

Optical Coherence Tomography and Scanning Laser Ophthalmoscopy: approaches to dual-channel retinal tissue imaging

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Abstract: We report a Talbot bands-based optical coherence tomography (OCT) system capable of producing longitudinal B-scan OCT images and *en-face* scanning laser ophthalmoscopy (SLO) images of the human retina *in-vivo*, with various degrees of simultaneity.

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Due to a higher sensitivity and speed than their time domain (TD) counterpart, spectral domain (SD) methods dominate the OCT technology of eye imaging [1]. The SD-OCT methods produce fast A-scans, which are used to create real time cross-section (B-scan) images.

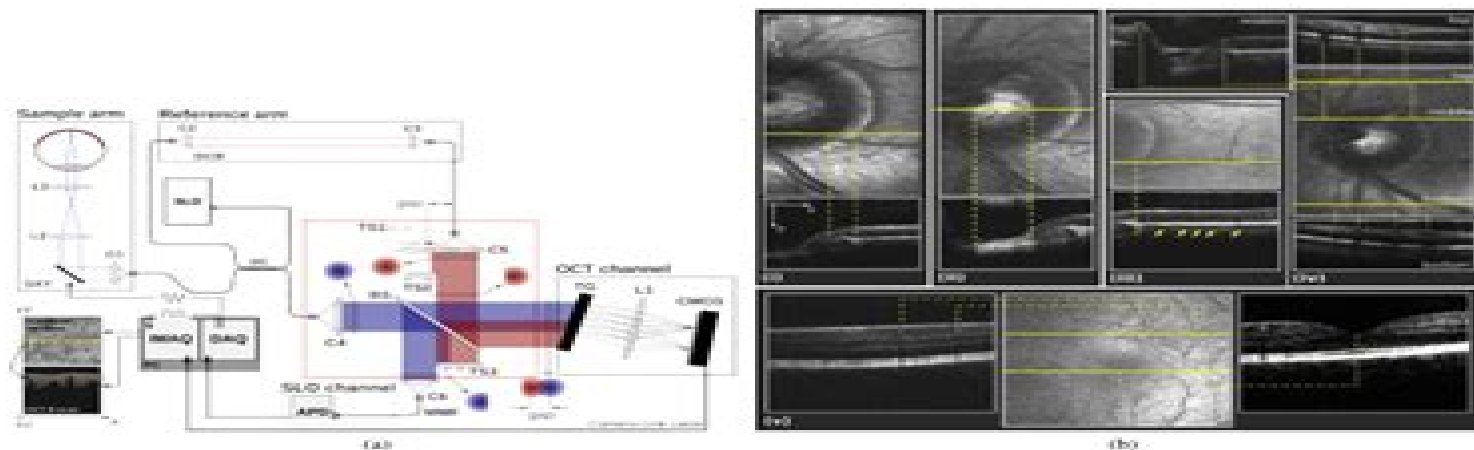


Fig. 1: (a) Schematic representation of the set-up devised, and (b) some of the results obtained with it: images of the retina of a volunteer taken from the two channels, yielding an *en-face* SLO image (top) and a B-scan OCT image (bottom), with a correspondence of features between the two being emphasized.

For several reasons, an *en-face* image is also required when imaging the retina in the human eye. These reasons may include the guidance of the OCT examination, or even the correction of motion artifacts created by imaging *in-vivo*

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