

Manage contrast to manage myopia

Latest Results

DOT[®] lenses slow average myopia progression by up to **75% after 12 months of wear across diverse populations**^{1,2*}

The science behind DOT[®] lenses: contrast theory



Natural contrast

Spending time outdoors, in a natural, low-contrast environment, has been shown to help delay the onset and may slow the progression of myopia.^{3,4}

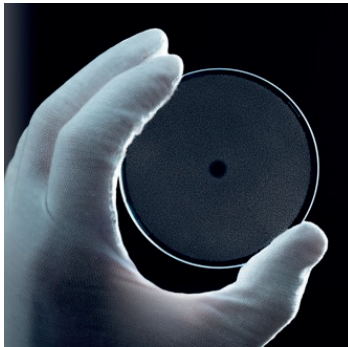


Artificial contrast

Spending more time indoors, studying, reading and spending time in modern, artificial environments with high contrast have been shown to contribute to accelerated myopia progression and eye growth.⁵

How do DOT[®] lenses work?

To mimic more natural contrast DOT[®] lenses integrate thousands of light-scattering elements that softly scatter light before it hits the retina¹



Excellent visual experience

DOT[®] lenses also deliver an excellent visual experience that is clinically equivalent to regular single-vision lenses.⁶

Easy adaption

DOT[®] lenses are not just effective, they are as easy to adapt to as regular single vision lenses,⁷ and 93% of children say they love their glasses with DOT[®] lenses.^{7,8**}

Long-term safety & efficacy.^{9,10}

Our pivotal clinical trial has now completed its 5th year, and the treatment benefit is retained after treatment ceases.¹⁰

Not available for sale in the U.S.

*Patient population aged 6–10 years (CYPRESS) and 6–13 years (CATHAY). **Proportion agreeing to “I love my DOT[®] glasses” at the 30-day visit.

1. Rappon et al. Control of myopia using diffusion optics spectacle lenses: 12-month results of a randomised controlled, efficacy and safety study. *Br J Ophthalmol*. 2023;107:1709–1715. 2. Laughton et al. Control of myopia using contrast modulation spectacle lenses in a Chinese population: 12-month results. Presented at ARVO 2025. 3. Morgan et al. IMI Risk factors for myopia. *Invest Ophthalmol. Vis. Sci* 2021;62(5). 4. Eppemberger LS, Stumm V. The Role of Time Exposed to Outdoor Light for Myopia Prevalence and Progression: A Literature Review. *Clin Ophthalmol* 2020;14:1875–1890. 5. Biswas S, El Kareh A, Qureshi M, Lee DMX, Sun CH, Lam JSH, Saw SM, Najjar RP. The influence of the environment and lifestyle on myopia. *J Physiol Anthropol* 2024;43(1):7. 6. Wolffsohn SJ et al. Visual impact of diffusion optic technology lenses for myopia control. *Ophthalmic Physiol Opt* 2024;44:1398–1406. 7. McParland et al. Children adapt well to Diffusion Optics Technology™ (DOT) spectacle lenses. Presented at NCC 2024. After 2–3 days of wearing the allocated spectacle lenses, the rate of adaptation was the same for DOT™ lenses and SV lenses (97% overall in each group). 8. SGV data on file 2021. Control of Myopia Using Peripheral Diffusion Lenses: Efficacy and Safety Study, 24-month results (n=256, 14 North American sites). 9. Laughton D, et al. Control of myopia using diffusion optics spectacle lenses: 4-year results of a multicentre randomised controlled, efficacy and safety study (CYPRESS). *BMJ Open Ophthalmology* 2024;9:e001790. 10. Hill et al. Myopia progression one-year after cessation of contrast modulation spectacle lenses. Presented at ARVO 2025.

Latest peer-reviewed research



Optical Strategy Utilising Contrast Modulation to Slow Myopia

Authors: James S. Wolffsohn & Kate L. Gifford

A review paper which summarises the current knowledge on myopia risk factors, the evidence for involvement of contrast in refractive error development, and the theories and mechanisms behind Diffusion Optics Technology.

Control of Myopia Using Diffusion Optics Spectacle Lenses: 12-Month Results of a Randomized Controlled, Efficacy and Safety Study (CYPRESS)

Authors: Joe Rappon et al

Report of one year of clinical data from the CYPRESS study evaluating children from ages 6-10 years. Diffusion Optics Technology™ spectacle lenses significantly outperforming standard lenses in the first year, reducing cSER by 74% (-0.40 D) and axial length by 0.15 mm.



Control of Myopia Using Diffusion Optics Spectacle Lenses: 4-Year Results of a Multicentre Randomized Controlled, Efficacy and Safety Study (CYPRESS)

Authors: Deborah Laughton et al

Key paper reporting on the four-year CYPRESS study results, demonstrating long-term safety and efficacy of Diffusion Optics Technology™ spectacle lenses.

Evaluation of Lag of Accommodation with Full-Field Diffusion Optics Technology™ Contrast Management Spectacle Lenses in Emmetropic Children

Authors: Asiya Jabeen et al

Report of a clinical study exploring lag of accommodation (LOA), which found Diffusion Optics Technology™ spectacle lenses showed similar accommodative responses to standard lenses during short-term use, suggesting no adverse effects on children's visual accommodation.



Visual Impact of Diffusion Optic Technology™ Lenses for Myopia Control

Authors: James S. Wolffsohn et al

Evaluation of Diffusion Optics Technology™ at six clinical sites in North America, which found that Diffusion Optics Technology™ spectacle lenses provided a clinically equivalent visual experience to single vision lenses.