

## 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.

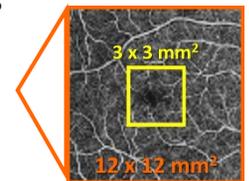
### Competition

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 mm<sup>2</sup> retinal area scanned is 16-times larger than the typical 3 x 3 mm<sup>2</sup> 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