmission from UV to IR
- IR laser systems, spectroscopy and rugged environmental equipment

### EO Advantage:

- 2.5 - 75mm diameter sizes
- <3.5arcmin parallelism
- $\frac{1}{4}\lambda$  surface accuracy options available



## SILICON

### Applications:

- Low cost and low density substrate for weight sensitive IR applications
- Spectroscopy, mid IR laser systems, THz imaging

### EO Advantage:

- 10 - 50mm sizes
- Optical grade substrate
- <3arcmin parallelism
- 3 - 5  $\mu\text{m}$  AR coating



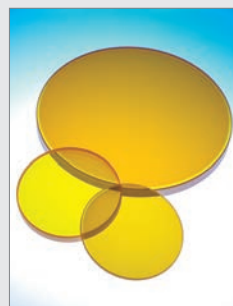
## GERMANIUM

### Applications:

- High index of refraction and knoop hardness with transmission in the mid and long wave IR
- Thermal imaging, FLIR and rugged IR applications

### EO Advantage:

- 10 - 75mm diameter sizes
- $\frac{1}{2}\lambda$  @ 10.6  $\mu\text{m}$  surface accuracy
- <1arcmin parallelism
- 3 - 5  $\mu\text{m}$ , 3 - 12  $\mu\text{m}$ , and 8 - 12  $\mu\text{m}$  AR coating options



## ZINC SELENIDE AND ZINC SULFIDE

### Applications:

- Low absorption coefficient and high resistance to thermal shock
- $\text{CO}_2$  laser systems and thermal imaging

### EO Advantage:

- 10 - 75mm diameter sizes
- $\frac{1}{2}\lambda$  @ 10.6  $\mu\text{m}$  surface accuracy
- Broadband AR coatings




For a **COMPLETE LISTING** OF OUR WINDOWS, go to [www.edmundoptics.com/windows](http://www.edmundoptics.com/windows)

# MIRRORS



- ◆ Easy Integration into a Variety of Applications from Laser Beam Steering to Machine Vision Inspection
- ◆ Coatings Optimized from UV to Long Wave IR
- ◆ Wide Range of Substrates and Sizes to Meet Every Application Need



Laser Mirrors	Size Range	Surface Accuracy	Substrates	Coating Options	
Laser-Line Mirrors	12.5 - 50mm	$\frac{1}{10}\lambda$	Fused Silica	Nd:YAG, Excimer, Argon-Ion, Diode	
Low Loss Laser Mirrors	25.4mm	$\frac{1}{6}\lambda$	Fused Silica	Nd:YAG, Ti:Sapphire	
Broadband Laser Mirrors	12.5 - 50.8mm	$\frac{1}{10}\lambda$	Fused Silica	UV, VIS, IR, Laser	
Gires-Tournois (GTI) Mirrors	25.4mm	$\frac{1}{6}\lambda$	Fused Silica	Yb:YAG, Yb:KGW	
Ultrafast Laser Mirrors	25.4mm	$\frac{1}{6}\lambda$	Fused Silica	Ti:Sapphire, Er:Glass, Ytterbium-Doped	
Precision Flat Mirrors	Size Range	Surface Accuracy	Substrates	Coating Options	
Optical Flat Mirrors	12.7 - 304.8mm	$\frac{1}{10}\lambda$ , $\frac{1}{20}\lambda$	Fused Silica, Zerodur	Aluminum, Gold, Silver	
Standard Flat Mirrors	Size Range	Surface Accuracy	Substrates	Coating Options	
Polished First Surface Mirrors	5 - 100mm	$\frac{1}{4}\lambda$ , $\frac{1}{6}\lambda$ , $\frac{1}{10}\lambda$	Float Glass, Fused Silica	Aluminum, Gold, Silver, Dielectric	
Float Glass First Surface Mirrors	5 - 408mm	4-6 $\lambda$	Float Glass	Aluminum, Gold	
Metal Substrate Mirrors	Size Range	Surface Accuracy	Substrates	Coating Options	
Metal Mirrors	25.4 - 76.2mm	$\frac{1}{4}\lambda$ RMS	Aluminum	Aluminum, Gold	
Off-Axis Parabolic Metal Mirrors	25.4 - 101.6mm	$\frac{1}{4}\lambda$ RMS	Aluminum	Aluminum, Gold	
Focusing Mirrors	Size Range	Surface Accuracy	Substrates	Coating Options	
Precision Parabolic Mirrors	76.2 - 412.8mm	$\frac{1}{6}\lambda$	Float Glass	Aluminum, Gold	
Off-Axis Parabolic Mirrors	25.4 - 101.6mm	$\frac{1}{4}\lambda$ , $\frac{1}{2}\lambda$ , $\frac{1}{4}\lambda$ RMS	Soda Lime, Aluminum	Aluminum, Gold	
Precision Spherical Mirrors	25.4 - 317.5mm	$\frac{1}{4}\lambda$ , $\frac{1}{6}\lambda$	Float Glass	Aluminum, Gold	
Specialty Mirrors	Size Range	Surface Accuracy	Substrates	Coating Options	
Rod and Cone Mirrors	1 - 15mm	$\frac{1}{2}\lambda$	N-BK7	Aluminum	
Right Angle Prism Mirrors	3 - 75mm	$\frac{1}{6}\lambda$	N-BK7	Aluminum, Gold, Silver, Dielectric	
Convex Spherical Mirrors	25 - 50mm	$\frac{1}{4}\lambda$	N-BK7	Aluminum, Gold, Silver	

