

Shaw Lenses for Aniseikonia

The SHAW Lens is a binocular lens design system created to treat aniseikonia, a condition where the brain perceives different image sizes or tracking speeds from each eye.

By balancing magnification, lens thickness, curvature, and dynamic eye movement, SHAW Lenses equalize image dimensions and reduce distortion, allowing comfortable single vision without strain or double vision.



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How They Work

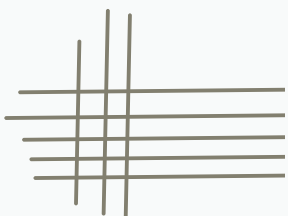
Standard spectacle lenses treat each eye individually, focusing solely on image sharpness. However, when a patient has a distinct prescription difference between eyes (anisometropia), standard lenses distort image magnification, forcing the brain to struggle to fuse two differently sized pictures—a conflict known as static aniseikonia. Additionally, as the eyes rotate to look away from the lens centers, unequal lens powers create differential prismatic effects, forcing eyes to track at uneven rates (dynamic aniseikonia).

The SHAW Lens system solves this using custom optical algorithms that model eye rotation alongside the patient's measured motor fusion (vergence) limits. By dynamically altering base curves, center thickness, and index of refraction, the software balances image magnification and limits optical distortion to a level the patient's visual system can comfortably tolerate.

Applications in Optometric Practice

SHAW Lenses serve as a primary solution for binocular vision anomalies across several patient profiles:

- **Anisometropia & Post-Surgical Aniseikonia:** Essential for patients with unequal prescriptions, high astigmatism, or post-cataract refractive discrepancies.
- **Amblyopia Management:** Helps children with lazy eye by balancing image scale, making non-patching binocular therapy more effective.
- **Traumatic Brain Injury (TBI) & Strabismus:** Supports fragile visual systems that struggle with vertical or horizontal image fusion.
- **Glasses Non-Adaptation:** Ideal for patients experiencing chronic headaches, dizziness, reading fatigue, or difficulty switching between contact lenses and glasses.



Meet our Optometrists

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FACBO MBA
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