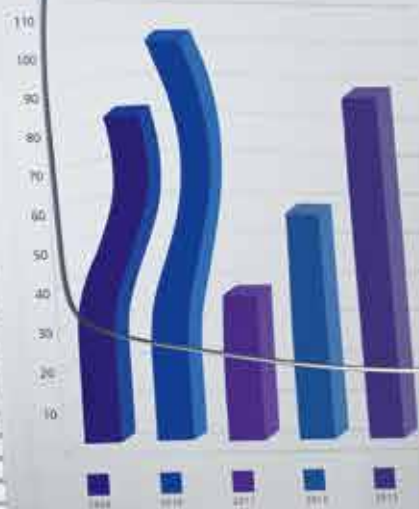
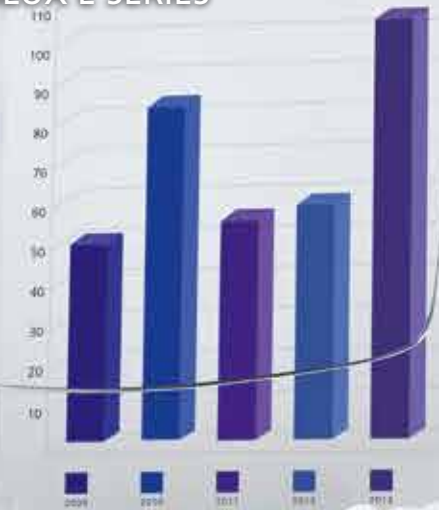


STANDARD VARIFOCAL



VARILUX E SERIES



NEW **VARILUX E SERIES**. EASY VISION FOR AN EASY LIFE.

THE REVOLUTION EXPANDS

Stemming from the most advanced technologies in the optical field, Varilux S series lenses revolutionised varifocal lenses and the experience of presbyopes. The unique lens geometry, exclusive technologies and the patented manufacturing process have enabled Essilor to redefine the conception and manufacture of varifocal lenses. For the wearers this means ultimate vision.

AND NOW VARILUX E SERIES LENSES ENLARGE THE VARILUX RANGE PORTFOLIO, PROMISING EASY ADAPTATION TO EVEN MORE WEARERS. EASY VISION FOR ALL PRESBYOPES.

VARILUX® E series™

88%

OF PRESBYOPES* AGREE IT CAN TAKE QUITE A LONG TIME TO GET USED TO VARIFOCAL LENSES AND VARILUX RESEARCHERS HAVE CONFIRMED THAT THE SWIM EFFECT IS THE MAIN REASON FOR SLOW ADAPTATION.

An interesting experiment shows that swim effect plays a key role in presbyope's ability to adapt to varifocal lenses. Subjects were presented in an immersive virtual environment with visual stimuli which were developed to simulate dynamic distortions. We found that head and body movements compensate the perceived dynamic image deformation.

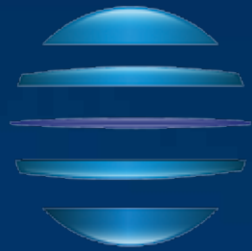
The visual input has a strong influence and when it is distorted, in conflict with other signals, IT LEADS TO COMPENSATORY MOVEMENTS WHICH INCREASE THE ADAPTATION EFFORT.

Now, with Varilux E series lenses, there is no reason your presbyopic patients should not enjoy easy vision: Fast adaptation and less distortion for enhanced visual comfort, true images and great value for money.

*Ipsos quantitative study - UK - 2012 - Presbyopes still not equipped with varifocal lenses.

Source: Faubert J., Allard R. (2004): Effect of visual distortion on postural balance in a full immersion stereoscopic environment. In Stereoscopic Displays and Virtual Reality Systems XI, edited by Andrew J. Woods, John O. Merrit, Stephen A. Benton, Mark T. Bolas. Proceedings of SPIE/IS&T Electronic Imaging, SPIE Vol. 5291, pp. 491-500.
Hanssens J.-M., Allard R., Faubert J. (2007). "Progressive lenses distortions effect on postural stability in virtual reality environment". Journal of Vision, 7(9): 1026.

