

PRODUCT BRIEF

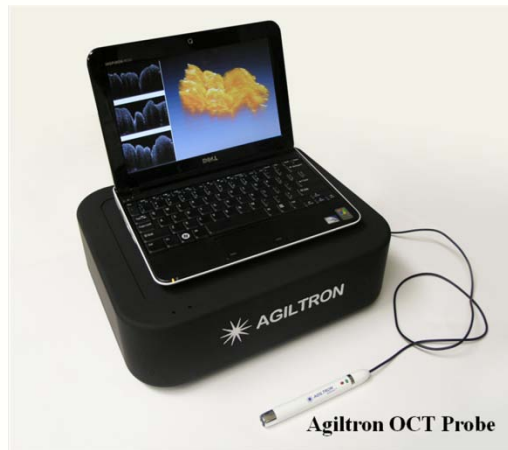
MINIATURE, RAPID, AND 3- DIMENSIONAL OCT SCANNER

Advantages

- High optical collecting efficiency
- Large imaging area
- High speed 2-D scanning
- No mechanical wear-out.
- High resolution
- Adaptable to all OCT systems
- Compact
- Low cost

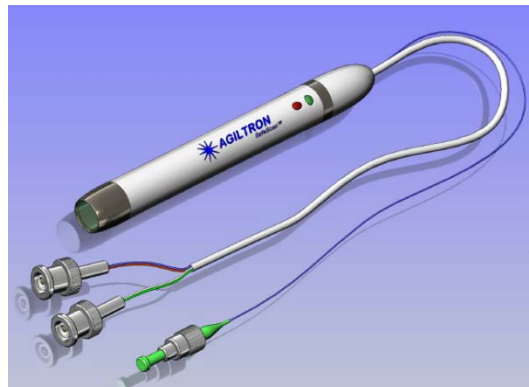
Overview

Based on a patented Fiber-Tip lens technology, Agiltron offers state-of-the-art 3-dimensional OCT probes and systems for biomedical imaging such as dentistry, gastroenterology, cardiology, and oncology. These devices and system can be manufactured as Agiltron branded product or as private label.



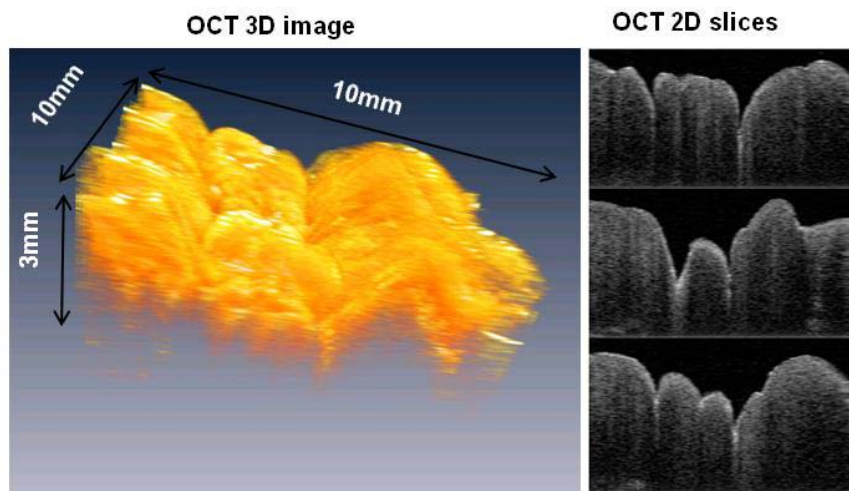
Mechanical and Electrical Features

OCT probes are typically manufactured as size and weight of a ball point pen. It can be customized as required. The probe has one optical fiber interface (FC/PC) and two electric signal driver ports for two dimensional scanning with typical driving voltage of <math><5V</math>.



3D OCT images and 2D cross section display

The lateral scanning area is typically about 10 mm x 10 mm. Interested areas can be selected to displayed as typical B-scans. The imaging depth is about 3 mm. These B-scans can reveal micron scale fine resolution of micro-structures, where the contrast is from optical scattering of small particles and interfaces. 3D imaging helps image registration of frame locations through comparison of the topological feature to other diagnostic modalities such as a photograph or radiographic images.



Customized Optical Design

We can design an OCT probe that you need for your OCT system for different wavelength, light collecting orientation, fiber length, fiber reflection, working distance, and lateral resolution.

Probe Specifications

	SafeScan™
Working Wavelength (nm)	1300
Lateral resolution (µm)	30
Working distance (mm)	3
Lateral scanning range (cm ²)	1
Scanning speed (fps)	>8
Driving voltage (V)	<5
Driving frequency-slow axis (Hz)	0.5
Driving frequency-fast axis (Hz)	60
Size	6" x0.5"x0.5"
Weight (lb)	<0.1
Operating temperature (°C)	-25 to 45



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