

Dispersion-controlled adjustment of imaging plane in spectrally encoded endoscopy (Technion)

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The spectrally encoded endoscopy (SEE) is a new method utilizing a single optical fiber and miniature diffractive optics to encode transverse reflection from a sample. The use of this method dictates the geometry of the focal plane which limits in many applications where the object is in a certain position. The new invention proposes the use of chromatic dispersion management to adjust the depth and angle of the image plane of interferometric SEE.

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