INTRODUCING SWIM CONTROL



The secret behind Varilux E series is Swim Control™, an exclusive technology. Inspired from Nanoptix, this new technology reduces the swim effect in order to make adaptation easy.

SWIM CONTROL™

AT THE HEART OF SWIM CONTROL

Like Nanoptix, Swim Control is derived from a multi-patented calculation based on micro-elements. Those micro-elements are used to manage the lens addition independently from the lens curvature.

As a result, the lens geometry is better controlled to reduce the swim effect.

As it is in the peripheral vision that the wearer is the most impacted by the swim effect, the sides of Varilux E series lenses are calculated with the same level of sophistication as Nanoptix. However, the rest of the lens is calculated with a lesser level of sophistication, meaning the calculation is easier

DIFFERENTIATED LEVELS OF SOPHISTICATION

Illustrations below show how micro elements are managed on Varilux E and S series lenses. Both lenses have similar properties in the periphery. However central areas show differentiated levels of sophistication. The high contrast and brightest colours represent the highest level of sophistication.

VARILUX® E series™



Average level of sophistication

VARILUX® S series™

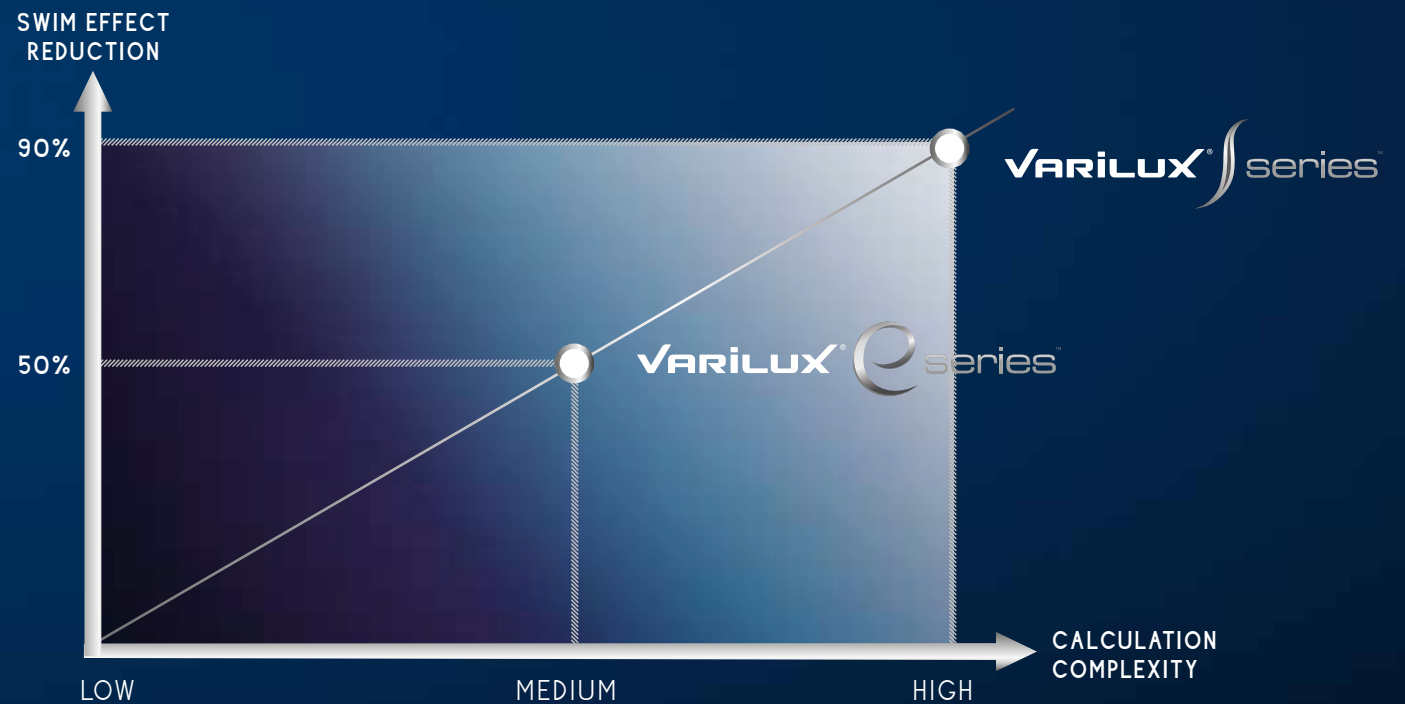


High level of sophistication

THE RESULT OF SWIM CONTROL™

The efficiency of the lens against the swim effect depends on the level of sophistication applied to the lens. The more sophisticated the calculation, the greater the reduction in swim effect.

Nanoptix reduces the swim effect up to **90%**
Swim Control reduces the swim effect up to **50%**



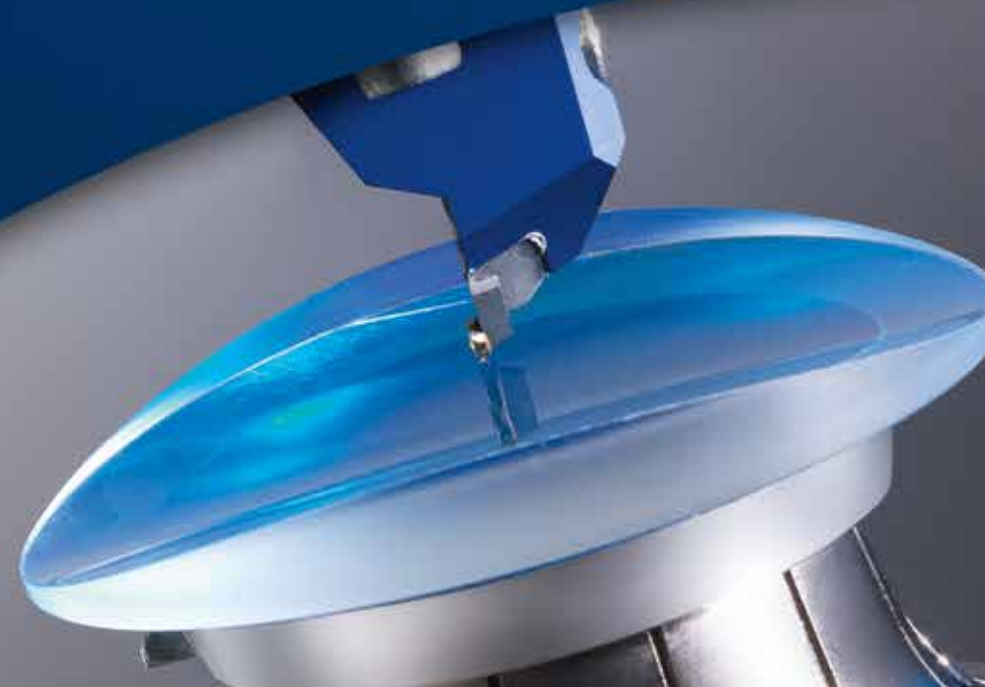
DEEPER INTO THE TECHNOLOGY

Swim Control™ requires the same manufacturing precision as Nanoptix, ensuring the exact alignment of both the front and back surfaces of the lens during the digital surfacing process. S Digital Surfacing is unique and essential to all Varilux S and E series lenses.

 digital surfacing

S digital surfacing is designed to reach an unmatched level of precision and is protected by no less than 5 patents. Beyond a unique manufacturing process it includes exclusive equipment installed throughout our laboratory network.

It is with the unique engineering in S Digital Surfacing that Varilux S and E series lenses can control the Swim Effect like no other lens on the market.



