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Investigation of the influence the topological parameters of FPA's photosensitive element on the lenses' MTF measurement error

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The article is devoted to the study of the influence of the topological parameters of the second-generation photodetector on the measurement error of the Modulation Transfer Function (MTF) of the lens when evaluating the quality of the lens. Theoretical studies have been carried out by mathematical modeling for diffraction-quality scattering spots and FPA with different crosstalk coefficients at different sensitivity distribution functions of the photosensitive element.

Keywords: measurement error, point spread function, FPA, crosstalk, sensitivity of the photosensitive element, MTF.

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