

Technology Description

SDM Innovations has developed patented technology that fundamentally changes how optical coherence tomography (OCT) is performed, with imaging speed increased by a magnitude without compromising resolution, providing end-users with significantly greater utility and value.

What Does It Do?

Without compromising resolution, it provides a generational leap in OCT scanning speed, providing end-users richer medical information to improve clinical outcomes and decision-making. This will drive product preference.

Why Does It Matter?

Market differentiation is becoming increasingly challenging as current approaches to increasing speed are approaching technical limits.

Who Is Our Customer and Why Do They Want Our Product?

Our clients are manufacturers of ophthalmic diagnostic devices who want to offer market-preferred products that promise ophthalmologists the greatest utility and highest value in OCT diagnostic devices.

Management Team

- *Robert Michel, President and CEO*
Experienced in product and market development; over 20 years of executive experience with Pfizer and Wyeth.
- *Chao Zhou, PhD*
Inventor of SDMI's technology. His Lehigh University lab is developing ultrahigh-speed and ultrahigh-resolution OCT in addition to many other advanced imaging technologies.

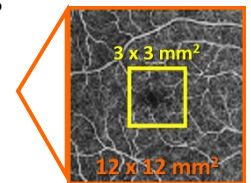
Competition

Only known competition is that of the existing OEMs, who have focused on incremental improvements from current technology and methods.

What Can Our Technology Provide?

SDMI's patented* technology can provide:

- A > 800k/sec image A-scan rate, more than 10-times faster than the typical 70k/sec rate, virtually eliminating motion artifacts and resulting in better images with more information
- 12 x 12 mm² retinal area scanned is 16-times larger than the typical 3 x 3 mm² default area scanned, providing more information for improved decision-making
- Larger cube scans possible
- Wide field image acquired in ≤ 5 seconds improves clinic throughput and patient comfort
- Easily and inexpensively integrated into current OCT base systems
- Future development: substantial potential for speeds beyond 800k/sec, with related image size improvements and functional imaging capability



Our Ask From You

- A relationship with an OEM who will provide development guidance and support in return for access to the use of the technology in their products.
- Seeking a small seed round (<\$500k) to further refine and enhance the operational and performance profile of the current prototype.

*US 9,400,169 B2, July 26, 2016