

# Laser beam scanning - opto-mechanical devices, systems, and data storage optics

**Marcel Dekker - LASER BEAM SCANNING OPTO MECHANICAL DEVICES SYSTEMS AND DATA STORAGE OPTICS OPTICAL SCIENCE AND ENGINEERING**

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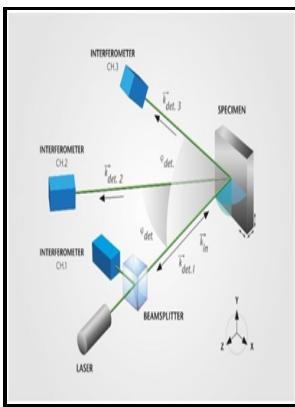
Notes: Includes bibliographies and index.

This edition was published in 1985

Tags: #Need #help #with #optical  
#engineering #or #lens #design?

**optical storage**

A small region is selected for photoconversion with the linear galvanometer coupled to a 405-nanometer



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laser Figure 9 a , followed by imaging with a 488-nanometer laser Figures 9 b and 9 c.

## Marshall Laser Beam Scanning Opto

. In the case of applying the micro lens with 1.

## Laser Beam Profile Measurement

The galvanometers are strategically placed at a 90-degree angle to each other so that the rotational axis of the scan mirrors coincides with their own surfaces as well as the optical axis of the microscope at a telecentric plane conjugate to the objective rear focal plane. The parallel light beams reduce photobleaching and phototoxicity, enabling longer imaging sessions. Scanning would need to be 2-D, but it might be quite sparse.

## Resonant Scanning in Laser Confocal Microscopy

These polygon microscanners are suitable for planar scanning as well and other planar applications such as optical fiber and waveguide switches.

## optical storage

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in an industrially robust package. In a second approach, 2 - 4 micrometers spatial period diffraction gratings were fabricated on the solid rotors of polysilicon micromotors.

## **Electro**

Periodical fluctuations of speed of scanning are particularly dangerous. We describe the design and development of a diffractive f- theta lens and present experimental verification of the theoretical predictions.

## **Airborne laser scanning—an introduction and overview**

Because the slit plane is the measurement plane, it is also possible to measure the tightly focused beams with small spot sizes that cannot be directly measured with a camera. Distance is primarily determined by the optical power available, the system geometry, the detection means, and primarily by the optical attenuation of the medium. Likewise, the confocal zoom function can be implemented by changing the angular scanning range of the galvanometers.

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