OTL LENS LAB
YOUR RELIABLE OPTICAL LAB

PRISMA COLLECTION

A Product of VISION8 GLOBAL

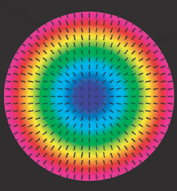
INTRODUCING

MyopiaX

The next generation single vision myopia control lens

Single vision design is used to control children myopia that combines effectiveness and portability. Prisma has developed Myopia X Design, a next generation single vision freeform design with circular defocus limiting the worsening of myopia in young people. The circular defocus changes the focus points' positions while moving away from the lens center to follow the eye retina curve as accurately as possible.

How it works - The MyopiaX Revolution



Power Map with axes directions

Myopia X has a fixed power central zone which diameter length is calculated from the real base value and the power value of the requested lens. Generally, diameter range from 9 to 12 mm.

From the central zone to the lens border, MyopiaX has a power degression starting from 1 to 2.5 Dioptrics, depending on which design is used (MyopiaX Toddler, MyopiaX Junior, MyopiaX Teen).

Thanks to the ray tracing technique, MyopiaX design has a circular defocus and from the design center to the design peripheral area, power decreases and cylinders slowly increase. Cylinder axes are always directed to the lens center (radial direction) for better comfort on all eye rotations.

MyopiaX lenses can be produced on any material and in any diameter, with any blanks and any index on the market. Customers can specify any individual parameters like wrap, panto and back vertex distance.

Sphere range from 0.00 to -20.00 and Cylinder max 6, depending on the age of the wearer, MyopiaX has 3 different design models and for each of them thickness is significantly improved thanks to the circular parabolic defocus. MyopiaX surface is clear without porosity.

According to Clinical Evidence Published Outcomes (at 12 months):
Compared to standard single vision lenses, the peripheral defocus design showed:

- ~30% reduction in myopia progression (SER)
- ~24% reduction in axial length growth
- Statistically significant results
- Greater effectiveness in younger children (6-9 years)
- High wearing compliance and visual comfort

These results demonstrate a clinically meaningful and safe myopia control effect.

The circular defocus changes the focus points' positions while moving away from the lens centre to follow the retina eye curve, as accurately as possible. The result is a lens focusing the light on the retina in correspondence of every point of the lens without blurring the images.

The traditional Myopia lenses create a blurred image on the peripheral area

Myopia X from Prisma Design ensures a clear vision on the whole lens area

Toddler, Junior, Teen Heat Map

MyopiaX Toddler
5-8 years

MyopiaX Junior
9-12 years

MyopiaX Teen
13-17 years

MyopiaX Toddler with a total defocus of 2.5 Dioptrics for kids starting from 5 to 8 years old. Compared to a traditional single vision myopia lens, MyoPiaX Toddler is 25% thinner.

MyopiaX Junior with a total defocus of 1.6 Dioptrics for a youngster from 9 to 12 years old. Compared to a traditional single vision myopia lens, MyopiaX Junior is 18% thinner.

MyopiaX Teen with a total defocus of 1.0 Dioptrics for teenagers from 13 to 17 years old. Compared to a traditional single vision myopia lens, MyopiaX Teen is 10% thinner.

GET IN TOUCH!

WE WOULD BE DELIGHTED TO ASSIST WITH ANY QUERIES AND QUESTIONS

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