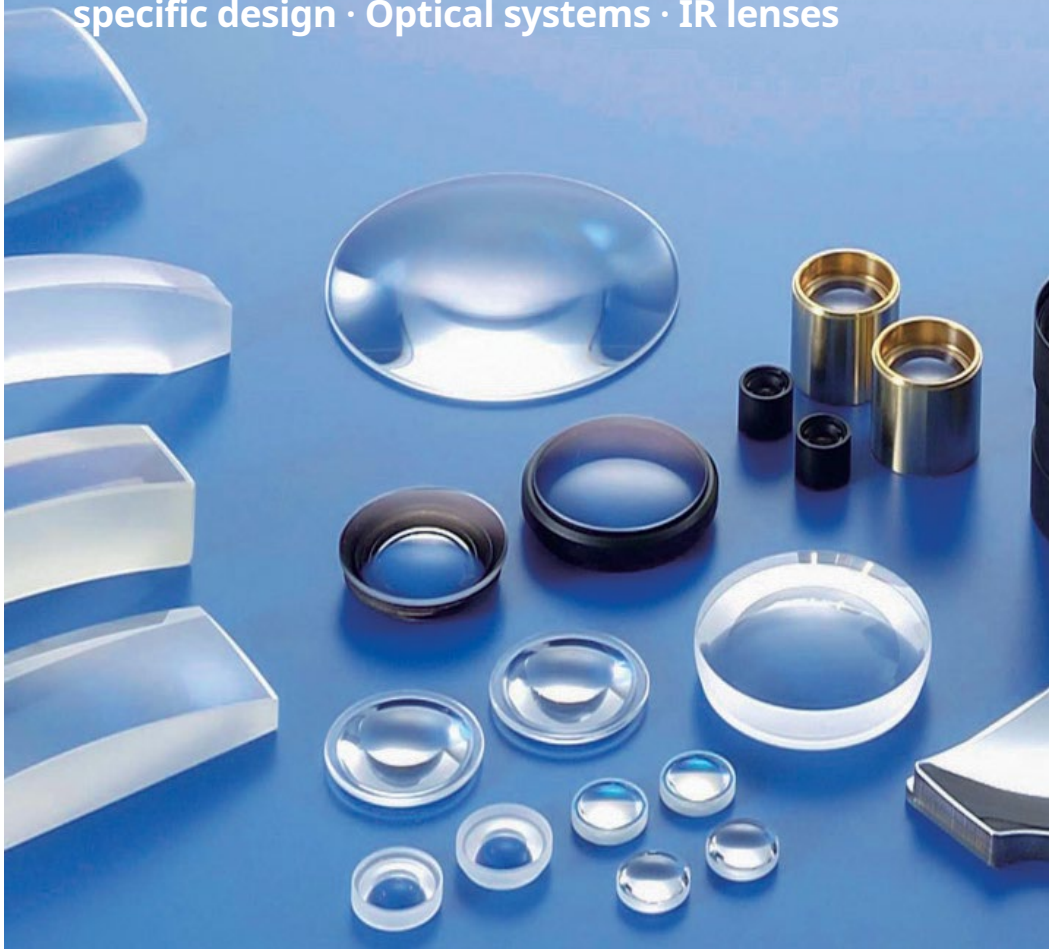




# Optical Components

High quality manufacturing · Customer-specific design · Optical systems · IR lenses



# Our strength – customized lenses and optical systems



## Spherical Lenses

Kyocera uses its industry-leading technologies to manufacture photographic, scanner and machine-vision lenses which are used in a wide range of applications.



## Aspherical Lenses

Aspherical lenses can be used to reduce the total number of lens elements required in a lens assembly while maintaining high optical performance.

Our aspherical lenses offer advantages in the molding with high melting point glass and lower depreciation expense, both of which are necessary for rapid technological innovation. Various shapes of lenses are available including bi-convex, bi-concave and meniscus.



## Automotive Lenses

Kyocera provides various kinds of customized lenses, including fish-eye lenses for viewing cameras and high resolution lenses for sensing cameras in automotive applications. We support customers according to their unique requirements.



## Machine-Vision Lenses / Custom Optical Units

Kyocera has developed exclusive lenses for "machine-vision" applications to meet the latest high-precision requirements.

- ▶ Fixed magnification lenses / Variable focusing lenses
- ▶ Zoom / Motorized zoom lenses
- ▶ Telecentric lenses
- ▶ High resolution variable focal lenses
- ▶ Fixed focus telecentric lenses (5 megapixels)

## Product Lineup



▶ Aspherical Lenses



▶ Spherical Lenses



▶ Plastic Lenses



▶ Mechanical and Precision Parts



▶ Machine-Vision Lenses



▶ Line-Sensor Lenses



▶ Custom Optical Units



▶ Scanner Lenses



▶ Automotive Lenses

Kyocera offers lenses and optical systems for the automotive, photo imaging, office automation, medical/healthcare and factory automation market with long-term experience.

Our manufacturing process ensures quality in lens element design and lens processing through stringent checks, mechanical component fabrication, optical assembly and inspection.

