Claims

1. A test system for testing an optical system, the test system comprising the following features;

a device for imaging by the optical system to be tested, where the device comprises a first device section having a first degree of transmission for electromagnetic waves and a second device section having a second degree of transmission for the electromagnetic waves, where the second degree of transmission is greater than the first degree of transmission, wherein at least one device section has an annular shape; and

an evaluation device;

wherein

at least one of the annularly shaped device sections takes the form of a slit or an annular gap, wherein the evaluation device is designed to evaluate an image of the entire device generated by the optical system to be tested in order to determine an evaluation result for the testing of the optical system.

2. The test system according to claim 1, wherein the second device section has an annular shape, wherein the second device section is arranged between a first subsection and a second subsection of the first device section.

3. The test system according to claim 1, wherein the first device section has an annular shape, wherein the first device section is arranged between a first subsection and a second subsection of the second device section.

4. The test system according to claims 1 to 3, wherein the evaluation device is designed to determine a two-dimensionally measured modulation transfer function of the optical system as the evaluation result by using the image of the device generated by the optical system to be tested.

5. The test system according to any one of claims 1 to 4, wherein the evaluation device is designed to determine an effective focal length and/or a

direction-dependent magnification capability of the optical system as the evaluation result, by using the image of the device generated by the optical system to be tested.

6. A method for testing an optical system, wherein the method can be carried out using the test system according to any one of claims 1 to 5, wherein the method comprises the following steps:

generating an image of the device by means of the optical system to be tested; and

evaluating the image of the device in order to determine an evaluation result for the testing of the optical system.

7. The method according to claim 6, wherein in the evaluation step, by using the image of the device, a two-dimensionally measured modulation transfer function of the optical system is determined as the evaluation result.

8. The method according to claim 7, wherein, in the evaluation step, the two-dimensionally measured modulation transfer function is determined from a point spread function of the optical system, in particular by means of a Fourier transform, wherein the point spread function is mathematically determined from a plurality of line spread functions of the optical system obtained in different cross-sectional planes.

9. The method according to any one of claims 6 to 8, wherein in the evaluation step, by using the image of the device, an effective focal length and/or a direction-dependent magnification capability of the optical system is determined as the evaluation result.