

# Scanning properties of diffractive element forming the axial-symmetric diffraction limited wave beam

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## **Abstract**

An example of considering the diffraction of scalar waves by an amplitude binary diffraction “lensacon” is used to show the feasibility of spatial scanning by a diffraction-limited wave beam in case of the point source displacement and changing the radiation wavelength in relation to the calculated one in the terahertz wavelength range.

**Keywords:** diffractive element, wave beam, scalar wave, diffraction “lensacon”, diffraction-limited wave beam, terahertz, wavelength range.

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