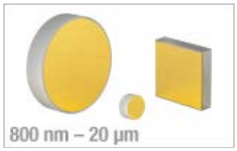
Search Results



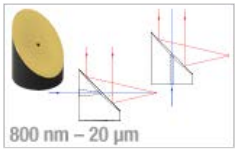
Unprotected Gold Mirrors

Category: Plano Metallic Mirrors

- Round Unprotected Gold Mirrors
- Square Unprotected Gold Mirrors

Show Product Results in this Family

Vote on Relevancy:



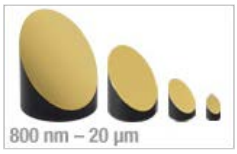
Off-Axis Parabolic Mirrors with Through Holes, Unprotected Gold

Category: Off-Axis Parabolic Mirrors

- Ø2" 90° Off-Axis Parabolic Mirrors with Through Holes
- Ø3" 90° Off-Axis Parabolic Mirror with Through Hole

Show Product Results in this Family

Vote on Relevancy:



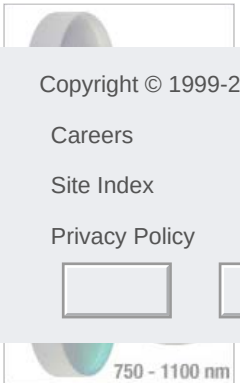
Off-Axis Parabolic Mirrors, Unprotected Gold Coating (0.8 - 20 µm)

Category: Off-Axis Parabolic Mirrors

- Ø2" 90° Off-Axis Parabolic Mirrors, Unprotected Gold Coating
- Ø1/2" 90° Off-Axis Parabolic Mirrors, Unprotected Gold Coating
- Ø1" 90° Off-Axis Parabolic Mirrors, Unprotected Gold Coating
- Ø3" 90° Off-Axis Parabolic Mirror, Unprotected Gold Coating

Show Product Results in this Family

Vote on Relevancy:

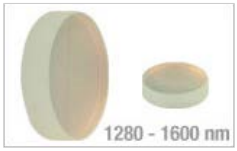


Concave Mirrors: UV Broadband Dielectric Coating (350 - 400 nm)

Vote on Relevancy:

- Ø1/2" Broadband Dielectric Concave Mirrors (750 - 1100 nm)
- Ø1" Broadband Dielectric Concave Mirrors (750 - 1100 nm)
- Ø2" Broadband Dielectric Concave Mirrors (750 - 1100 nm)
- Ø75 mm Broadband Dielectric Concave Mirrors (750 - 1100 nm)

Show Product Results in this Family



Concave Mirrors: IR Dielectric Coating (1280 - 1600 nm)

Category: Concave Mirrors

- Ø1/2" (12.7 mm) Broadband Dielectric Concave Mirrors (1280 - 1600 nm)
- Ø1" (25.4 mm) Broadband Dielectric Concave Mirrors (1280 - 1600 nm)
- Ø2" (50.8 mm) Broadband Dielectric Concave Mirrors (1280 - 1600 nm)
- Ø75 mm Broadband Dielectric Concave Mirrors (1280 - 1600 nm)

Show Product Results in this Family

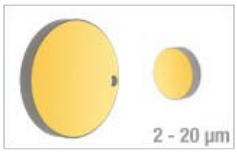
Vote on Relevancy:

Concave Mirrors for Herriott Cells (2 - 20 µm)

Category: Concave Mirrors

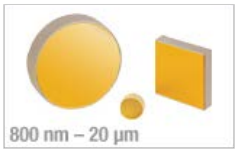
- Herriott Cell Mirrors: No Hole

Vote on Relevancy:



- Herriott Cell Mirrors: Center Hole
- Herriott Cell Mirrors: Off-Axis Hole

Show Product Results in this Family



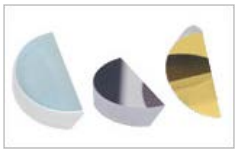
Protected Gold Mirrors

Category: Plano Metallic Mirrors

- Round Protected Gold Mirrors
- Square Protected Gold Mirrors

Show Product Results in this Family

Vote on Relevancy:



D-Shaped Pickoff Mirrors

Category: Optical Mirrors

- Silver D-Shaped Mirrors (450 nm - 20 µm)
- Gold D-Shaped Mirrors (800 nm - 20 µm)
- UV-Enhanced Aluminum D-Shaped Mirrors (250 - 450 nm)
- E02 Broadband Dielectric D-Shaped Mirrors (400 - 750 nm)
- E03 Broadband Dielectric D-Shaped Mirrors (750 - 1100 nm)

Show Product Results in this Family

Vote on Relevancy:

Nd:YAG Laser Line Mirrors

Category: Laser Line Mirrors

- Nd:YAG Laser Mirrors, Fundamental and 2nd Harmonic (Dual Order)
- Nd:YAG Laser Mirrors, Fundamental
- Nd:YAG Laser Mirrors, 2nd Harmonic
- Nd:YAG Laser Mirrors, 3rd Harmonic
- Nd:YAG Laser Mirrors, 4th Harmonic

Show Product Results in this Family

Vote on Relevancy:

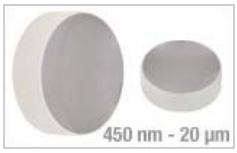
UV-Enhanced Aluminum Mirrors

Category: Plano Metallic Mirrors

- Round UV-Enhanced Aluminum Mirrors
- Square UV-Enhanced Aluminum Mirrors

Show Product Results in this Family

Vote on Relevancy:



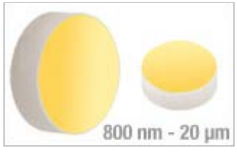
Concave Mirrors: Protected Silver (450 nm - 20 µm)

Category: Concave Mirrors

- Ø1" Protected Silver-Coated Concave Mirrors: 450 nm - 20 µm
- Ø2" Protected Silver-Coated Concave Mirrors: 450 nm - 20 µm
- Ø1/2" Protected Silver-Coated Concave Mirrors: 450 nm - 20 µm
- Ø75 mm Protected Silver-Coated Concave Mirrors: 450 nm - 20 µm

Show Product Results in this Family

Vote on Relevancy:



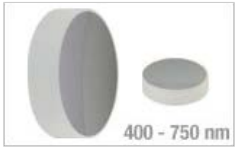
Concave Mirrors: Protected Gold (800 nm - 20 µm)

Category: Concave Mirrors

- Ø1/2" Gold-Coated Concave Mirrors: 800 nm - 20 µm
- Ø1" Gold-Coated Concave Mirrors: 800 nm - 20 µm
- Ø2" Gold-Coated Concave Mirrors: 800 nm - 20 µm
- Ø75 mm Gold-Coated Concave Mirrors: 800 nm - 20 µm

Show Product Results in this Family

Vote on Relevancy:



Concave Mirrors: Visible Dielectric Coating (400 - 750 nm)

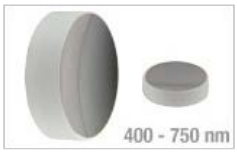
Category: Concave Mirrors

- Ø1" Broadband Dielectric Concave Mirrors (400 - 750 nm)
- Ø1/2" Broadband Dielectric Concave Mirrors (400 - 750 nm)
- Ø2" Broadband Dielectric Concave Mirrors (400 - 750 nm)
- Ø75 mm Broadband Dielectric Concave Mirrors (400 - 750 nm)

Show Product Results in this Family

Vote on Relevancy:

Vote on Relevancy:



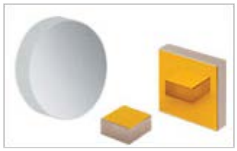
Concave Mirrors: Visible Dielectric Coating (400 - 750 nm), Back Side Polished

Category: Concave Mirrors

- Ø1/2" Broadband Dielectric Concave Mirrors (400 - 750 nm), Back Side Polished
- Ø1" Broadband Dielectric Concave Mirrors (400 - 750 nm), Back Side Polished

Show Product Results in this Family

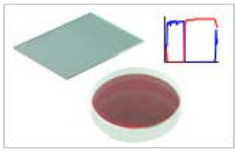
Content Based Search Results



Plano Metallic Mirrors
High-quality, metal-coated optical mirrors are available for use with light throughout the UV, VIS, and IR spectral regions. Their relatively wide bandwidth and high reflectivity makes mirrors with metallic coatings ideal for applications like spectroscopy. We also offer silver-coated mirrors specifically designed for ultrafast applications in the fundamental wavelength range of femtosecond Ti:Sapphire lasers and gold-coated mirrors for CO_2 experiments....

