

NANOPTIX[®] TECHNOLOGY

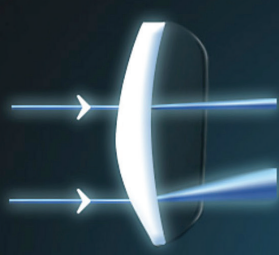
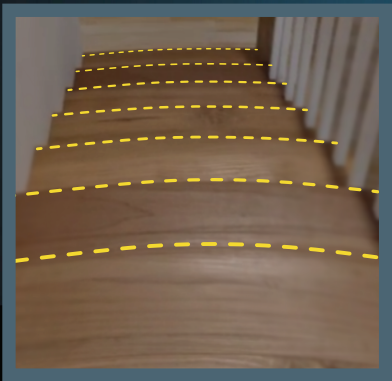

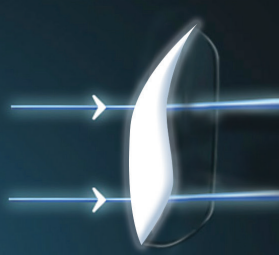
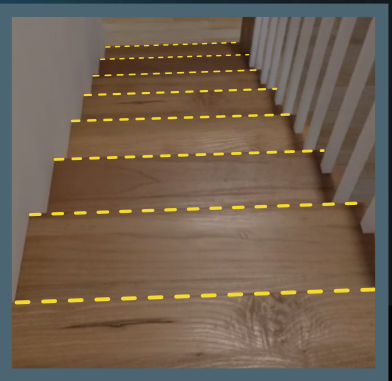
— WITHIN —

VARILUX[®] X SERIES[™]

LENSES

What does *Nanoptix* Technology do for patients?

Nanoptix Technology virtually eliminates the “off-balance” feeling patients get from wearing other progressive lenses. It combines a patented lens shape and a unique optical design calculation to control magnification and distortion throughout the lens.

Standard PALs		Varilux [®] X Series [™] lenses
 <p>Staircase view</p> 		 <p>Staircase view</p> 
Patients feel off-balance with other progressive lenses		Varilux X Series lenses reduce that off-balance feeling

Nanoptix Technology is available with the following *Varilux* lens designs:

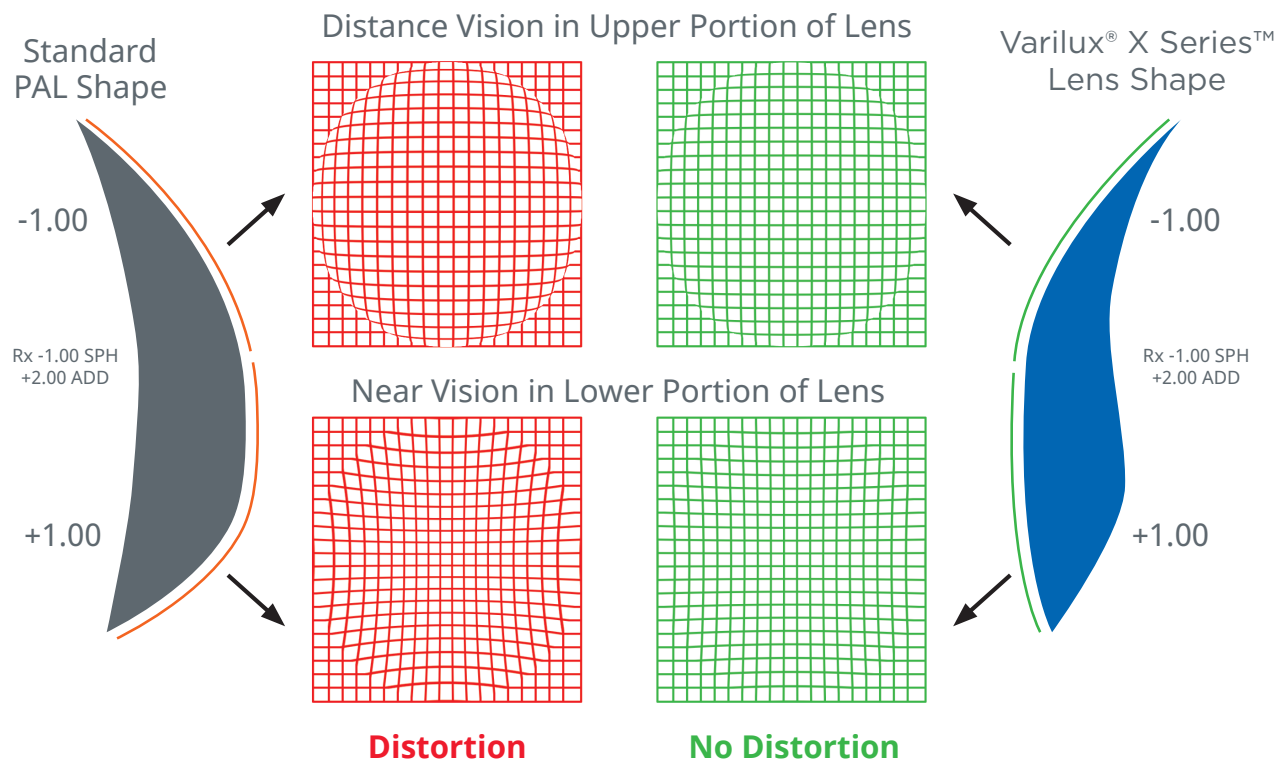
- Varilux[®] X 4D
- Varilux[®] X Fit
- Varilux[®] X Design



How does Nanoptix® Technology virtually eliminate the off-balance feeling?

The patented lens shape and design calculation eliminate the off-balance feeling for patients.

Comparison of lens distortion in Standard PAL vs. Varilux® X Series™ lens shape



Standard Progressive lenses

The progression of power is obtained by increasing the curvature of the front side of the lens from the distance vision (top of the lens) to the near vision (bottom of the lens). This results in a prismatic effect that is perceived as “swim” by the wearer.

Varilux® X Series™ lenses

With *Nanoptix*, *Varilux X Series* lenses use the full capabilities of digital surfacing in conjunction with a revolutionary design that flattens the front side surface when going from distance to near vision. The design can now manage both the power progression and prismatic effect, resulting in the virtual elimination of the “swim” perceived by the wearer.

Patient Benefits:

- Virtually eliminates the off-balance feeling.
- Provides clearer vision throughout the lens.

Patented technologies – others do not compare

Varilux X Series lenses with *Nanoptix* Technology are created with 4 unique patented technologies that competitors cannot duplicate.

EP11305234.4: protects specific geometries of lenses that have been invented to reduce distortion

EP11305381.3: protects the front side's specific surface that has been invented to reach the Varilux® X Series™ unique geometry

EP11160748.7: protects the specific geometrical definition of the periphery of the molds that has been developed to achieve Varilux® X Series™ range

EP11306675.7: protects the definition of the RX range that takes into account constraints of production, mounting and aesthetic



[ESSILORPRO.COM/VARILUX](https://www.essilorpro.com/varilux)