

FOR THE FIRST TIME,
VARILUX® PERFORMS
CORRECTIVE SURGERY.

On a lens.



INTRODUCING
VARILUX® PHYSIO™
WAVEFRONT CORRECTION IN PROGRESSIVE LENSES



W.A.V.E.
TECHNOLOGY™
WAVEFRONT ADVANCED
VISION ENHANCEMENT

VARILUX
KEEPS
PROGRESSING.

You will too.

Since 1959, with the invention of the world's first progressives, VARILUX has innovated lens technology to advance the standards of vision and vision care.

For decades, Essilor has dedicated its considerable resources in research and development—employing nearly 500 R&D experts—to understanding the **physiology** of sight and the science of lens design and manufacturing. This allows Essilor to create an average of 180 new patents annually, and design the most sophisticated lenses in the world.

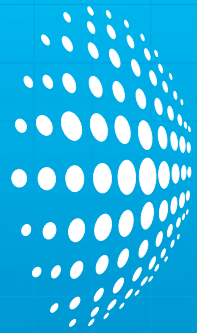
Today, this innovation leaps light years ahead with the introduction of VARILUX PHYSIO: the most advanced, general wear progressive available.

Varilux keeps progressing. You will too.

VARILUX®



THE WAVEFRONT EFFECT:



W.A.V.E.

TECHNOLOGY™

WAVEFRONT ADVANCED
VISION ENHANCEMENT



VARILUX® PHYSIO™

UNSURPASSED SHARPNESS AND COMFORT

Until today, even the best progressive lenses distorted light waves as they passed through the lens. This causes higher order aberrations that affect visual acuity and wearer satisfaction.

But now, after years of work, VARILUX® has refined a new design and manufacturing process—**W.A.V.E. TECHNOLOGY™**—which minimizes and eliminates these distortions with unprecedented digital precision. And with W.A.V.E. Technology, VARILUX PHYSIO has been created—the first general purpose lens to deliver the corrective power of wavefront to all presbyopes who want the sharpest, most **physiologically** natural vision.

INTRODUCING

W.A.V.E. TECHNOLOGY™

WAVEFRONT ADVANCED VISION ENHANCEMENT

W.A.V.E. Technology: Design. With this new design and manufacturing process, VARILUX® has adapted the wavefront technology used in laser surgery to correct vision by detecting and eliminating surface aberrations, to literally *correct* distortion in progressive lenses.

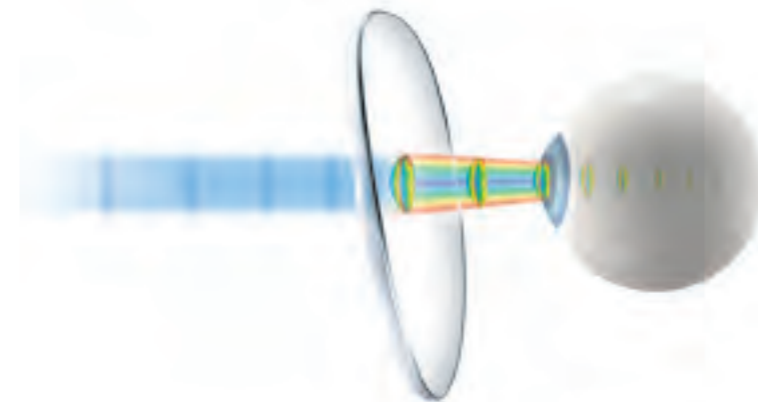
For the first time, W.A.V.E. Technology lets VARILUX engineers analyze an entire beam of light entering the pupil (not just a single ray), so they can identify distortion and correct it—managing the quality of the wavefront passing through the lens to achieve optimal acuity.

W.A.V.E. Technology's patented, proprietary software then scans the entire surface of the lens, calculating the targeted optical function for each point, for each gaze direction.

