

## Corneal Topography

At Eyecare Eyewear, we are committed to providing you with the most comprehensive and advanced eye care available. That's why we're proud to offer Optical Coherence Tomography (OCT) - a revolutionary technology that allows us to see your eye health in incredible detail.

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Corneal topography is an advanced, non-invasive imaging technique that generates a detailed, three-dimensional map of the cornea's surface curvature. The cornea is the clear, dome-shaped front surface of your eye. The technology functions like creating a topographical map of a mountain, precisely charting the shape and elevation of your cornea.

### Key Applications and Importance

This detailed mapping is vital for numerous aspects of eye health and vision correction:

- **Diagnosing and Managing Corneal Conditions:** It is the primary tool for detecting and monitoring progressive diseases like keratoconus, where the cornea thins and bulges outward. Early detection allows for timely interventions to preserve vision.
- **Customized Contact Lens Fitting:** A precise understanding of the corneal shape is essential for fitting specialty contact lenses, such as rigid gas permeable (RGP) lenses, scleral lenses, and orthokeratology (Ortho-K) lenses, ensuring optimal comfort, fit, and vision.
- **Refractive Surgery Planning:** It is a critical pre-operative assessment for surgeries like LASIK and PRK. The map helps determine if a patient is a suitable candidate by ruling out irregular corneal shapes and is used to plan the laser treatment for optimal results. It is also used post-operatively to assess the outcome.
- **Astigmatism Management:** It provides a highly accurate measurement of the type and severity of astigmatism, leading to more precise prescriptions for glasses and contact lenses.
- **Investigating Vision Issues:** When a patient experiences unexplained blurry vision or glare despite having a correct prescription, corneal topography can help identify underlying corneal irregularities as the cause.



### Meet our Optometrists

#### Tom Roger

B App Sci (Optometry)  
Grad Cert Ocular Therapeutics  
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CASA CO (Aviation Eye Examiner)

#### Tobin Eapen

Bachelor in Clinical Optometry  
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