OPTICS FOR SOLAR & ENVIRONMENTALLY FRIENDLY APPLICATIONS

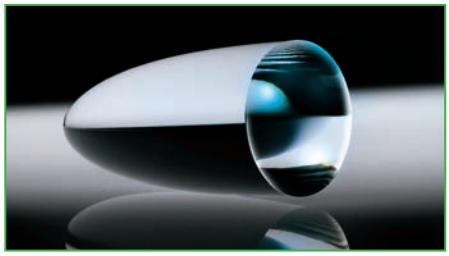
- Components for Collecting and Focusing Solar Energy
- Components for Advancing LED Technology
- Unique Optical Designs for Researchers and OEMs
- Customized Solutions Available

Edmund Optics® offers a variety of components for "green" applications. Whether your project is in the early stages of Research and Development or you are ready for full-scale product launch, we are able to provide unique components that may pave the way for a greener tomorrow. From large Fresnel or glass condenser lenses to a variety of cold coated optics, many of our components have been used in photovoltaic applications for years.

We are also proud to offer components that may help advance LED technology and integration. Our families of homogenizing rods, for instance, enable impressive color-mixing of individual LED chips. With appropriate color-mixing, LEDs are making inroads into applications and environments formerly dominated by Halogens, Fluorescents, and Incandescent solutions.

Our understanding of the components and the market makes us uniquely suited as a manufacturing partner for your green optical component needs.

SEND US A PRINT OR GIVE US A CALL TO DISCUSS YOUR OPTICAL COMPONENT NEEDS WITH ONE OF OUR EXPERIENCED ENGINEERS.

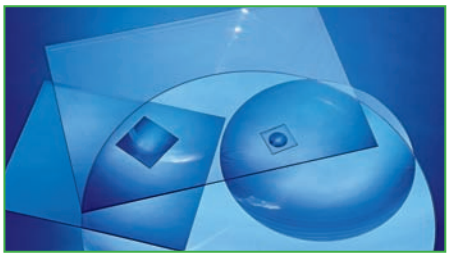


COMPOUND PARABOLIC CONCENTRATOR LENS

- Wide Acceptance Angle
- Low Cost, Molded Design
- BBAR Coated for Enhanced Efficiency

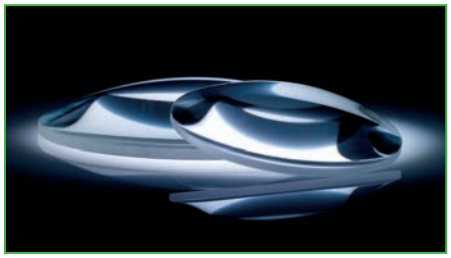
ELLIPSOIDAL REFLECTORS

- Metal & Cold Mirror Coatings Available
- Precision Polished Substrates
- 5 Diameters Available



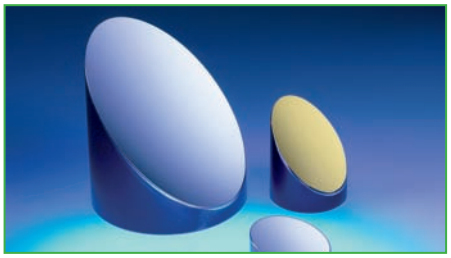
FRESNEL LENSES

- Standard & Aspherical Designs
- Infrared Versions Available for Thermal Applications
- Wide Variety of Sizes & Focal Lengths



LARGE PCX CONDENSER LENSES

- Polished Glass Substrates
- 100 – 200mm Diameters; Variety of Focal Length Options
- Low Cost



OFF-AXIS PARABOLIC MIRRORS

- 30°, 60°, or 90° Off-Axis
- Thermally Stable Aluminum Substrate
- Wide Variety of Sizes & Focal Lengths

LIGHT PIPE HOMOGENIZING RODS

- Ideal for Color Mixing of Individual LEDs or LED Channels
- Available for a Variety of Numerical Apertures
- Glass or Fused Silica Versions Available

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SOLAR CELL & WAFER INSPECTION

As a world leader in the design of precision imaging lenses, Edmund Optics® is uniquely suited to be your partner in development and deployment of wafer and solar cell inspection systems. We have decades of experience in designing high resolution, high throughput lenses for large format sensors.

- Large Format Lenses for Solar Cell Inspection Capable of Identifying Defects as Small as 5µm on a 5" Field of View
- Variety of Zoom Lenses for Wafer-level Inspection
- Vision Integration Partners for Complete System Development and Integration

TECHSPEC® Large Format Lenses

Designed for large format (up to 90mm) area and line scan sensors, these lenses are well suited for final inspection of solar cells. Available in magnifications of 0.7X or 1.4X, the lenses feature a variety of mounting options, full 50mm of focus, low dispersion glass, and high illumination throughput.

TECHSPEC® VZM™ Zoom Lenses

Ideal for wafer-level inspection, our VZM family features an array of magnification and resolution options. The 100i, 200i, 300i, and 1000i feature a 4X zoom range, with magnification ranges from 0.25X to 1X up to 2.5X to 10X. The 450i and 650i feature a 6X zoom range with magnification up to 6X. All lenses support up to a ⅔" sensor.

Long Working Distance Objectives

For fine inspection at the wafer level, our infinity-corrected long working distance objectives are an ideal choice. With magnifications available from 2X to 100X, the objectives feature a diffraction-limited design and common mounting interface. Economically priced, the objectives may be used with Mitutoyo-compatible tube lenses, zoom lenses, and microscope bodies.

VISION INTEGRATION PARTNERS

Vision Integration Partners

Need help designing an inspection system? We work with a select group of Vision Integration Partners for full-scale system design and deployment. Services include complete design (optics, hardware, software, and illumination) as well as on-site support and system integration.

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