ALKOR crystal optics tel: +7 (812) 363 1240, fax: +7 (812) 363 1239 technologie

Barium Fluoride
Calcium Fluoride
Cesium Iodide
Fused Silica
Germanium
Lithium Fluoride
Magnesium Fluoride
Potassium Bromide
Potassium Chloride
Sodium Chloride
Sapphire
Scintillators
Silicon
Zinc Selenide
Zinc Sulphide
Optical Coating
Interference filters

Home >> Products >>Lenses

Infrared Lenses, Microoptics, UV lenses

Alkor Technologies - manufacturer of UV and IR optical lenses. Alkor Technolo supplies the following types of Infrared Optical lenses:

1. Spherical: Plano-Convex lens, Plano-Concave lens, Bi-Convex lens, Bi-Concave lens, Meniscus lenses, lenses, Hemispherical and Hyper Hemispherical lenses, **IR lenses**.
2. Cylindrical lenses made of optical glass
3. Microlenses: We produce 1mm diameter microlenses and microoptics made of optical glass, Fused Silicon, Sapphire and etc.
4. **Achromatic doublet lenses**
5. **Ball lenses**

Effective Focal Length: We produce lenses with EFL 2mm-10 000mm

Contact our **Sales Team** now for pricing for any custom size and coatings requirements.

Infrared Lenses are used to collect, focus, or collimate light in the near-infrared, short-wave infrared, mid-infrared, or long-wave infrared spectra. IR Lenses are optical lenses that use specific substrates or anti-refl coatings to maximize performance for applications operating above 700nm including thermal imaging, FL spectroscopy. The infrared spectrum refers to 700 – 16000nm wavelengths.

With our 1145pcs of test plates inventory from 1.675mm to 30200mm radii, Alkor Technologies can pr prototypes in short time. We only charge very low tooling cost. Ask to receive list of available test plates.

We offer all types of custom optical lenses and mirrors made from IR and UV materials:

CaF2 lenses
MgF2 lenses
ZnSe lenses
Germanium lenses
Silicon lenses
Fused Silica lenses
LiF lenses
BaF2 lenses
Sapphire lenses

Special size lenses and tooling are available upon request. In addition, we provide a variety of anti-reflectin reflective coating for infrared optical lenses. Please refer to **coating page** for more information.

Alkor Technologies Infrared lenses made of Barium Fluoride, Calcium Fluoride, Germanium, Zinc Selenide, Sap
are ideal for IR applications (2000 nm-16000 nm). Calcium Fluoride (CaF2) lenses can be used for applica
requiring high transmission and minimum chromatic aberration between deep UV to Mid IR wavelengths (18
8000 nm). AR coated Zinc Selenide (ZnSe) lenses are good for many applications using near IR to mid IR
(800 nm-16 µm), and for experiments/instruments using CO2 lasers. Sapphire lenses are particularly good fo
pressure and vacuum applications. Zinc Selenide and Calcium fluoride lenses are also good to use with femtos
IR pulses due to its relatively low group velocity dispersion (GVD) in IR wavelength regime.

	Size tolerance,mm	Centration	Flatness at 630nm	C.A.	Surface quality
Standard	+0, -0.2	3 arc. min	1λ	90%	60/40
High Precision	+0, -0.02	1 arc.min	1/10λ	100%	20/10

See also: Windows and wedges, Optical prisms; **FAQ**

Tel: +7(812)3631240 Fax: +7(812)3631239 Email: **technologies@alkor.net**