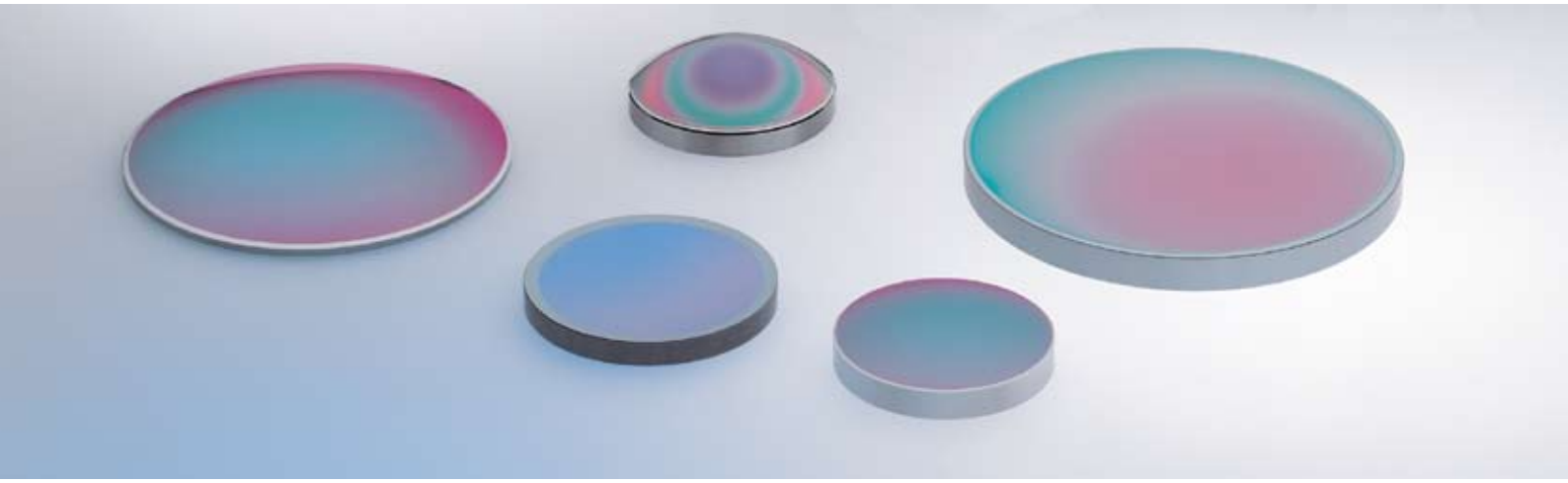
Spherical and aspherical lenses for the IR

Design, manufacturing and testing on customer´s specifications.
High variety of geometries. Antireflection coatings.



Benefits:

Spherical and aspherical lenses are used in a broad range of infrared applications, especially in thermography, image acquisition and target recognition. In order to meet all the application-specific requirements, an integrated technology chain is indispensable to provide adequate product variety.

JENOPTIK possesses advanced technologies for design, manufacturing and coating of IR optical components. Depending on the specific customer specification, IR components can be provided with highly resistant and highly efficient antireflection coatings.
All components are routinely tested for compliance with DIN ISO or MIL standard requirements.

Applications:

- Thermography
- Image acquisition and target recognition
- IR lenses and optical systems
- IR camera technology

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Specifications

Available product range:	
Diameters:	5 mm ... 200 mm
Shapes:	Concave, convex, spherical, aspherical, off-axis
Materials:	Germanium, silicon, zinc sulfide, calcium fluoride, other
IR spectral range:	MWIR, LWIR, multi-band
Parameters:	
Surface roughness:	R_q= 5 nm (Ge), R_q= 2 nm (Si)
Special coatings:	Highly resistant and environmentally stable AR- and DLC-coatings (MIL-F-48616)
Know-how:	
Technology and manufacturing equipment:	Ultra precision diamond turning CNC milling / polishing Advanced coating technologies
Measurement:	2D/3D tactile For aspheres, interferometric using Computer Generated Hologram* Comprehensive test and measurement facilities to verify environmental resistance
Design:	In-house or custom optical design Quality and coatings according to customer´s specifications

* Proprietary expertise and technology for design and manufacture of CGHs.

It is our policy to constantly improve the design and specifications. Accordingly, the details represented herein cannot be regarded as final and binding.

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