The result of these complex analyses and calculations—a **lens design that dramatically reduces or eliminates higher order aberrations, and provides unsurpassed progressive performance.**

5 new VARILUX patents in lens design

Managing the entire wavefront



W.A.V.E. Technology: Manufacturing. Design as advanced as VARILUX® PHYSIO™ requires manufacturing that is just as progressive. And that's exactly what VARILUX developed with W.A.V.E. Technology's patented 360° Digital Surfacing™ process.

This breakthrough process is able to apply even the most complex surface design of VARILUX PHYSIO with unprecedented, point-by-point accuracy: 1/10 micron.

But while VARILUX PHYSIO represents true innovation in both design and creation, it is the impact on the wearer's vision that is most dramatic.

3 new VARILUX patents in manufacturing technology

VARILUX® PHYSIO™

FOR THE SHARPEST DISTANCE, INTERMEDIATE, AND NEAR VISION

DISTANCE VISION: Coma Controlled, Acuity Sharpened

Because the pupil is naturally enlarged in distance vision, this is where we see the most distortion from higher order aberrations such as coma. And yet distance is where the wearer needs acuity most.

Now, W.A.V.E. Technology™ makes it possible to properly measure and control coma, virtually eliminating it while widening the field of vision and sharpening the image on the retina.



REPRESENTATIVE OF COMA



COMA CONTROLLED



INTERMEDIATE VISION



NEAR VISION



LOW-LIGHT

INTERMEDIATE VISION: Astigmatism Managed, Acuity Optimized

Due to power variation, all progressive addition lens (PALs) generate astigmatism. W.A.V.E. Technology is able to give wearers up to a 30% wider field of vision by adjusting the axis of astigmatism vertically to make vision clearer. In comparative test results, VARILUX PHYSIO 360™ showed an improvement across all dimensions, including in the perception of a wider field in intermediate vision versus VARILUX® PANAMIC®.

NEAR VISION: Extended Area, Greater Comfort

W.A.V.E. Technology stabilizes power in an extended near area, allowing the eye to use a larger area of the lens, so wearers access near vision more comfortably, with a greater field of sharpness.

LOW-LIGHT: Unsurpassed Sharpness

As pupils are particularly enlarged in low-light situations, aberrations are more apparent. W.A.V.E. Technology's coma control has very significant impact here even providing improved contrast sensitivity.

VARILUX® PHYSIO™

GIVES YOU W.A.V.E. TECHNOLOGY IN TWO WAYS

FRONT DESIGN: **VARILUX PHYSIO**

Most presbyopes, especially younger progressive wearers and those still relying on reading glasses, will get the full benefit of VARILUX PHYSIO with front design only. Thanks to W.A.V.E. Technology™ design and specialized molds, these lenses manage higher order aberrations and provide far greater acuity in all fields of vision.



For wearers who:

- Are new presbyopes
- Are already VARILUX® wearers
- Want to upgrade from another PAL

Enhanced with Crizal Alizé with Clear Guard™

New, exclusive Crizal Alizé with Clear Guard™ makes the clearest antireflective even clearer. Lenses are easier to clean and stay cleaner longer, allowing for the long-lasting clarity patients expect from their lenses.

Crizal Alizé with Clear Guard™ is included in all VARILUX PHYSIO 360™ lenses.

FRONT & BACK DESIGN: **VARILUX PHYSIO 360°**

The most advanced lens design and the ultimate digital surfacing

With W.A.V.E. Technology's proprietary calculation software, the back side of the lens can now be computed point-by-point and optimized to complement and enhance even the most complex front design. Next, W.A.V.E. Technology's patented 360° Digital Surfacing™ process allows these complimentary front and back designs to be applied with absolute precision, for the ultimate performance.