For a **COMPLETE LISTING** OF OUR MIRRORS, go to [www.edmundoptics.com/mirrors](http://www.edmundoptics.com/mirrors)

# PRISMS



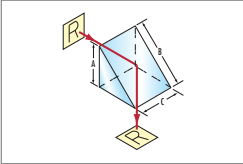
## RIGHT ANGLE PRISMS

### Applications:

- Deviate line of sight by  $90^\circ$
- Endoscopy, microscopy, laser alignment and medical instrumentation

### EO Advantage:

- 0.18 - 75mm sizes
- N-BK7, N-SF11, and UV fused silica substrates
- Standard to high tolerance offerings ( $\pm 5$ arcmin to  $\pm 15$ arcsec angle tolerance)
- Uncoated, multiple anti-reflection and metallic coating options



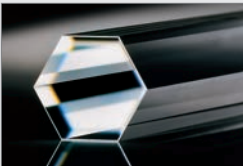
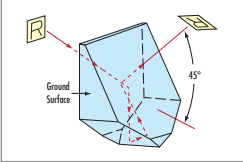
## SCHMIDT AND HALF PENTA PRISMS

### Applications:

- Deviate line of sight by  $45^\circ$  while inverting and reverting image
- Stereo microscopes and Pechan erector assemblies

### EO Advantage:

- 10 - 25mm sizes
- N-BK7 substrate
- Uncoated entrance/exit faces and protected aluminum and inconel roof coating options



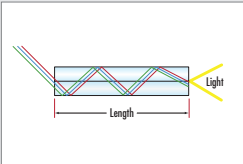
## LIGHT PIPE HOMOGENIZING RODS

### Applications:

- Homogenize non-uniform light sources
- LED illuminators, micro projectors and laser speckle reducers

### EO Advantage:

- 2 - 20mm entrance/exit aperture sizes, 25 - 300mm lengths
- N-BK7 and UV fused silica substrates
- Low, standard and high NA versions
- Hexagonal entrance/exit apertures



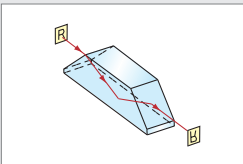
## DOVE AND RHOMBOID PRISMS

### Applications:

- Displace or rotate images
- Interferometry, astronomy binoculars and laser instrumentation

### EO Advantage:

- 0.5 - 50mm sizes
- N-BK7 substrate
- Uncoated, VIS  $0^\circ$  AR coating and protected aluminum metallic coating options



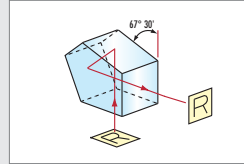
## PENTA PRISMS

### Applications:

- Deviate line of sight by  $90^\circ$  without inverting or reverting image
- Visual targeting, projection, measurement and display systems

