

Lens Arrays

Reflexite uses our core competencies of optical engineering, microreplication, and polymer processing to provide microstructured polymeric optical components for the *Management of Light®*. We have the capabilities to design, tool, and fabricate lens arrays for a number of applications. These arrays can be constructed using spherical, aspherical, cylindrical or Fresnel elements. We can also provide diffractive lens elements.

Our Reflexite Display Optics business makes lens arrays for applications ranging from the very small microlens arrays to the very large Fresnel lens arrays.



Microlens Array



Photovoltaic Solar Collector

A growing number of applications require lens arrays. One such array is the fly's eye integrator used to help provide uniform illumination for both front and rear projection display systems. Reflexite Display Optics has made many fly's eye integrators for these applications.



In addition, LED illumination systems require lens arrays, as required in signal lights.

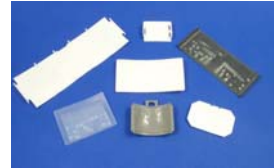


LED Traffic Signal



LED Signal Design Schematic

Reflexite designs and fabricates lens arrays used in the Passive Infrared (PIR) sensor industry.

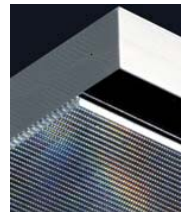


Variety of PIR Lens Arrays



Security Lights Using PIR Lens Arrays

Reflexite designs and produces prismatic arrays and crossed prismatic arrays used for highly engineered architectural lighting applications.



Prism Bonded to Waveguide



Light Fixture with Specified Outputs

Reflexite continues to design custom prismatic, lenticular, and cylindrical arrays for customers' unique applications.



Fresnel Cylindrical Lens Array



Fresnel Lens Array

If you have a need for polymeric microstructured optical components, Reflexite Display Optics should be your first stop. We can design, tool, fabricate, and finish the appropriate lens array for your unique application.