Also for wearers who:

- Want the most advanced and accurate progressive vision
- Have complex sphere, cylinder, or axis prescriptions
- Want the sharpest distance vision possible
- Spend much of their time in an office setting and need wide vision in near and intermediate fields
- Have not adapted to other PALs due to lens design limitations

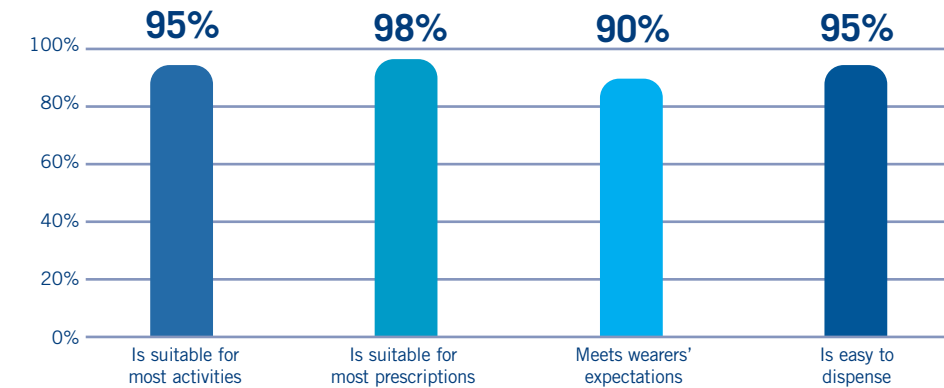
MEASURED AGAINST THE BEST, AND PREFERRED

PREFERRED BY PROFESSIONALS, TOO

More than 2,000 wearers have already tested VARILUX® PHYSIO™ and approved its superiority versus existing PALs for all visual criteria. The results of wearer tests show higher satisfaction with VARILUX PHYSIO whatever the ametropia, the age of presbyopes, or the type of previous eyeglasses.



I am satisfied with VARILUX PHYSIO because it...



Market tests results among 2,000 randomly selected wearers and 160 eye care professionals in everyday practice conditions. Tests conducted in 5 countries having different dispensing habits (Australia, USA, France, Germany, and UK).

Vs Gold Standard

2 out of 3

- VARILUX COMFORT® wearers preferred VARILUX PHYSIO
- VARILUX® PANAMIC® wearers preferred VARILUX PHYSIO

Vs non-VARILUX PALs

3 out of 4 wearers

- Chose VARILUX PHYSIO over their current PAL

VARILUX PHYSIO was tested worldwide in internal R&D studies, external studies with independent universities and with Eye Care Professional's in actual market conditions.

VARILUX PHYSIO and VARILUX PHYSIO 360°™

- Are easy to adapt to and substitute
- Require no special measurements or equipment
- Fit like any other VARILUX® lens (Always take a distance monocular PD and fitting height at far vision to ensure exact centering of the eye.)
- Have a minimum fitting height of 17 mm

INTRODUCING

VARILUX® PHYSIO™

WITH W.A.V.E. TECHNOLOGY™ WAVEFRONT ADVANCED VISION ENHANCEMENT

- Brings the corrective power of wavefront technology to progressives
- Dramatically reduces or eliminates higher order aberrations such as coma
- Distance Vision: Minimizes distortions, guarantees ultimate acuity
- Intermediate Vision: Widens visual corridor up to 30% and reduces effect of astigmatism
- Near Vision: Stabilizes power in extended vertical area for greater physical comfort and a greater field of sharpness
- Offers W.A.V.E. Technology in two ways:
 - VARILUX PHYSIO, far greater acuity with front design only
 - VARILUX PHYSIO 360°™, for the ultimate in front-back digital precision
- Preferred by 2 out of 3 wearers of VARILUX COMFORT and VARILUX PANAMIC
- No special measurements or equipment needed

Visit www.varilux.com

VARILUX®
PHYSIO™

Crizal ALIZÉ
WITH CLEAR GUARD™

vision)web™
Streamline. Simplify. Succeed.™

Varilux keeps progressing. You will too.

VARILUX®

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