### EO Advantage:

- 0.5 - 50mm sizes
- N-BK7 and UV fused silica substrates
- Standard and high tolerance offerings ( $\pm 3$ arcmin to  $\pm 1$ arcmin angle tolerance)
- Uncoated,  $\text{MgF}_2$ , VIS  $0^\circ$  and UV-AR coating options



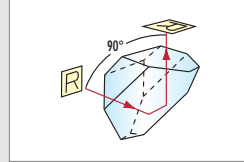
## AMICI ROOF PRISMS

### Applications:

- Deviate line of sight by  $90^\circ$  without reverting or inverting image
- Microscopes and telescope eyepieces

### EO Advantage:

- 9mm and 14mm sizes
- N-BK7 substrate
- 6arcsec resolution



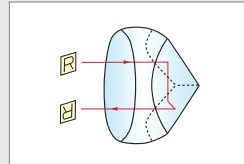
## TRIHEDRAL PRISMS (RETROREFLECTORS)

### Applications:

- Useful for alignment due to  $180^\circ$  beam reflection
- Interferometry, boresighting, rangefinding and laser tracking

### EO Advantage:

- 6.35 - 127.0mm sizes
- N-BK7 and UV fused silica substrates
- $\pm 1$ arcsec to  $\pm 30$ arcsec beam deviations
- Uncoated, aluminum, silver and gold coating options
- Unmounted, mounted and hollow versions



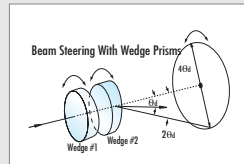
## WEDGE PRISMS

### Applications:

- Ideal for beam steering
- Tunable lasers and anamorphic imaging

### EO Advantage:

- $0.5^\circ$  -  $15.0^\circ$  nominal beam deviation
- N-BK7 and UV Fused Silica Substrates
- Uncoated, VIS  $0^\circ$ , UV-VIS, and VIS-NIR AR coating options



# BEAMSPLITTERS and POLARIZERS



## CUBE BEAMSPLITTERS

Cube beamsplitters, constructed using two right angle prisms, are available in sizes ranging from 5 to 50mm and offer easy integration with 0° angle of incidence. These Beamsplitters can be optimized for a wide range of applications including laser-line, high energy, non-polarizing, or polarizing applications.

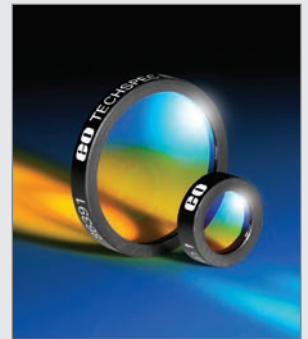
CUBE BEAMSPLITTERS			
	Size Range	Wavelength Range	R/T Ratio
Standard Cube Beamsplitters	5 - 50mm	400 - 700nm	30/70, 50/50, 70/30
Broadband Polarizing Cube Beamsplitters	5 - 50mm	420 - 1100nm	Reflect S / Transmit P
High Energy Polarizing Cube Beamsplitters	12.7mm	355 - 1064nm	Reflect S / Transmit P
Laser Line Polarizing Cube Beamsplitters	5 - 50mm	488 - 1064nm	Reflect S / Transmit P
Wire Grid Polarizing Cube Beamsplitters	25.4mm	400 - 700nm	Reflect S / Transmit P
Broadband Non-Polarizing Cube Beamsplitters	5 - 50mm	430 - 1620nm	50/50
Lateral Displacement Beamsplitters	10 - 20mm	430 - 1080nm	50/50



## PLATE BEAMSPLITTERS

Plate beamsplitters are available in a wide range of sizes, coatings, and substrates and offer a lightweight solution for a wide range of applications. Designed for 45° angle of incidence, these beamsplitters are available for applications from UV through Infrared.

