

**ATR Hemispheres** (hyperhemispheres are also available)

**Laser Optex** offers the largest selection of ATR plates commonly referred to as IRE - internal reflection elements. Geometries include trapezoids, parallelograms, hemispheres and rods. Request a catalog for a complete schedule.

The following materials are representative but not limited to:

Ge Germanium, Si Silicon, ZnSe Zinc Selenide

The materials processed meet strict quality control standards with spectral characteristics meeting or exceeding the performance requirements. Custom components are encouraged and available upon request; mechanical drawings with specifications and tolerances are prerequisite.

**Specification**

<b>Diameter Tolerance</b>	<b>+0,000" -0,005"</b>
<b>Thickness Tolerance</b>	<b>+0,005" -0,010"</b>
<b>Surface figure</b>	<b>1/2 fringe at 0.63 µm per inch</b>
<b>Irregularity</b>	<b>1/4 fringe at 0.63 µm per inch</b>
<b>Centration</b>	<b>&lt; 20 arc minutes</b>
<b>Surface Quality, Scratch Dig</b>	<b>60-40</b>
<b>Bevels</b>	<b>0.2 mm x 45°</b>

**Standard product**

<b>Part Number</b>	<b>Material</b>	<b>Dia, mm/R, mm</b>	<b>AR-Coating</b>
<b>ATRG2010</b>	<b>Ge</b>	<b>20/10</b>	<b>8-14 µm</b>
<b>ATRS2010</b>	<b>Si</b>	<b>20/10</b>	
<b>ATRZ2010</b>	<b>ZnSe</b>	<b>20/10</b>	<b>8-14 µm</b>

Custom size and coating are available upon enquiry [sales@laseroptex.com](mailto:sales@laseroptex.com)