



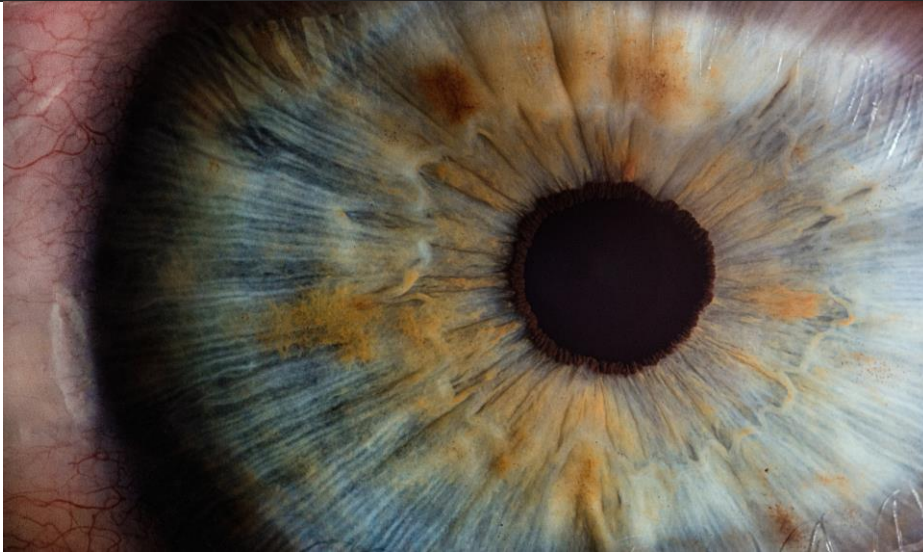
NovaUCD

Technology Licensing Opportunity



PeriScan – Early-Stage Myopia Detection

A highly efficient method for measurement of peripheral aberrations



Opportunity

Myopia represents a rising global concern particularly impacting children. High myopia is associated with higher risk of retinal detachment (5-6 times higher), glaucoma, cataract, and myopia retinopathy. Early detection, not currently possible, would enable intervention to slow down myopia progression and ultimately achieve myopia control in children.

Technology Overview

A research group at University College Dublin has developed a novel aberrometer which enables comprehensive, accurate and rapid measurement of both peripheral refraction and accommodative responses, which will enable clinicians to make more informed and timely interventions.

The technology achieves the rapid scanning of the retina, enabling both high measuring efficiency and low light path space consumption, key requirements identified by clinicians.

Key Features/Advantages:

Currently aberrometers are only capable of measuring the on-axis aberrations. This innovative aberrometer can measure both on-axis and off-axis aberrations.

Early Stage Detection: Measuring both on-and off-axis aberration allows more information to be collected which will help in early-stage detection allowing intervention and treatment of myopia

Efficiency: full peripheral measurement from a static position

Speed: Measure and report within 1 minute

Value Proposition:

Early stage detection of myopia in children will allow intervention to prevent permanent eye damage

Markets:

Clinicians, Ophthalmologists in Eye Care Hospitals for detection and monitoring treatment for myopia.

Lead Inventors:

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