

Diffraction and homogeneous-lens compensator for correcting aberrations of gradient

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Abstract

The paper provides the results of a research into the possibilities of correcting chromatic and monochromatic aberrations of the distal part of a rigid endoscope, which includes a gradient lens and translator. It shows that it is advisable to use a diffractive or uniform lens as a coordinate chromatism corrector depending on the dispersion properties of the material.

Keywords: diffractive compensator, homogeneous-lens compensator, aberration, gradient, rigid endoscope, diffractive lens, uniform lens.

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