Aluminum-Coated Plano Mirrors

- Protected Aluminum Mirrors



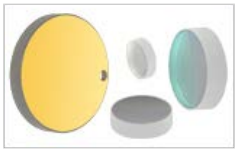
Hot and Cold Mirrors
Thorlabs' line of hot and cold mirrors are ideal for use in situations where heat could severely damage an experimental setup. Our soda-lime mirrors are available in Ø1", Ø2", and 25 mm x 36 mm sizes. Our UV fused silica mirrors offer increased transmission and reflectance, a lower coefficient of thermal expansion, and are wedged to reduce ghosting....

UV Fused Silica Hot / Cold Mirrors

- Hot and Cold Mirrors: UV Fused Silica Substrate

Soda-Lime Hot / Cold Mirrors

- Hot and Cold Mirrors: Soda-Lime Glass Substrate



Concave Mirrors
Thorlabs has a wide selection of spherical concave mirrors with metallic or dielectric coatings that together span the 250 nm - 20 µm spectral range, with focal lengths from 9.5 mm to 1000 mm. Our mirrors with dielectric coatings offer >99% average reflectance in the 350 - 400 nm, 400 - 750 nm, 750 - 1100 nm, or 1280 - 1600 nm spectral ranges. Back side polished mirror options are also available for the dielectric coating ranges of 400 - 750 nm and 750 - 1100 nm. Our mirrors with metallic coatings are offered in UV enhanced aluminum (250 - 450 nm), protected aluminum (450 nm - 2 µm), protected silver (450 nm - 2 µm), protected gold (800 nm - 20 µm), and mid-infrared enhanced gold for Herriott cell mirrors (2 - 20 µm). We also offer crystal-coated concave mirrors with extremely high reflectance at 1064 nm or 1550 nm with 1 m radii of curvature....

UV-Enhanced Aluminum-Coated Concave Mirrors

- Concave Mirrors: UV-Enhanced Aluminum (250 - 450 nm)

Dielectric-Coated Concave Mirrors

- Concave Mirrors: UV Broadband Dielectric Coating (350 - 400 nm)

VIS Dielectric Concave Mirrors

- Concave Mirrors: Visible Dielectric Coating (400 - 750 nm)

NIR Dielectric Concave Mirrors

- Concave Mirrors: NIR Dielectric Coating (750 - 1100 nm)

IR Dielectric Concave Mirrors

- Concave Mirrors: IR Dielectric Coating (1280 - 1600 nm)

Silver-Coated Concave Mirrors

- Concave Mirrors: Protected Silver (450 nm - 20 µm)

Gold-Coated Concave Mirrors

- Concave Mirrors: Protected Gold (800 nm - 20 µm)

Metallic-Coated Concave Mirrors

- Concave Mirrors: Protected Aluminum (450 nm - 20 µm)

Optical Mirrors
Thorlabs' optical mirrors are available for use with light in the UV, VIS, and IR spectral regions. Optical mirrors with a metallic coating have high reflectivity over the widest spectral region, whereas mirrors with a broadband dielectric coating have a narrower spectral range of operation; the average reflectivity throughout the specified region is greater than 99%. Hot, cold, backside polished, ultrafast, D-shaped, elliptical, parabolic, concave, crystalline, and laser line dielectric-coated optical mirrors are available for more specialized applications....

Cylindrical Concave Mirrors

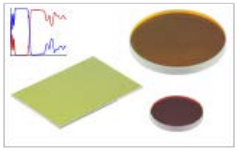
- Metal-Coated Concave Cylindrical Mirrors

D-Shaped Mirrors

- D-Shaped Pickoff Mirrors

Elliptical Mirrors

- Elliptical Mirrors



Dichroic Beamsplitters
Dichroic beamsplitters offer a splitting ratio that is dependent on the wavelength of the incident light. They are useful for combining / splitting laser beams of different color....

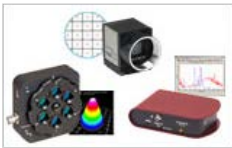
Dichroic Mirrors / Beamsplitters

- Longpass Dichroic Mirrors/Beamsplitters

Harmonic Beamsplitters for Nd:YAG

- Harmonic Beamsplitters for Nd:YAG Wavelengths

Beam Characterization
Thorlabs offers a wide range of products that can be used for beam characterization. Properties such as intensity, degree of collimation, power, wavefront shape, and spectral properties can be measured....



