TARGET

Ideal for **presbyopes users** with **Asian features.**

WEARER **BENEFITS**

- Specifically adapted to Asian market visual requirements.
- Optimized based on Asian features.
- Superior visual performance and higher satisfaction.
- Y-Tech method to improve the wearer experience for myopes.
- Wider corridor for a large intermediate area.
- Extra-soft power distribution provides smoother edge-to-edge viewing.
- Reduction of oblique astigmatism thanks to Digital Ray-Path® technology.
- Automatic inset optimization.
- Minimum thickness optimization
- Automatic corridor selection for frame choice.

BENEFITS FOR OPTICIAN

- **Personalization:** Offer a lens specially designed for your patients personal visual needs.
- **Proven satisfaction:** Feel comfortable knowing you are providing your patients with a proven product that works.
- **Differentiation:** Position yourself ahead the competition with a different product and adapted to the needs of your patients.
- **Loyalty:** When you sell your patients a product they are happy with they will become repeat customers.

AVAILABILITY

The YSIAN progressive lenses are available in different fitting heights:

14, 15, 16, 17, 18, 19, 20mm.

C/ Suero de Quiñones 34-36, 3º, 28002 Madrid, Spain.
www.iot.es / www.digitalray-path.com

YSIAN

A LENS DESIGNED SPECIALLY FOR THE **ASIAN MARKET**

Designed to offer **freedom of movement**

Ysian is a semi-personalized progressive lens that has been specifically developed for the Asian community of wearers offering a superior visual experience while delivering the visual freedom they need.

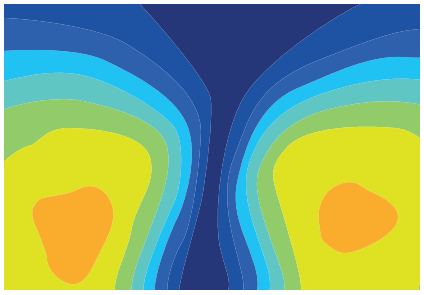
Y-TECH METHOD
IMPROVES MYOPE'S VISION

The incidence of myopia has increased rapidly during the last few decades, especially in Asian countries, where myopia is present in up to 90%* of the population.

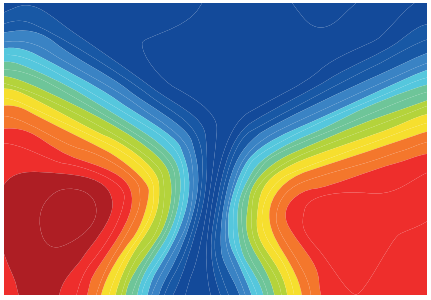
It is scientifically established that the difference between the myopic eye and the emmetropic eye includes not only refractive error but also a difference in perceived contrast sensitivity. Highly myopic wearers experience a considerable decrease in contrast sensitivity in mesopic or low light conditions.

The Y-tech Method considers the unique visual challenges of the myopic eye by minimizing the rate of increase of unwanted astigmatism from the corridor to the periphery of the lens. This ensures a subtle change and soft power distribution. The Y-tech Method controls how the astigmatism grows over the surface of the lens, minimizing its growth speed from both sides of the corridor until the periphery of the lens ensuring a very subtle change in power.

YSIAN LENS



CONVENTIONAL
FREE-FORM LENS

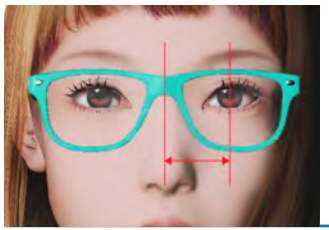


1. **Y-tech Method. Slow and subtle astigmatism growth (gradient).** *Astigmatism grows very slowly from the center of the lens to its edges. It is observed how isolines (which represent jumps in power are clearly more separated in Ysian lens which incorporates Y-tech Method than in standard/ competiror lens)*

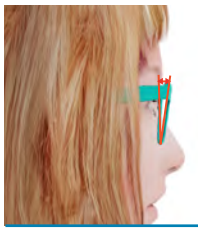
*Morgan IG, French AN, Ashby RS, et al. The epidemics of myopia: Aetiology and prevention. Prog Retin Eye Res 2018;62:134-49.

ASIAN FEATURES **AS A KEY ELEMENT**

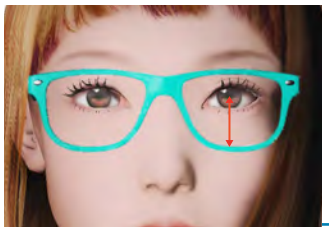
The Asian community of wearers have **unique facial features** which means a lens designer must take this into consideration when developing a design to meet the visual needs of Asian wearers. This fact has a strong correlation with the real lens position of use which is key factor to consider when looking for reaching the best possible vision. **Ysian considers the specific Asian features to automatically optimize the lens optimization according to the real lens position of use.** Optimized with default parameters for the Asian market, Ysian delivers outstanding visual quality and higher user satisfaction.



