

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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OCIS codes: (110.4190) Imaging systems; Multiple imaging; (110.4500) Imaging systems; Optical coherence tomography; (170.4460) Medical optics and biotechnology; Ophthalmic optics and devices.

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.

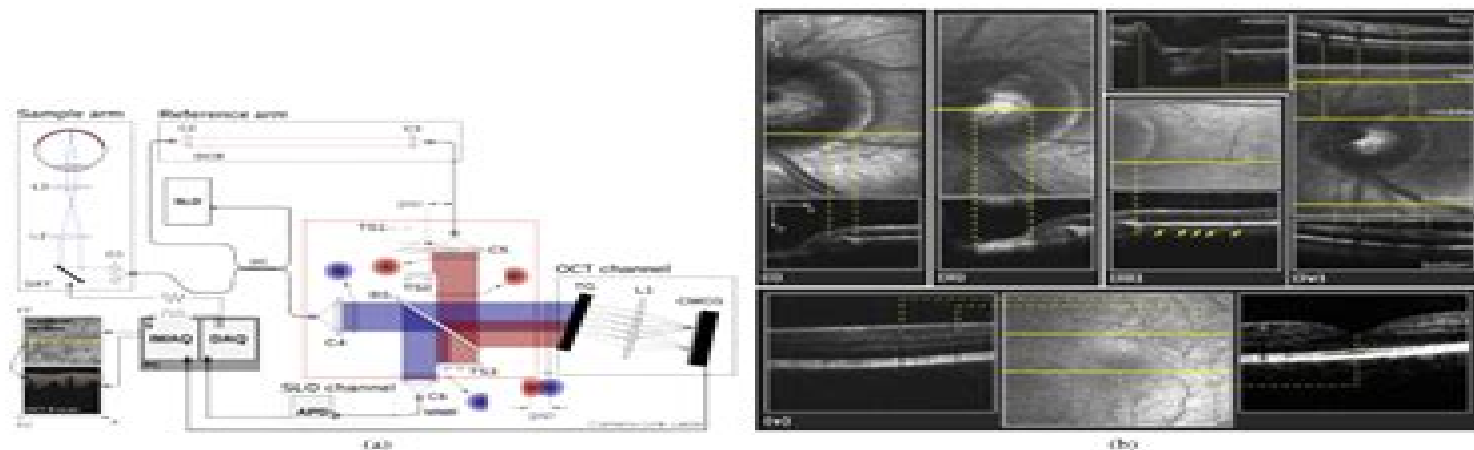


Fig. 1: (a) Schematic representation of the set-up devised, and (b) some of the results obtained with it: images of the retina of a volunteer taken from the two channels, yielding an *en-face* SLO image (top) and a B-scan OCT image (bottom), with a correspondence of features between the two being emphasized.

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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Engineers, European Optical Society, European Laser Association, 2000 *High Resolution Imaging in Microscopy and Ophthalmology* Josef F. Bille, 2019-08-13 This open access book provides a comprehensive overview of the application of the newest laser and microscope ophthalmoscope technology in the field of high resolution imaging in microscopy and ophthalmology Starting by describing High Resolution 3D Light Microscopy with STED and RESOLFT the book goes on to cover retinal and anterior segment imaging and image guided treatment and also discusses the development of adaptive optics in vision science and ophthalmology Using an interdisciplinary approach the reader will learn about the latest developments and most up to date technology in the field and how these translate to a medical setting High Resolution Imaging in Microscopy and Ophthalmology New Frontiers in Biomedical Optics has been written by leading experts in the field and offers insights on engineering biology and medicine thus being a valuable addition for scientists engineers and clinicians with technical and medical interest who would like to understand the equipment the applications and the medical biological background Lastly this book is dedicated to the memory of Dr Gerhard Zinser co founder of Heidelberg Engineering GmbH a scientist a husband a brother a colleague and a friend

[Age-related Macular Degeneration](#) D. Virgil Alfaro, 2006 A renowned group of retina surgeons presents promising new developments in age related macular degeneration with emphasis on the most significant advances in the past five years Content addresses all aspects of management including anatomy physiology and pathophysiology imaging of the macula in age related macular degeneration prevention measures and treatment treatment and future directions Abundantly illustrated and superbly organized this book serves as an excellent reference and textbook **IBBO: L-Z** Jean-Paul Wayenborgh, 2002 **Journal of the Optical Society of America**, 1993

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National Library of Medicine Current Catalog National Library of Medicine (U.S.),1985

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