



Advancing the Science of Vision Testing

NEW SOFTWARE FOR IMPROVING THE ANALYSIS OF OCT IMAGES

Diopsys Inc. Creates Software to Improve the Sensitivity of Current Optical Coherence Tomography (OCT)

PINE BROOK, N.J. – Diopsys, Inc. today announced the development of software that uses existing Spectral Domain Optical Coherence Tomography (SD-OCT) images to assist ophthalmologists and optometrists in diagnosing retinal and optic nerve disease such as glaucoma.

SD-OCT is an imaging technique used to provide ophthalmologists and optometrists thickness measurements of the Retinal Nerve Fiber Layer (RNFL) which can help them diagnose diseases like glaucoma. However, this thickness can be unduly influenced by retinal vessels and other factors within the RNFL.

The new software (Diopsys[®] CORDA[™]) works by analyzing the internal structure of the RNFL through discrimination of its different components. As a result, ophthalmologists and optometrists get a more accurate reading of the RNFL health from their OCT images, and can more precisely diagnose and track diseases. This software will also help detect vision disorders earlier so that patients can begin treatment sooner.

According to literature, current thickness algorithms in OCT technology may overestimate sectors with focal defects in the RNFL causing this layer to look more substantial. Using the new software, ophthalmologists and optometrists will be able to hone in on just the structure that is damaged by glaucoma. “The Diopsys[®] CORDA[™] software was developed not only for diagnosing glaucoma and its progression, but also for the evaluation of other ophthalmic conditions like ischemic and inflammatory optic neuropathies,” says Alberto González García, M.D., neuro-ophthalmologist and Research Director at Diopsys, Inc.

Because Diopsys[®] CORDA[™] works with all existing SD-OCT images including those from Carl Zeiss, Meditec, Heidelberg Engineering, Optovue and Topcon devices, the accuracy and clinical value of these OCT machines are improved without having to purchase new hardware.

About Diopsys

Diopsys, Inc. (<http://www.diopsys.com>) is a medical instrumentation company dedicated to delivering high-quality, cost-effective preventative health care. The company specializes in the development and marketing of patient-friendly, non-invasive diagnostic vision testing equipment. Diopsys has developed and markets the patented *Enfant[®] Pediatric Vision Testing System*, a device used by pediatricians in testing for visual deficits, including amblyopia, in children as young as six months of age. Diopsys also developed and markets the *Diopsys[®] NOVA-DT (Diagnostic & Tracking)*, *Diopsys[®] NOVA-TR (Transient Response)* and *Diopsys[®] NOVA-DN (Diseases of the Optic Nerve) Vision Testing Systems* utilized by ophthalmologists and optometrists for the detection, diagnosis and treatment of vision disorders.

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