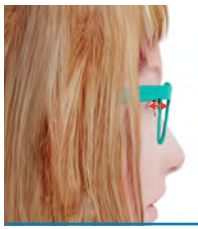
NASO PUPILAR DISTANCE



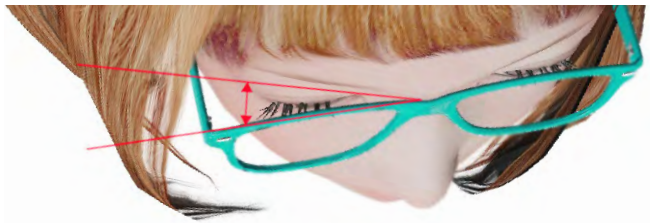
PANTOSCOPIC ANGLE



PUPILLARY DISTANCE



BACK VERTEX DISTANCE



WRAP ANGLE

EXTRA SOFT POWER DISTRIBUTION
FOR A FREEDOM VIEW

YSIAN has an extra-soft power distribution with minimum lateral astigmatism, nearly undetectable. This fact offers more comfortable vision, easier transition between distances and a practically immediate adaptation. Extra-soft lens patients also perceive an expanded intermediate vision. **All of this translates in a freedom vision with no limits.**

YSIAN LENSES

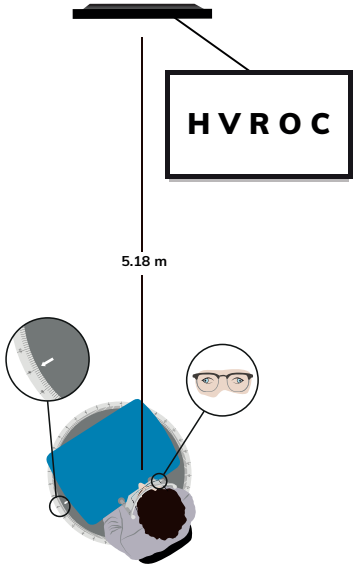
CONVENTIONAL FREE-FORM LENSES

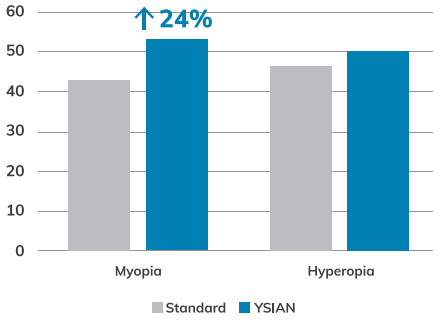
THE BEAUTY OF
DIGITAL RAY-PATH® TECHNOLOGY

Ysian design also incorporates Digital Ray-Path®, the state-of-the-art lens calculation technology available at IOT. Each lens is calculated by simulation of thousands of rays minimizing the oblique aberrations point-by-point on the entire surface, guaranteeing the best visual quality for all distances and gaze directions

To evaluate the effectiveness of the Y-tech method, ***IOT has conducted a double blind clinical trial*** *where we evaluated the undistorted visual fields in far distance in low contrast sensitivity in 2 groups of patients (myopic vs hyperopic) when using 2 pair of glasses (standard vs Ysian design with Y-Tech method).*

The evaluation was done using a **specific tool designed by IOT.** It consisted of a forehead and chin rest securely mounted on a testing table which allows rotation control of the head in degrees. Subjects were monitored to ensure that their heads remained immobilized and that they moved only their eyes to view the test. Binocular undistorted distance vision area was evaluated rotating the pal-disc from a lateral area in which the patient can not recognize a Snellen letter of size 0.8 (decimal scale) with low contrast (10%) until the patient is able to recognize the letter.





Results of the analysis showed that the undistorted visual fields for low contrast sensitivity were considerably wider for the Ysian lens in comparison to a standard lens, mainly in the myopic group: wearers also noted a 24% visual field increase in the distance zone in mesopic conditions.

Also, the percentage of myopic and hyperopic users that perceived an improvement of undistorted visual fields for low contrast sensitivity when using the new optimized lens was analyzed: 88% of the myopic users improved their visual field and 50% the users perceived an increased over 10° when using the new lens. In hyperopic users, 64% of the users perceived the benefits of the new lens, but in this case only 21% of them perceived an improvement over 10°.

ORDERING A CUSTOM LENS **WAS NEVER SO EASY**

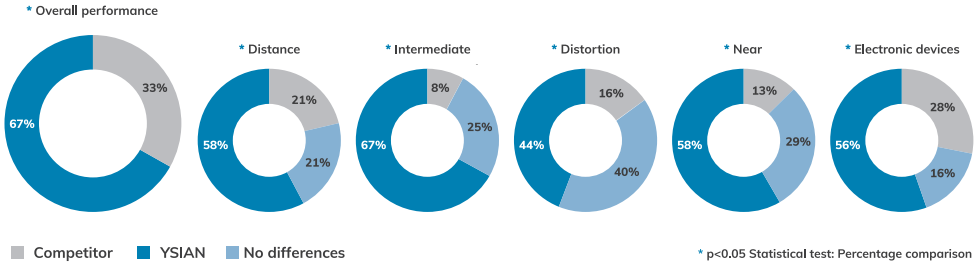
Ysian takes into account by default the Asian parameters.

For a 100% personalized version of Ysian, we recommend measuring pantoscopic angle wrap angle.

63% greater adaptation in customized lenses versus other non-personalized (only 17% did not prefer the personalized.

REAL USER TEST AGAINST PREFERRED LENS IN ASIAN MARKET

User preference is the most interesting point when comparing **2 different designs**, because it provides information about the strengths and weaknesses of the different lenses that the user has tested. To analyzing patients were asked about the preferred choice of lens for the different distances/tasks after using both pair of glasses for 7 days each (randomized order).



***When comparing both lenses**, most of the users preferred Ysian, for general use, for distance, intermediate and near vision. Ysian also was significantly preferred for electronic devices usage and because of less lateral distortion.*

FREEDOM TO FIT ON **EVERY FRAME**

Ysian provides **excellent vision** for any wearer **regardless of the frame that is selected.**