

Techniques for spectrally encoded endoscopy (Technion)

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We propose a few innovative techniques for spectrally encoded endoscopy. One technique is a method for multiple-channel spectrally encoded endoscopy (MC-SEE), in which the illumination and the collection of optical paths are separated in space. This invention enables a larger depth of field imaging, speckle noise reducing and signals detection of different excitation and emission wavelengths. The other technique, using dispersion, may be effective in optimizing imaging quality and field of view.

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