M 2 Beam Analysis System

- Complete M² Measurement Systems

Right-Angle Prism Mirrors
Thorlabs offers hypotenuse-coated right-angle prism mirrors, which are also known as turning mirrors. Each mirror's hypotenuse is coated with either a broadband dielectric, metallic, or laser line coating. A variety of sizes are available, as well as prisms that come pre-mounted in a 16 mm cage, Ø1/2" lens tube, or 30 mm cage Ø1" lens tube compatible housing. We also offer leg-coated right-angle prism mirrors with dielectric coatings for use in optical delay lines. Our knife-edge right-angle prism mirrors have metallic coatings and clear apertures that extend across the 90° angle between the coated surfaces. Finally, Thorlabs offers retroreflecting hollow roof prism mirrors with metallic coatings that redirect an incoming beam 180° back towards the source....

16 mm Cage Cube-Mounted Turning Mirrors

- 16 mm Cage Cube-Mounted Turning Prism Mirrors

Cube-Mounted Turning Prism Mirrors

- 30 mm Cage Cube-Mounted Turning Prism Mirrors

Turning Prism Mirrors

- Right Angle Prism Mirrors, Metallic Coatings

Knife-Edge Right-Angle Prism Mirrors

- Knife-Edge Right-Angle Prism Mirrors

Kinematic Mounts for Round Optics
For round optics, we offer a variety of kinematic mounts including our ultra-stable Polaris Mirror Mounts. These industry-leading mirror mounts are engineered for demanding applications that require extremely high stability....

Standard, 2 Adjuster Kinematic Mirror Mounts

- Ø1" Kinematic Mirror Mount

Off-Axis Parabolic Mirrors
Thorlabs' off-axis parabolic mirrors are available with one of four coatings: UV-enhanced aluminum (250 - 450 nm), protected aluminum (450 nm - 20 µm), protected silver (450 nm - 20 µm), and protected or unprotected gold (800 nm - 20 µm). They are designed to focus or collimate broadband light....

90° UV-Enhanced Aluminum OAPs

- Off-Axis Parabolic Mirrors, UV-Enhanced Aluminum Coating (250 - 450 nm)

Off-Axis Parabolic Mirrors with Holes

- Off-Axis Parabolic Mirrors with Through Holes, Protected Silver

90° Protected Aluminum OAPs

- Off-Axis Parabolic Mirrors, Protected Aluminum Coating (450 nm - 20 µm)

90° Protected Silver OAPs

- Off-Axis Parabolic Mirrors, Protected Silver Coating (450 nm - 20 µm)

OAPs with Holes Parallel to Collimated Beam

- Off-Axis Parabolic Mirrors with Through Holes, Protected Gold

90° Protected Gold Off-Axis Parabolic Mirrors

- Off-Axis Parabolic Mirrors, Protected Gold Coating (0.8 - 20 µm)

Optics for Microscopy
Thorlabs' selection of optics includes objectives, imaging GRIN lenses, condensers, fluorescence filters, an IR blocking filter, dichroic mirrors, dispersion-compensating mirrors, and other common components that condition and direct the light in a microscope's optical pathways. We provide many popular Nikon and Olympus objectives with same-day shipping....

25 mm x 36 mm Plate Beamsplitters

- 25 mm x 36 mm Plate Beamsplitters

Optical Prisms
Thorlabs' optical prisms are useful for a wide range of applications. Our extensive collection of optical prisms includes various shapes and configurations, such as right-angle, dispersing, roof, dove, retro-reflecting, penta, and wedge prisms as well as hexagonal light mixing rods....

Right-Angle Prisms

- Right-Angle Prisms

Ultrafast Mirrors for Pulsed Lasers
Thorlabs offers several types of ultrafast mirrors for use with femtosecond and picosecond pulsed lasers. Our Low Group Delay Dispersion (GDD) mirrors are optimized for low dispersion and >99% reflectance when used with Ti:Sapphire, Ytterbium (Yb), Neodymium (Nd), Thulium (Tm), or Holmium (Ho) lasers. For picosecond Yb lasers, we offer high-power mirrors featuring dielectric coatings with high laser damage threshold values. The chirped mirrors are designed specifically to correct for phase distortions that occur when ultrashort pulses travel through an optical system, correcting dispersion. The Dual-Band Dielectric Mirror has a specialty coating that maximizes the reflectance of the mirror at both 400 nm and 800 nm. Finally, we offer Protected Silver Mirrors with >95% average reflectance from 450 nm - 20 µm....

