

CustomlensAi

PREMIUM VISION OUTCOMES MADE EASY



Proud to partner with
Microsoft for Startups

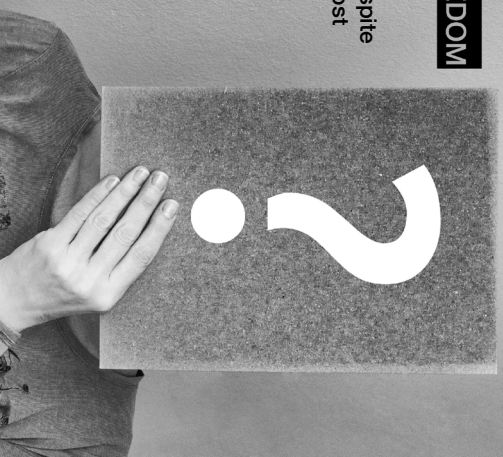
UNIVERSAL SPECTACLE FREEDOM

A life without spectacles is a routine outcome for refractive cataract surgery patients

YET !
Every year we condemn more than 25 million patients to glasses after cataract surgery

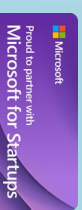
WHY ?
Is Premium IOL use so low at 15%, despite years of improvement in technology, cost reduction and surgeon education

SURGEON BARRIER:
Complexity of Surgical Planning
Setting Patient Expectations



**EMPOWERING
SURGEONS,
SIMPLIFYING
EXCELLENCE.**

Transforming lives by driving the adoption of AI-driven premium cataract surgery for spectacle-free vision for all.



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Our Team



Founder & CEO
Milind Pande

- Leading Ophthalmologist, recognized innovator and thought leader in the field of eye research
- Co-Founder, Vision Surgery Research Centre (VisionSurgery.co.uk)
- Over 42 years of clinical and surgical experience in ophthalmology
- Specialized in cataract, cornea, laser eye surgery
- Current trustee and past President of UK and Ireland Society of Cataract and Refractive Surgeons



Academic Collaborator
Prof. Rami Gahwaji

- Heads the Visual Computing group at the University of Bradford and the Healthcare Technology Unit at Informatics
- Involved in digital health, imaging, remote sensing, bioimaging, AI, and data visualization, partnered with various research groups
- Developed ASiR real-time operating system integrated with NHS's CCMC portal, noted in REF 2021 impact case study
- Collaborated with various diagnostic using imaging and AI, collaborated with Wall Cornell and the University of Manchester
- Supervised projects funded by UK Research Councils, EPSRC, and Horizon Europe
- Recommended by NHS National Innovation Centre for 'Efficient 3D Corneal Modelling' project



Tech Anchor
Ali Maysara

- MSc, MScs, MS, (Distinction), BS, (Hons), Expert Software and Medical AI Engineer, Data Scientist and Microsoft Certified Professional

Built by Surgeons, Built for Surgeons



Academic Collaborator



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Technology and AI Expertise

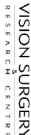


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The Board



Dr. Milind Pande



Prof. John Marshall

Best known for inventing and patenting the revolutionary Excimer laser for the correction of refractive disorders within excess of 75 million laser-based procedures now having been undertaken worldwide.



Stephen Leadbeater

Steve is a Chartered Accountant with 30+ years of experience, including roles as Group CFO specializing in M&A and capital markets. He has also served as a Non-Executive Director for successful start-ups and mentored finance teams through growth phases.

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Scientific Advisory Board

A global eco-system of scientific thought leaders.



DOUGLAS KOCH



ARTHUR CUMMINGS



BUCKHARD DICK



SRI GANESH



DAVID O'BRAART



PEI-FIN LIN



FRANCISCO CANONES



ALON BARSHAN



SALLY EMBLETON

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Technology Partner

Gentix is a software products, services and consulting company with specialization in Healthcare IT.

GENIX



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Technology Partner

Genix is a software products, services and consulting company with specialization in Healthcare IT.



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The Solution

Innovative AI-assisted software simplifies surgical planning, enhances efficiency, educates patients, and empowers surgeons to achieve the best possible visual outcome for their patients worldwide.

Proprietary Algorithms for Surgical Decision Support

Chief Biometry / Biometry / OCT / Surgeon Preferences

CustomLens Algorithm

Surgical Prescription

Simplifies Decision Making and Surgical Planning

Proprietary Algorithms for Functional Vision Assessment

PANFOCAL Algorithm

Functional Vision Predictions

VISIONCOACH-AI

PANFOCAL VA ASSESSMENT SYSTEM

Insights-driven, automated, user centric platform

- Data Interchange
- Knowledge Base
- User Interface

ACCURATE | TESTED | VALIDATED | COMPLIANT | EFFICIENT

An AI-assisted solution built specifically for niche ophthalmology clinical support not only enables effective surgical outcomes but also enhances data-driven patient engagement.

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Our Solution

AI-assisted software platform designed to serve as an expert system for cataract and refractive lens surgeons. This innovative system will provide surgeons with a comprehensive, automated, and scalable tool that calculates the complete optical correction needed to achieve optimal spectacle-free vision. The platform will offer customizable levels of automation in generating a detailed, executable surgical prescription, tailored to as the surgical process plan.

Designed as an Expert System for Cataract and Refractive Lens Surgeons

- Provides an easy-to-use, efficient, automated, and scalable tool
- Provides complete optical correction for optimal spectacle-free vision in cataract patients
- Offers customizable levels of automation to generate a detailed executable surgical plan, known as the surgical prescription.

Predictive Capabilities

- Unique feature predicts post-operative functional vision outcomes.
- Enables surgeons to set realistic expectations for individual patients, with a 95% probability of achieving desired results.
- Utilizes machine learning-based models from PANFOCAL VA datasets, which are key intellectual property.

Outcome Comparison Functionality

- Surgeons can input their outcomes back into the system.
- The application compares predicted outcomes with actual results.
- Integrates preoperative and postoperative data to generate insights and improve patient visual outcomes.

Current Development Status

- The Platform is now ready for Beta testing
- Regulatory approval process initiated

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Strategy

CustomLens Ai Platform

- Generate Value in the present with Explainable AI
- Platform for High Quality, Multidimensional, Big Data from Users and Reference Practices
- New AI Algorithms developed, tested for clinical significance.
- Plugged into the platform only if testing shows Clinical Significance
- Hyperfocussed on developing Clinically Relevant, Robust, and Explainable AI systems.

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Universal Application Use Cases.



Use Case 1 Expert Surgeons
Emphasis on Time-Cost-Quality Triad

- Are pressed for time and require automated and supported decision making for surgical decision support and intraoperative decision making.
- Seek accurate data-driven insights for precise surgical planning.
- See value in investing in solutions that improve clinical outcomes and patient satisfaction.



Use Case 2 Non-Expert Surgeons
Pathway to progress

- Aspirates to remove entry barriers for offering Premium Surgery.
- Expand into Refractive Cataract and Lens Exchange Market.



Use Case 3 High Volume Public & Private Providers
Focus on Quality Control and Scale

- Aim to scale the business without compromising on quality.
- Offer personalized and effective surgical procedures.
- Achieve higher patient satisfaction and referrals.



Use Case 4 End Beneficiaries
Spectacle-free future

- Unlimited vision
- Free surgery

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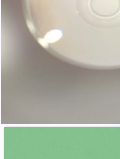
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