

Company Profile

Industry Sector: Medical Devices, Ophthalmology

Company Overview: KeraMed Inc. specializes in developing innovative corneal surgical devices and corneal implants. KeraMed Inc. was founded by Yichieh Shiuey, MD a Harvard trained ophthalmologist and practicing corneal specialist. Keramed Inc. is developing a suite of surgical products that will allow therapeutic and refractive implants to be placed within the cornea.

Target Market(s): Ophthalmologists and corneal specialists worldwide.

Key Value Drivers

Technology*: Robotic pocket making microkeratome which can automatically create a corneal pocket for the purpose of implanting an artificial cornea or refractive implant.

Competitive Advantage: A robotic microkeratome system is approximately one tenth the cost of a laser system which can create a corneal pocket. In addition, a robotically guided blade is able to make a pocket within an opaque cornea, which is useful for implantation of a therapeutic implant such as an artificial cornea.

Plan & Strategy: Obtain US 510K approval and European CE Mark. Seeking a strategic partner

*Technology funded by the *National Eye Institute* and being commercialized under the NIH-CAP

Management

Leadership: Yichieh Shiuey, MD

Business Advisor: Jerry Gin, PhD, MBA founder of Oculex, an ophthalmic drug implant manufacturer, which was acquired by Allergan for \$230 million.

Scientific Advisory Board:

- Roberto Pineda, MD, Director of Refractive Surgery, Harvard Medical School
- Sonia Yoo, MD Associate Professor of Ophthalmology U. of Miami
- Natalie Afshari, MD Associate Professor of Ophthalmology, Duke University

Product Pipeline

- Endoshield DSEK graft injector – This device allows the insertion of an 8 to 9 mm corneal endothelial graft through an incision as small as 3.2 mm. This device has a European CE Mark and is currently being sold in Europe.
- KeraKlear artificial cornea – first foldable and injectable artificial cornea for small incision surgery. This device already has a European CE Mark and will be undergoing first human trials shortly.
- KeraShape corneal implant for treatment of keratoconus and refractive error