



W.A.V.E. TECHNOLOGY 2™

What does W.A.V.E. Technology 2™ do for patients?

PATIENT BENEFIT = Sharpest vision at every distance even in low light.

W.A.V.E. Technology 2: Wavefront Advanced Vision Enhancement™ does two things:

- 1. Identifies and eliminates distortion based on the prescription.
- 2. Customizes wavefront correction to the patient's needs.

This creates a unique lens design for every patient - without additional measurements or equipment.

How does W.A.V.E. Technology 2 work?

All progressive lenses have distortions caused by changes in curvature across the lens surface. These distortions reduce the perception of contrast and sharpness.



Lake reflection with distortions



Lake reflection without distortions

Distorted image

Clear, sharp image

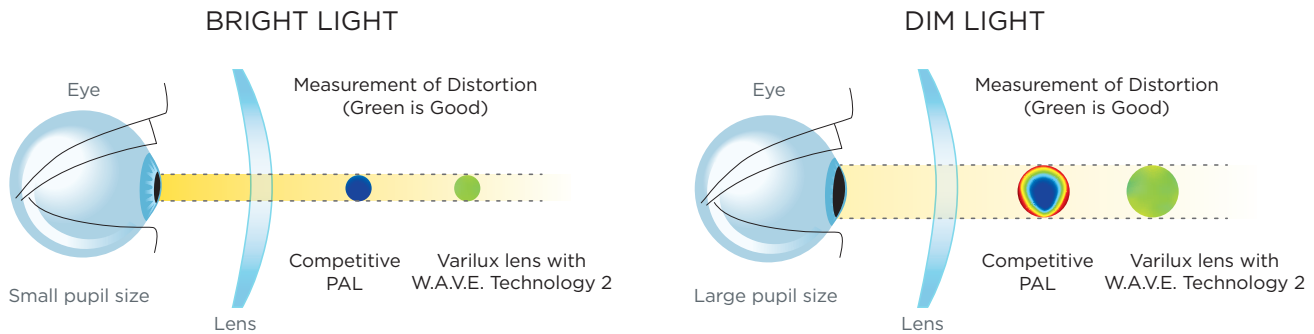
W.A.V.E. Technology 2 enables Varilux® lens designers to analyze an entire beam of light as it passes through the lens. This allows them to:

- Identify and virtually eliminate lens distortions for clearer, sharper vision even in low light.
- Customize lens designs by taking into account changes in pupil size.

W.A.V.E. Technology 2 is available with the following lens designs:

- Varilux S 4D™
- Varilux S Fit™
- Varilux S Design™
- Varilux® Physio® W3+ eyecode™
- Varilux® Physio® W3+ Fit
- Varilux® Physio® W3+
- Varilux Comfort® W2+ eyecode™
- Varilux Comfort® W2+ Fit
- Varilux Comfort® W2+

How does *W.A.V.E. Technology 2* work? (continued)
 How does pupil size affect a patient's vision?

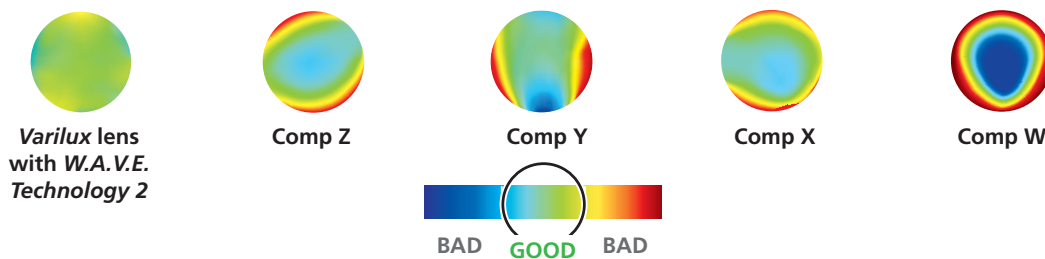


In bright light, the pupil constricts and uses a smaller portion of the lens. Distortion is less apparent in bright light conditions.

In dim light, the pupil enlarges and uses a larger portion of the lens. Any distortion will become more apparent in dim lighting conditions (because image sharpness will be reduced).

W.A.V.E. Technology 2™ controls distortion far better than competitive PAL designs.

Comparison of Wavefront Distortion Levels:



Patient Benefits

- Sharper vision at every distance
- Better vision, even in low light

Varilux lenses with W.A.V.E. Technology 2 are preferred 25:1 by patients*

*Data on file

Patented technologies - others do not compare

Varilux lenses with *W.A.V.E. Technology 2* are created with 10 patented technologies that competitors cannot duplicate.

US Patent # 7,207,675B1: vertically extended distance zone
 US Patent # 7,207,674 B2 1: wider aberration free distance zone
 US Patent # 7,413,303 B2: low cylinder and monotonous periphery
 US Patent # 6,909,498B2: wavefront measurement technology
 US Patent # 7,427,134 B2: low level of wavefront aberration

US Patent # 7,210,780B1: vertical alignment of axis of astigmatism in intermediate vision
 US Patent # 7,229,173 B2: dual digital surfacing calculation
 US Patent # 7,223,164B2: polishing and controlling tool
 US Patent Pending: W.A.V.E. Technology 2 design calculation
 US Patent Pending: variable inset



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