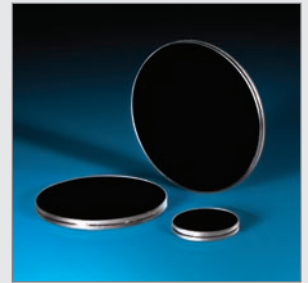
PLATE BEAMSPLITTERS			
	Size Range	Wavelength Range	R/T Ratio
Plate Beamsplitters	12.5 - 356mm	400 - 700nm	25/75, 30/70, 40/60, 50/50, 70/30, 75/25
UV Plate Beamsplitters	10 - 50mm	250 - 450nm	30/70, 50/50, 70/30
Elliptical Plate Beamsplitters	12.5 - 50mm	400 - 1100nm	50/50
Visible and NIR Plate Beamsplitters	12.5 - 75mm	400 - 1100nm	20/80, 30/70, 40/60, 50/50, 60/40, 70/30, 80/20
Infrared Plate Beamsplitters	25.4 - 50.8mm	2 - 14μm	50/50
Broadband Polarizing Plate Beamsplitters	12.5 - 25mm	420 - 670nm	Reflect S / Transmit P
Laser Line Non-Polarizing Plate Beamsplitters	12.5 - 50mm	355 - 1064nm	50/50
Polka-Dot Beamsplitters	12.7 - 50.8mm	250 - 2000nm	50/50
Pellicle Beamsplitters	25.4 - 152.4mm	400 - 700nm	8/92, 40/40, 33/67, 50/50
Multi-Edge Dichroic Filters	12.5 - 35.6mm	403 - 669nm	NA
Fluorescence Dichroic Filters	12.5 - 35.6mm	409 - 801nm	NA
Dichroic Laser Beam Combiners	12.5 - 50mm	427 - 659nm	NA



## POLARIZERS

Edmund Optics® offers a wide range of dichroic, crystalline, or wire grid polarizers for filtering, manipulating or creating polarized light. Linear and circular polarizers are available a wide range of sizes and wavelengths.

POLARIZERS		
	Size Range	Wavelength Range
Wire Grid Polarizers	12.5 x 12.5 - 50 x 50mm	300nm - 30μm
High Energy Laser Line Polarizers	12.5 - 50mm	355 - 1064nm
Ultrafast Thin Film Polarizers	25.4mm	750 - 1090nm
Linear Glass Polarizers	6.25 - 70mm	400 - 2000nm
High Contrast Nanoparticle Polarizers	12.5 - 25mm	365nm - 5μm
Wollaston and Rochon Polarizers	25.4mm	190nm - 4μm
Glan-Taylor, Glan-Laser & Glan-Thompson Polarizers	25.4mm	220nm - 2.2μm
Brewster Windows	10 - 25mm	633nm
Plastic Linear or Circular Polarizers	12.5 - 900 x 600mm	400 - 700nm
Linear or Circular Polarizing Film	25mm - 1000mm	400 - 700nm



## WAVEPLATES

Waveplates, also known as retarders, transmit light and modify its polarization state without attenuating, deviating, or displacing the beam.

WAVEPLATES		
	Size Range	Wavelength
Achromatic Waveplates	25.4 - 30mm	465 - 1650nm
Precision Achromatic Waveplates	25.4mm	485 - 1650nm
Zero Order Waveplates	12.7 - 50.8mm	266 - 1550nm
Precision Zero Order Waveplates	25.4mm	488 - 1550nm
Polymer Waveplates	25mm	405 - 650nm
Mid-Wave IR Waveplates	25.4mm	3 - 9μm



For a **COMPLETE LISTING** OF OUR BEAMSPLITTERS AND POLARIZERS, go to [www.edmundoptics.com/optics](http://www.edmundoptics.com/optics)

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83-979	+	+	+	+
49-270	+	+	+	+
49-271	+	+	+	+
49-272	+	+	+	+
49-273	+	+	+	+
60-702	+	+	+	+
60-724	+	+	+	+

**Coating Curve**

**VIS 0° (425-675nm) Anti-Reflection Coating Performance FOR REFERENCE ONLY**

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- Ray Deviation of 90°
- Right Handed Image
- Optical Tool for Defining a Right Angle
- Additional Penta Prism Options Available

Penta prisms are five-sided prisms featuring a ray deviation of 90° handed image. The reflecting surfaces are aluminized for increased movement of the prism does not affect the true right angle at which reflected, making a penta prism the ideal optical tool for defining optical system. TECHSPEC® N-BK7 Penta Prisms are made from use in a variety of visible light applications.

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