THE VARILUX E SERIES RANGE

VARILUX® e²

Varilux E series performance optimised using the frame fitting parameters

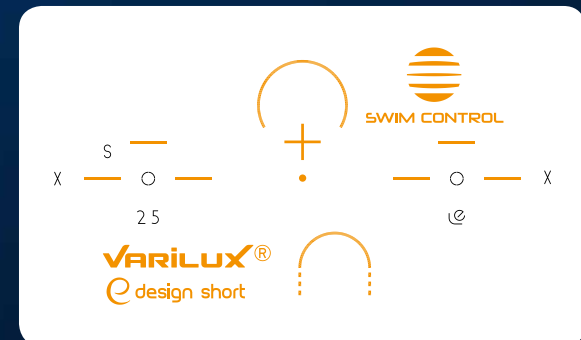
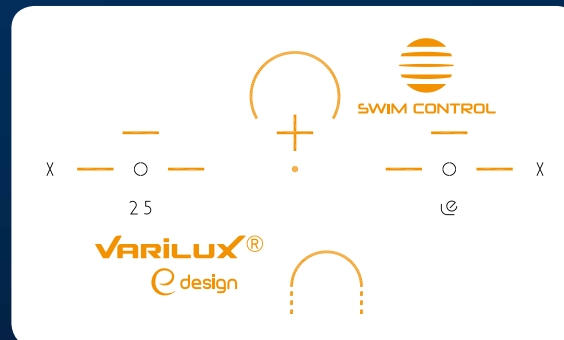
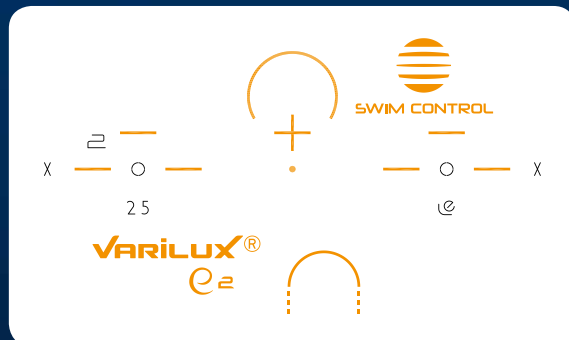
VARILUX® e design

Varilux E series lenses for standard frames

VARILUX® e design short

For wearers choosing a shallow frame, recommend Varilux E design short

ENGRAVINGS / FACINGS



TECHNICAL INFORMATION

RANGE AVAILABILITY



WEARER POWER

Varilux E series lenses are manufactured using the 'as worn' position. When measured on a focimeter, the values will be different from the ordered prescription.

Example		Far vision			Addition	
G/L	DD	Sph	Cyl	Axis	Add	
👁️	65/70	-0.50	+0.75	010	+1.75	Ordered prescription
		-0.46	+0.74	010	+1.67	Checking values to be measured with focimeter

MINIMUM FITTING HEIGHTS

- Varilux E 2: 14mm
- Varilux E design: 17mm
- Varilux E design short: 14mm

COATINGS

- Available with the best Crizal coatings
 - Crizal Previncia
 - Crizal Forte UV
 - Optifog UV

THE VARILUX RANGE

Varilux Liberty® New Edition



Digital Precision
at any distance

Varilux Comfort® New Edition



Total Comfort
in any task

Digital Precision
at any distance

Varilux® E series



Easy Adaptation

Total Comfort
in any task

Digital Precision
at any distance

Varilux Physio® 2.0



High Resolution Vision™
in any light

Easy Adaptation

Total Comfort
in any task

Digital Precision
at any distance

Varilux® S series



Visual Stability
when moving

Wide Angle Vision

High Resolution Vision™
in any light

Easy Adaptation

Total Comfort
in any task

Digital Precision
at any distance



Seeing the world better

www.varilux.co.uk

Essilor International is the world leader in the design, manufacture and customisation of ophthalmic lenses. Active on five continents, Essilor offers a wide range of lenses under the flagship Varilux, Crizal, Optifog, Xperio and Essilor brands to correct myopia, hyperopia, presbyopia and astigmatism.