Low-GDD Dielectric Mirror, 400 and 800 nm

- Dual-Band Specialty Dielectric Mirror: 400 nm and 800 nm

Low GDD Mirrors, 970 nm - 1150 nm

- Low GDD Ultrafast Mirrors for 970 nm - 1150 nm

Low GDD Mirrors, 700 nm - 930 nm

- Low-GDD Ultrafast Mirrors for 700 - 930 nm

Mirror Blanks
Thorlabs fused silica and Zerodur® mirror blanks are designed to be used as front-surface mirrors when coated. Zerodur offers a very low coefficient of thermal expansion, ideal for applications that are sensitive to thermally induced beam drift. All of our mirror blanks offer a surface quality of 10-5 scratch-dig and a flatness of

<λ/10....

Fused Silica Mirror Blanks

- Fused Silica Mirror Blanks

Reflective Collimators
These reflective collimators are based on a 90° off-axis parabolic mirror, which have a focal length that remains constant over a broad wavelength range. They are available with either a UV-enhanced aluminum coating, for high reflectivity in the 250 nm to 450 nm wavelength range, or a protected silver coating, for high reflectivity in the 450 nm to 20µm wavelength range. All reflective collimator options are available with FC/PC, FC/APC, or SMA connectors....

UV-Enhanced Aluminum Reflective Collimators

- Reflective Collimators, UV-Enhanced Aluminum Coating

Reflective Collimators

- Reflective Collimators, Protected Silver Coating

Galvanometers
Thorlabs offers Galvo Mirror Systems in both packaged scan heads and open-frame designs. The selection accepts input beam diameters ranging from <5 mm to 45 mm. Choose from 1-, 2-, or 3-axis scanning options as well as your choice of mirror coating, including metallic silver, metallic gold, broadband dielectric, and dielectric for Nd:YAG or CO_2....

1-Axis Galvos: Up to ±40° Scan Angle

- Large Beam Diameter Single-Axis Scanning Galvo Systems

2-Axis Galvos: Scan Up to ±31° X & ±40° Y

- Large Beam Diameter Dual-Axis Scanning Galvo Systems

Femtosecond Lasers
Thorlabs' femtosecond lasers consists of both free-space and fiber-pigtailed lasers. For free-space applications, we offer the Octavius® Ti:Sapphire Laser, Tiberius® Tunable Ti:Sapphire Laser, Y-Fi™ Femtosecond Ytterbium Fiber Laser, Y-Fi™ Optical Parametric Amplifier (OPA), the 1.3 µm to 4.5 µm Supercontinuum Source and the 1550 nm Femtosecond Fiber Laser. Completing this laser family is the 2 µm Femtosecond Fiber Laser, which features a pigtailed, FC/APC-terminated delivery fiber.

A variety of accessories are available for use with femtosecond laser sources. Our Femtosecond Autocorrelator and Femtosecond Pulse Compressor are recommended for use with our Ti:sapphire lasers. Our supercontinuum generation kit spectrally broadens fs pulses near 800 nm. We also offer ultrafast optics, a dispersion measurement system, optical delay lines, and dispersion-compensating fiber.

Menlo Systems, a strategic partner of Thorlabs, offers several fiber-based femtosecond laser systems. These systems are capable of pulse widths in the tens of femtoseconds with wavelengths in the visible and IR. Menlo Systems' lasers are commonly used for high-speed spectroscopy, optical metrology, and attosecond pulse generation. ...

Femtosecond Pulse Compressor

- Femtosecond Pulse Compressor

Microscopy Illumination Sources
Our LEDs and liquid light guides are ideal for epi-fluorescence imaging. Our wide selection includes excitation wavelengths ideally matched to AlexaFluor dyes, DAPI, and other common fluorophores, as well as options for the newest fluorescent proteins that emit in the near-IR (700 nm and beyond). For microscopy applications, Thorlabs has designed specialty light sources. These include collimated LEDs, multi-wavelength LED sources, and broadband lamp-based light sources....

4-Channel Collimated LED Source

- 4-Wavelength High-Power LED Source

Legend: Customer Inspired Product Released in Last 90 Days Packed Under the Smart Pack Initiative