
The image quality analysis of the two-mirror aplanatic systems and catadioptric lenses two-lens compensators

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For ten circuits of catadioptric objectives on the basis of a two-mirror Cassergain system and two-component lens compensator which may occur prior to the first mirror, between the first and the second mirrors and after the second one, a preliminary assessment of the expected image quality of the lens is offered to compare with the quality of the image two-mirror aplanatic and isoplanatic systems with similar optical characteristics. Consideration is limited by high aperture and narrow angle lenses with the aperture to 1:0.8 and angular fields in the object space up to 6° and 10°.

Keywords: optical systems, two-mirror lenses, mirror/lens lenses, aplanatic correction, image quality.

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