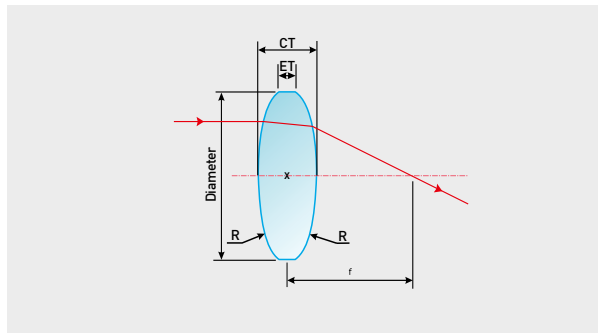
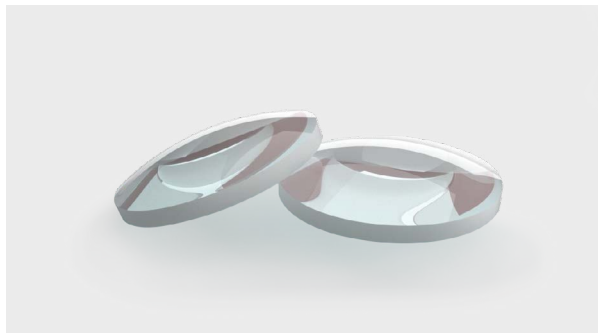


Bi-convex spherical lenses



Bi-convex spherical lenses feature two convex surfaces with the same radius of curvature, while their focal length is positive. These lenses perform the best at finite conjugate (0,2X - 5X ratio) applications.

At 1:1 conjugate ratio spherical aberrations, coma and distortion are minimized.

Main features

- Fabricated from high-quality UV grade fused silica and BK7 glasses
- Standard diameter is $\varnothing 25,4$ mm
- Focal length selection from 25 mm to 100 mm
- Antireflective coatings, custom substrate material, dimensions, and focal lengths available upon request

Application examples

- Finite-conjugate imaging
- Beam relay applications
- Beam expanders

Standard specifications

BI-CONVEX SPHERICAL LENSES	
Substrate material	BK7, UVFS
Wavelength range	Uncoated BK7 lenses: 350 nm - 2 μ m Uncoated UVFS lenses: 185 nm - 2,1 μ m
Clear aperture	>90%
Diameter tolerance	+0/-0,1 mm
Edge thickness	2 mm
Thickness tolerance	$\pm 0,5$ mm
Centration error	<3 arcmin
Focal length tolerance	$\pm 3\%$ @632,8 nm
Protective chamfers	<0,35 mm at 45°
Surface quality	40-20 S-D
Surface irregularity	$\leq \lambda/8$ @632,8 nm
Coatings	Uncoated, available upon request

Standard products

MATERIAL	DIAMETER	FOCAL LENGTH	SKU	PRICE
BK7	$\varnothing 25,4$ mm	25 mm	7569	28 €
		50 mm	7570	28 €
		75 mm	7571	28 €
		100 mm	7572	28 €
UVFS	$\varnothing 25,4$ mm	25 mm	7565	72 €
		50 mm	7566	72 €
		75 mm	7567	72 €
		100 mm	7568	72 €