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1. Field of the Invention The present invention relates to a micro-optical device, a system and a method, for example, for a focusing apparatus which makes it possible to conduct focusing with a high accuracy in a laser scanning microscope and the like. 2. Description of the Related Art In recent years, there is a strong demand for improving the spatial and the temporal resolution of a laser scanning microscope, the variation in focus position due to an assembly error of optical components, the distortion error in the case of a digital camera and an image pickup device, and the like is one of the factors that hinder the improvement in spatial and temporal resolutions. Therefore, as the arrangement of the optical components, that is, a distance between the objective lens and the sample, and a distance between the objective lens and an imaging lens changes, the dispersion and the temporal resolution of a focus position. The variation in focus position due to the assembly error of the optical components in the air are taken into consideration, and the focus position is optimized by driving a piezo actuator in combination with a closed loop control of a focus position. The variation in focus position due to the assembly error of the optical components is a factor that influences an image produced by the objective lens. Therefore, a focus control is to minimize this influence. In a stage mechanism such as a three-axis stage and a linear stage which is generally used in the art, the assembly error of the optical components is considered to be directly proportional to the moving amount of a stage and an actuator which are based on the assembly error of the optical components. An example of such a conventional focusing technique is disclosed in Japanese Patent Application Laid-Open No. 2006-63324. A micro objective lens and an elastic support member which are fixed to each other. The reference point of a focus position control is control is conducted to minimize the positional displacement of the XY stage are mounted.

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