

Generation of DOE forming an annular LP mode using the technology of direct ablation of a quartz plate by an UV laser

V.S. Pavelyev^{1,2}, V.A. Soifer^{1,2}, B.N. Chichkov³, T. Temme³, L. Buettner³, M. Duparré⁴, B. Luedge⁴

¹Samara State Aerospace University

²Image Processing Systems Institute of RAS

³Hanover Laser Center LZH (Hanover, Germany)

⁴Institute of Applied Optics, Friedrich Schiller University (Jena, Germany)

Abstract

The article considers the results of a study of a visible-range DOE (wavelength - 632.8 nm) produced by direct ablation of a quartz plate by UV laser radiation (wavelength – 157 nm) in a nitrogen atmosphere. A comparative analysis of the results of natural experiments with the results of numerical simulation of DOE is performed.

Keywords: DOE, LP mode, UV laser, quartz plate, visible-range, wavelength, nitrogen atmosphere.

Citation: Pavelyev VS, Soifer VA, Chichkov BN, Temme T, Buettner L, Duparré M, Luedge B. Generation of DOE forming an annular LP mode using the technology of direct ablation of a quartz plate by an UV laser. *Computer Optics* 2002; 24: 66-69.

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